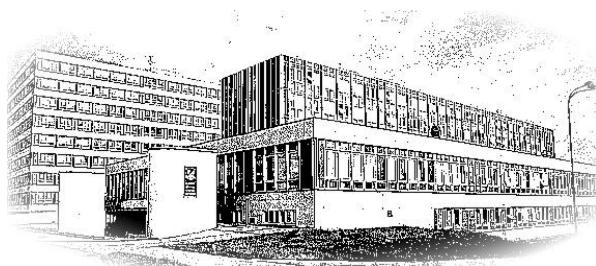


UNIVERSITY OF DEFENCE
FACULTY OF MILITARY HEALTH SCIENCES

ANNUAL REPORT

2011

HRADEC KRÁLOVÉ
CZECH REPUBLIC



**Faculty of Military Health Sciences
Hradec Králové**

EDITORIAL NOTES

Dear Reader:

This publication presents the main activities of the Faculty of Military Health Sciences Science of the University of Defence in Hradec Králové.

The 20th Annual Report includes the principal research and educational activities of the 9 departments, 1 institute and 1 centre so that it may act as a basis for internal and external evaluation respectively.

Should you require more detailed information about our Faculty, it is available on our website <http://fvz.unob.cz> or <http://www.pmfhk.cz>.

In case of any suggestions or comments to our activities, do not hesitate to contact us at the undermentioned address.

Vice-Dean for Research
Assoc. Prof. Kamil KUČA
kucakam@pmfhk.cz

Our contact address in different languages is as follows:

Univerzita obrany Brno
Fakulta vojenského zdravotnictví Hradec Králové

University of Defence Brno
Faculty of Military Health Sciences Hradec Králové

Universität der Verteidigung Brno
Wehrmedizinische Fakultät Hradec Králové

Université de la Défense de Brno
Faculté de Médecine Militaire de Hradec Králové

Universidad de Defensa Brno
Facultad de Sanidad Militar Hradec Králové

Universitas Defensionis Brunensis
Facultas Medicinae Militaris Grezreginensis

Třebešská 1575
500 01 Hradec Králové
Czech Republic

CONTENTS

EDITORIAL NOTES	3
CONTENTS	5
FOREWORD	7
INTRODUCTION	9
• HISTORY	9
• THE MAIN AIMS OF THE FACULTY IN 2011	17
• THE STRUCTURE OF THE FMHS	22
THE DEAN OF THE FACULTY AND HIS DEPUTIES	23
• MEMBERS OF THE SCIENTIFIC COUNCIL	23
• MEMBERS OF THE ACADEMIC SENATE	24
• MEMBERS OF THE EDUCATION COMMISSION	24
CENTRE OF ADVANCED STUDIES	25
DEPARTMENT OF EPIDEMIOLOGY	36
DEPARTMENT OF FIELD INTERNAL MEDICINE	44
DEPARTMENT OF FIELD SURGERY	47
DEPARTMENT OF GENERAL AND EMERGENCY MEDICINE	51
DEPARTMENT OF INFORMATION AND COMMUNICATION SYSTEMS ..	54
DEPARTMENT OF MILITARY HEALTH SERVICE ORGANIZATION	56
DEPARTMENT OF MILITARY HYGIENE	58
DEPARTMENT OF PUBLIC HEALTH	61
DEPARTMENT OF RADIOBIOLOGY	65
DEPARTMENT OF TOXICOLOGY	68
INSTITUTE OF MOLECULAR PATHOLOGY	74
VIVARIUM	83
VISITORS TO THE FACULTY OF MILITARY HEALTH SCIENCES	86
VISITS ABROAD	86
OBITUARY	95

WORKSHOPS, COURSES, RESIDENCIES AT THE FACULTY IN 2011 ..	97
INTERNATIONAL COOPERATION	100
SCIENTIFIC AND RESEARCH ACTIVITIES	105
THE REVIEW OF RESEARCH PROJECTS CARRIED OUT AT THE FACULTY OF MILITARY HEALTH SCIENCES IN 2011	107
ARTICLES IN JOURNALS WITH IMPACT FACTOR.....	119
ARTICLES IN OTHER JOURNALS	132
TEXTBOOKS, MONOGRAPHS, ARTICLES IN MONOGRAPHS AND PROCEEDINGS.....	139
ABSTRACTS IN JOURNALS WITH IMPACT FACTOR.....	143
ABSTRACTS.....	146
PRESENTATIONS AND POSTERS	154
RESEARCH REPORTS	190
INDEX	191

FOREWORD

The Faculty of Military Health Sciences University of Defence in Hradec Kralove is a centre of medical education and research of the Army of the Czech Republic with long-time history. The military medical education began in Hradec Kralove in 1951 and we were celebrating 60th anniversary of the faculty in 2011. The school was established by an order of the President of the Republic as the Military Medical Academy, and later with a honorary nickname of "Jan Evangelista Purkyně". After the change of name to the Military Medical Research and Training Institute it is returned to its original name in 1988 and in 2004 during the professionalization of the army, reorganization of military education and University of Defence establishment it began a new phase, phase of the Faculty of Military Health Sciences. From 2004 our faculty is one of three faculties at University of Defence. Now the Faculty of Military Health Sciences belongs among key elements of military university education with the highest scientific output in the university. After merging with two other originally separate military universities we have created a viable and developing organism stressing strengths of its units. Each school covers variety of different tasks with limited staff and resources. Our role is not only to educate and train all the medical, pharmaceutical and nursing specialists and keep scientific excellence, but also general support of the Military Health Service which is influenced by various staff cuts and restructuring as well. The faculty primarily provides studies in two accredited bachelor's study (Military Health Care Management, Health Rescuer), three master's study programme (Military General Medicine, Military Dentistry, Military Pharmacy) and eight doctoral study programmes.

In spite of limited personal and financial resources in 2011, we would like to continue and even to increase most of our activities. The Czech (Medical Service) field hospitals are well-known around the world and there are not so many other good examples from our Military except military police and chemical troops. Our approach is different from the majority of other services. Our training is both long-term and intensive. It means that our students may gain deeper knowledge and skills and also an attitude to military life. Education, training and research should be jointed and a pool of excellent professors, scientists and teachers should be created. But it is a long way to go. The Faculty of Military Health Sciences is an open body for mutual cooperation with scientists and teachers from all democratic countries. In spite of changing priorities in the Czech Military, we are still dealing with specialization of the Czech Armed Forces in Nuclear, Biological and Chemical protection and many humanitarian and military deployments of military medical services abroad. Our Faculty will play the key role in this demanding process. We will guarantee the research and fulfillment of training needs for medical corps, specialized forces and for some NATO countries. Our very challenging goal is to build step-by-step the NATO centre

FOREWORD

of excellence for training and research in the field of NBC protection. Nevertheless our primary concern is education and training of students and young physicians. This is hardly to imagine without our closest partners and international cooperators and friends.

At present the Faculty covers the needs of troops concerning medical professional training in all specializations, medical informatics, science and research. The Faculty represents an optimal model of education for less populous medical specialties in close cooperation with Charles University in Hradec Kralove. The Faculty has educated a lot of specialists not only at a national, but also (at least) at European level. A lot of important positions prove it. These positions have been performed by the former and present faculty personnel in important international institutions from the NATO Surgeon General in Europe, through membership in various NATO, EU, United Nations Security Council, and World Health Organization boards, European Centre for Disease Prevention and Control, to the presidency in the World Medical Association that includes all doctors all over the world. The Faculty provides and solves a lot of research projects, it has its own complex laboratory technologies for scientific work, above all within the sphere of life force protection against NBC agents. The scientific results are published in many respected international journals such as the Lancet.

The very fact that the Faculty has survived all the reform, reorganization and other changes, demonstrates its uniqueness, high educational, professional and research level. That could not be achieved without close cooperation with other scientific and educational work. Not at all the universities are seen as closely collegial relationship as we have with Medical and Pharmaceutical Faculties of Charles University, University of Hradec Kralove, Faculty of Health Studies in Pardubice, Faculty Hospital in Hradec Kralove and military field hospital base. Personally, I perceive as a higher cooperation with representatives of the city of Hradec Kralove, thanks to which the Faculty has an excellent name among the city public. All this adds a spiritual dimension to the Cardinal and Archbishop of Prague favor of our Faculty. I am pleased that this collaboration will be able to continue.

Dean of the Faculty of Military Health Sciences
COL Assoc. Prof. Roman Chlábek, M.D., Ph.D.

INTRODUCTION

HISTORY

The Purkyně Military Medical Academy has been a long-term educational and scientific centre of the Czech Army Medical Service. There has been a very long history of systematic education of military medical personnel in our country. Its beginnings lie, as in many European countries, in the 18th century. Large, permanent armies were being built and the military medical service became a normal part of these armies. In 1776 the War Council of the Vienna Court issued an administrative order which definitely prohibited the employment of field surgeons in the armed forces who had not studied anatomy and who had not had their knowledge officially examined. This can be considered the beginning of organized education of military medical personnel in our country. Six-month courses were organized for field surgeons at the Garrison Hospital in Gumpendorf near Vienna.

The fundamental milestone in the “Austrian” stage was, however, in 1785 with the establishment of the Military Medical (Surgical) Academy named the Josephinum after its founder, the enlightened monarch and father of many political and social reforms, Emperor Joseph II. He saw the mission of the school as fulfilling these tasks:

- education of qualified military surgeons (physicians)
- creation of a learned society for research in medical science
- creation of a permanent field sanitary commission for solving questions concerning combat casualty care.

A number of renowned physicians of Czech origin significantly contributed to nearly 90 years of the school’s history.

The foundation of the independent Czechoslovak Republic in 1918 meant at the same time the creation of a democratic army. The basic element of career military physician training was represented by the Military Medical School. Its establishment was the result of a decision by the Czechoslovak Republic government which by its resolution of 25 June 1926 defined the principles of recruiting professional medical and pharmaceutical personnel to the army. The Military Medical School provided professional training for military physicians and further qualification growth for the performance of higher command functions in the military medical service structure.

The development of the Czechoslovak Military Medical Service in our country was interrupted by the Second World War. When the army was disbanded a number of physicians and medical students participated in foreign and domestic resistance. The largest number of them were concentrated in England. The British government permitted medical students

HISTORY

to complete their studies at British universities. They graduated from Oxford University. The Czechoslovak Military Hospital was created at London Hammersmith Hospital. A few courses of the Medical and Pharmaceutical Reserve Officer School were taught in Leamington and Walton-on-the-Naze where the Czechoslovak Brigade's out-patients' department was situated. Thus, the tradition of the Czechoslovak military medical educational system maintained its continuity.

In 1945 the pre-war practice of recruiting professional personnel to the Military Medical Service was rebuilt. The Military Medical School in Prague was renowned. At the same time tendencies referring to the practice of some medical services of the world's leading armies which required the establishment of an independent military medical university were increasing. The results of the Second World War and the growth of new knowledge in the field of medicine and especially military medicine played a significant role in this.

In 1951 a new period began in the development of the Czechoslovak military medical educational system. This period has been permanently connected with Hradec Králové for 55 years. Rapid establishment of the Military Medical Academy (MMA) was possible only due to the fact that it was built on the basis of being a theoretical and clinical part of the Faculty of Medicine – a branch of Charles University established in 1945. Thanks to the reputation of its workers, a majority of whom became employees of the MMA, the school became an educational and scientific centre of the Czechoslovak Medical Service and within a short time gained a good reputation both at home and abroad. The MMA has educated a number of outstanding military medical specialists and the first steps of several contemporary top specialists of Czechoslovak medicine were connected with its existence.

Beginning in 1958 and for the next 30 years the military medical system was transformed into the form of the Purkyně Military Medical Research and Postgraduate Institute. Research tasks and activities in the area of further schooling and specialization of military physicians and pharmacists became a fundamental part of its activity. The main portion of a further basic task of the school – the pregraduate training of future military physicians – was taken over by the renewed Faculty of Medicine of Charles University in Hradec Králové. The development of mutual cooperation between these two partner schools, to which the Faculty of Pharmacy of Charles University in Hradec Králové joined in 1976 as a significant guarantee of the education of military pharmacists, has become a part of the military medical system.

In 1988 the school changed its name to the Purkyně Military Medical Academy which, institutionally, reflects more precisely the wide variety of its activities.

In November 1989, the school entered a qualitatively new period of development. It has passed through a transformation which has basically changed some military-professional teaching programmes, the organizational

structure of the school, personnel support, the composition of the educational staff and so on.

The Academy has been included in the new university educational system and since 1993 (origin of the Czech Republic) has served as a training centre for Czech Army medical professionals. It has trained nearly 2600 military surgeons, dentists, and pharmacists till now.

Some special activities have become a main part of the school's activities. The humanitarian role of the Military Medical Service and the Military Medical Academy personnel in the present foci of conflicts in the world without doubt rank among them. As early as 1991 an independent Czechoslovak NBC battalion was sent to the Gulf. In 1994 a further tradition was established – regular operation of military medical personnel in peace-keeping missions in the territory of the former Yugoslavia. The 6th Field Hospital is known to the public for its operations abroad, first in the former Yugoslavia and later in Albania, and then in Turkey following the earthquake in that country. In 2002 members of the Czech Army Military Medical Service were employed in the ISAF mission in Afghanistan. From May to October it was the 6th Field Hospital. Then this mission was taken over by the 11th Field Hospital which completed its operations at the end of 2002. Professional training and personal acquaintance of both field hospitals personnel before their departure abroad has been traditionally carried out at the Purkyně Military Medical Academy.

Some employees of the Purkyně Military Medical Academy are representatives at international non-governmental institutions and in the positions of UN and NATO experts and advisers. The highest position within the NATO Allied Command Europe Medical Service was held by Brigadier-General Assoc. Prof. Leo Klein, M.D., CSc. He remained in this position until September 2002 when he completed his period of service. Since December 2002 he has been Surgeon General of the Czech Army Medical Service. He is known to the public for his work at the Department of Field Surgery at the Purkyně Military Medical Academy and at the Surgical Department of the Teaching Hospital in Hradec Králové.

COL Assoc. Prof. Roman Prymula, M.D., CSc., Ph.D. has been elected the new Rector of the Purkyně Military Medical Academy. He officially assumed this position on October 1, 2002.

The Academy continues to be a centre for integrated education and scientific research activity ensuring educational and research activities of all kinds and degrees for the training of military medical professionals. In the future its aim is to remain a modern university institution fully comparable with similar facilities and standards in other NATO countries.

The year 2003 was significant with regard to different opinions on the reform of the Czech Republic Armed Forces. The initially proposed conception was reevaluated in the wake of the reform of public finances which was enforced by the Government. Therefore financial sources were

HISTORY

redistributed and reduced. There were new efforts to establish an economic army structure. The Czech Republic Government Resolution no. 1154 of 12 November 2003 entitled "The Conception of the Professional Czech Republic Army Development and Mobilization of the Czech Republic Armed Forces Modified According to Financial Sources" has become the final document respecting NATO general interests.

Academy life was significantly affected by the mission of the Czech Republic Army 7th Field Hospital to Iraq. (The hospital followed with activities of the Czech Chemical Protection Contingent in Kuwait). Transport of soldiers and material began on 18 April 2003. Basra, in southern Iraq, was appointed the final destination. In September 2003 a personnel rotation was carried out and the hospital finished its activities in December 2003. Our Academy significantly supported the deployment of the 7th Field Hospital through its personnel, organizational activities, professional education and training.

One of the most important preconditions of transformation of the Czech Republic Army to the fully professional system, is a reorganization of military school system. In the year 2004, merital changes were done in this area. On the basis of amalgamation of the Military School of Ground Forces in Vyškov, the Military Academy in Brno and the Purkyně Military Medical Academy in Hradec Králové there was established the University of Defence in Brno. It comprises three faculties – the Faculty of Military Technology, the Faculty of Economics and Management, the Faculty of Military Health Sciences and three independent university institutes. Act No. 214/2004 of the Code makes up the legal framework of a new legal subject which at the same time identified the date of establishing the University of Defence on 1 September 2004. Brig Gen Assoc. Prof. Ing. František Vojkovský, CSc. became the Rector of the University of Defence. The University of Defence was officially opened with a solemn inauguration on 8 October 2004.

After the transformation of the Purkyně Military Medical Faculty into the Faculty of Military Health Sciences (seated still in Hradec Králové), the basic functions and tasks of the school focused on a specialized training of the Czech Army medical officers and on research work in the area of military health service have been saved. However, number of school employees was cut down.

A new official name of our school is: University of Defence, Faculty of Military Health Sciences in Hradec Králové. A new dean of our school became the former rector of school COL Assoc. Prof. Roman Prymula, M.D., CSc., Ph.D., on the basis of new academic bodies' voting.

In the year 2004, Czech Republic Army officers carried out their assignments of different forms in peacekeeping missions in Iraq, Afghanistan and the Balkans. Members of our school were not missing. Specialists of the Department of Field Surgery played there a principal role. In the frame of joint operation of multinational forces in Iraq (MNF – Multinational Forces

Iraq) they fulfilled their tasks at special work places in British military hospital. Their assistance was highly and positively assessed.

During 2005 the process of establishing the new university subject – the University of Defence continued with solving the seat and the position of the Faculty of Military Health Sciences. The Faculty of Military Health Sciences received an important position in the supreme self-governing body of the university by electing COL Assoc. Prof. Jiří Kassa, M.D., CSc. as the Head of the Academic Senate of the University of Defence on 6 October 2005. He works as the Head of the Department of Toxicology and he is a chief specialist of the Czech Republic Army for toxicology.

The year 2006 was a jubilee year. The staff of the Faculty of Military Health Sciences of the University of Defence commemorated the 55th anniversary of the military medical school system in Hradec Králové and its eighty-year existence in the Czech Republic. This school is an irreplaceable centre of training and education of military health care professionals of all branches for the Army of the Czech Republic. The Faculty of Military Health Sciences of the University of Defence guarantees a good quality of the solved research tasks for the benefit of the military health service. High level of the scientific and research activity facilitated the establishment of scientific cooperation with NATO and EU partners.

The extent of school activities is very wide. The clinical departments provide the general public with the health care including special therapeutic activities. Military health care experts are involved in the integrated emergency system. The preparation of personnel for humanitarian and peacekeeping missions is implemented here. The school provides medical information service, experts reports and language teaching for the Army of the Czech Republic.

More information about the history and the present state of the military medical school system and the Faculty of Military Health Sciences of University of Defence is to be found in the publication „Military medical school system“, edition: Ministry of Defence, Avis, Prague 2006.

In 2007, intensive activity was typical for all aspects of school life. Let's recall the most important: The Faculty of Military Health Sciences University of Defence participated in the preparation of Czech field hospital contingents (so far three of them have been sent out), which ensure the health support of ISAF mission in the region of Kabul in Afghanistan. Some medical specialists of the Faculty were directly fulfilling the mission assignments as members of the contingent: MAJ Michal Plodr, M.D., Ph.D. worked as head doctor of the hospital, MAJ Ivo Žvák, M.D. as head doctor of operating theatres, and MAJ Jan Psutka, M.D. worked at the department of contemporary hospitalization. The main task of the field hospital is to provide professional health care for the wounded and sick during outside combat activities, as well as for their short-time hospitalization.

HISTORY

The public show of scientific and research results is traditionally an important part of school activities. The climax was the 7th Conference of the Association of Military Doctors, Pharmacists and Veterinary Doctors of the Czech Medical Society of Jan Evangelista Purkyně in October, and the 4th Conference Disaster Medicine and Traumatological Planning in November 2007. This year's novelty was a competition for the best scientific student's work in doctoral study programmes. The cooperation with foreign school and scientific partner institutions went on. In this context, the November visit from the Military Medical Academy Lyon, led by its new commander General Maurice Vergos, was a remarkable event.

At the end of the year, an important event in school organization happened: 10th December, COL Prof. Roman Prymula, M.D., Ph.D., was inaugurated Dean of the Faculty of Military Health Sciences. His clear election to the leading function is not only appreciation of his personal, managerial and professional qualities (it belongs to his triumph in March – obtaining the professorial diploma), but also of the stability and continuity of the place and role of the Faculty of Military Health Sciences.

Significant features of the activity of the Faculty of Military Health Sciences, University of Defence, were in the year 2008 the public acknowledgements which were attributed to the Faculty eminent research specialists. Already in February, Assoc. Prof. Jiří Bajgar, M.D., D.Sc. was awarded the Prize of the Rector of the University of Defence for his research work in 2007. The Scientific Council thus appreciated his extraordinarily large publishing and lecture activities, besides un-disregardable appraisalment Assoc. Prof. Bajgar gained from the American Society of Toxicology, being awarded the prestige Astra Zeneca Award. The prize winner significantly contributed to clarification of the toxic effect mechanism of organo-phosphorous compounds and to the development of new prophylactic and therapeutic means against highly toxic nerve paralytic substances.

In May, the above mentioned feature of the activity of the Faculty of Military Health Sciences, University of Defence converted into a handover of two letters of appointment of new Czech Universities professors to two eminent workers of the Faculty. In renowned Prague Carolinum, the letters were accepted from the hands of the President of the Republic by LTC Assoc. Prof. Jan Österreicher, M.D., Ph.D. and Assoc. Prof. Jiří Stulík, M.D., Ph.D.

The Faculty workers confirmed repeatedly their both research and organizing capabilities. They became the organizers of many traditional presentations of scientific work. Large community of epidemiologists gathered at the end of May among others to worship the memory of the nestor and military specialist in the field of epidemiology, Professor Bohumil Ticháček, M.D., D.Sc. (1924–2006) by their active participation at a conference "Ticháček's Days of Military Epidemiologists". Similarly, in September the Faculty substantially participated in organizing the whole Republic Conference 4th Hradec Vaccinologists Days.

A number of talents has been revealed by presentation of students' research work. Periodic Faculty round of research conference of students, who work mostly as scientific and teaching staff at the Faculty Departments, took place at the end of September. CW2 Veronika Mikusová and CW2 Pavel Novotný obtained this year's primacy. The postgraduate programme students presented their research results immediately afterwards. Works of authors CPT Karel Šmejkal, M.D., a student of postgraduate programme Military Surgery and LT Jiří Dresler, Doctor of Pharmacy, a student of postgraduate programme Molecular Pathology, were awarded the best.

The international cooperation of military medical schools has been among the traditional active forms of the school work. The visit of the delegation of the leadership of partnership school École du Service de Santé des Armées from Lyon, guided by GEN Francis Huet, School Deputy Commander, confirmed the trend of continuous cooperation.

At last but not least, the conference of the Association of Military Doctors, Pharmacists and Veterinary Doctors of the Czech Medical Society of Jan Evangelista Purkyně has become repeatedly much appraised specialist forums. This year's 8th Conference content concerned mostly Disaster Medicine, Traumatology Planning and Training.

The date of the Conference, the last days of November, seemed to conclude symbolically the year of noticeable presentation and at the same time extraordinary acknowledgements of the Faculty research results.

CPT Zdeněk Šubrt, M.D., Ph.D. from the Department of Field Surgery, a graduate of doctoral study programme Military Surgery, was awarded the Prize of the Mayor of the Town Hradec Králové for students' research work in 2009.

Prof. Aleš Macela, D.Sc. was awarded the Prize of the Rector of the University of Defence for scientific research in 2008, especially for excellent results in solving scientific projects in the sphere of protection against effects of extra dangerous biological agents.

In September 2009 the present Dean of the Faculty COL Prof. Roman Prymula, M.D., Ph.D. became on the basis of selection procedure a director of the University Hospital in Hradec Králové. The Academic Senate elected LTC Assoc. Prof. Roman Chlíbek, M.D., Ph.D. a new Dean of the Faculty. The Rector of the University of Defence appointed him as dean on 15th October 2009.

In the year 2010, Prof. Prymula was awarded as the first author of one of the best Elsevier's publications in 2009 for the article: Prymula R., Siegrist CA, Chlíbek R., Zemlickova H., Vackova M., Smetana J., Lommel P, Kaliskova E., Borys D., Schuerman L.: Effect of prophylactic paracetamol administration at time of vaccination on febrile reactions and antibody responses in children: two open-label, randomised controlled trials. *Lancet*. 2009, 374(9698):1339-50. Extraordinary high quality of this publication was

HISTORY

also confirmed by many other awards during the year 2010: 2009 Kredb's Award for original scientific work and the best publication from the Czech Medical Association of J. E. Purkyne, 2010 prof. Karel Raska's Award for the best scientific article published during 2009.

In the year 2011, Assoc. Prof. Kamil Kuca was awarded the Prize of the Rector of the University of Defence for scientific research in 2011, especially for excellent results in solving scientific projects in the sphere of protection against chemical warfare agents.

Prof Stulik's project entitled Identification of novel *Francisella tularensis* targets for subunit vaccine development was supported by the Defence Threat Reduction Agency, the USA for the years 2011–2014. This project is aimed at development of a subunit vaccine for tularemia. It is focused on (1) the identification of surface associated or secreted virulence factors from *F. tularensis* using immunoproteomic approaches (2) cloning and expression of these gene products, (3) confirming the role of the selected targets in virulence, and (4) assessing these proteins as protective antigens in animal models.

THE MAIN AIMS OF THE FACULTY IN 2011

The Faculty of Military Health Sciences (FMHS) of the University of Defence in Hradec Králové is a centre of medical education, training and research of the Army of the Czech Republic. It entirely covers the needs of the troops concerning medical professional training in all specializations, medical informatics, science and research.

1. Education

The main aims of the FMHS in the field of education were as follows:

- to provide university-level studies in the subjects of military general medicine (6 years), stomatology, pharmacy (5 years), administration and management study (3 years), medical rescue (3 years)
- to provide postgraduate study for Ph.D. degree (4 years) in accredited disciplines:

Epidemiology	Military Hygiene
Field Internal Medicine	Military Radiobiology
Field Surgery	Molecular Pathology
Infectious Biology	Toxicology

According to the needs of the Surgeon General of the Czech Armed Forces and the Military Medical Service Administration, the Faculty ensures specialized and lifelong education of doctors, pharmacists and other military medical service personnel in specified branches of the Act No. 95/2004 of the Code about conditions of receiving professional qualification and specialized qualification to do a medical profession as a doctor, a stomatologist, and a pharmacist. It unifies the system of their training with requirements of EU.

The faculty organizes and provides the training for medical personnel in active service, doctors, nurses and other medical personnel. The faculty provides professional refresher courses for medical staff, non-medical staff and non-medical personnel of field medical units- hospital base and its units in selected up-to-date topics. It takes part in continued training of doctors and health care personnel, who are sent to missions abroad as well. Unique military know-how is attractive for people, who work out of the military health care sphere. The FMHS provides courses of advanced first aid in the field not only for Military Medical Service personnel but also for professional non-medical personnel of Military Police units, reconnaissance and special units within the frame of the Czech Armed Forces, Rapid Reaction Units of the Czech Republic Police and the others.

All soldiers assigned to include into foreign missions take part in extra courses of advanced first aid. Training of emergency life support in field conditions is required in medical personnel. The courses BATLS/BARTS (Battlefield Advanced Trauma Life Support) and BARTS (Battlefield Advanced Resuscitation Techniques and Skills) for doctors and nurses or health care personnel are enlarged on the problems of NBC protection and they become a significant standard not only for the whole medical service, but also for a lot of other specialists, who take part in foreign missions.

Other courses concentrate on teaching and training of comprehensive knowledge necessary for providing medical care within the frame of Disaster Medicine. The FMHS also provides other teaching and training activities determined by „The Plan of Courses and Professional Residencies Training of the Czech Armed Forces Medical Service“ and „Notification of Director of Personal Section of the Ministry of Defence – Teaching Activities at Military schools and Training Facilities in the Czech Republic and Abroad“. It participates in medical personnel training of medical and non-medical specializations under the methodical and professional leadership, in providing instructors for training of higher categories of medical personnel and in teaching instructors of lower medical specialists training.

2. Scientific and research work

The FMHS of the University of Defence provides and solves research tasks for the Czech Armed Forces Medical Service. It managed to set up scientific teams which are able to use advanced laboratory technologies. It has its own complex laboratory technologies for scientific work above all within the sphere of life force protection against NBC agents. The high scientific level and the achieved results in scientific and research activities of present teams have enabled to start scientific cooperation with foreign partners. The FMHS is the only one in the Czech Republic who provides military research within the sphere of CBRNE issues in NATO and EU.

The high level of the present teams has enabled to start scientific cooperation with partners in NATO countries, which is financed by the NATO and EU funds. Within the sphere of the science and research, the FMHS fulfilled strategic purposes of the Czech Armed Forces transformation by targeting the enunciated priorities (biological agents, chemical agents, military health care), furthermore it reached joining the appropriate institutions and organizational structures of NATO and EU countries (including drawing financial NATO and EU funds) and it gained some priority results in enunciated areas. From the point of view of specialization and direction of the Czech Armed Forces, the departments of the FMHS solve medical issues of biological, chemical and radiation protection. Previous as well as contemporary scientific production within the sphere of observation of medical aspects of NBC agents affection is the subject „Centre of Advanced Studies“ with CBRNE protection issues in the Army of the Czech Republic. It fully corresponds with set priorities in the field of scientific and research work

of the Army of the Czech Republic. The military medical service organization and management, information systems, research activities of clinical and therapeutic preventive branches are the other important fields of scientific work.

A lot of invitations and speeches at international symposia and conferences as well as a great number of publications prove that scientific knowledge is used in education. The FMHS personnel can publish achieved results in research work, therapeutic preventive activities and in educational activities in the journal Military Medical Journal (Vojenské zdravotnické listy), which is the oldest military specialized journal which has been being published since 1925. Together with professional scientific and pedagogical activities there are also results in lecture and publication areas. They are a part of evaluation, which is carried out annually. The faculty is successful in keeping a good level of publication activities in impact factor journals and in other national and foreign journals. This fact enables relatively wide training activities in accredited doctoral study programmes.

Nowadays (Year 2011) the Faculty participates in 19 projects of defence research, 5 projects of Internal Grant Agency of the Ministry of Health, 4 project of the Ministry of Education, Youth and Sports, 5 projects of the Grant Agency of the Czech Republic, 1 project of the Ministry of Industry and Trade, 6 foreign projects (NATO, EC, DTRA, Visegrad Fund). The total sum of research grants represents the amount of 92 mil. Czech Crowns (approximately 4 700 000 USD). The accreditation award for the Vivarium in the field of biological and medical science is an important step to realize a lot of research and experimental work on laboratory animals.

Scientific, research and development activities in the field of medical support include prevention, diagnosis and treatment of sick and wounded. An integral part of this work is to improve the system of medical equipment administration and supply support.

Research and development is carried out at 9 departments (Epidemiology, Field Internal Medicine, Field Surgery, General and Emergency Medicine, Military Hygiene, Military Medical Service Organization, Public Health, Radiobiology, Toxicology) and in the Institute of Molecular Pathology, and the Centre of Advanced Studies.

In 2011, scientific work at the faculty departments, the institute and the centre was focused on CBRNE protection research, prevention in hygiene and epidemiology, topical problems of field surgery and field internal medicine, topical problems of organization, management, education and information science in the Military Medical Service.

The received accreditation for proceedings to promote a professorship for the branches of Hygiene, Occupational Medicine, Epidemiology, Medical Microbiology, Toxicology, Military Radiobiology, Field Internal Medicine, Infection Biology and Molecular Pathology and the accreditation for habilitation (associate professor) in the branches of Hygiene, Occupational

THE MAIN AIMS OF THE FACULTY IN 2011

Medicine and Epidemiology, Medical Microbiology, Toxicology, Field Surgery, Military Radiobiology, Field Internal Medicine, Infection Biology and Molecular Pathology gives the evidence about the excellent level of achieved results in scientific and research activities of FMHS. In 2011, there were 8 professors (prof.), 10 associate professors (doc.), 3 doctors of science (DrSc.), 54 persons with research degrees (CSc., Ph.D.) who carried out teaching and research tasks.

3. Therapeutic activities

Special therapeutic activities were provided especially at the departments of Field Internal Medicine, Field Surgery and General and Emergency Medicine. Close cooperation between these subjects and the health service establishments in the region were more and more developed. Therapeutic activities were provided, especially in the field of hematologic intensive care, traumatology, hepatobiliary surgery, and at the plastic surgery departments of internal medicine and surgery, at the Teaching Hospital.

4. International cooperation

The main aims of international cooperation of the FMHS were to exchange scientific, educational and therapeutic information and to develop working contacts between military medical, medical educational and research institutions of the NATO and EU countries as well as civilian medical institutions with educational, defence research and development programmes. Residency and exchange programmes for numerous students, doctors and research workers took place at those institutions.

As for study programmes, the Faculty keeps close relations with partner educational institutions above all in NATO and EU countries. Every year there are exchanges of not only students but also of pedagogical staff with the Military Medical Academy (ESSA) in Lyon in France, contacts in pedagogical sphere are kept with partner schools in Germany (Sanitätsakademie der Bundeswehr, Munich), the Military Medical Academy in Sofia, Bulgaria. In the past there were contacts with schools in Łódź (Poland) and Beograd (Serbia).

5. Expert activities

The membership in work groups for coordination and cooperation of military medical research and professional training at NATO (COMEDS, BIOMEDAC, RTA/RTO) and at EDA (European Defence Agency), in work groups of government experts for the Convention on the prohibition of biological, bacteriological, and chemical weapons and their destruction in Geneva and UNO, organizing scientific conferences with international participation, and solving foreign research projects under the cooperation of the FMHS personnel are very important for presentation of international

cooperation results. At the FMHS there are conditions for foreign cooperation in medical research. The priority still remains in cooperation in the frame of the Human Factors Medicine of the NATO Research and Technology Organization and its work groups (TG, WG), cooperation in research projects with other foreign scientific institutions and participation in projects of 7th EU General Programme. Our aim is to intensify international cooperation in NATO focused on scientific support of the armed forces structure.

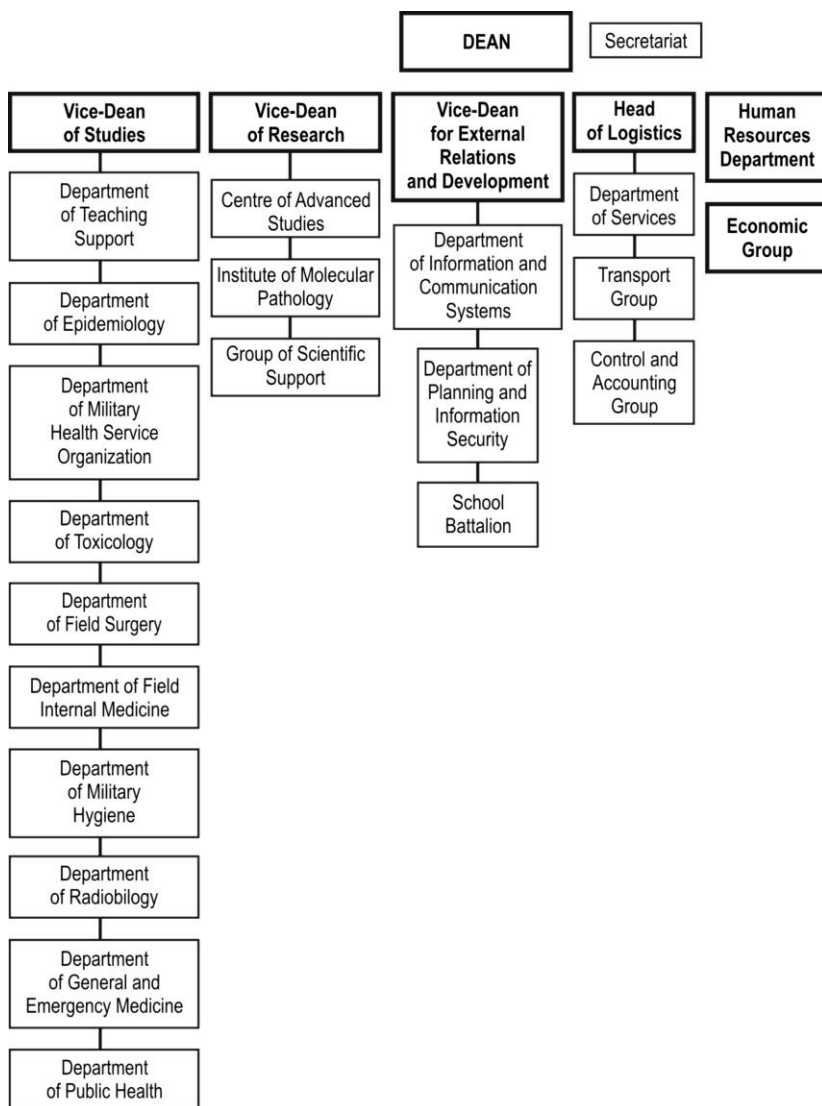
6. Scientific and educational information services

Scientific and educational information services that support the whole Medical Service of the Czech Republic Army were provided by the Department of Information and Communication Systems. Numerous literature retrievals, courses, library and printing workshops and other information services support for students, teachers, scientists, postgraduates, doctors, nurses and other medical experts were carried out.

7. Foreign missions

The FMHS performed the preparation of health personnel for humanitarian and peacekeeping missions as in the preceding years. Within last years FMHS members took part in several foreign missions.

THE STRUCTURE OF THE FMHS



THE DEAN OF THE FACULTY AND HIS DEPUTIES

Dean:	CHLÍBEK Roman	e-mail: chlibek@pmfhk.cz
Vice-Dean for Studies:	PROCHÁZKA Miroslav	e-mail: prochazka@pmfhk.cz
Vice-Dean for Research:	KUČA Kamil	e-mail: kucakam@pmfhk.cz
Vice-Dean for External Relations and Development:	BLANAŘ Roman	e-mail: blanar@pmfhk.cz
Head of Logistics:	TOMÁŠIK Marian	e-mail: tomasik@pmfhk.cz

MEMBERS OF THE SCIENTIFIC COUNCIL

ANZENBACHER Pavel	BOŠTÍK Pavel
CMÍRAL Jaromír	ČERVINKA Miroslav
FERKO Alexander	FILIP Stanislav
FUSEK Josef	HERNYCHOVÁ Lenka
HLÚBIK Pavol	CHLÍBEK Roman
JEBAVÝ Ladislav	KASSA Jiří
KLEIN Leo	KUČA Kamil
LÁZNÍČEK Milan	ÖSTERREICHER Jan
PELLANT Arnošt	PRYMULA Roman
RYŠKA Aleš	SLABÝ Antonín
STULÍK Jiří	ŠPLIŇO Miroslav
VÁVROVÁ Jiřina	

MEMBERS OF THE ACADEMIC SENATE

Academic members

BOŠTÍK Pavel (Head of the senate)
HERNYCHOVÁ Lenka
HRSTKA Zdeněk
HUBÁLEK Martin (till 30 March 2011)
PÁRAL Jiří (since 30 March 2011)
JUN Daniel (Vice-chairman)
MUSÍLEK Kamil
PSUTKA Jan
SMETANA Jan
ŠINKOROVÁ Zuzana
ŽDÁROVÁ KARASOVÁ Jana

Student members

BARNIŠIN Lukáš (Vice-chairman)
BLANAŘ Roman
JANOUSHKOVÁ Karla
RUDISCH Filip
ŘEZÁČ David

MEMBERS OF THE EDUCATION COMMISSION

BRNDIAR Miroslav
HRSTKA Zdeněk
POHANKA Miroslav
PROCHÁZKA Miroslav

SMETANA Jan
ŠTĚTINA Rudolf
HUSÁROVÁ Michaela
STULÍK Jiří
ŽÁK Martin

HUBÁLEK Martin (till 30 March 2011)
MÍŠKOVÁ Zdena
POTÁČ Michal
PUDÍK Peter (Head of the education
commission)
ROHLENA Milan
ŠMÍRA Pavel
ŠUBRT Zdeněk
VOPLATKOVÁ Zdeňka
TICHÝ Aleš

CENTRE OF ADVANCED STUDIES

Educational and Research Staff

BOŠTÍK Pavel (Head of the Institute)	bostik@pmfhk.cz
ČERVENÝ Lukáš (Head of the Group, till 30 October 2011)	cerveny@pmfhk.cz
HÄRTLOVÁ Anetta (till 31 August 2011)	hartlova@pmfhk.cz
JUN Daniel (Head of the Group)	jun@pmfhk.cz
KAISLEROVÁ Lenka	kaislerova@pmfhk.cz
KUBELKOVÁ Klára (since 01 August 2011)	kubelkova@pmfhk.cz
KUČA Kamil	kucakam@pmfhk.cz
PEJCHAL Jaroslav (Head of the Group)	pejchal@pmfhk.cz
POHANKA Miroslav (Head of the Group, since 01 November 2011)	pohanka@pmfhk.cz
POHANKA Miroslav (till 30 October 2011)	pohanka@pmfhk.cz
SHESHKO Valeria	sheshko@pmfhk.cz
STRAŠKOVÁ Adéla	straskova@pmfhk.cz
VILASOVÁ Zdeňka (till 01 October 2011)	zdenavilasova@seznam.cz

Technicians

HOLUBOVÁ Iva (maternity leave)	
HRABINOVÁ Martina	hrabinova@pmfhk.cz
JIRIČKA Mario	jiricka@pmfhk.cz
STODŮLKA Petr	stodulka@pmfhk.cz
TÓTHOVÁ Iveta	ivi.t@seznam.cz
ŽÁKOVÁ Jitka	zakova@pmfhk.cz

Administrative, Secretarial and Other Staff

MAZUROVÁ Yvona

Postgraduate Students

COUFALOVÁ Monika (since 01 October 2011)

DRTINOVÁ Lucie

KAISLEROVÁ Lenka (since 01 October 2011) kaislerova@pmfhk.cz

KRAČMAROVÁ Alžběta (since 01 October 2011)

KŘENKOVÁ Zuzana krenkova@pmfhk.cz

SLEHA Radek (since 01 October 2011)

Centre of Advanced Studies is an integral part of Faculty of Military Health Sciences of University of Defence, Czech Republic. The main task of the Centre is the transfer, utilization, and dissemination of advanced technologies for biomedical defence research and research related to the prophylaxis and pathogenesis of dangerous infectious diseases. Research projects performed at the Centre are funded by both the Ministry of Defence and various national and international grant agencies. The biological labs of BSL2 and BSL3 category and chemical lab for the analyses of highly toxic chemicals are available for research on both highly pathogenic microorganisms and highly toxic substances. The team of the Centre utilizes and develops up-to date technologies in all three areas of interest – Biological, Chemical and Radiological. Among them are technologies for histochemistry, immunohistochemistry, laser microdissection, fluorescence microscopy, proteomic technologies including isolation and proteomic analysis of total membrane proteins and lipid-raft associated proteins, genomic technologies oriented to qRT-PCR applications, gene reporter assays, genomic manipulation of bacteria, virus identification and typization assays, technologies for the qualitative and quantitative analyses of antidotes and chemical warfare agents in biological samples using different HPLC techniques, methods for determination of oxidative stress, construction of biosensors, preparation of quaternary and non-quaternary inhibitors of enzyme acetyl cholinesterase, random chemistry approaches in the development of acetyl cholinesterase inhibitors, technology of artificial neural networks and molecular modeling for prediction of new bioactive compounds, and finally microbiological technologies needed for screening of functional properties of bacterial mutants (proliferation assays and protective tests).

CBRN programmes in 2011 follow the long-lasting research strategy of the Centre. B-agent programme involves several topics aimed at management of biological crises, modelling & risk assessment, (immuno)prophylaxis of infections, immunopathogenesis of viral diseases and, finally, the genetics of biological agents oriented to *Francisella tularensis*. C-agent programme is focused on development of new prophylactic and therapeutic antidotes and toxic agent scavengers utilizing

the methodology of 3D in silico modelling and simulation of bio-molecular three- and fourdimensional structures and inter-molecular interactions. RN-agent programme encompassing the problems of molecular markers of ionizing radiation injury is divided into biodosimetry and diagnosis and therapy of ionizing irradiation syndromes.

New international contacts have been established with several European and US military and civilian research institutions. Moreover, the broad-based collaboration under the umbrella of European Defence Agency started to be the indispensable tool for reinforcement of scientific collaboration inside the European Union. Collaboration with partners is supported by two-side or multilateral projects. During short time of its existence the Centre of Advanced Studies thus achieves all attributes of fully consolidated scientific centre collaborating with substantial number of prominent European scientific institutions.

RESEARCH PROJECTS

BIODEFENCE – Classification of biological agents – support of an international project Establishment and management of a common database of B-agents – A European Laboratory Biodefence Network

Hubálek, M., Hernychová, L., Kubelková, K., Řehulka, P., Macela, A.

Supported by the Czech Republic Ministry of Defence, 2009–2011 (Project No.: OVUOFVZ200901)

The goal of the project is to gather typing data for B-agents listed in project of the european biological database by the mean of mass spectrometry (MALDI-TOF, tandem mass spectrometry) and molecular biology (real-time PCR, MLST).

Catalytic bioscavengers of neurotoxic organophosphates: Optimization and functionalization

Nachon, F., Jun, D.

Supported by Plan de coopération franco-tchèque and General Direction for Ordnance, 2008–2011 (Project No.: 16A03-FR20/08co501)

The aim of the project is the development of catalytic bioscavengers of toxic organophosphates (e. g. nerve agents and pesticides) based on chemically modified enzymes and evaluation of protective, pharmacokinetic and immunologic properties of prepared bioscavengers by in vitro and in vivo methods.

Correlation of expression of KIR alleles in NK cells in GALT and disease progression in SIV non-human primate model of AIDS

Boštík, P., Boštíková, V.

Supported by the Ministry of Education, Youth and Sports, 2011–2014 (Project No.: LH11019)

The HIV infection in humans leads to AIDS, a deadly disease, which targets predominantly cells of the immune system. It has recently become clear that also the innate immune cells, such as NK cells play an important role in the response to the virus, especially in the acute phase, which dictates the subsequent course of the disease. The activation and inhibition processes that are in part tied to an expression of certain variants of the Killer-Ig-like receptors (KIRs) on these cells were shown to be associated with distinct outcomes of HIV disease. The aim of this project is to characterize the expression of KIR variants on NK cells in the gut associated lymphoid tissue in SIV infected rhesus macaques (RM), the only available model of human AIDS, and their correlation to the course of AIDS in RM. In addition, monoclonal antibodies against these variants, will be developed as new reagents. These data will further our knowledge of AIDS pathogenesis and may help in the subsequent vaccine design.

Development of new anti-tularemic vaccine on the basis of elucidation of molecular mechanism of tularemia pathogenesis

Stulík, J., Hubálek, M., Strašková, A., Macela, A., Červený, L., Kročová, Z.

Supported by the Internal Grant Agency of the Czech Republic Health Service, 2009–2011 (Project No.: NS9747)

Project is focused on elucidation of tularemia pathogenesis using techniques of proteomics, genomics, molecular biology, immunology and microbiology. The main goal is to find genes encoding factors of virulence and based on this knowledge to create new prophylactic tools.

Development of novel antidotal treatment against organophosphorus pesticides

Musílek, K., Kuča, K., Pohanka, M., Žďárová Karasová, J., Marek, J.

Supported by the Ministry of Education, Youth and Sports, 2009–2012 (Project No.: ME09086)

The development of the broad-spectrum acetylcholinesterase reactivator against organophosphorus pesticides (OPP) is the main aim of the whole project. The synthesis and in vitro evaluation of novel or formerly prepared compounds will be used for this purpose. The structure-activity studies will be figured out for its determination. Such reactivator will be further tested in vivo and might become a candidate for the preclinical trials against OPP.

FARMAKO – Determination of important pharmacokinetic and biochemical parameters and evaluation of blood-brain barrier penetration using drugs introduced to Czech Army

Žďárová Karasová, J., Pavlík, M., Kuča, K., Pohanka, M., Novotný, L.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200811)

The aim of this project is to characterize pharmacokinetics of substances using in therapy by intoxications. Mainly their distribution in body tissues, in vitro and in vivo testing of ability to penetrate into central nervous system and their possibility to injury brain. At the same time we will evaluate some important biochemical data, which can be influenced by this therapy.

FRANCIS – Development of new prophylactic tools against Francisella tularensis infection

Stulík, J., Červený, L., Dresler, J., Härtlová, A., Filipp, D., Lenčo, J., Link, M., Řehulka, P., Hubálek, M., Kročová, Z., Klimentová, J.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200808)

Identification of new candidate molecules of protein origin suitable for the construction of better defined live or subunit vaccines and elucidation of the process of antigen presentation of tularemic peptides as a key event for the development of new strategies to treat and prevent infection with Francisella tularensis.

HOREČKA – Method of viral hemorrhagic fevers' causative agents rapid detection and identification

Fajfr, M., Kročová, Z., Žáková, J., Červený, L., Růžek, D.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUVZU2008002)

The main aim of our research project is design and optimisation of new rapid viral hemorrhagic fevers' (VHF) detection and identification system targeting main causative pathogens. The system will be based on two steps: primary rapid detection and identification of viral family using Real-time reverse-transcription polymerase chain reaction (RT-PCR) and secondary pointed use of the same method for causative pathogen precise species determination. Output of this project will be concept of new rapid economic VHF diagnostic technique, fitting its detection limits, difficulty and material requirements of Czech army biological defense forces.

Improvement of vaccination efficacy by cholinergic anti-inflammatory pathway

Pohanka, M., Hrabínová, M., Pavlík, M., Kuča, K., Boščík, P.

Supported by the Ministry of Education, Youth and Sports, 2011–2014 (Project No.: LH11023)

Cholinergic antiinflammatory pathway (CAP) is an important tool of regulation of innate immune responses mediated by the parasympathetic nervous system. The project is aimed at evaluating the performance of drugs affecting CAP as vaccine adjuvants. The primary hypothesis is that a suppression of CAP can potentiate the vaccination efficacy. Compound HI-6 inhibiting blood acetylcholinesterase will be tested for control purposes in comparison to drugs triggering CAP. The project will cover the following aspects: in vitro tests of drug effects, examination of effects of tested drugs on immune system alone and co-application of tested drugs with commercially available vaccine in comparison to the effect of the vaccine alone in-vivo in small laboratory animals. Basic immunochemical parameters such as immunoglobulin isotypes M and G, interleukins 2, 4 and 6 and selected biochemical parameters will be assessed. The expected results of project will be improvement of vaccines efficacy and better characterization of CAP as target of the selected drugs.

INDIKÁTOR II – Reverse detection of received ionizing radiation dose by monitoring of cell population changes using biophysical methods

Šinkorová, Z., Kročová, Z., Tóthová, I., Pejchal, J., Zárybnická, L., Österreicher, J.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200809)

To establish extrapolated calibration curve for determination the received dose in individuals exposed to ionizing radiation which could be practical used in the Czech army and to design the best enlistment of this biophysical method into the therapeutic-transfer system of the Czech army.

INHIBITOR – Novel inhibitors of acetylcholinesterase as prophylaxis of nerve agent poisonings

Musílek, K., Žďárová Karasová, J., Pohanka, M.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200805)

This project is focused on finding of suitable reversible acetylcholinesterase inhibitor as a replacement of prophylactic drug pyridostigmine. For this purpose, 100 reversible AChE inhibitors will be prepared, evaluated in vitro and compared with prophylactic drugs used in the Army of the Czech Republic. Regarding the structure-activity relationship,

the best reversible AChE inhibitor will be determined and recommended for in vivo evaluation.

MORČE – Influence of the nerve agent and reactivators of acetylcholine esterase on the Guinea pig

Pohanka, M., Jun, D., Žďárová Karasová, J., Kuča, K., Novotný, L.

Supported by the Czech Republic Ministry of Defence, 2009–2011 (Project No.: OVUOFVZ200905)

The aim of this project is determine the physiological activity of Acetyl Choline Esterase (AChE) and detection of LD50 of inhibitors paraoxon, tabun, cyklosarine and reactivators AChE pralidoxim, obidoxim, trimedoxim, HI-6, methoxim. Next task is asses protective effectively of reactivators. Also detection of AChE activity in organs after intoxication with nerve compound and following reactivation. We will also follow up plasmatic concentration of reactivatos in plasma after i.m. administration and morphological changes in the tissues.

Novel inhibitors of acetylcholinesterase derived from 7-MEOTA – potential Alzheimer's disease drugs

Kuča, K., Řípová, D.

Supported by the Czech Republic Grant Agency, 2011–2015 (Project No.: GAP303/11/1907)

Worldwide incidence of AD was evaluated to 35 million of people in 2009. The amount of AD patients in 2050 was estimated to 110 million. The most important factor influencing the increasing amount of AD patients is the age of population (particularly European is rapidly ageing). Thus, the AD is becoming a priority of public health care and there is demand for novel drugs suitable for its treatment. The main aim of this project consist in synthesis and evaluation of novel acetylcholinesterase (AChE) inhibitors derived from 7-MEOTA as potential AD drugs. Synthesized AChE inhibitors will be tested using experimental batery consisting of molecular modelling, biochemical evaluation of AChE inhibitors, antioxidant evaluation of novel drugs, Interactions with muscarinic/nicotinic receptors and choline transporters, in vitro prediction of blood-brain barrier penetration, determination of acute toxicity of selected AChE inhibitors, evaluation of plasmatic levels after experimental administration, evaluation of novel AChE inhibitors in CNS. Based on the appropriately-managed testing system of novel AChE inhibitors, suitable candidate will be selected and recommended for further preclinical trial.

ORCHIDS – Evaluation, optimisation, trialling and modelling procedures for mass casualty

Simpson, J., Kuča, K., Cabal, J.

Supported by the Executive Agency for Health and Consumers, 2008–2011 (Project No.: 100940)

The ORCHIDS project (Optimisation through Research of Chemical Incident Decontamination Systems) involves the evaluation of emergency decontamination methods, and the exercising and modelling of established mass casualty decontamination facilities. The project will deliver quantitative evidence on the optimum techniques for dealing with a range of potential contaminants and scenarios requiring emergency decontamination. A full range of issues will be addressed, from applied toxicological research to mass casualty decontamination exercising and modelling. This applied research will generate evidence-based guidelines on the optimum techniques for effective mass casualty decontamination, which will be disseminated by the project team through a network of EU Partners and stakeholders, which will be established and developed during the project. In addition, the project will consider the provision for minority and vulnerable groups in emergency decontamination, and will produce public information materials (leaflets and educational tools) designed to help increase knowledge, trust and confidence in emergency decontamination provision.

OTRAVA – Novel prophylactic antidotes of nerve agent poisonings based on scavengers

Jun, D., Musílek, K., Pohanka, M., Kuča, K.

Supported by the Czech Republic Ministry of Defence, 2009–2012 (Project No.: OVUOFVZ200902)

Organophosphorus compounds are weaponized in some countries as chemical warfare agents (sarin, tabun, VX). These compounds inhibit enzymes acetylcholinesterase and butyrylcholinesterase. As antidotes of poisonings by these compounds are often used anticholinergics (atropine, benactyzine) and cholinesterase reactivators (pralidoxime, obidoxime, HI-6). Favorable solution is using of specific enzymes (mostly cholinesterases) as scavengers, able to catch toxic organophosphorus compounds in the bloodstream before they start their toxic effect in the organism. We would like to find suitable cholinesterase reactivators, with the aim to suggest and test their combination with enzymes as pseudocatalytic bioscavenger. This combination allows increase prophylactic efficacy of administered enzyme.

Preparation and biological evaluation of new therapeutics against to pesticides

Kuča, K., Pohanka, M., Žďárová Karasová, J., Jun, D.

Supported by the Internal Grant Agency of the Czech Republic Health Service, 2011–2014 (Project No.: NT12062)

The main aim of this project is to search for new and convenient therapeutics that will be more effective in therapy of pesticide poisoning (pesticides are commonly used organophosphate inhibitors of cholinesterases). New structures will be determined by using highly sophisticated methodology: molecular design. Predicted structures and their analogues will be synthesized. Their therapeutic potency will be tested in *in vitro* studies. The acetylcholinesterase reactivators with the highest reactivation potency will be chosen into *in vivo* tests. During this development process other important data such as LD50 of newly synthesized therapeutics, biochemical studies and pharmacokinetics studies (distribution of newly prepared therapeutics and their ability to penetrate through the blood-brain barrier into central nervous system) will be also replenished. If some effective candidates will be found, subsequent cooperation with foreign institutes is presumed.

PROTEIN – Biosensors for determination of nerve agents and yperites using recombinant proteins and nanotechnology

Pohanka, M., Žďárová Karasová, J., Musílek, K., Kassa, J., Kuča, K.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200807)

The proposed project is aimed at construction of enzyme based biosensors with immobilized ether cholinesterase and/or dehalogenase for detection of nerve agents and yperite using highly innovative nanotechnologies.

RADSPEC – Short-term and long-term nonspecific changes in organisms exposed to high and low doses of nerve agents on cellular and molecular level

Pejchal, J., Zárybnická, L., Tichý, A., Kassa, J., Mervartová, L., Vilasová, Z.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200812)

The goal of this study is to evaluate expression of perspective biodosimetric markers, such as fosfo-elk-1, fosfo-atf-2, fosfo-CREB, fosfo-p53 (aktivated at serine 15), on the model of nervous paralytic compound (soman) intoxicated rats to investigate their radiospecificity.

REAKTIVÁTOR – Robotized system for *in vitro* evaluation of novel reactivators of acetylcholinesterase inhibited by nerve agents

Cabal, J., Pohanka, M., Musílek, K., Kuča, K., Jun, D.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200801)

The aim of this project is to develop new robotic system based on sequential injection analysis (SIA) for testing of reactivation potency of newly synthesized antidotes against nerve agent poisonings.

RONSDOZ – Noninvasive measurement of proinflammatory markers of oxidative stress in irradiated as an indicator of received dose of radiation. Protective role of acetyl-L-carnitine

Vávrová, J., Šinkorová, Z., Řezáčová, M., Tichý, A., Pejchal, J., Zárbybnická, L., Österreicher, J.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200806)

To evaluate whether the bioindicators of oxidative and nitrative stress and inflammations of the airways can be used as biodosimetric markers after exposure to gamma radiation, after whole-body and partial irradiation of rats. To evaluate protective effect of acetyl-L-carnitine.

SUBSTANCE – Development of novel decontaminants and disinfectants of skin based on micellar compounds

Kuča, K., Cabal, J., Pavlík, M., Bajgar, J., Musílek, K., Kassa, J., Pohanka, M., Jun, D., Novotný, L.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200803)

The aim of this project is a development of new compound or mixture with a good decontaminant efficacy against wide spectrum of chemical warfare or pesticides. The second aim will be also to gain the universal disinfectant, which will be effective against many kinds of microbes.

The role of virus associated cellular proteins in T-lymphocyte dysfunction

Boštík, P., Hubálek, M., Řehulka, P., Červený, L., Pejchal, J., Kročová, Z., Boštíková, V.

Supported by the Czech Republic Grant Agency, 2010–2014 (Project No.: GAP304/10/1161)

Herpetic viruses, such as VZV, and lentiviruses, such as HIV or SIV, are enveloped viruses, which infect CD4 T cells and cause transient (VZV) or progressive (SIV) dysregulation of T cell function. This effect is mainly indirect, as the fraction of infected cells is small, but the dysregulatory effect is observed in much larger cell population. These viruses incorporate host-derived proteins into their envelopes during the process of virus maturation and these proteins can either retain their function or engage their receptors and subsequently initiate intracellular signaling. This can be mediated by Akt-GSK3 pathway and PGE metabolism, leading to T cell dysfunction and apoptosis. This proposal utilizes state-of the art proteomic approach to

Identification of host cell proteins incorporated into the SIV and VZV virions. The role of these host cell proteins will be subsequently investigated in their effects on CD4 T cell signaling cascades and can therefore lead to the elucidation of mechanisms involved in CD4 T cell dysfunction and death in such diseases as chickenpox and AIDS.

Whole varicella-zoster virus (VZV) genome sequencing of individual wild type and vaccine strains using GS Junior Benchtop System

Bošťíková, V., Bošťík, P., Smetana, J.

Supported by the Roche co., 2010–2011 (Project No.: VZV)

Monitoring of the varicella-zoster virus epidemiology is becoming an important tool for a world-wide analysis of circulation of the individual strains of VZV, which differ not only at the genomic level, but show a variability in their clinical and epidemiological characteristics. The study will yield important data of genetic diversity of VZV in Czech Republic, which will play an important role in further understanding of epidemiology and evolution of the virus, and may in future serve as a tool for genetic prediction of virus pathogenicity or resistance development. Previous data from several laboratories, predominantly in the US and UK, indicate a specific geographic distribution of these strains as well as their potential propensity for recombination with other wild type (wt) or vaccine strains. New pyrosequencing method using GS Junior Benchtop System of whole VZV genomes further refined the phylogenetic distinctions between SNP genotypes. The new data will bring more light to widespread surveillance in countries in which the varicella vaccine is now in use.

DEPARTMENT OF EPIDEMIOLOGY

Educational and Research Staff

BOŠTÍKOVÁ Vanda	vboستيك@pmfhk.cz
HANOVCOVÁ Irena (Head of the Group)	hanovcova@pmfhk.cz
CHLÍBEK Roman (Head of the Department)	chlibek@pmfhk.cz
MAREK Jan	marekj@pmfhk.cz
PRYMULA Roman	prymula@pmfhk.cz
SMETANA Jan (Head of the Group)	smetana@pmfhk.cz
ŠPLÍŇO Miroslav	splino@pmfhk.cz
VACKOVÁ Marie	vackova@pmfhk.cz
ŽÁČKOVÁ Marta (since 01 March 2011, till 31 December 2011)	zackovam@pmfhk.cz

Technicians

BERNARDOVÁ Marta	bernardova@pmfhk.cz
KOŠŤÁLOVÁ Lenka	kostalova@pmfhk.cz
MALÍKOVÁ Martina	malikovam@pmfhk.cz
SOLÁROVÁ Alena	solarova@pmfhk.cz

Administrative, Secretarial and Other Staff

LEGERSKÁ Kateřina

Postgraduate Students

ANTAL Zdeněk
BLECHOVÁ Zuzana (till 01 July 2011)
ČEČETKOVÁ Beáta
DÍTĚ Petr (till 01 July 2011)
FAJFR Miroslav
HEDLOVÁ Dana
KRAUSOVÁ Jana (till 01 October 2011)
MACHAČ Jan (since 01 October 2011)
PEK Miroslav (till 01 July 2011)
SMÍŠKOVÁ Dita (till 07 March 2011)
VALENTA Zbyněk
ZÁLABSKÁ Eva (till 24 November 2011)

The Department of Epidemiology as the basic educational and research component of the Faculty of Military Health Sciences (FMHS) is divided into two groups: the epidemiology group and the microbiology, disinfection, disinsection and rodent control group.

The Department of Epidemiology has fulfilled the following main tasks:

It has provided undergraduate education at the FMHS and at the civilian Medical Faculty of Charles University in Hradec Králové, as well as postgraduate training and postgraduate doctoral studies. The teaching activities have been particularly aimed at general and special epidemiology with respect to the topical situation in the Czech Army and in the Czech Republic. The topics of "Emerging and Reemerging, Infectious Diseases", "Travel Medicine" and "Dangerous Pathogens" have also been emphasized. Doctoral study programmes (Ph.D. – epidemiology and medical microbiology) are certified by the Czech Governmental Commission. Since 1997, altogether 27 students have finished their Ph.D. studies.

The Department of Epidemiology plays an important role in education, training and consultancy related to biological threats and weapons.

The members of the department participate in training and education of medical and other personnel dispatched in military peacekeeping and humanitarian missions abroad. The aim is to inform them about any health risks during staying abroad, especially about prevention of infectious diseases, possibilities of vaccination or chemoprophylaxis. They also provide both consultancy service prior to the departure abroad and a practical realization of the respective measures. The Department of Epidemiology provides an epidemiological service for the Field Hospitals of the Czech Army.

Research activities have concerned clinical evaluation of the new vaccines like pneumococcal vaccines, herpes zoster vaccines, Human Papilloma Virus vaccines, rotavirus vaccines, new adjuvanted vaccines against viral hepatitis B, Lyme disease vaccines, combined hepatitis B and typhoid fever vaccines, flu vaccines, meningococcal B vaccines or new vaccination schedules.

Members of the department are members of different Czech journals editorial boards (e. g. "Epidemiologie, mikrobiologie a imunologie" – prof. Šplího), and they work as reviewers of international journals. Some of them work in a number of committees and boards: Czech Immunization Committee of the Ministry of Health (Prof. Prymula, Ass. Prof. Chlíbek), or European Centre for Disease Control and Prevention (Prof. Prymula, Ass. Prof. Chlíbek), or Central European Vaccination Awareness Group-CEVAG (Prof. Prymula, Ass. Prof. Chlíbek).

Members of the department are also members of NATO working groups and advisory committees for biological threats and weapons (BIOMEDAC – Biological Medical Advisory Committee – ass.prof. Chlíbek) and NATO-Research&Technology Organisation (Ass. Prof. Chlíbek).

Disinfection, disinsection and rodent control are very important parts of the medical practice in the Czech Army. This department is the only one of its kind in the Czech Army for the assessment of the antimicrobial efficacy of disinfectants.

The researchers of the microbiology group have also solved questions concerning the prevention of endogenous and exogenous infections in immunocompromised patients. They have also joined the European Study Group on Nosocomial Infections.

RESEARCH PROJECTS

A phase III, randomized, observer-blind, placebo controlled, multicentre, clinical vaccination trial to assess the prophylactic efficacy, safety and immunogenicity of GSK Biologicals' herpes zoster gE/AS01B vaccine when administered intramuscularly on a 0, 2- month schedule in adults aged 70 years and older

Chlíbek, R., Kalíšková, E., Dítě, P., Vokurková, D., Smetana, J., Gál, P.

Supported by the GlaxoSmithKline Biologicals co., 2010–2015 (Project No.: 113077 (ZOSTER-022))

A phase III, randomized, observer-blind, placebo controlled, multicentre, clinical vaccination trial to assess the prophylactic efficacy, safety and immunogenicity of GSK Biologicals' herpes zoster gE/AS01B vaccine when administered intramuscularly on a 0, 2- month schedule in adults aged 70 years and older. Chlíbek, R., Smetana, J., Gál, P., Dítě, P., Kalíšková, E., Vokurková, D. Supported by the GSK, 2010–2015 (Project No.: 113077 (ZOSTER-022)) Study ZOSTER-022 will provide data on the vaccine efficacy in prevention of herpes zoster (HZ) and Postherpetic neuralgia (PHN) compared to placebo in adults ≥ 70 YOA. The ZOSTER-022 study will enrol subjects in the age ranges 70-79 YOA and ≥ 80 YOA in a 3:1 ratio.

A phase III, randomized, observer-blind, placebo controlled, multicentre, clinical vaccination trial to assess the prophylactic efficacy, safety, and immunogenicity of GSK Biologicals' herpes zoster gE/AS01B vaccine when administered intramuscularly on a 0, 2-month schedule in adults aged 50 years and older

Chlíbek, R., Vokurková, D., Dítě, P., Kalíšková, E., Smetana, J., Gál, P.

Supported by the GlaxoSmithKline Biologicals co., 2010–2015 (Project No.: 110390 (ZOSTER-006))

Study ZOSTER-006 will provide pivotal data on the overall efficacy in prevention of herpes zoster (HZ) in subjects ≥ 50 YOA. The primary endpoint of this study will be overall HZ vaccine efficacy (VE) across all age cohorts. To this end, ZOSTER-006 will evaluate VE of the gE/AS01B vaccine compared to placebo in reducing the risk of developing HZ in subjects ≥ 50

YOA. This study will enrol subjects in the age ranges 50-59 YOA, 60-69 YOA, 70-79 YOA and ≥ 80 YOA.

A phase 2 partially observer-blind randomized controlled multi-center dose-ranging and formulation-finding study of a new Novartis Meningococcal B Recombinant Vaccine evaluating the safety and immunogenicity when given concomitantly with routine vaccines in 2-month-old infants

Prymula, R., Chlíbek, R., Jarolímek, J., Slavík, Z., Karlová, V., Říhová, J., Hrunka, S., Novák, L.

Supported by the Novartis, 2009–2011 (Project No.: 2009-010106-11)

This study is aimed at assessing the safety and immunogenicity of different doses and formulations (including decreasing OMV contents) of a new Novartis Meningococcal B Recombinant Vaccine (rMenB + OMV NZ) in order to optimize its safety profile while maintaining sufficient immunogenicity. In addition, this study will assess whether prophylactic administration of paracetamol can decrease the incidence of febrile reactions following vaccination without impacting the immunogenicity of rMenB + OMV NZ and the routine infant vaccines. (V72P16)

A phase 2b, open label, multi-center, extension study to evaluate the safety, tolerability and immunogenicity of a booster dose of Novartis meningococcal B recombinant vaccine administered at 12, 18 or 24 months of age in subjects who previously received a three-dose primary series of the Novartis meningococcal B recombinant vaccine as infants in study V72P12

Prymula, R., Chlíbek, R., Jerolímek, J., Slavík, Z., Karlová, V., Říhová, J., Hrunka, S., Novák, L.

Supported by the Novartis, 2010–2012 (Project No.: V72P12E1)

This extension study is designed to investigate the safety, tolerability and immunogenicity of a fourth (booster) dose of rMenB+OMV NZ at 12, 18 and 24 months of age in subjects previously primed with rMenB+OMV NZ in the parent study V72P12 according to the two different three-dose immunization schedules in infancy (2, 3, 4 and 2, 4, 6 months of age) and for the 2, 4, 6 rMenB+OMV NZ schedule, according to two different immunization schedules for routine vaccines (concomitant with rMenB+OMV NZ and staggered).

A phase 3, open-label, multi-center, extension study of V72P13E1 to assess antibody persistence at one year after a fourth dose boost or two catch-up doses of Novartis meningococcal B recombinant vaccine administered starting at 12 months of age and to evaluate the response to a third dose boost or two catch-up doses starting at 24 months of age

Prymula, R., Chlíbek, R., Jerolímek, J., Slavík, Z., Karlová, V., Říhová, J., Hrunka, S., Novák, L.

Supported by the Novartis, 2010–2012 (Project No.: V72P13E2)

Novartis is developing a Meningococcal B Recombinant Vaccine (rMenB). To date, the tolerability, safety and immunogenicity of the rMenB+OMV NZ final formulation has been investigated. This extension study, will aim to enroll subjects who completed the parent study V72P13 and V72P13E1.

An open, phase II long term extension study to evaluate the immune responses to and safety of GSK Biologicals' candidate herpes zoster vaccine (gE/AS01B) at Months 48, 60 and 72 post-vaccination in healthy subjects aged 60 years of age and older

Chlíbek, R., Smetana, J., Kalíšková, E.

Supported by the GlaxoSmithKline Biologicals co., 2011–2013 (Project No.: 114825, Zoster-024)

The purpose of this long-term follow-up study (ZOSTER-024) is to evaluate the immune responses of subjects who previously participated in study ZOSTER-003. Long term safety of the study vaccine administered in ZOSTER-003 will also be evaluated.

Correlation of expression of KIR alleles in NK cells in GALT and disease progression in SIV non-human primate model of AIDS

Boštík, P., Boštíková, V.

Supported by the Ministry of Education, Youth and Sports, 2011–2014 (Project No.: LH11019)

The HIV infection in humans leads to AIDS, a deadly disease, which targets predominantly cells of the immune system. It has recently become clear that also the innate immune cells, such as NK cells play an important role in the response to the virus, especially in the acute phase, which dictates the subsequent course of the disease. The activation and inhibition processes that are in part tied to an expression of certain variants of the Killer-Ig-like receptors (KIRs) on these cells were shown to be associated with distinct outcomes of HIV disease. The aim of this project is to characterize the expression of KIR variants on NK cells in the gut associated lymphoid tissue in SIV infected rhesus macaques (RM), the only available model of human AIDS, and their correlation to the course of AIDS in RM. In addition, monoclonal antibodies against these variants, will be developed as new reagents. These data will further our knowledge of AIDS pathogenesis and may help in the subsequent vaccine design.

Epidemiological observational prospective cohort study to evaluate the sero-prevalence of *Bordetella pertussis* in adults in the Czech Republic

Chlíbek, R., Smetana, J., Dítě, P., Fabiánová, K., Zavadilová, J., Machac, J., Gal, P.

Supported by the GlaxoSmithKline Biologicals co., 2011–2013 (Project No.: 115790 EPI-Pertussis)

Pertussis in adolescents and adults is common, endemic and epidemic and its incidence is reportedly increasing. Adolescents and adults are the groups most commonly infected with pertussis and are the major source of contagion to infants and young children. This population based study could give an evidence to define new strategies to prevent pertussis in adults and to support the need to include aP booster in adults. The main aim of the study is to determine sero-prevalence of *Bordetella pertussis* infections in adults in the Czech Republic. The secondary objectives are to determine the age specific sero-prevalence of high antibody titres to *Bordetella pertussis* in individual age cohorts: 18–29 years of age, 30–44 years of age, 45–59 years of age and 60 + , to describe the differences in age, sex, history of a contact with pertussis, history of long –lasting cough, history of medication and hospitalization due to respiratory infections in previous 12 months, history of pertussis vaccination status and to identify the subjects with asymptomatic pertussis in previous 12 months.

LEPTOSPIROSIS – Risk evaluation and new possibilities of detection

Čermáková, Z., Smetana, J., Kolínková, L., Ošťádal, A., Krejčová, R., Valenta, Z., Douda, P., Navrátilová, L., Neubauerová, V., Fajfr, M.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUVZU2008001)

The aim of this four-year study is to evaluate territory of Czech Republic according to leptospirosis acquiring risk with special regard for military training areas and AOR of Czech armed forces in NATO and UN missions abroad., analyze collected data and create standard operational protocol for exercise and field operations' areas with significant risk of leptospirosis. Compare analytical efficacy of available diagnostic methods for leptospires detection. Precise and accelerate direct proof of leptospiral DNA from patients' and environmental samples and pick up the most suitable method with possibility of rapid and precise detection able to work in field, fully satisfying all the requirements of Czech armed forces.

The presence of sortase enzymes SrtB, SrtC and SrtD in clinical isolates of *Streptococcus pneumoniae* and their role in the virulence and resistance to antimicrobials

Žemličková, H., Prymula, R.

Supported by the Internal Grant Agency of the Czech Republic Health Service, 2009–2011 (Project No.: NS9643)

The Project objective is to study the distribution of the SrtB, SrtC and SrtD genes in clinical isolates of pneumococci. These genes are part of the RlrA pathogenicity islet that produces the pneumococcal pilus. The prevalence of these genes in various serotypes and defined genotypes of pneumococci will be established. The distribution of particular genes among invasive pneumococcal strains (isolated from blood or CSF) and in strains isolated from the upper respiratory tract will be analyzed and the prevalence of the sortase genes among penicillin non-susceptible and penicillin susceptible strains will be compared. A better knowledge of the distribution of the sortase genes among pneumococcal clinical isolates will be helpful in understanding the role of the pneumococcal pilus in the development of either invasive or respiratory (otitis media acuta) disease. The ability of some pneumococcal serotypes to colonize permanently the nasopharynx is likely to be implicated in the development of penicillin resistance. In strains with reduced susceptibility to penicillin, the presence of the pilus as a factor contributing to the development of resistance to antimicrobials in pneumococci will be studied. The obtained results will be of relevance to the fulfilment of Target 6 and two 08 priorities – Analysis of causes and circumstances of the emergence and spread of resistance to antimicrobials and Elucidation of the pathogenesis of infectious processes with a focus on the preparation of novel vaccines and innovation of the available vaccines for the prevention and therapy.

The role of virus associated cellular proteins in T-lymphocyte dysfunction

Boštík, P., Hubálek, M., Řehulka, P., Červený, L., Pejchal, J., Kročová, Z., Boštková, V.

Supported by the Czech Republic Grant Agency, 2010–2014 (Project No.: GAP304/10/1161)

Herpetic viruses, such as VZV, and lentiviruses, such as HIV or SIV, are enveloped viruses, which infect CD4 T cells and cause transient (VZV) or progressive (SIV) dysregulation of T cell function. This effect is mainly indirect, as the fraction of infected cells is small, but the dysregulatory effect is observed in much larger cell population. These viruses incorporate host-derived proteins into their envelopes during the process of virus maturation and these proteins can either retain their function or engage their receptors and subsequently initiate intracellular signaling. This can be mediated by Akt-GSK3 pathway and PGE metabolism, leading to T cell dysfunction and apoptosis. This proposal utilizes state-of the art proteomic approach to Identification of host cell proteins incorporated into the SIV and VZV virions. The role of these host cell proteins will be subsequently investigated in their effects on CD4 T cell signaling cascades and can therefore lead to the

elucidation of mechanisms involved in CD4 T cell dysfunction and death in such diseases as chickenpox and AIDS.

Whole varicella-zoster virus (VZV) genome sequencing of individual wild type and vaccine strains using GS Junior Benchtop System

Bošťíková, V., Bošťík, P., Smetana, J.

Supported by the Roche co., 2010–2011 (Project No.: VZV)

Monitoring of the varicella-zoster virus epidemiology is becoming an important tool for a world-wide analysis of circulation of the individual strains of VZV, which differ not only at the genomic level, but show a variability in their clinical and epidemiological characteristics. The study will yield important data of genetic diversity of VZV in Czech Republic, which will play an important role in further understanding of epidemiology and evolution of the virus, and may in future serve as a tool for genetic prediction of virus pathogenicity or resistance development. Previous data from several laboratories, predominantly in the US and UK, indicate a specific geographic distribution of these strains as well as their potential propensity for recombination with other wild type (wt) or vaccine strains. New pyrosequencing method using GS Junior Benchtop System of whole VZV genomes further refined the phylogenetic distinctions between SNP genotypes. The new data will bring more light to widespread surveillance in countries in which the varicella vaccine is now in use.

DEPARTMENT OF FIELD INTERNAL MEDICINE

Educational and Research Staff

BRNDIAR Miroslav	miroslav.brndiar@seznam.cz
HAMAN Luděk (till 31 August 2011)	haman@fnhk.cz
HORÁČEK Jan (till 31 August 2011)	Jan.Hor@post.cz
HORÁČEK Jan (Head of the Group, since 01 September 2011)	Jan.Hor@post.cz
JAKL Martin	jaklm@seznam.cz
JEBAVÝ Ladislav (Head of the Department)	jebavy@fnhk.cz
KAČEROVSKÝ Jaroslav (Prof. Emerit.)	machacova@seznam.cz
TICHÝ Miloš (Prof. Emerit.)	tichy@fnhk.cz

Administrative, Secretarial and Other Staff

MACHAČOVÁ Iva	machacova@pmfhk.cz
---------------	--------------------

Postgraduate Students

JAKL Martin	jaklm@seznam.cz
KAMENÍK Libor	libor.kamenik@uvn.cz
KUPSA Tomáš	
PRACHAŘOVÁ Šárka	
RUČKA David	david.rucka@vfn.cz
SEDLOŇ Pavel	pavel.sedlon@uvn.cz
STEFANOVÁ Magdalena	stefamag@uvn.cz
SUCHÁNEK Štěpán	stepan.suchanek@uvn.cz
ŠKRAŇKA Vladimír (till 24 February 2011)	skranka.v@seznam.cz
ŠKVAŘIL Jan	jan.skvaril@uvn.cz
VERNER Rostislav	verner.rostislav@zzsjmk.cz

The Department of Field Internal Medicine focuses systematically on the specialized postgraduate level of medical studies in the branch of field internal medicine. This discipline deals with specific military problems, in particular with the problem of saving the lives of patients suffering from serious and life-threatening conditions of non-surgical character. Such

injuries generally occur during mass disasters both in wartime and in peacetime.

In the Department of Field Internal Medicine the development of military internal medicine follows three basic directions or areas: therapy and prevention, pedagogical and educational methods, and scientific research:

Work in therapy and prevention is essential for military internists, because it enables us to acquire and develop good professional aptitude and experience in care for the seriously ill.

The pedagogical and educational aspect of our work follows from our therapeutic/preventive activities. The Department coordinates the Branch Council of Clinical Medical Fields and the Branch Council of Postgraduate Study for Doctorates in Accredited Disciplines of Field Internal Medicine (equivalent of Ph. D.).

Scientific research is the Department's third main area of activity. Essentially, it extrapolates the results of applied clinical research into specific military conditions and into medical care under field conditions.

In 2011 the research in the Department continued in the five basic fields:

- Haematology – growth of stem cells – preparation for bone marrow transplantation.
- Biochemical and electrophysiologic investigation and monitoring of acute coronary syndromes.
- Cardiotoxicity of antitumorous therapy.
- Diagnosis and therapy of hypercoagulative states – the monitoring of anticoagulant therapy.
- Global quality of life in patients who have undergone the hematopoietic stem cell transplantation

Cooperation in the clinical research:

1. Haematopoietic stem cell transplantation. A role of cytokines in transplantation. Transplant-related complications and supportive care has continued.
2. A study in the application of enteral and parenteral nutrition in intensive metabolic care has continued.
3. The study of supraventricular tachycardias – electrophysiologic investigation and therapy including radiofrequency ablation has continued.
4. Participation (co-investigators) on international study IRIS – Immediate Risk-stratification Improves Survival, primary prevention of sudden cardiac death.
5. Cardiotoxicity of antitumorous therapy – the research project has continued.

6. Projects have been carried out in the field of determination and analysis of monoclonal immunoglobulins in the urine of patients with multiple myeloma.
7. New biochemical cardiac markers (cardiac troponin T, high sensitivity CRP, brain natriuretic peptide) – clinical and laboratory evaluation has continued.
8. Analysis of transplantation activities, indications and results in the Czech Republic – National Stem Cell Transplantation Registry.
9. Phase III trial of combined immunochemotherapy with Fludarabine, Cyclophosphamide and Rituximab (FC-R) versus chemotherapy with Fludarabine and Cyclophosphamide (FC) alone in patients with previously untreated chronic lymphocytic leukemia. CLL – 8 / ML 17102 Protocol of the GCLLSG (German CLL Study Group) Dept. of Internal Medicine I, University Hospital Cologne, Germany.
10. GvHD prophylaxis with ATG-Fresenius S in allogeneic Stem Cell Transplantation from matched unrelated donors: A randomised phase III multicenter trial comparing a standard GvHD prophylaxis with cyclosporine A and methotrexate with additional pretransplant ATG-Fresenius S. Project-No. (Fresenius): AP – AS –21- DE, Project-No. (ZKS): S020801 Medizinische Klinik I, Universitätsklinikum Freiburg .
11. Research project: MZO 00179906 (Czech Ministry of Health), Bioindicators in Hematology and Internal Medicine.
12. A Double-Blind, Randomized, Placebo-controlled Study of Two Different Schedules of Palifermin (Pre- and Post Chemotherapy and Pre-Chemotherapy only) for Reduction in Severity of Oral Mucositis in Subjects with Multiple Myeloma (MM) Receiving High Dose Melphalan followed by Autologous Peripheral Blood Stem Cell Transplantation (PBSCT): AMGEN, Protocol no. 20050219.
13. Military – medical aspects of war surgery and war internal medicine (MO0FVZ0000503).

DEPARTMENT OF FIELD SURGERY

Educational and Research Staff

ČÁP Robert (Head of the Group)

cap@pmfhk.cz

DOBEŠ Daniel

dobes@pmfhk.cz

FERKO Alexander

ferko@pmfhk.cz

KLEIN Leo (Head of the Department)

klein@pmfhk.cz

LOCHMAN Petr

lochman@pmfhk.cz

PÁRAL Jiří (Head of the Group)

paral@pmfhk.cz

ŠMEJKAL Karel

smejkal@pmfhk.cz

ŠUBRT Zdeněk

subrt@email.cz

Administrative, Secretarial and Other Staff

ZAHRADNÍČKOVÁ Jana

Postgraduate Students

DOLEŽEL Radek

DUŠEK Tomáš

FIBÍR Aleš (till 01 July 2011)

FRANK Martin

KOČÍ Jaromír (till 15 June 2011)

KOVÁŘ Daniel

OBERREITER Martin

POHNÁN Radek

SLANINKA Igor

URBÁNEK Libor

Structure and main tasks of the department

Division of General Surgery

Páral Jiří – Head of the Group

Division of Traumatology and Burns Treatment

Čáp Robert – Head of the Group

Main tasks

- Undergraduate education of medical students
- Postgraduate training of military surgeons and other medical specialists
- Expertise and referential work for needs of the Czech Armed Forces
- Research in Military Surgery
- Preparation of medical health-care personnel before foreign missions of the Army of the Czech Republic

At present the Department of Field Surgery consists of two groups – the Group of General Surgery and the Group of Traumatology and Burns Treatment. Besides working at each Division of the Department of Surgery of the Teaching Hospital in Hradec Králové, the members of the Department perform both, undergraduate courses in field surgery for students of the Faculty of Military Health Science, and postgraduate training of military physicians for their specialization exams in surgery and general medicine. The Department also participates in teaching of the Battlefield Advanced Trauma Life Support (BATLS) courses, disaster medicine and the first aid courses, organized by the Faculty of Military Health Sciences for the Czech Army members. Members of the department participate in specialised NATO working groups according to their expertise. Moreover, they are consultants of the Surgeon General of the Czech Armed Forces. In the last several years, the Department has played important role in education and training of the personnel of field hospitals operating in foreign missions (Yugoslavia, Bosna-Herzegovina, Albania, Iraq, Afghanistan). Members of the Department also took part in that missions. Research and publication activities are also essential part of the Department work.

Participation in a foreign mission

- F. Hošek – UNTS, Zagreb, Croatia, 1996
- A. Ferko – International Hospital, SFOR, Shipovo, Bosnia and Hercegovina, 2001
- R. Čáp – International Hospital, SFOR, Shipovo, Bosnia and Hercegovina, 2001
- A. Ferko – 11th Field Hospital, ISAF, Kabul, Afghanistan, 2002
- J. Páral – 11th Field Hospital, ISAF, Kabul, Afghanistan, 2002, 2011 (TSF)
- M. Plodr – 11th Field Hospital, ISAF, Kabul, Afghanistan, 2002
- I. Žvák – 11th Field Hospital, ISAF, Kabul, Afghanistan, 2002
- D. Dobeš – British Field Hospital, Op TELIC, Shaibah, Iraq, 2004
- J. Páral – British Field Hospital, Op TELIC, Shaibah, Iraq, 2004
- M. Plodr – British Field Hospital, Op TELIC, Shaibah, Iraq, 2004
- P. Lochman – British Field Hospital, Op TELIC, Shaibah, Iraq, 2004

- M. Plodr – 1st Contingent of the Field Hospital, ISAF, Kabul, Afghanistan 2007
- I. Žvák – 1st Contingent of the Field Hospital, ISAF, Kabul, Afghanistan 2007

National textbooks

- Endovascular Treatment of Arterial aneurysms (Ferko et al.)
- Handbook of Surgery (Ferko et al.)
- Principles of War Surgery (Klein, Ferko et al.)
- X-ray Atlas of Bone Fractures (Žvák et al.)
- Handbook of bandages technique (Páral)

RESEARCH PROJECTS

ACETABULA – Crossover external fixator of acetabular fractures

Šmejkal, K., Čáp, R., Frank, M., Klein, L., Žvák, I.

Supported by the Czech Republic Ministry of Defence, 2009–2011 (Project No.: OVUOFVZ200904)

Pelvic fractures associated with acetabular fractures are severe injuries both, in civilian practice and on the battlefield. It is necessary to solve the problem of temporary stabilization of these fractures, in consequence of improvement battlefield medical care, as well as medical evacuation. This stabilization has to be suitable for Medical Support System. Aggravation of ill health condition of patient and worse clinical outcome can be the result, if these fractures are not stabilized during temporary hospitalization and medical evacuation. The aim of this study is development and biomechanical testing of new crossover external fixator frame for pelvic and acetabular fractures, based on commonly used external fixator device.

LEPIDLO – Testing of possible use of cyanoacrylat tissue glues in high risk intestinal anastomoses

Páral, J., Dobeš, D., Klein, L., Lochman, P., Šubrt, Z., Plodr, M.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200804)

The experimental study is aimed to validate technical and biological possibilities of the cyanoacrylate tissue adhesives in the intestinal surgery and its using on the healing of high-risk anastomoses as a supporting element of conventional suturing.

NOTES – Surgical treatment of the digestive tube's penetrating injuries using Natural Orifice Transluminal Endoscopic Surgery

Klein, L., Ferko, A., Šubrt, Z., Novotný, L., Páral, J., Dušek, T., Lochman, P.

Supported by the Czech Republic Ministry of Defence, 2009–2011 (Project No.: OVUOFVZ200903)

The project is focused on creating the non-devastating penetrating injury model of the digestive tube and testing the possibility for application of the NOTES technology in the treatment. The method uses natural body's orifice (mouth, vagina, urethra, anus) for intraluminal instalation of the double channel operating endoscope into the targeted digestive tube's organ. Through its wall it is put into the free abdominal cavity. Our hypothesis supposes using this method itself or in combination with laparoscopic technique for traumatic defect's closure in the wall without laparotomy. Project will be provided in the porcine model. Animals will be observed for the period of two weeks, and after euthanasia they will be obducted for detection of postoperative complications.

DEPARTMENT OF GENERAL AND EMERGENCY MEDICINE

Educational and Research Staff

ČMEDLOVÁ Pavlína (Head of the Group, since 01 September 2011)	cmedlova@pmfhk.cz
DUŠKOVÁ Klára	duskova@pmfhk.cz
KONŠTACKÝ Stanislav (Head of the Group)	konstacky@pmfhk.cz
MATOUŠEK Radovan (Head of the Department)	matousek@pmfhk.cz
ŠMÍDOVÁ Petra	smidovap@pmfhk.cz
ŽÁK Martin (Head of the Group, till 31 August 2011)	martin.zak@pmfhk.cz

Administrative, Secretarial and Other Staff

BENDOVÁ Tereza	bendova@pmfhk.cz
GRÖGER Tomáš	groger@pmfhk.cz
KRUTIŠ Jan	krutis@pmfhk.cz
ŠEDIVÁ Miroslava	sediva@pmfhk.cz
ŠÍSTKOVÁ Jitka	sistkova@pmfhk.cz

The Department of General Medicine was established at the J. E. Purkyně Military Medical Research and Postgraduate Institute in 1983. It was formed from the former Group of Military Medical Service Organization in Peacetime which existed at the Department of Military Medical Service Organization. The reason for the foundation of the Department was the need to educate military doctors in newly established branch of General Medicine that became the basic branch for military doctors who were in charge of primary care in the Military Medical Service organizational structures. Specialization in the branch of internal medicine was insufficient and did not meet professional requirements for individual medical practice at Units and later at Garrison Dispensaries. First Specialization Exams in this new basic specialization branch were held in February 1985. 525 military doctors passed the Specialization Exam in General Medicine till 31st December 2004.

Since 1997, the work at this Department has focused more on pre-hospital emergency care and teaching the First Aid and Emergency Medicine. At the same time a significant modernization and a proper subdivision of teaching premises according to the type of courses were carried out there. Now the Department is equipped with modern teaching

models and simulators for teaching pre-hospital care, including the possibility of interactive teaching aids. Current innovations of medical material and equipment are applied in teaching process. The extension of teaching activities in this new field called for changes in table posts at the Department. In 2001, the Healthcare Education and Training Group was established and other workers were engaged to teach the first aid. Since 2003, regarding the extension of teaching, the Department has had a new name – the Department of General and Emergency Medicine.

The Department of General and Emergency Medicine is the main department providing military-professional training in the subject called Military Medical Service Organization in Peacetime for students of the Master's Study Programme in branches of General Medicine and Military Pharmacy, and for students of the Bachelor's Study Programme in the branch of Military Medical Management and in various types of training and courses. It also provides further education for military doctors, pharmacists and other personnel of the Military Medical Service through refresher courses and specialization courses. Until 2005, the Department was the leading department focused on specialization training of military doctors served in the Czech Army Medical Service. It organizes pre-graduate courses in emergency medicine in Master's Study Programme, but especially post-graduate education of doctors, health care workers and nurses. The Department of General and Emergency Medicine collaborates with the Institute of Postgraduate Medical Education in Prague, the Chamber of Medicine, professional medical societies and associations in postgraduate training and specialized activities. It participates in establishing standards for special therapeutic care.

The subject called Disaster Medicine makes students acquainted with principles of emergency medicine and operation of individual parts of integrated rescue system in conditions of serious accidents, natural disasters and catastrophes. In connection with this training, the Department provides its participants with knowledge and experience of the operation of the Military Medical Service institutions and facilities in crisis, in combat or other extraordinary situations. It applies the knowledge of military and military-professional subjects into specific conditions of operation of the Military Medical Service respecting both military principles and requirements as well as the principles of humanity, law and especially Geneva Conventions.

The main mission of the Department is education and training of medical officers in casualty medical care in both combat and disaster situations. For this purpose, the principles and procedures of emergency care in field conditions are taught at the Department through BATLS/BARTS (Battlefield Advanced Trauma Life Support/Battlefield Advanced Resuscitation Techniques and Skills) courses. In the same area, the Department participates in training of medical personnel before their departure to foreign missions.

The next important mission of the department is education and training of non-medical personnel in first-aid care. The most of the soldiers are trained in the Battlefield First-Aid Courses, some of them are trained in consequential Combat Life Saver Courses. This course lasts 2 weeks and offers a lot of useful knowledge and skills, e.g. control life-threatening external hemorrhage, airway management and decompress the chest. The graduates of this course must be able to give first aid to casualty with very realistic looking injuries prepared by professional masker at the end of the course.

The Department is a co-ordinating centre of scientific work in the branch of Military Medical Service Organization in Peacetime, Social Medicine, Emergency Medicine and Disaster Medicine. It participates in increasing the quality of organisational structure of medical units, formations and facilities. It elaborates their operation procedures and principles of their management in peacetime as well as in emergency situations. The Department provides expert activities and elaborates data and proposals from these areas for concept-making bodies of the Czech Army Medical Service. The Department analyzes NATO regulations and directives and recommends their introduction in practice as well as in teaching process. It provides consultations for field leading officers of the Military Medical Service. The Department cooperates with civilian institutions, namely, with the bodies of the Ministry of Health of the Czech Republic in the issues concerning the cooperation between civilian and military medical service in extraordinary situations. It ensures publication activities focused on educational work requirements and on presenting scientific information. The Department is in charge of the education of talented students within the framework of students' scientific and professional activities. It participates in the solution of assignments within the organizational structure of the military health care in peacetime. It is the consultation and expert workplace in the branch of General and Emergency Medicine for the Army of the Czech Republic.

RESEARCH PROJECTS

Support of basic and advanced life support education

Matoušek, R.

Supported by ČEZ, 2010–2011 (Project No.: VČE/16/11)

Project is focused for improving theoretical knowledges and practical skills in the field of first aid. The Guidelines for CPR 2010 are included in this project.

DEPARTMENT OF INFORMATION AND COMMUNICATION SYSTEMS

Educational and Research Staff

BLAŽEK Pavel (Head of the Group)	blazek@pmfhk.cz
VOPLATKOVÁ Zdeňka (Head of the Group)	voplatkova@pmfhk.cz
ZEDNÍČEK Jiří (Head of the Department)	zednicek@pmfhk.cz

Technicians

KOMÁREK Vladimír	komarek@pmfhk.cz
RYDRYCH Jiří	rydrych@pmfhk.cz

Administrative, Secretarial and Other Staff

HRDLIČKOVÁ Lenka	hrdlickol@pmfhk.cz
VÍCHOVÁ Eva	vichova@pmfhk.cz
ZIKOVÁ Jitka	library@pmfhk.cz

The Department of information and communication systems (Centre of information technologies till 31 December 2010) provides the top quality information service to ensure efficient scientific, research and teaching activities for teaching and research staff as well as under- and postgraduate students of our faculty.

The Department of information and communication systems consists of two specialized parts – the group of computer applications and the group of the library.

The group of computer applications provides the operation of the faculty network, enables access to army, specialized and public information systems and supplies the needs of the Faculty with modern information technologies. Main activity of the group is ensuring the access to INTERNET and to specialized information systems. Management of data network, central management of software, servicing as well as specialized support of users is also provided.

Part of this group are also graphic services that create graphic documents and posters for presentations, make arrangements and changes of drafts for printing, make digital pictures and do other associated work. It also provides the operating and updating of the web site of the Faculty (<http://www.pmfhk.cz>).

The printing-office of the Department of information and communication systems is able to cover reprographic and printing needs of the Faculty by its own sources in limited extent.

The group of the library provides students, research and teaching staff of the Faculty of Military Health Sciences and members of the Czech Army Medical Service with scientific and information services. The main information services are provided by the library with 85 000 library units concerning medicine as well as associated branches. Information sources in the field of military medicine, emergency medicine and disaster medicine are specificity of this library. The library enables access to various information databases (WoK, ScienceDirect, SCOPUS, SpringerLink, BiblioMedica, etc.) and provides systematic help when being used.

The group participates in teaching activities in the doctoral study programmes and scientific education (Ph.D.) by giving lectures in Basics of Informatics focused on retrievals, processing and publication of scientific information. It also takes part in undergraduate programme in military rescue workers.

DEPARTMENT OF MILITARY HEALTH SERVICE ORGANIZATION

Educational and Research Staff

BLANAR Roman	blanar@pmfhk.cz
HUMLÍČEK Vojtěch (Head of the Department)	humlicek@pmfhk.cz
MALÝ Vladimír	maly@pmfhk.cz
MRVEČKA Petr	mrvecka@pmfhk.cz
POTÁČ Michal	potac@pmfhk.cz
PSUTKA Jan (Head of the Group)	psutka@pmfhk.cz
RŮŽIČKA Milan (Head of the Group)	ruzicka@pmfhk.cz

Technicians

WITT Petr	witt@pmfhk.cz
-----------	---------------

Administrative, Secretarial and Other Staff

MÍŠKOVÁ Leona	miskoval@pmfhk.cz
---------------	-------------------

The Department of Military Health Service Organization is the primary department which offers military and professional training and education for students of medicine, pharmacy, military medical management, as well as for paramedical personnel to the extent necessary for the execution of their duties in a crisis and wartime health care system. It organizes postgraduate education for military doctors, pharmacists and bachelors in advanced courses. It offers specialized training in the field of military health service administration and management. It is responsible for providing career courses to military medical personnel.

The subject called "Organization and Tactics of Military Medical Service" familiarizes students with the activities of the Medical Service in combat conditions, with the assignments and principals of medical support to troops, the organizational structure of the military health service in combat, the operation of particular medical establishments and the principles of human rights – in particular those defined by the Geneva Convention. The department carries out training in medical support planning, in working with map, deployment of field medical facilities, calculation of medical casualties and the Military Medical Service management.

Other subjects provide students with knowledge in tactic, logistics, communications, military engineering, topography, and NBC defence. All these subjects are a part of the general military education of Czech Army

professionals and are prerequisites of mastering the subject of military medicine.

The department teaches disaster medicine, mainly focused on planning, administration, management and evacuation.

The department serves as a coordinating centre for the field of research work in the discipline of the Military Medical Service Organization and Management. It participates in achieving a better quality of organization in medical units, formations, facilities, operational regulations, and management methods in foreign operations. It sets out the basic materials and proposals from the above – mentioned areas for the Czech Army Medical Service authorities.

DEPARTMENT OF MILITARY HYGIENE

Educational and Research Staff

BEDNARČÍK Peter (Head of the Group)	bednarcik@pmfhk.cz
FAJFROVÁ Jana (Head of the Group)	fajfrova@pmfhk.cz
HLÚBIK Pavol (Head of the Department)	hlubik@pmfhk.cz
HUSÁROVÁ Michaela	husarova@pmfhk.cz
PAVLÍK Vladimír	pavlik@pmfhk.cz
STRÍTECKÁ Hana	stritecka@pmfhk.cz

Technicians

PEREGRINOVÁ Jitka

Administrative, Secretarial and Other Staff

PÍRKOVÁ Jitka

Postgraduate Students

BYDŽOVSKÝ Jan (till 01 June 2011)	
DOHNALOVÁ Lucie (since 01 October 2011)	
FAJFROVÁ Jana	fajfrova@pmfhk.cz
HUSÁROVÁ Michaela	husarova@pmfhk.cz
HYŠPLER Pavel (since 01 October 2011)	
LASTIČ Miroslav	
MALIŠOVÁ Zuzana	
NOVOTNÝ Pavel	
OSLADIL Tomáš	
PSUTKA Jan (till 01 July 2011)	psutka@pmfhk.cz
ŠMÍDOVÁ Petra	smidovap@pmfhk.cz
VAŠINA Libor	
VOLDŘICH Martin	
ZMRZLÁ Hana (since 01 October 2011)	
ŽÁK Martin (till 31 August 2011)	martin.zak@pmfhk.cz

The Department of Military Hygiene is divided into two relatively independent groups, the work of which is interconnected and it complexly

covers the basic issues of the relation of life and job environment to the health of the individual.

a) In the area of Hygiene of Nutrition and Occupational Hygiene, attention is paid namely to the incidence and prevalence of risk factors of non-infectious diseases of mass incidence, rational food, catering of troops in peacetime and wartime conditions – emergency food rations, assessment of the proper received and consumed energy. Occupational Hygiene is focused above all on response of the organism to work in protective clothing and severe climatic conditions and on evaluation of the degree of risk connected with environment contamination.

b) The Group of Communal Hygiene is oriented on the analysis of selected physical and chemical factors of external environment in the conditions of the Army of the Czech Republic (ACR) It studies the possibilities of use of chemical substances for disinfection effects.

Pedagogical activities of the Department of Military Hygiene were and still are considerably wide. The Department fully participates in a basic pre-graduate and post-graduate education of military doctors and in co-operation with the Institute for Postgraduate Medical Education in Prague; it takes part in the preparation of civilian physicians. The pre-graduate education pays attention to the students of the 3rd year of Pharmacy, the 4th and 5th year of Stomatology and especially to the students of the 5th and 6th year of General Medicine. The Department of Military Hygiene members participate in teaching basic warrants officers' courses, commanders in reserve courses, recruited nurses courses. In the last few years, they have elaborated specialized training programs for teams of rescuers, for the participants of NATO foreign missions and a course for foreigners – NBC, CISD, IMS.

RESEARCH PROJECTS

Hemodynamic, clinical and biochemical monitoring of patients before and after transjugular intrahepatic portosystemic shunt (TIPS), part. IV

Hůlek, P., Hlúbík, P., Fajfrová, J., Krajina, A.

Supported by the Internal Grant Agency of the Czech Republic Health Service, 2009–2011 (Project No.: NS10363)

The objectives of project is to found more effective diagnostic and medical treatment for patient with chronic portal hypertension in order to decrease its morbidity and mortality, first of all in context with hemodynamic changes of portal hypertension and with therapeutic intervention – transjugular construction of a portosystemic shunt (TIPS). Project has a 3 primary objectives: 1) Study of pulmonary hemodynamic and potential disorders of pulmonary function during portal hypertension with aim at discovered link between hepatopulmonary syndrom and changes of

circulation during portal hypertension (PH) and found its potential therapeutic intervention (methods: measure the central hemodynamic parameters, blood oxygenation and analysis of its link with activity of relevant mediators and cytokines; complex clinical, functional and display examination of lung). 2)Prospectives analysis of impact of TIPS aimed at to found prognostic factors and mechanisms of its favourable and adverse effects: a) From liver encephalopathy point of view: examination of changes and progress in brain circulation (SPECT), genic polymorphism and changes in BDNF production. b) Examination of liver functions with modern tests with indocyanin green and ¹³C-Aminopyrin and its changes after TIPS and its prognostic importance compare with ordinary biochemical indicators. c)Examination of changes in metabolic rate, plasmatic level of amino acids, nutritional status and overgrowth of intestinal microflora in association with TIPS and study its influence on morbidity and mortality after TIPS. 3)Study of influence of incretins and others factors in disorders of glucosic tolerance during liver cirrhosis and PH and impact of TIPS.

DEPARTMENT OF PUBLIC HEALTH

Educational and Research Staff

ANTOŠ Karel	antos@pmfhk.cz
BUREŠ Vladimír (till 31 December 2011)	
ČECH Pavel (till 31 December 2011)	
FUSEK Josef	fusek@pmfhk.cz
HALAJČUK Tomáš	halajcuk@pmfhk.cz
HLAVÁČKOVÁ Hana	hlavacko@pmfhk.cz
HRSTKA Zdeněk (Head of the Group)	hrstka@pmfhk.cz
JANOUGH Jindřich	janouch@pmfhk.cz
JEŽEK Bruno	jezek@pmfhk.cz
LAŠÁK Petr	lasak@pmfhk.cz
MĚCHURA Jiří (Head of the Group)	mechura@pmfhk.cz
PROCHÁZKA Miroslav (Head of the Department)	prochazka@pmfhk.cz
VANĚK Jan	vanek@pmfhk.cz
ŽDÁROVÁ KARASOVÁ Jana (Head of the Group)	karasova@pmfhk.cz

Technicians

JAREŠOVÁ Lucie (since 01 February 2011)	jaresova@pmfhk.cz
---	-------------------

Administrative, Secretarial and Other Staff

HEJČOVÁ Jaroslava

The primary focus of the Department of Public Health (K-309) is aimed at the integration of health care, pharmaceutical and managerial branches to efficiently support the Medical Service of the Czech Army, particularly in the field of disaster medicine and emergency planning, and education of medical and non-medical healthcare personnel in lifelong learning programs.

The department consists of three groups – the Healthcare Management Group, the Military Pharmacy Group and the Fitness Preparation Group.

Teaching activities are one of department's main tasks. The department takes part in undergraduate programs in military health care management, military medicine, military pharmacy and military rescue workers. In addition, teachers run courses and training programs in health care management, medical emergency planning, critical incident stress management, bio-

informatics and statistics, health economics and medical law. The department participates in preparation of medical troops for foreign missions.

Research activities play an important role. The research is oriented towards process modelling, particularly in the context of healthcare facilities, emergency situations, major incidents, geographical information systems in emergency planning, and medical visualization. Members of the department concentrate on the development and application of information technologies in all the mentioned fields. By actively participating in both local and international conferences, the department has established valuable co-operations with national and foreign universities.

The department has been involved in international projects creating centres and methodologies for healthcare management education and for regional healthcare policies.

Department's research projects have been supported by Czech Science Foundation, Foundation of Ministry of Health, and Foundation of Ministry of Defence.

RESEARCH PROJECTS

Development of novel antidotal treatment against organophosphorus pesticides

Musílek, K., Kuča, K., Pohanka, M., Žďárová Karasová, J., Marek, J.

Supported by the Ministry of Education, Youth and Sports, 2009–2012 (Project No.: ME09086)

The development of the broad-spectrum acetylcholinesterase reactivator against organophosphorus pesticides (OPP) is the main aim of the whole project. The synthesis and in vitro evaluation of novel or formerly prepared compounds will be used for this purpose. The structure-activity studies will be figured out for its determination. Such reactivator will be further tested in vivo and might become a candidate for the preclinical trials against OPP.

FARMAKO – Determination of important pharmacokinetic and biochemical parameters and evaluation of blood-brain barrier penetration using drugs introduced to Czech Army

Žďárová Karasová, J., Pavlík, M., Kuča, K., Pohanka, M., Novotný, L.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200811)

The aim of this project is to characterize pharmacokinetics of substances using in therapy by intoxications. Mainly their distribution in body tissues, in vitro and in vivo testing of ability to penetrate into central nervous system and their possibility to injury brain. At the same time we will evaluate some important biochemical data, which can be influenced by this therapy.

INHIBITOR – Novel inhibitors of acetylcholinesterase as prophylaxis of nerve agent poisonings

Musílek, K., Žďárová Karasová, J., Pohanka, M.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200805)

This project is focused on finding of suitable reversible acetylcholinesterase inhibitor as a replacement of prophylactic drug pyridostigmine. For this purpose, 100 reversible AChE inhibitors will be prepared, evaluated in vitro and compared with prophylactic drugs used in the Army of the Czech Republic. Regarding the structure-activity relationship, the best reversible AChE inhibitor will be determined and recommended for in vivo evaluation.

MORČE – Influence of the nerve agent and reactivators of acetylcholine esterase on the Guinea pig

Pohanka, M., Jun, D., Žďárová Karasová, J., Kuča, K., Novotný, L.

Supported by the Czech Republic Ministry of Defence, 2009–2011 (Project No.: OVUOFVZ200905)

The aim of this project is determine the physiological activity of Acetyl Choline Esterase (AChE) and detection of LD50 of inhibitors paraoxon, tabun, cyklosarin and reactivators AChE pralidoxim, obidoxim, trimedoxim, HI-6, methoxim. Next task is asses protective effectivity of reactivators. Also detection of AChE activity in organs after intoxication with nerve compound and following reactivation. We will also follow up plasmatic concentration of reactivators in plasma after i.m. administration and morphological changes in the tissues.

Preparation and biological evaluation of new therapeutics against to pesticides

Kuča, K., Pohanka, M., Žďárová Karasová, J., Jun, D.

Supported by the Internal Grant Agency of the Czech Republic Health Service, 2011–2014 (Project No.: NT12062)

The main aim of this project is to search for new and convenient therapeutics that will be more effective in therapy of pesticide poisoning (pesticides are commonly used organophosphate inhibitors of cholinesterases). New structures will be determined by using highly sophisticated methodology: molecular design. Predicted structures and their analogues will be synthesized. Their therapeutic potency will be tested in in vitro studies. The acetylcholinesterase reactivators with the highest reactivation potency will be chosen into in vivo tests. During this development process other important data such as LD50 of newly synthesized therapeutics, biochemical studies and pharmacokinetics studies (distribution of newly prepared therapeutics and their ability to penetrate through the blood-brain barrier into

central nervous system) will be also replenished. If some effective candidates will be found, subsequent cooperation with foreign institutes is presumed.

PROTEIN – Biosensors for determination of nerve agents and yperites using recombinant proteins and nanotechnology

Pohanka, M., Žďárová Karasová, J., Musílek, K., Kassa, J., Kuča, K.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200807)

The proposed project is aimed at construction of enzyme based biosensors with immobilized ether cholinesterase and/or dehalogenase for detection of nerve agents and yperite using highly innovative nanotechnologies.

DEPARTMENT OF RADIOBIOLOGY

Educational and Research Staff

ŠINKOROVÁ Zuzana	sinkorova@seznam.cz
TICHÝ Aleš	tichy@pmfhk.cz
VÁVROVÁ Jiřina (Head of the Department)	vavrova@pmfhk.cz
ZÁRYBNICKÁ Lenka	zarybnicka@pmfhk.cz

Technicians

MERVARTOVÁ Lenka	mervartova@pmfhk.cz
PRŮCHOVÁ Šárka	sarpru@centrum.cz

Postgraduate Students

FREITINGER SKALICKÁ Zuzana	zuzana.skalicka@centrum.cz
KAŠAOVÁ Linda	kasaova@fnhk.cz
MATOŠKOVÁ Lucie	matoskova@pmfhk.cz
NOVOTNÁ Eva	novotnae@pmfhk.cz
ZÁRYBNICKÁ Lenka	zarybnicka@pmfhk.cz

The Department of Radiobiology was established at Purkyně Military Medical Research and Postgraduate Institute on September the 1st 1963. The first chief of the department became Colonel Prof. MUDr. Josef Mráz, CSc., who was in 1968 appointed the first professor of military radiobiology of the Charles University. The main tasks of the department are teaching and research activities which are closely connected.

In the field of research, the experimental work includes histology and cytology, in vitro method, methods of proteomic analysis and of methods of flow cytometry. Individual technological units allow in vitro and in vivo observation of post-radiation mechanisms on molecular, cellular and organ levels.

Military research is focused on early diagnosis and therapy of post-radiation damage in the main objective of the department. The aim of investigation in the medium-term horizon is discovery and practical introduction of bio-dosimeter markers as well as repeated renewal of decontamination agents for the Army of CR. Mutual cooperation with other NBC research workplaces also remains an integral part of our research activities. Cooperation with civilian work places at the Faculty of Medicine and the University Hospital in Hradec Králové is focused on radiation oncology.

The Department of Radiobiology takes part in military medical-specialist education in form of pre-gradual and post-gradual education mainly in doctoral studies. The main educational activity was to give lectures in military radiobiology. The main topics are: the nuclear weapons effects on living organism, the possibilities of the protection and medical treatment of irradiated persons. Next special military subjects are disaster medicine and NBC protection etc. which are taught at the Faculty of Military Health Sciences, include topics which are presented by the instructors of our department.

RESEARCH PROJECTS

INDIKÁTOR II – Reverse detection of received ionizing radiation dose by monitoring of cell population changes using biophysical methods

Šinkorová, Z., Kročová, Z., Tóthová, I., Pejchal, J., Zárybnická, L., Österreicher, J.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200809)

To establish extrapolated calibration curve for determination the received dose in individuals exposed to ionizing radiation which could be practical used in the Czech army and to design the best enlistment of this biophysical method into the therapeutic-transfer system of the Czech army.

RADSPEC – Short-term and long-term nonspecific changes in organisms exposed to high and low doses of nerve agents on cellular and molecular level

Pejchal, J., Zárybnická, L., Tichý, A., Kassa, J., Mervartová, L., Vilasová, Z.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200812)

The goal of this study is to evaluate expression of perspective biodosimetric markers, such as fosfo-elk-1, fosfo-atf-2, fosfo-CREB, fosfo-p53 (aktivated at serine 15), on the model of nervous paralytic compound (soman) intoxicated rats to investigate their radiospecificity.

RONSDOZ – Noninvasive measurement of proinflammatory markers of oxidative stress in irradiated as an indicator of received dose of radiation. Protective role of acetyl-L-carnitine

Vávrová, J., Šinkorová, Z., Řezáčová, M., Tichý, A., Pejchal, J., Zárybnická, L., Österreicher, J.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200806)

To evaluate whether the bioindicators of oxidative and nitrate stress and inflammations of the airways can be used as biodosimetric markers after exposure to gamma radiation, after whole-body and partial irradiation of rats. To evaluate protective effect of acetyl-L-carnitine.

DEPARTMENT OF TOXICOLOGY

Educational and Research Staff

BAJGAR Jiří	bajgar@pmfhk.cz
BARTOŠOVÁ Lucie	bartosova@pmfhk.cz
CABAL Jiří (Head of the Group)	cabal@pmfhk.cz
KASSA Jiří (Head of the Department)	kassa@pmfhk.cz
KORÁBEČNÝ Jan (since 01 September 2011)	korabecny@pmfhk.cz
KUNEŠOVÁ Gabriela (till 31 March 2011)	krejcova@pmfhk.cz
MISÍK Jan (since 01 July 2011)	misik@pmfhk.cz
MUSÍLEK Kamil	musilek@pmfhk.cz
SVOBODOVÁ Hana	svobodova@pmfhk.cz
ŠEPSOVÁ Vendula (since 01 September 2011)	sepsova@pmfhk.cz
ŠTĚTINA Rudolf (Head of the Group)	stetina@pmfhk.cz

Technicians

RESLOVÁ Eva
ŠKRANCOVÁ Věra
UHLÍŘOVÁ Jana

Postgraduate Students

BENEK Ondřej (since 01 October 2011)	benek@pmfhk.cz
CAISBERGER Filip	caisbergerf@lfhk.cuni.cz
DOHNAL Vlastimil (till 01 July 2011)	dohnal@mendelu.cz
JÍLKOVÁ Martina	jilkova.martina@volny.cz
JOŠT Petr	jost@pmfhk.cz
KAŠPÁREK Aleš	AKasparek@seznam.cz
MAREK Jan	marekj@pmfhk.cz
MISÍK Jan	misik@pmfhk.cz
PAVLÍK Michal (since 01 October 2011)	pavlikm@pmfhk.cz
PAVLÍKOVÁ Růžena (till 01 May 2011)	svejkovka@pmfhk.cz
PAVLÍŠ Oto	pavlis@pmfhk.cz
PEJCHAL Jaroslav	pejchal@pmfhk.cz

PROCHÁZKA Petr	petr.prochazka2@gmail.cz
SOUKUP Ondřej (till 08 June 2011)	soukup.ondrej@seznam.cz
STŘÍBRNÝ Jan	jan.stribny@uvn.cz
SVOBODOVÁ Hana	svobodova@pmfhk.cz
ŠEPSOVÁ Vendula	sepsova@pmfhk.cz
ŠPILOVSKÁ Katarína (since 01 October 2011)	spilovska@mfhk.cz
VOBORNÍKOVÁ Irena (till 01 October 2011)	7irena@email.cz
ZEMÁNKOVÁ Soňa (till 07 July 2011)	zemankova@pmfhk.cz
ZEMEK Filip	

The Department was established in 1951. Since then, as an integral part of the Faculty of Military Health Sciences, it has been involved in education and scientific research work on chemical warfare agents for defensive and protective purposes only. It comprises two laboratory groups – a biochemical (biochemical laboratory, laboratory of organic synthesis, analytical laboratory, decontamination laboratory) and an experimental therapy group (toxicological laboratory, pharmacological laboratory, neurophysiological laboratory, neurobehavioral laboratory, genotoxicological laboratory). This structure permits the complex study of highly toxic substances including chemical warfare agents with aims to determine their action on biochemical, neurobehavioral, histochemical, pharmacological and neurophysiological level, to study and develop antidotes, to analyse all types of samples with respect to the presence of known chemical warfare agents, to test decontamination effectiveness of developed and field decontamination kits. Present scientific research projects are focused on therapeutic, prophylactic and protective measures against the most toxic chemical warfare agents. Special attention has been paid to the most recent and most dangerous nerve agents and mustards. The main educational activity task was to give lectures for undergraduate and post-graduate studies dealing with problems of biological effects of real and potential chemical warfare agents, the possibilities of the medical and chemical protection against them and the approaches to medical care of persons intoxicated with chemical warfare agents, especially nerve agents. The Department of Toxicology also participates in the teaching of toxicology in disaster medicine.

RESEARCH PROJECTS

Development of novel acetylcholinesterase inhibitors as treatment of Myasthenia Gravis

Musílek, K.

Supported by the Czech Republic Grant Agency, 2009–2011 (Project No.: GP203/09/P130)

The treatment of autoimmune disease Myasthenia gravis (MG) is based on a combination of various drugs. The acetylcholinesterase (AChE) inhibitors are used at the first stage of MG (e.g. pyridostigmine bromide) as a symptomatic treatment. These drugs are effective both in peripheral and central nervous system (cross blood-brain barrier – BBB). Their administration causes a huge amount of undesirable effects and it is necessary to reduce their dosage. The preparation, in vitro testing and structure-activity relationship (SAR) of novel AChE inhibitors will be done in our project. Novel compounds will be designed as the bispyridinium molecules with various functional groups and linkers. The bisquaternary structure should guarantee the minimal penetration through BBB and their peripheral effectiveness. SAR will be considered via experimental results (in vitro – IC₅₀) and quantitatively via computer programmes (QSAR). The peripheral AChE inhibitors suitable for application in vivo on animals and for further testing as relevant candidates for MG treatment should become the project results.

Development of novel antidotal treatment against organophosphorus pesticides

Musílek, K., Kuča, K., Pohanka, M., Žďárová Karasová, J., Marek, J.

Supported by the Ministry of Education, Youth and Sports, 2009–2012 (Project No.: ME09086)

The development of the broad-spectrum acetylcholinesterase reactivator against organophosphorus pesticides (OPP) is the main aim of the whole project. The synthesis and in vitro evaluation of novel or formerly prepared compounds will be used for this purpose. The structure-activity studies will be figured out for its determination. Such reactivator will be further tested in vivo and might become a candidate for the preclinical trials against OPP.

INHIBITOR – Novel inhibitors of acetylcholinesterase as prophylaxis of nerve agent poisonings

Musílek, K., Žďárová Karasová, J., Pohanka, M.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200805)

This project is focused on finding of suitable reversible acetylcholinesterase inhibitor as a replacement of prophylactic drug

pyridostigmine. For this purpose, 100 reversible AChE inhibitors will be prepared, evaluated in vitro and compared with prophylactic drugs used in the Army of the Czech Republic. Regarding the structure-activity relationship, the best reversible AChE inhibitor will be determined and recommended for in vivo evaluation.

ORCHIDS – Evaluation, optimisation, trialling and modelling procedures for mass casualty

Simpson, J., Kuča, K., Cabal, J.

Supported by the Executive Agency for Health and Consumers, 2008–2011 (Project No.: 100940)

The ORCHIDS project (Optimisation through Research of Chemical Incident Decontamination Systems) involves the evaluation of emergency decontamination methods, and the exercising and modelling of established mass casualty decontamination facilities. The project will deliver quantitative evidence on the optimum techniques for dealing with a range of potential contaminants and scenarios requiring emergency decontamination. A full range of issues will be addressed, from applied toxicological research to mass casualty decontamination exercising and modelling. This applied research will generate evidence-based guidelines on the optimum techniques for effective mass casualty decontamination, which will be disseminated by the project team through a network of EU Partners and stakeholders, which will be established and developed during the project. In addition, the project will consider the provision for minority and vulnerable groups in emergency decontamination, and will produce public information materials (leaflets and educational tools) designed to help increase knowledge, trust and confidence in emergency decontamination provision.

OTRAVA – Novel prophylactic antidotes of nerve agent poisonings based on scavengers

Jun, D., Musílek, K., Pohanka, M., Kuča, K.

Supported by the Czech Republic Ministry of Defence, 2009–2012 (Project No.: OVUOFVZ200902)

Organophosphorus compounds are weaponized in some countries as chemical warfare agents (sarin, tabun, VX). These compounds inhibit enzymes acetylcholinesterase and butyrylcholinesterase. As antidotes of poisonings by these compounds are often used anticholinergics (atropine, benactyzine) and cholinesterase reactivators (pralidoxime, obidoxime, HI-6). Favorable solution is using of specific enzymes (mostly cholinesterases) as scavengers, able to catch toxic organophosphorus compounds in the bloodstream before they start their toxic effect in the organism. We would like to find suitable cholinesterase reactivators, with the aim to suggest and test their combination with enzymes as pseudocatalytic bioscavenger. This combination allows increase prophylactic efficacy of administered enzyme.

PROTEIN – Biosensors for determination of nerve agents and yperites using recombinant proteins and nanotechnology

Pohanka, M., Žďárová Karasová, J., Musílek, K., Kassa, J., Kuča, K.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200807)

The proposed project is aimed at construction of enzyme based biosensors with immobilized ether cholinesterase and/or dehalogenase for detection of nerve agents and yperite using highly innovative nanotechnologies.

RADSPEC – Short-term and long-term nonspecific changes in organisms exposed to high and low doses of nerve agents on cellular and molecular level

Pejchal, J., Zárbynická, L., Tichý, A., Kassa, J., Mervartová, L., Vilasová, Z.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200812)

The goal of this study is to evaluate expression of perspective biosometric markers, such as fosfo-elk-1, fosfo-atf-2, fosfo-CREB, fosfo-p53 (aktivated at serine 15), on the model of nervous paralytic compound (soman) intoxicated rats to investigate their radiospecificity.

REAKTIVÁTOR – Robotized system for in vitro evaluation of novel reactivators of acetylcholinesterase inhibited by nerve agents

Cabal, J., Pohanka, M., Musílek, K., Kuča, K., Jun, D.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200801)

The aim of this project is to develop new robotic system based on sequential injection analysis (SIA) for testing of reactivation potency of newly synthesized antidotes against nerve agent poisonings.

SUBSTANCE – Development of novel decontaminants and disinfectants of skin based on micellar compounds

Kuča, K., Cabal, J., Pavlík, M., Bajgar, J., Musílek, K., Kassa, J., Pohanka, M., Jun, D., Novotný, L.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200803)

The aim of this project is a development of new compound or mixture with a good decontaminant efficacy against wide spectrum of chemical warfare or pesticides. The second aim will be also to gain the universal disinfectant, which will be effective against many kinds of microbes.

YPERIT – Potential interference of toxic properties of sulphur mustard

Štětina, R., Svobodová, H.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200810)

The aim of this project is to estimate: 1) The influence of poly-(ADP ribose) polymerase (PARP) inhibitors on the cytotoxic and cytostatic effect of sulphur mustard. The influence of PARP inhibitors on the DNA repair (repair of cross-links) induced by SM will be studied in detail in mammalian and human cells. Both normal and DNA repair deficient mutant cells will be used. 2) The influence of selected antioxidants on the cytostatic effect of SM. The oxidative DNA damage and its relationship to the cytotoxicity will be studied. 3) The influence of combined treatment with PARP inhibitors and antioxidants on the cytostatic effect of SM.

Cooperation

In 2011, the Department of Toxicology has continued in the cooperation with various research institutes (the National Poison Control Centre, Military Medical Academy, Belgrade – Republic of Serbia, Medicinal Science Division, Korea Research Institute of Chemical Technology, Taejeon – Korea, Institute for Medical Research and Occupational Health, Zagreb – Croatia, Institute of Pharmacology and Toxicology of Federal Armed Forces Medical Academy Munich – Germany, TNO Prins Maurits Laboratory in Rijswijk – the Netherlands, Department of Toxicology of NBC Research Centre of Military Medical Academy in Sofia – Bulgaria, Centre de Recherches du Service de Santé des Armées /CRSSA/ Grenoble – France, University of Saint Andrew in Saint Andrew – Scotland) in the field of development of prophylactic and therapeutical means against nerve agents and organophosphorous insecticides. The cooperation has been mostly characterized by the exchange of scientific information. Within the frame of the work dealing with the identification of the mechanisms of chemoprevention in the initial phases of mutageneses and carcinogenesis, the Department of Toxicology has also continued in cooperation with the Institute Nutrition Research in Oslo (Norway) and the Institute of Experimental Oncology and the Slovak Health Care University in Bratislava (Slovak Republic).

INSTITUTE OF MOLECULAR PATHOLOGY

Educational and Research Staff

BALONOVÁ Lucie	balonova@pmfhk.cz
HERNYCHOVÁ Lenka	hernychova@pmfhk.cz
HUBÁLEK Martin (Head of the Group, till 28 February 2011)	hubalek@pmfhk.cz
KLIMENTOVÁ Jana	klimentova@pmfhk.cz
KROČOVÁ Zuzana (Head of the Group)	krocova@pmfhk.cz
KUBELKOVÁ Klára (till 31 July 2011)	kubelkova@pmfhk.cz
LENČO Juraj	lenco@pmfhk.cz
LINK Marek	link@pmfhk.cz
MACELA Aleš	amacela@pmfhk.cz
PÁVKOVÁ Ivona	pavkova@pmfhk.cz
ŘEHULKA Pavel (Head of the Group, since 01 March 2011)	rehulka@pmfhk.cz
STULÍK Jiří (Head of the Institute)	stulik@pmfhk.cz
ŠPIDLOVÁ Petra	spidlova@pmfhk.cz

Technicians

LUKŠÍKOVÁ Lenka (maternity leave)	luskikova@pmfhk.cz
ŠAFÁŘOVÁ Mária	safarova@pmfhk.cz

Administrative, Secretarial and Other Staff

FORETOVÁ Zdenka	foretova@pmfhk.cz
-----------------	-------------------

Postgraduate Students

DAŇKOVÁ Věra	
DRESLER Jiří (till 01 July 2011)	
DŘEVÍNEK Michal	
FABRIK Ivo	fabrik@pmfhk.cz
FUČÍKOVÁ Alena	fucikova@pmfhk.cz
KONEČNÁ Klára (till 29 March 2011)	konecna@pmfhk.cz
KUBELKOVÁ Klára	kubelkova@pmfhk.cz
MAZGAJOVÁ Monika	mazgajova@pmfhk.cz
PÍŠA Libor	

PUTZOVÁ Daniela (since 07 October 2011)

STRAŠKOVÁ Adéla

straskova@pmfhk.cz

ŠENITKOVÁ Iva

senitkovpmfhk.cza

TAMBOR Vojtěch (till 07 December 2011)

VAJRYCHOVÁ Marie (since 07 October 2011)

ŽIVNÁ Lucie (till 07 December 2011)

The institute of Molecular Pathology, as one of the successors of the Institute of Radiobiology and Molecular Pathology, is a research centre focused on the application of advanced technologies of functional genomics to bio-medical defence research. Scientific work is preferably aimed at the studies of the host-pathogen interactions at the molecular level. The objectives of this research splits in three main topics: biomolecular signatures of biological agents potentially abused for the military, terroristic or bio-crime acts, intracellular fate of ingested microbes and finally the modulation of host cell signalling and gene expression by ongoing infection. The favourite microbial model is live vaccine strain of *Francisella tularensis*, a gram-negative facultative intracellular bacterial pathogen from the gamma subdivision of *Proteobacteria*.

The second branch of the research involves the clinical studies utilizing the post-genomic approaches for identification of new biomarkers of different pathological processes or side effects of anti-tumor therapy.

Laboratories of the Institute are currently equipped for realization of complete classical and shotgun proteomic analyses. The materials for analyses are prepared in the Institute's tissue culture and microbiological labs. In parallel, the basic search for gene expression can be performed using quantitative real-time PCR technology. The established technologies enable researchers, Ph.D. students, and under-graduate students to realize complex studies oriented on the analyses of living system response to external (and internal, modulatory) signals encompassing the chemicals, biologically active bio-molecules, physical influences (temperature, radiation, etc.), and microorganisms.

During the year 2008 the Institute traditionally cooperated with the military medical and research facility in Sweden (FOI NBC-Defence, Umea) on preparation of *Francisella tularensis* knock-outs. The further scientific contacts involved National Center for Glycomics and Glycoproteomics, Department of Chemistry, Indiana University, USA – mass spectrometry analysis of bacterial glycoproteins, Unité de Pathogénie des Infections Systémiques, Faculté de Médecine, Necker-Enfants Malades, Paris, France – comparative proteomic studies of *Francisella tularensis* deletion mutants, Institute of Virology, Slovak Academy of Science, Bratislava, Slovak Republic – proteomic analysis of acetonitrile extracts of *Coxiella burnetii*, and, finally Institute of Molecular Systems Biology, IMSB, ETH Zurich – proteome

analysis of outer membrane and lipid rafts component of host cells infected by *Francisella tularensis* and Department of Microbiology and Parasitology, University of Rijeka – microscopical analysis of microbial intracellular trafficking, Molecular Infection Medicine, University of Umea , Sweden – analysis of host-pathogen interactions.

Within the frame of the Czech Republic, the Institute has useful contacts with the Institute of Microbiology, Czech Academy of Science, Prague, the Institute of Parasitology, Czech Academy of Science, České Budějovice, the Faculty of Science, Charles University, Prague, the University Hospital in Hradec Králové, Department of Biological and Biochemical Science, University of Pardubice, Pardubice, Department of Pharmacology of Medical Faculty in Hradec Králové, Department of Oncological and Experimental Pathology Masaryk Memorial Cancer Institute, Brno and Veterinary Research Institute in Brno.

The financial support for research activities performed in the collaboration with above-mentioned Institutes comes from the programmes and projects of Czech Grant Agencies and Ministry of Defence. Currently, the Institute for Molecular Pathology has 12 full-time permanent employees, 9 scientists, 2 technicians and 1 administrative worker, two additional scientists have part-time positions and, finally, and 1 postdoc is supported from grant funds. The Institute has currently 12 PhD students and, furthermore, several undergraduates have been working on their diploma thesis in the Institute.

RESEARCH PROJECTS

BIODEFENCE – Classification of biological agents – support of an international project Establishment and management of a common database of B-agents – A European Laboratory Biodefence Network

Hubálek, M., Hernychová, L., Kubelková, K., Řehulka, P., Macela, A.

Supported by the Czech Republic Ministry of Defence, 2009–2011 (Project No.: OVUOFVZ200901)

The goal of the project is to gather typing data for B-agents listed in project of the european biological database by the mean of mass spectrometry (MALDI-TOF, tandem mass spectrometry) and molecular biology (real-time PCR, MLST).

Development of new anti-tularemic vaccine on the basis of elucidation of molecular mechanism of tularemia pathogenesis

Stulík, J., Hubálek, M., Strašková, A., Macela, A., Červený, L., Kročová, Z.

Supported by the Internal Grant Agency of the Czech Republic Health Service, 2009–2011 (Project No.: NS9747)

Project is focused on elucidation of tularemia pathogenesis using techniques of proteomics, genomics, molecular biology, immunology and

microbiology. The main goal is to find genes encoding factors of virulence and based on this knowledge to create new prophylactic tools.

Development of proteomic methods for deeper quantitative analysis of plasma proteome

Lenčo, J.

Supported by the Czech Republic Grant Agency, 2009–2011 (Project No.: GP301/09/P241)

The increased availability of latest proteomic technologies has allowed proteomics to focus on biomarkers representing an especially important area. From the clinical viewpoint, the most promising source of such markers is plasma. However, plasma is characterized by serious obstacles for proteomic analysis, namely huge complexity and extremely wide protein concentration range. To overcome these hurdles, the general possible solutions include simplification of the mixture to specific peptides, and protein concentration equilibration. These approaches have been already published, however these are mostly iTRAQ-incompatible. iTRAQ is a unique and popular quantitative method for shotgun proteomics. Within the scope of the project, new iTRAQ-compatible proteomic techniques will be developed, namely the combination of iTRAQ with specific peptide isolation as well as with protein concentration equilibrating approaches. After optimization, these methods will be implemented into the quantitative analysis of plasma, focusing on markers for hypertrophic cardiomyopathy.

FRANCIS – Development of new prophylactic tools against *Francisella tularensis* infection

Stulík, J., Červený, L., Dresler, J., Härtlová, A., Filipp, D., Lenčo, J., Link, M., Řehulka, P., Hubálek, M., Kročová, Z., Klimentová, J.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200808)

Identification of new candidate molecules of protein origin suitable for the construction of better defined live or subunit vaccines and elucidation of the process of antigen presentation of tularemic peptides as a key event for the development of new strategies to treat and prevent infection with *Francisella tularensis*.

HOREČKA – Method of viral hemorrhagic fevers' causative agents rapid detection and identification

Fajfr, M., Kročová, Z., Žáková, J., Červený, L., Růžek, D.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUVZU2008002)

The main aim of our research project is design and optimisation of new rapid viral hemorrhagic fevers' (VHF) detection and identification system

targeting main causative pathogens. The system will be based on two steps: primary rapid detection and identification of viral family using Real-time reverse-transcription polymerase chain reaction (RT-PCR) and secondary pointed use of the same method for causative pathogen precise species determination. Output of this project will be concept of new rapid economic VHF diagnostic technique, fitting its detection limits, difficulty and material requirements of Czech army biological defense forces.

Identification of biomarkers of intraamniotic infection and a syndrome of inflammatory fetus response in amniotic fluid: proteome approach

Lenčo, J., Kacerovský, M., Hubálek, M., Vlk, R., Andrýs, C., Calda, P., Drahošová, M., Tošner, J., Břešťák, M.

Supported by the Internal Grant Agency of the Czech Republic Health Service, 2009–2011 (Project No.: NS10382)

Intraamniotic infection belongs to the most frequent causes of abortion. This infection can even lead to fetal inflammatory response syndrome that is accompanied by increased perinatal morbidity and mortality. Primary goal of this project is the characterization of protein composition of amniotic fluid in patients with preterm premature rupture of membranes (PPROM) with or without intraamniotic infection, or with FIRS. The identified proteins could be useful as biomarkers for diagnosis of FIRS or intraamniotic infection in future. Another aim involves monitoring of differences in quantities of IL-8 and matrix metalloproteinase 8 (MMP-8) in amniotic fluid of patients with PPRM with or without intraamniotic infection, or with FIRS.

Identification of novel *Francisella tularensis* targets for subunit vaccine development

Stulík, J., Worsham, P.

Supported by Defense Threat Reduction Agency, 2011–2014 (Project No.: D-CZ-10-0001)

To develop a subunit vaccine for tularemia. Specifically, this project focuses on (1) the identification of surface associated or secreted virulence factors from *F. tularensis* using immunoproteomic approaches (2) cloning and expression of these gene products, (3) confirming the role of the selected targets in virulence, and (4) assessing these proteins as protective antigens in animal models.

INDIKÁTOR II – Reverse detection of received ionizing radiation dose by monitoring of cell population changes using biophysical methods

Šinkorová, Z., Kročová, Z., Tóthová, I., Pejchal, J., Zárybnická, L., Österreicher, J.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200809)

To establish extrapolated calibration curve for determination the received dose in individuals exposed to ionizing radiation which could be practical used in the Czech army and to design the best enlistment of this biophysical method into the therapeutic-transfer system of the Czech army.

Molecular diagnostics of bacterial antigens

Krátká, J., Hernychová, L., Novák, P., Man, P., Šimšová, M.

Supported by the Ministry of Industry and Trade, 2009–2013 (Project No.: FR-T11/292)

The main goal of the proposal is to create new unbiased and fully reliable detection system for pathogenic bacteria e.g. *F. tularensis*. Basic research, aimed at identification of diagnostic protein markers, will be followed by experimental and applied research which will target recombinant forms of protein markers and production of highly specific antibodies. Finally the overall methodology and protein and antibody products will be utilized in creation of novel detection systems.

New analytical approaches for identification of proteins with significant attributes for virulence and pathogenicity of bacteria

Bílková, Z., Hernychová, L., Kučerová, Z., Horák, D.

Supported by the Czech Republic Grant Agency, 2009–2011 (Project No.: GA203/09/0857)

The project aims at the innovative analytical approach based on biofunctionalized magnetic micro/nanoparticles combined with microfluidic analytical device (m-TAS). Benefits provided by both systems open the feasibility to use this microanalyzer for effective separation of bacterial proteins from highly complex mixture. The analyses will be focused on significant attributes of virulence and pathogenesis within intracellular parasite. New analytical strategy combined with mass spectrometry (MS) enables to isolate and characterize the structure of low-abundant glykoproteins, phosphoproteins and in other way modified proteins from cell lysate or membrane fractions of bacteria and identify biomolecules predicting the virulence of bacteria strains. The immobilized magnetic affinity reactor (IMAR) with specific ligand used for isolation and purification of proteins significantly facilitates the identification of protein fingerprint by MS even for bacterial protein in submicromolar concentration.

Proteomic identification of biomarkers of intraamniotic inflammation in amniotic fluid in preterm birth patients

Kaceroinský, M., Lenčo, J.

Supported by the Ministry of Education, Youth and Sports, 2010–2012 (Project No.: ME10025)

Intraamniotic infection and inflammation belong among the major causes of preterm birth and may lead to fetal inflammatory response syndrome (FIRS) which is associated with elevated perinatal morbidity and mortality independently on the gestational age. The aim of the project is to characterize alterations in amniotic fluid protein composition in women with spontaneous preterm birth at gestational age 24+0 to 36+6 with and without confirmed intraamniotic infection and inflammation or FIRS. Such proteins may be used for diagnostic applications in the future.

The proposal of workflow of unambiguous identification of the complex of highly virulent bacterial biological agents using mass spectrometry and molecular biology methods and testing their feasibility on environmental samples

Dresler, J., Hubálek, M.

Supported by the Czech Republic Ministry of Defence, 2010–2012 (Project No.: OVUVZU2010001)

The aim of the proposed project is to design functional identification systems based on Real-time PCR that can be used in the field with lower cost than current systems. In parallel, the goal is to design typing methods suitable for military forensic laboratory that will help in discovery of the source of the infection and substantially extend the diagnostic abilities of Czech army in the scope of identification of highly hazardous biological agents. Modern molecular methods based on principle of DNA and protein analysis will be employed, sequencing of nucleic acids and tandem mass spectrometry. The resulted data will be stored in the database of identification and typing data of biological agents that is formed in BioNumerics software as part of BIODEFENCE project. The potential of the investigated methods and procedures will be tested using simulated environmental samples.

The proteomics-based study on molecular mechanisms of early lymph node metastases formation in low grade breast cancer

Bouchal, P., Hubálek, M., Vojtěšek, B.

Supported by the Czech Republic Grant Agency, 2010–2012 (Project No.: GAP304/10/0868)

Metastasis, the spread of breast cancer to other locations in the body, is the main reason that leads to the mortality of patients with this diagnosis. This project is focused on discovery, verification and validation of proteins

related to metastatic processes in breast cancer in small, low grade breast cancer tumors which, in disagreement with theoretical prognosis, start with metastases formation early and exhibit lymph node metastases. Clinically well defined set of primary breast tumor tissues has been selected for this purpose. Target proteins will be identified by a combination of complementary high resolution proteomic methods with various analysis principles and validated at different biological levels. Furthermore, molecular roles of targets identified in our preliminary experiments will be studied by the use of different proteomic and genomic approaches in detail. We expect that our results will help to describe the molecular mechanisms of metastasis in this group of clinically significant tumors and can identify potential markers of their metastatic potential.

The role of B cells during natural and adaptive phase of immune response against *Francisella tularensis* infection in mice

Kročová, Z.

Supported by the Czech Republic Grant Agency, 2011–2014 (Project No.: GAP302/11/1631)

Tularemia is a zoonotic infection with high infectivity and high morbidity. The etiological agent of tularemia is *Francisella tularensis*, an intracellular pathogen on all major lists of potential bioterroristic agents. The live vaccine strain without the license for human use is still the only problematic tool for the immunoprophylaxis. In spite of a growing number of studies dedicated to immunity against tularemia, the mechanisms participating in the protective response remain mostly unknown. Especially the role of B cells and specific antibodies is a recently hot topic of debate. For this reason the proposal of this project covers the aims concerning the mechanisms by which B cells and antibodies participate in protective response, e.g. antigen presenting function, production of specific antibodies during the T-independent phase of innate response, B cell mediated immunological memory and the existence of an analogy of ADCC where bacteria are the targets. No direct experimental evidence exists for the participation of these phenomena in protective immunity against tularemia.

The role of virus associated cellular proteins in T-lymphocyte dysfunction

Boštík, P., Hubálek, M., Řehulka, P., Červený, L., Pejchal, J., Kročová, Z., Boštíková, V.

Supported by the Czech Republic Grant Agency, 2010–2014 (Project No.: GAP304/10/1161)

Herpetic viruses, such as VZV, and lentiviruses, such as HIV or SIV, are enveloped viruses, which infect CD4 T cells and cause transient (VZV) or progressive (SIV) dysregulation of T cell function. This effect is mainly indirect, as the fraction of infected cells is small, but the dysregulatory effect

is observed in much larger cell population. These viruses incorporate host-derived proteins into their envelopes during the process of virus maturation and these proteins can either retain their function or engage their receptors and subsequently initiate intracellular signaling. This can be mediated by Akt-GSK3 pathway and PGE metabolism, leading to T cell dysfunction and apoptosis. This proposal utilizes state-of the art proteomic approach to Identification of host cell proteins incorporated into the SIV and VZV virions. The role of these host cell proteins will be subsequently investigated in their effects on CD4 T cell signaling cascades and can therefore lead to the elucidation of mechanisms involved in CD4 T cell dysfunction and death in such diseases as chickenpox and AIDS.

VIVARIUM

Educational and Research Staff

PAVLÍK Michal (Head of the Department)

pavlikm@pmfhk.cz

Technicians

BOCKOVÁ Irena (Head of the Group)

ETFLAIŠOVÁ Petra

JUNKOVÁ Irena

PUDÍKOVÁ Margita

SLAVÍK Jaroslav

The Vivarium at the Faculty of Military Health Sciences of the University of Defence fulfils science, research and teaching tasks of the departments and specialized workplaces of the Faculty of Military Health Sciences. The vivarium is subordinated to the Department of Teaching activities.

The separate vivarium for mice and sewer-rats is a part of the Department of Toxicology.

From the point of view of the capacity the Faculty of Military Health Sciences is able to carry out experiments, place and take care of laboratory mice, sewer-rats, guinea-pigs, rabbits, pigs or mini pigs and sheep. In the area of the vivarium there are also laboratory workplaces and operating theatres, which are equipped for experiments on laboratory animals. All studies have to be allowed by the Ethical Board of the Faculty of the Military Health Sciences fully in compliance with the legal standards of the protection against cruelty to animals.

The vivarium with the operating block is intensively used above all for experiments on large experimental animals. The courses BATLS and BARTS are held there. During the courses different model situations and cases of emergency medicine are performed for military doctors and participants of foreign mission including war injuries on dead and live experimental animals.

The international course led by U.S. ARMY medical service personnel and other similar training activities belong to this part.

On 30 December 2010 the vivarium was accredited for use again for 5 years (till 30 December 2015) by the Central Board for Animal Protection and on 4 November 2008 for 5 years (till 4 November 2013) as a breeding institution. The Faculty of Military Health Sciences also owns the refreshed certificate of the Ministry of Health for testing pharmaceuticals valid until 31 December 2010. Nowadays, the Faculty of Military Health Sciences does

not have its own certificate of right laboratory practice given by the State Institute for Drugs.

The above-mentioned range of the activities shows that it is necessary to time work and also co-ordinate it personally including permanent presence of a veterinary surgeon, veterinary technicians and breeders of laboratory animals.

RESEARCH PROJECTS

FARMAKO – Determination of important pharmacokinetic and biochemical parameters and evaluation of blood-brain barrier penetration using drugs introduced to Czech Army

Žďárová Karasová, J., Pavlík, M., Kuča, K., Pohanka, M., Novotný, L.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200811)

The aim of this project is to characterize pharmacokinetics of substances using in therapy by intoxications. Mainly their distribution in body tissues, in vitro and in vivo testing of ability to penetrate into central nervous system and their possibility to injury brain. At the same time we will evaluate some important biochemical data, which can be influenced by this therapy.

Improvement of vaccination efficacy by cholinergic anti-inflammatory pathway

Pohanka, M., Hrabínová, M., Pavlík, M., Kuča, K., Boštík, P.

Supported by the Ministry of Education, Youth and Sports, 2011–2014 (Project No.: LH11023)

Cholinergic antiinflammatory pathway (CAP) is an important tool of regulation of innate immune responses mediated by the parasympathetic nervous system. The project is aimed at evaluating the performance of drugs affecting CAP as vaccine adjuvans. The primary hypothesis is that a suppression of CAP can potentiate the vaccination efficacy. Compound HI-6 inhibiting blood acetylcholinesterase will be tested for control purposes in comparison to drugs triggering CAP. The project will cover the following aspects: in vitro tests of drug effects, examination of effects of tested drugs on immune system alone and co-application of tested drugs with commercially available vaccine in comparison to the effect of the vaccine alone in-vivo in small laboratory animals. Basic immunochemical parameters such as immunoglobulin isotypes M and G, interleukins 2, 4 and 6 and selected biochemical parameters will be assessed. The expected results of project will be improvement of vaccines efficacy and better characterization of CAP as target of the selected drugs.

SUBSTANCE – Development of novel decontaminants and disinfectants of skin based on micellar compounds

Kuča, K., Cabal, J., Pavlík, M., Bajgar, J., Musílek, K., Kassa, J., Pohanka, M., Jun, D., Novotný, L.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200803)

The aim of this project is a development of new compound or mixture with a good decontaminant efficacy against wide spectrum of chemical warfare or pesticides. The second aim will be also to gain the universal disinfectant, which will be effective against many kinds of microbes.

VISITORS TO THE FACULTY OF MILITARY HEALTH SCIENCES

Finland

- OJALA Hannu, RAIJAS Tiina, MESILAAKSO Makku, NIKKARI Simo, KAUPPINEN Harri, ELO Mikko (Helsinki) – negotiations on mutual cooperation, 04 May 2011 – 04 May 2011

France

- BEUZON Benoît (Montpellier) – a French teacher, 03 October 2011 – 30 June 2012
- FOUREAU Mathilde (Rouen) – a French teacher, 01 October 2010 – 30 June 2011

VISITS ABROAD

Afghanistan

- Páral, J. (Mission TSF Afghanistan, Kabul, 27 September 2011 – 28 January 2012)

Argentina

- Střítecká, H. (International Congress on Abdominal Obesity, Buenos Aires, 23 February 2011 – 27 February 2011)

Australia

- Chlíbek, R. (7th World Congress of the World Society for Pediatric Infectious Diseases – WSPID, Melbourne, 13 November 2011 – 21 November 2011)
- Smetana, J. (7th World Congress of the World Society for Pediatric Infectious Diseases – WSPID, Melbourne, 13 November 2011 – 20 November 2011)

Austria

- Chlíbek, R. (13th Annual Meeting of the International Scientific Working on TBE Meeting, Vienna, 03 February 2011 – 04 February 2011)
- Klimentová, J. (Late Summer Practical Proteomics Seminar, Vienna, 28 August 2011 – 30 August 2011)
- Řehulka, P. (MassSpec-Forum-Vienna-2011 – 22nd Mass Spectrometric Discussion Meeting, Vienna, 21 February 2011 – 24 February 2011)

Belgium

- Boštík, P. (CapTech ESM04 EDA meeting, Brussels, 07 June 2011 – 10 June 2011)
- Boštík, P. (CapTechESM04 EDA meeting, Brussels, 11 October 2011 – 13 October 2011)
- Kassa, J. (32th NATO CBRN Medical Working Group Meeting, Brussels, 13 February 2011 – 17 February 2011)
- Štětina, R. (Evaluation Session of the 7th Framework Programme, Brussels, 14 November 2011 – 18 November 2011)
- Štětina, R. (Meeting of the Working Group Asperillus (European Food Safety Authority), Brussels, 07 December 2011 – 08 December 2011)
- Štětina, R. (Meeting of the Working Group Asperillus (European Food Safety Authority), Brussels, 12 April 2011 – 13 April 2011)
- Štětina, R. (Meeting of the Working group Asperillus (European Food Safety Authority), Brussels, 18 March 2011 – 18 March 2011)
- Štětina, R. (Meeting of the Working Group Asperillus (European Food Safety Authority), Brussels, 26 October 2011 – 28 October 2011)

Bosnia and Herzegovina

- Chlíbek, R. (Immunization – Key to Successful Prevention, Sarajevo, 15 April 2011 – 16 April 2011)

Canada

- Klein, L. (NATO – RTO HFM 207 Symposium: A Survey of Blast Injury Across the Full Landscape of Military Science, Halifax, 01 October 2011 – 06 October 2011)

Croatia

- Bajgar, J. (7th World Congress on CBRN Threat and Terrorism, Cavtat – Dubrovnik, 10 April 2011 – 15 April 2011)
- Kassa, J. (7th World Congress on CBRN Threat and Terrorism, Cavtat – Dubrovnik, 10 April 2011 – 15 April 2011)
- Kubelková, K. (Frontiers in Immunology Research International Conference, Split, 30 June 2011 – 05 July 2011)
- Kuča, K. (7th World Congress on CBRN Threat and Terrorism, Cavtat – Dubrovnik, 10 April 2011 – 15 April 2011)

France

- Bajgar, J. (47th Congress of the European Societies of Toxicology (EUROTOX 2011), Paris, 28 August 2011 – 31 August 2011)
- Boštík, P. (CapTechESM04 EDA meeting, Paris, 09 February 2011 – 11 February 2011)

- Horáček, J. (37th Annual Meeting of the European Group for Blood and Marrow Transplantation (EBMT), Paris, 03 April 2011 – 07 April 2011)
- Jakl, M. (ESC Congress 2011, Paris, 28 August 2011 – 31 August 2011)
- Jebavý, L. (37th Annual Meeting of the European Group for Blood and Marrow Transplantation (EBMT), Paris, 02 April 2011 – 06 April 2011)
- Kassa, J. (47th Congress of the European Societies of Toxicology (EUROTOX 2011), Paris, 28 August 2011 – 31 August 2011)
- Pohanka, M. (47th Congress of the European Societies of Toxicology (EUROTOX 2011), Paris, 20 August 2011 – 28 August 2011)
- Řehulka, P. (8th Lipidomics Meeting, Lyon, 25 October 2011 – 29 October 2011)
- Svobodová, H. (47th Congress of the European Societies of Toxicology (EUROTOX 2011), Paris, 28 August 2011 – 31 August 2011)
- Štětina, R. (47th Congress of the European Societies of Toxicology (EUROTOX 2011), Paris, 28 August 2011 – 31 August 2011)

Germany

- Fajfrová, J. (Key Leader Seminar Bleu 2012/II, Ulm, 21 November 2011 – 24 November 2011)
- Horáček, J. (The International Congress on Controversies in Stem Cell Transplantation and Cellular Therapies (COSTEM 2011), Berlin, 07 September 2011 – 11 September 2011)
- Chlábek, R. (1st International Conference on Controversies in Vaccination In Adults, Berlin, 28 January 2011 – 30 January 2011)
- Kubelková, K. (Medical Biodefense Conference 2011, Munich, 25 October 2011 – 28 October 2011)
- Musílek, K. (13th Medical Chemical Defence Conference, Munich, 13 April 2011 – 14 April 2011)
- Strašková, A. (Biodefense Conference, Munich, 25 October 2011 – 28 October 2011)
- Strašková, A. (Microscopy Conference, Kiel, 28 August 2011 – 02 September 2011)
- Štětina, R. (13th Medical Chemical Defence Conference, Munich, 13 April 2011 – 14 April 2011)
- Štětina, R. (UKEMS/Dutch EMS-sponsored Workshop on Biomarker of Exposure and Oxidative DNA Damage & 7th GUM 32P-Postlabelling Workshop, Munster, 27 March 2011 – 30 March 2011)

Greece

- Matoušek, R. (The 6th Mediterranean Emergency Medicine Congress, Kos, 09 September 2011 – 15 September 2011)

Hungary

- Boštík, P. (Organizational meeting of RECOOP, Budapest, 11 November 2011 – 13 November 2011)

China

- Boštík, P. (2nd Annual World Congress of Immunodiseases and Therapy (WCIT-2011), Guangzhou, 16 November 2011 – 23 November 2011)
- Halajčuk, T. (Integrated Research on Disaster Risk (IRDR) Conference 2011 "Disaster Risk: Integrating Science & Practice", Beijing, 31 October 2011 – 02 November 2011)
- Ježek, B. (1st International Conference on Logistics, Informatics and Service Science, Beijing, 08 June 2011 – 11 June 2011)
- Ježek, B. (17th World Congress on Disaster and Emergency Medicine, Beijing, 31 May 2011 – 03 June 2011)
- Procházka, M. (Integrated Research on Disaster Risk (IRDR) Conference 2011 "Disaster Risk: Integrating Science & Practice", Beijing, 31 October 2011 – 02 November 2011)
- Vaněk, J. (17th World Congress on Disaster and Emergency Medicine, Beijing, 31 May 2011 – 03 June 2011)
- Vaněk, J. (13th International Conference on Enterprise Information Systems, Beijing, 08 June 2011 – 11 June 2011)

Italy

- Řehulka, P. (29th Informal Meeting on Mass Spectrometry, Fiera di Primiero, 14 May 2011 – 20 May 2011)
- Strašková, A. (Conference Toll 2011 "Decoding Innate Immunity", Riva del Garda, 04 May 2011 – 07 May 2011)
- Štětina, R. (Meeting of the Working Group Asperillus (European Food Safety Authority), Parma, 05 September 2011 – 07 September 2011)

Japan

- Lochman, P. (21st World Congress of the International Association of Surgeons, Gastroenterologists and Oncologists, Tokyo, 09 November 2011 – 13 November 2011)
- Páral, J. (International Surgical Week, Yokohama, 27 August 2011 – 03 September 2011)
- Šubrt, Z. (International Surgical Week, Yokohama, 27 August 2011 – 03 September 2011)

VISITS ABROAD

Latvia

- Chlíbek, R. (15th Central European Vaccination Advisory Group Meeting, Riga, 09 October 2011 – 10 October 2011)

Peru

- Boštíková, V. (Novel approach of pyrosequences for molecular diagnostics of infectious diseases, Lima, 11 May 2011 – 11 May 2011)
- Boštíková, V. (VZV – Molecular Biology – Overview 2011. Advisory Board, Lima, 13 May 2011 – 13 May 2011)
- Špliňo, M. (Pandemic Flu in Central European Countries, Lima, 24 May 2011 – 24 May 2011)
- Špliňo, M. (The Influenza Vaccination Campaign – summary, Lima, 25 May 2011 – 25 May 2011)

Poland

- Fajfrová, J. (III Zjazd polskiego towarzystwa badań nad otyłością, Olsztynie, 25 August 2011 – 27 August 2011)
- Chlíbek, R. (CEE Pneumococcal Surveillance Workshop NO.4, Warsaw, 06 April 2011 – 08 April 2011)
- Chlíbek, R. (Central European Academy of Adult Vaccination, Warsaw, 08 September 2011 – 09 September 2011)
- Klein, L. (65th Congress of Polish Surgeons, Lodz, 13 September 2011 – 17 September 2011)
- Šinkorová, Z. (Chemical and Biological Defense Science and Technology Conference (CBD 2011), Warsaw, 28 August 2011 – 02 September 2011)
- Vávrová, J. (Chemical and Biological Defense Science and Technology Conference (CBD 2011), Warsaw, 28 August 2011 – 02 September 2011)
- Zárybnická, L. (Chemical and Biological Defense Science and Technology Conference (CBD 2011), Warsaw, 28 August 2011 – 02 September 2011)

Qatar

- Střítecká, H. (DALM – 17th International Symposium, Doha, 14 March 2011 – 16 March 2011)

Republic of Korea

- Musílek, K. (Business internship in Korea Research Institute of Chemical Technology, Daejeon, 28 September 2011 – 01 October 2011)
- Žďárová Karasová, J. (Business internship in Korea Research Institute of Chemical Technology, Daejeon, 28 September 2011 – 01 October 2011)

Serbia

- Pohanka, M. (EUROanalysis 16, European Conference on Analytical Chemistry, Belgrade, 11 September 2011 – 15 September 2011)

Slovakia

- Boštík, P. (Review of Presentations and Faculty Representative in RECOOP, Bratislava, 08 April 2011 – 10 April 2011)
- Fajfrová, J. (Nutrition in Prevention and Therapy of Obesity, Bratislava, 08 October 2011 – 08 October 2011)
- Haman, L. (9th Slovak and Czech Symposium on Arrhythmias and Cardiac Pacing, Horný Smokovec, 05 February 2011 – 08 February 2011)
- Humlíček, V. (Professional Discussion in the Area of Military Medical Organization, Liptovský Mikuláš, 13 June 2011 – 17 June 2011)
- Chlíbek, R. (2nd Slovak Vaccines Congress, Strbské Pleso, 13 January 2011 – 15 January 2011)
- Klein, L. (6th Central European Congress of Burns, Košice, 25 May 2011 – 28 May 2011)
- Malý, V. (Bilateral Cooperation, Liptovský Mikuláš, 13 June 2011 – 17 June 2011)
- Psutka, J. (Professional Discussion in the Area of Military Medical Organization, Liptovský Mikuláš, 13 June 2011 – 17 June 2011)
- Štřítecká, H. (11th Days of Children and Youth, Dunajská Streda, 19 May 2011 – 20 May 2011)
- Svobodová, H. (Genetic Toxicology and Cancer Prevention (34th Working Days of Czech and Slovak Society for Environmental Mutagenesis), Bratislava, 13 June 2011 – 15 June 2011)
- Štětina, R. (Genetic Toxicology and Cancer Prevention (34th Working Days of Czech and Slovak Society for Environmental Mutagenesis), Bratislava, 13 June 2011 – 15 June 2011)

Slovenia

- Chlíbek, R. (14th Central European Vaccination Advisory Group Meeting, Bled, 17 April 2011 – 18 April 2011)

Spain

- Haman, L. (Europace, Madrid, 25 June 2011 – 29 June 2011)
- Chlíbek, R. (Boxero Global Investigator Meetin, Barcelona, 05 May 2011 – 07 May 2011)
- Kuča, K. (10th International Conference Alzheimer's and Parkinson's Diseases, Barcelona, 09 March 2011 – 13 March 2011)
- Musílek, K. (10th International Conference Alzheimer's and Parkinson's Diseases, Barcelona, 09 March 2011 – 13 March 2011)

VISITS ABROAD

- Pohanka, M. (10th International Conference on Alzheimer's and Parkinson's Diseases, Barcelona, 09 March 2011 – 13 March 2011)
- Řehulka, P. (EuroKUP COST Meeting, Madrid, 16 June 2011 – 20 June 2011)
- Střítecká, H. (11th European Nutrition Conference FENS, Madrid, 26 October 2011 – 30 October 2011)
- Vaněk, J. (European Conference of COMPUTER SCIENCE (ECCS'11), Puerto de la Cruz, 09 December 2011 – 13 December 2011)
- Žďárová Karasová, J. (10th International Conference on Alzheimer's and Parkinson's Diseases, Barcelona, 09 March 2011 – 13 March 2011)

Sweden

- Fajfrová, J. (33rd Congress of Clinical Nutrition and Metabolism, Gothenburg, 03 September 2011 – 06 September 2011)
- Fajfrová, J. (ESPEN Life–Long Learning Programme – Nutrition in Obesity, Gothenburg, 03 September 2011 – 03 September 2011)
- Fajfrová, J. (ESPEN Life–Long Learning Programme – Sports and Nutrition, Gothenburg, 02 September 2011 – 02 September 2011)
- Strašková, A. (5th National Infection Biology Meeting, Umea, 24 November 2011 – 25 November 2011)

Switzerland

- Frank, M. (AOTrauma Course – Pelvic, Davos, 10 December 2011 – 16 December 2011)
- Řehulka, P. (HUPO 10th Annual World Congress, Geneva, 03 September 2011 – 08 September 2011)
- Šmejkal, K. (AOTrauma Course, Davos, 10 December 2011 – 16 December 2011)
- Štětina, R. (5th Joint Meeting of European Advisory Committees on Biosafety in the Field of Contained Use and Deliberate Release of GMOs, Bern, 23 May 2011 – 24 May 2011)

The Netherlands

- Kubelková, K. (ESF–JSPS Frontier Science Conference for Young Researchers, Cutting Edge Immunology and its Clinical application, Hulshorst, 01 May 2011 – 06 May 2011)
- Smetana, J. (ESPID, Hague, 07 June 2011 – 10 June 2011)
- Tichý, A. (CBRN JAT exercise 2011, Brunssum, 30 November 2011 – 12 November 2011)

Turkey

- Hlúbik, P. (ECO 2011, Istanbul, 25 May 2011 – 28 May 2011)
- Střítecká, H. (ECO 2011, Istanbul, 25 May 2011 – 28 May 2011)

United Kingdom

- Cabal, J. (ORCHIDS Final Workshop, London, 18 April 2011 – 21 April 2011)
- Dobeš, D. (33rd Charing Cross Symposium, London, 08 April 2011 – 13 April 2011)
- Hernychová, L. (Proteome analysis, Edinburgh, Scotland, 07 November 2011 – 17 November 2011)
- Kuča, K. (ORCHIDS End of Project Workshop, London, 20 April 2011 – 20 April 2011)
- Kuča, K. (Nicotinic Acetylcholine Receptors 2011 Conference, Hinxton, 18 May 2011 – 21 May 2011)
- Kuča, K. (12th Annual ART Network Conference, Leeds, 15 March 2011 – 18 March 2011)
- Lochman, P. (ATLS Course for Instructors, Nottingham, 25 September 2011 – 02 October 2011)
- Musílek, K. (12th Annual ART Network Conference, Leeds, 15 March 2011 – 18 March 2011)
- Musílek, K. (Nicotinic Acetylcholine Receptors 2011 Conference, Hinxton, 18 May 2011 – 21 May 2011)
- Soukup, O. (Acquaintance with the Methodology, Leicester, 21 November 2011 – 30 November 2011)
- Šmejkal, K. (ATLS Course for Instructors, Nottingham, 25 September 2011 – 02 October 2011)

United States

- Balonová, L. (Structural Analysis of Francisella tularensis Glycoproteins, Bloomington, 24 September 2011 – 20 October 2011)
- Boštík, P. (Invited Speaker and Collaborative Work on a Project, Atlanta, 24 July 2011 – 05 August 2011)
- Boštíková, V. (A Genome Wide Comparative Evolutionary Analysis of VZV. CDC, Atlanta, 27 July 2011 – 27 July 2011)
- Boštíková, V. (VZV and HZ in Czech Republic. CDC, Atlanta, 28 July 2011 – 28 July 2011)
- Boštíková, V. (Varicella zoster Virus Latency. AMVIS report. Vaccine Center Yerkes, Atlanta, 26 July 2011 – 26 July 2011)
- Haman, L. (16th Boston Atrial Fibrillation Symposium, Boston, 12 January 2011 – 16 January 2011)
- Horáček, J. (53rd Annual Meeting of American Society of Hematology (ASH), San Diego, 07 December 2011 – 15 December 2011)
- Kassa, J. (2011 Chemical and Biological Defense Science and Technology Conference, Las Vegas, 13 November 2011 – 19 November 2011)

- Kubelková, K. (IL–23 and IL–17 in Vaccine–Induced Protection to Intracellular Bacteria, Washington DC, 01 April 2010 – 30 September 2011)
- Kubelková, K. (International Conference and Exhibition on Vaccine and Vaccination, Philadelphia, 22 November 2011 – 24 November 2011)
- Kuča, K. (American Chemical Society 242nd National Meeting & Exposition, Denver, 28 August 2011 – 01 September 2011)
- Kuča, K. (Clinical Trials on Alzheimer’s Disease, San Diego, 03 November 2011 – 05 November 2011)
- Kuča, K. (2011 Chemical and Biological Defense Science and Technology Conference, Las Vegas, 14 November 2011 – 18 November 2011)
- Lenčo, J. (Proteomics, Washington, DC, 18 April 2011 – 27 May 2011)
- Misík, J. (2011 Chemical and Biological Defense Science and Technology Conference, Las Vegas, 13 November 2011 – 19 November 2011)
- Musílek, K. (2011 Chemical and Biological Defense Science and Technology Conference, Las Vegas, 14 November 2011 – 18 November 2011)
- Musílek, K. (American Chemical Society Fall Meeting 2011, Denver, 27 August 2011 – 02 September 2011)
- Pohanka, M. (2011 Chemical and Biological Defense Science and Technology Conference, Las Vegas, 14 November 2011 – 18 November 2011)
- Šepsová, V. (2011 Chemical and Biological Defense Science and Technology Conference, Las Vegas, 13 November 2011 – 19 November 2011)
- Šinkorová, Z. (Cyto2011, Baltimore, 21 May 2011 – 25 May 2011)
- Tichý, A. (2011 Chemical and Biological Defense Science and Technology Conference, Las Vegas, 14 November 2011 – 18 November 2011)
- Zárybnická, L. (2011 Chemical and Biological Defense Science and Technology Conference, Las Vegas, 14 November 2011 – 18 November 2011)
- Žďárová Karasová, J. (2011 Chemical and Biological Defense Science and Technology Conference, Las Vegas, 14 November 2011 – 18 November 2011)

OBITUARY

COL (Ret.) Professor Bohumil KONEČNÝ, M.D., CSc.

COL (Ret.) Bohumil Konečný, M.D., CSc., died on March the 12th, 2010, after a long and severe illness. Prof. Konečný was a significant proponent of Czech military medicine, particularly of field surgery. He was a long-term Head of the Chair of Field Surgery at the Purkinje Military Medical Academy in Hradec Králové, the Surgeon-in-Chief of the Czech Military Medical Corps; he was also Head of the 2nd Department. of Surgery at Charles University, Teaching Hospital, in Hradec Králové. Here are some highlights of his career.

Bohumil Konečný was born on August 3rd, 1929, in Brodek u Konice, in the Prostějov district to a teacher's family. After leaving grammar-school in Olomouc, in 1948, he started his medical studies also in Olomouc. In 1951, when the Purkinje Military Medical Academy in Hradec Králové was established, he joined the Military, and continued his studies there. In 1953, he graduated from the Academy, with the rank of Captain, and the status of military physician. He then spent all his medical and military career within the confines of the Academy and the city of Hradec Králové. Under the leadership of Professors Bedrna, Procházka, Lichtenberg and Beneš he gained rapidly in theoretical knowledge and practical experience. In 1957, he passed his first accreditation in general surgery, and in 1961, he gained his second accreditation with the status of medical-board authorized general surgeon. He orientated particularly towards surgery of the digestive tract and biliary ducts. He also started working intensively in scientific and research fields. In 1968, he achieved the award of CSc. (equivalent to a Ph.D.); and in 1975, he became Associate Professor of Surgery.

Professor Konečný was deeply involved in research on contaminated gunshot-wounds, and other surgical infections in surgery, burns-wounds and, at that time, prevalent, radiological and chemical surgical mixtures. In March 1985, COL Konečný was nominated Professor of surgery and he became Head of the 2nd Department of surgery at the Teaching hospital. Here he worked, simultaneously also as Head of the Chair of field surgery of the military medical academy, until 1990. After his retirement, he continued to work as an out-patient doctor until 1994. For a few more years, he also retained the position of Head of the revision board in a health insurance company.

COL Prof. Konečný was a very active, hard-working surgeon who was demanding of both himself and of his colleagues. The ethos behind all his activities was always the well-being of patients, and of providing the best possible care for his department as well as on wounded soldiers in field-conditions.

OBITUARY

Prof. Konečný was an open-minded, friendly colleague who commanded great respect and possessed natural authority among all military physicians and civilian surgeons too.

COL (Ret.) Professor Bohumil Konečný died on March 12th, 2010. His work's legacy continues in the work, activities and lives of many of his pupils and successors in the field of military as well as that of general civilian surgery.

The author of these obituary:

Assoc. Prof. Leo Klein, M.D., CSc., Head, Chair of Field Surgery

WORKSHOPS, COURSES, RESIDENCIES AT THE FACULTY IN 2011

Military Hygiene

- Refresher course – teachings about foodstaf, 05 April 2011 – 07 April 2011
- Basic course – hygienic support to missions, 01 March 2011 – 03 March 2011
- Specialization refresher course in Safety and health protection at work, 14 February 2011 – 18 February 2011, 11 April 2011 – 15 April 2011, 06 June 2011 – 10 June 2011, 19 September 2011 – 23 September 2011, 10 October 2011 – 14 September 2011

Radiobiology

- Refresher course in radiobiology for health personnel, 23 May 2011 – 24 May 2011

Language Courses

- Intensive language course – English (STANAG 2), 13 September 2010 – 28 January 2011
- Refresher language courses – English (STANAG 2), 08 March 2010 – 30 April 2011, 22 March 2010 – 07 May 2011
- Intensive language courses – English (STANAG 1), 28 February 2011 – 27 May 2011, 04 April 2011 – 01 July 2011, 12 September 2011 – 02 December 2011
- Combined language courses – English (STANAG 3), 12 September 2011 – 01 June 2012, 13 September 2010 – 27 May 2011
- Refresher language courses – English (STANAG 1), 07 March 2011 – 15 April 2011, 19 September 2011 – 28 October 2011
- Combined language courses – French (STANAG 2), 13 September 2010 – 10 June 2011
- Combined language courses – French (STANAG 1), 12 September 2011 – 08 June 2012
- Combined language courses – English (STANAG 2), 05 September 2011 – 01 June 2012, 06 September 2010 – 03 June 2011

Military Medical Service Organization

- Senior staff officer course, 13 September 2011 – 22 June 2011
- Refresher course for members of medical service before mission abroad, 21 March 2011 – 22 March 2011

WORKSHOPS, COURSES, RESIDENCIES AT THE FACULTY IN 2011

- Specialized warrent officer's course, 28 March 2011 – 17 June 2011, 29 September 2011 – 16 December 2011
- Senior staff officer combined course, 13 September 2010 – 22 June 2012
- Refresher course of aeromedical evacuation, 12 April 2011 – 14 April 2012
- MEDEVAC tefresher course – use of helicopter, 03 October 2011 – 07 October 2011

General Medicine

- Refresher course in battlefield advanced trauma life support, 04 April 2011 – 06 April 2011, 14 November 2011 – 16 November 2011
- Refresher course in battlefield advanced trauma life support BATL/BARTS, 04 April 2011 – 06 April 2011, 14 November 2011 – 16 November 2011
- Refresher coourse – transportation of casualties in the field, 26 April 2011 – 29 April 2011
- Basic course in first aid in the field, 18 April 2011 – 22 April 2011, 26 April 2011 – 02 May 2011, 02 May 2011 – 06 May 2011, 09 May 2011 – 13 May 2011, 06 June 2011 – 10 June 2011, 20 June 2011 – 24 June 2011, 27 June 2011 – 01 July 2011, 03 January 2011 – 07 January 2011, 10 January 2011 – 14 January 2011, 17 January 2011 – 21 January 2011, 07 February 2011 – 11 February 2011, 21 February 2011 – 25 February 2011, 07 March 2011 – 11 March 2011, 04 April 2011 – 08 April 2011, 04 April 2011 – 11 April 2011, 03 January 2011 – 07 January 2011, 29 August 2011 – 02 September 2011, 26 September 2011 – 30 September 2011, 21 November 2011 – 25 November 2011, 28 November 2011 – 02 December 2011
- Basic course in first aid in the field for Police of the Czech Republic, 28 February 2011 – 04 March 2011
- Innovative course – Battlefield Advanced Resuscitation Techniques and Skills (R – BARTS), 07 March 2011 – 09 March 2011, 19 September 2011 – 21 September 2011
- Refresher course – defibrilators and their operation, 17 February 2011 – 17 February 2011, 22 September 2011 – 22 September 2011
- Basic course in first aid in the field for sports instructors, 07 November 2011 – 11 November 2011, 05 September 2011 – 09 September 2011
- Specialized course for CLS instructors, 11 April 2011 – 15 April 2011, 16 May 2011 – 20 May 2011, 11 July 2011 – 15 July 2011, 17 October 2011 – 21 October 2011

WORKSHOPS, COURSES, RESIDENCIES AT THE FACULTY IN 2011

- Basic course – BARTS for CLS – extended first aid, 14 March 2011 – 01 April 2011, 24 January 2011 – 11 February 2011, 02 May 2011 – 13 May 2011, 06 June 2011 – 17 June 2011, 03 October 2011 – 14 October 2011, 24 October 2011 – 04 November 2011, 05 December 2011 – 16 December 2011
- Innovative course – Battlefield Advanced Trauma Life Support (R – BATLS), 07 March 2011 – 09 March 2012, 19 September 2011 – 21 September 2011
- Qualification course – Driver of the vehicle for transportation of the injured and sick, 16 May 2011 – 01 July 2011

Computing

- Basic course – Information technologies for general practitioners, 09 May 2011 – 13 May 2011, 21 November 2011 – 25 November 2011
- Basic course – MS WINDOWS and MS WORD, 04 April 2011 – 08 April 2011, 13 June 2011 – 17 June 2011
- Refresher course in MS WORD, 17 October 2011 – 19 October 2011
- Basic Course – Statistics and data processing in MS Excel, 31 January 2011 – 04 February 2011, 02 May 2011 – 06 May 2011, 03 October 2011 – 07 October 2011
- Basic course – MS ACCES, 17 January 2011 – 21 January 2011

Military Toxicology

- Study stay focused on improvement of methodology concerning field analysis of toxic chemical warfare agents, 04 April 2011 – 08 April 2011

Multidisciplinary Studies

- Preparatory course for entrance examination, 06 June 2011 – 11 June 2011
- Refresher course – prevention of burn out syndrom, 07 March 2011 – 09 March 2011
- Refresher course – dealing with extremely dangerous poisons, drugs and psychotropic substances, 17 January 2011 – 20 January 2011, 09 May 2011 – 12 May 2011, 13 June 2011 – 16 June 2011, 31 October 2011 – 03 November 2011, 17 January 2011 – 20 January 2011, 09 May 2011 – 12 May 2011, 13 June 2011 – 16 September 2011, 31 October 2011 – 03 November 2011
- Refresher course for health personnel – psychology and crisis interventions, management of difficult patients, 14 March 2011 – 16 March 2011, 17 October 2011 – 19 October 2011

INTERNATIONAL COOPERATION

Cooperation at the military medical facility level

Belgium	<ul style="list-style-type: none">• R. Chlíbek – NATO – Biological Medical Advisory Committee, Brussels• R. Chlíbek – NATO – Human Factor and Medicine Panel (Research and Technology Organisation), Brussels
Brazil	<ul style="list-style-type: none">• Salvador, Bahia• Universidade Federal de Santa Catarina, Florianopolis
Bulgaria	<ul style="list-style-type: none">• Department of Toxicology of NBC Research Centre of Military Medical Academy, Sofia
Croatia	<ul style="list-style-type: none">• Department of Microbiology and Parasitology, University of Rijeka, Rijeka
France	<ul style="list-style-type: none">• Health Service and Army Research Center (C.R.S.S.A.), La Tronche (Grenoble)• School of the Health Service of the Armies of Lyon-Bron (E.S.S.A. Lyon), Lyon
Germany	<ul style="list-style-type: none">• Institute of Microbiology of Federal Armed Forces Medical Academy, Munich• Institute of Pharmacology and Toxicology of Federal Armed Forces Medical Academy, Munich• NATO School, Oberammergau
India	<ul style="list-style-type: none">• Pandit Ravishankar Shukla University, Raipur
Poland	<ul style="list-style-type: none">• Military Institute of Hygiene and Epidemiology, Warsaw
Slovakia	<ul style="list-style-type: none">• Air Forces Hospital, Košice• Central Military Hospital, Ružomberok• Military Health Service, Bratislava• Military Institute of Hygiene and Epidemiology, Bratislava
Sweden	<ul style="list-style-type: none">• FOI NBC-Defence, Umea• Swedish Defence Research Agency, Dr. Artursson – Department of Threat Assessment, Division of NBC Defence, Umea
The Netherlands	<ul style="list-style-type: none">• Division of Toxicology, TNO Prins Maurits Laboratory, Rijswijk• Chemical and Biological Division, TNO Prins Maurits Laboratory, Rijswijk

Turkey	• Gulhane Military Medical Academy, Ankara
Ukraine	• Military Medical Corps, Kiev
United Kingdom	• Defence Medical Services Training Centre Keogh Barracks in Aldershot, Ash Vale • DRDC, Suffield
United States	• United States Defense Institute of International Legal Studies, Newport

Scientific cooperation with civilian institutions abroad (on the basis of individual agreements and joint projects)

Austria	• Baxter, Vienna • Center of Biomolecular Medicine & Pharmacology, Medical University of Vienna, Vienna • Institute of Chemical Technologies and Analytics, Vienna University of Technology, Vienna
Belgium	• GlaxoSmithKline Biologicals, Rixensart
Croatia	• Institute for Medical Research and Occupational Health, Zagreb
France	• Aventis Pasteur MSD, Lyon • Saint Louis Hospital, Paris
Germany	• Department of Solid States Nuclear Physics, University of Leipzig, Leipzig • Max-Planck Institute, Berlin
Hungary	• Semmelweis University, Budapest
Mongolia	• National Research Center for Infectious Diseases, Ministry of Health, Ulaanbaatar
Norway	• Department of Nutrition, Medical Faculty, University of Oslo, Oslo
Poland	• WIHE, Dr Zdanowski – Zakład Farmakologii i Toksykologii, Warszawa
Portugal	• University of Coimbra, Department of Pharmacology, Coimbra
Republic of Korea	• Korea Research Institute of Chemical Technology, Daejeon • Medicinal Science Division, Korea Research Institute of Chemical Technology, Daejeon
Russian Federation	• M. V. Lomonosov Moscow State University, Moskva

INTERNATIONAL COOPERATION

- | | |
|----------------------|--|
| Slovakia | <ul style="list-style-type: none">• Chemical Institute, Slovak Academy of Sciences, Bratislava• Institute of Experimental Oncology, Bratislava• P. J. Šafárik University, Košice• Slovak Medical University, Bratislava• Virological Institute, Slovak Academy of Sciences, Bratislava |
| Sweden | <ul style="list-style-type: none">• University of Umea, Umea |
| Switzerland | <ul style="list-style-type: none">• Institute of Molecular Systems Biology, Zurich• Swiss Institute of Technology, Zürich |
| United Arab Emirates | <ul style="list-style-type: none">• United Arab Emirates University, Prof. Lorke – Faculty of Medicine and Health Sciences – Department of Anatomy, Al-Ain |
| United Kingdom | <ul style="list-style-type: none">• Health Protection Agency, Porton Down• University of St. Andrews, St. Andrews, Scotland |
| United States | <ul style="list-style-type: none">• Emory University, Department of Pathology, Atlanta• Merck & Co., Inc, Whitehouse Station• MMRHVLB/CCID/CDC, Atlanta• University of Washington, Seattle• Vital Probes, Mayfield, Pa• Walter Reed Army Institute of Research, Silver Spring• Wyeth, New Jersey |

Participation in international projects and networks

- | | |
|---------------|--|
| Belgium | <ul style="list-style-type: none">• European Defence Agency, Brussels |
| Sweden | <ul style="list-style-type: none">• European Programme for Intervention Epidemiology Training, European Centre for Disease Prevention and Control, Stockholm |
| Switzerland | <ul style="list-style-type: none">• European Study Group on Nosocomial Infection |
| United States | <ul style="list-style-type: none">• Indiana University, Bloomington, Indiana• National Institute of Health, Food and Drug Administration, Centre of Biological Evaluation and Research, Bethesda, Maryland• U.S. Army Medical Research Institute of Infectious Disease, Fort Detrick |

Cooperation in the field of disaster medicine

- | | |
|----------------|---|
| United Kingdom | <ul style="list-style-type: none">• Royal Centre for Defence Medicine, Birmingham |
|----------------|---|

Other expert commissions

- J. Bajgar – member of Ad hoc Group of the State Parties to the Convention on the Prohibition of the Development, Production and Stockpiling of Biological (Bacteriological) and Toxin Weapons
- R. Blanař – member of NATO RTO, Human Factors and Medicine – Exploratory Team „Information Technology and Models for Crisis Detection, Monitoring and Response“
- P. Bořtík – chairman of RECOOP Association Select Committee
- P. Bořtík – national coordinator for CBRN of Cap Tech ESM04 EDA
- P. Bořtík – member of Regional Cooperation for Health Science and Technology
- P. Bořtík – member of Editorial board of the Open Infectious Diseases Journal
- P. Bořtík – member of the Association of UICC Fellows
- P. Bořtík – member of the American Association of Immunologists (AAI) R. Chlábek – member of C.O.P.E. - Consensus on Pertussis Booster Vaccination in Europe
- P. Bořtík – member of the Federation of American Societies for Experimental Biology
- R. Chlábek – member of GPI - Global Pertussis Initiative
- R. Chlábek – member of NATO – Biological Medical Advisory Committee
- R. Chlábek – member of NATO HFMP (Human Factor Medicine Panel)
- R. Chlábek – member of Vaccination Advisory Board GlaxoSmithKline Biologicals
- R. Chlábek – supervisor of CEVAG (Central European Vaccination Awareness Group)
- R. Chlábek – member of Central and Eastern Europe Pertussis Awareness Group
- L. Jebavý – member of European Group for Blood and Marrow Transplantation
- L. Jebavý – member of Multinational Association of Supportive Care in Cancer
- L. Jebavý – member of European Study Group on Nosocomial Infections
- J. Kassa – member of NATO CBRN Medical Working Group

INTERNATIONAL COOPERATION

- J. Kassa – member of Editorial board of Journal of Medical Chemical, Biological and Radiological Defence
- K. Kuča – member of Editorial board of Journal of Enzyme Inhibition and Medicinal Chemistry
- K. Kuča – member of Editorial board of Surgical Sciences (Scientific Research Publishing, Inc. USA)
- K. Kuča – member of Editorial board of Research in Pharmaceutical Biotechnology (Academic Journals)
- K. Kuča – member of Editorial board of ISRN Pharmaceutics (Hindawi)
- K. Kuča – member of Editorial board of the Open Enzyme Inhibition Journal (Bentham)
- K. Kuča – consultant of Research Network Management Working Group; Cedar-Sinai RECOOP HST Consortium
- K. Kuča – consultant of Guidepoint Global Advisors
- R. Prymula – member of (European Scientific Working Group on Influenza)
- R. Prymula – member of Global Advisory Board on Pneumococcal Vaccines
- R. Prymula – chairman of CEVAG (Central European Vaccine Advisory Group)
- R. Prymula – member of Management Board of ECDC
- R. Prymula – member of European Rotavirus Speakers' Bureau
- R. Prymula – member of Steering Committee ECDC
- R. Prymula – member of CEEPAG
- J. Smetana – member of NATO COMEDS MMT EP
- J. Smetana – member of Rotavirus Vaccination Advisory Board GlaxoSmithKline Biologicals
- M. Špliňo – member of Advisory Council of International Biographical Centre
- M. Špliňo – member of UN Commission in NY for the control and adherence to the UN Security Council in Iraq
- M. Špliňo – member of European Study Group on Nosocomial Infection
- R. Štětina – evaluator of Stage 1 Proposals fp7-health-2012-innovation-1
- R. Štětina – member of Working Group Asperillus (European Food Safety Authority)

SCIENTIFIC AND RESEARCH ACTIVITIES

Completed full professorships

Odrážka Karel

Radiological Centre Multiscan, Department of Radiation Oncology, Regional Hospital Pardubice

area of specialization: Military Radiobiology

professor's lecture: The concept of research work and teaching in the discipline of Military Radiobiology

Completed associate professorships

Plíšek Stanislav

Department of Infectious Disease, University Hospital Hradec Králové

area of specialization: Hygiene, Preventive Medicine and Epidemiology

habilitation thesis: Predictive factors in the therapy of hepatitis C

habilitation lecture: Possibilities of urgent post-exposure prophylaxis for potential HIV infections

Dissertation defences

Škraňka Vladimír

The Specialized Therapeutic and Cardiac Rehabilitation Institute, the Spa of Teplice nad Bečvou

study programmes: Military Internal Medicine

dissertation: Non pharmaceutical treatment of the metabolic syndrome, The results of the MS BALNEO study (Metabolic Syndrome and BALNEOtherapy)

Smíšková Dita

1st Department of Infectious Diseases, 2nd Faculty of Medicine, Charles University in Prague, University Hospital Na Bulovce

study programmes: Epidemiology

dissertation: Paralytic complications of aseptic central nervous system infections

Konečná Klára

Charles University in Prague, Faculty of Pharmacy in Hradec Králové

study programmes: Infection Biology

dissertation: Proteome analysis of secreted proteins of *Francisella tularensis*

Soukup Ondřej

Faculty of Military Health Sciences, University of Defence, Hradec Králové

study programmes: Toxicology

dissertation: Interaction of organophosphorus poisoning antidotes with muscarinic and nicotinic receptors

Zálabská Eva

Department of Clinical Microbiology, Regional Hospital Pardubice

study programmes: Medical Microbiology

dissertation: Laboratory diagnostics of *Helicobacter pylori* – comparison of identification methods

Tambor Vojtěch

Institut of Molecular Pathology, Faculty of Military Health Sciences, University of Defence, Hradec Králové

study programmes: Infection Biology

dissertation: Identification of potential intraamniotic infection and inflammation biomarkers in amniotic fluid from preterm birth patients

THE REVIEW OF RESEARCH PROJECTS CARRIED OUT AT THE FACULTY OF MILITARY HEALTH SCIENCES IN 2011

THE INTERNAL GRANT AGENCY OF THE CZECH REPUBLIC HEALTH SERVICE

Principal investigators

Jiří Stulík

(NS9747) Development of new anti-tularemic vaccine on the basis of elucidation of molecular mechanism of tularemia pathogenesis

Kamil Kuča

(NT12062) Preparation and biological evaluation of new therapeutics against to pesticides

Co-investigators

Lukáš Červený

(NS9747) Development of new anti-tularemic vaccine on the basis of elucidation of molecular mechanism of tularemia pathogenesis

Jana Fajfrová

(NS10363) Hemodynamic, clinical and biochemical monitoring of patients before and after transjugular intrahepatic portosystemic shunt (TIPS), part. IV

Pavol Hlúbik

(NS10363) Hemodynamic, clinical and biochemical monitoring of patients before and after transjugular intrahepatic portosystemic shunt (TIPS), part. IV

Martin Hubálek

(NS10382) Identification of biomarkers of intraamniotic infection and a syndrom of inflammatory fetus response in amniotic fluid: proteome approach

Juraj Lenčo

(NS10382) Identification of biomarkers of intraamniotic infection and a syndrom of inflammatory fetus response in amniotic fluid: proteome approach

Martin Hubálek

(NS9747) Development of new anti-tularemia vaccine on the basis of elucidation of molecular mechanism of tularemia pathogenesis

Zuzana Kročová

(NS9747) Development of new anti-tularemia vaccine on the basis of elucidation of molecular mechanism of tularemia pathogenesis

Aleš Macela

(NS9747) Development of new anti-tularemia vaccine on the basis of elucidation of molecular mechanism of tularemia pathogenesis

Adéla Strašková

(NS9747) Development of new anti-tularemia vaccine on the basis of elucidation of molecular mechanism of tularemia pathogenesis

Roman Prymula

(NS9643) The presence of sortase enzymes SrtB, SrtC and SrtD in clinical isolates of *Streptococcus pneumoniae* and their role in the virulence and resistance to antimicrobials

Daniel Jun

(NT12062) Preparation and biological evaluation of new therapeutics against pesticides

Miroslav Pohanka

(NT12062) Preparation and biological evaluation of new therapeutics against pesticides

Jana Žďárová Karasová

(NT12062) Preparation and biological evaluation of new therapeutics against pesticides

**EUROPEAN GROUP FOR BLOOD AND MARROW
TRANSPLANTATION**

Co-investigators

Jan Horáček

(RIC-MUD) Outcomes of reduced intensity allogeneic matched unrelated donor (RIC-MUD) hematopoietic stem cell transplantation (HSCT) in patients with acute lymphoblastic leukaemia (ALL)

THE EXECUTIVE AGENCY FOR HEALTH AND CONSUMERS

Principal investigators

Kamil Kuča

(100940) ORCHIDS – Evaluation, optimisation, trialling and modelling procedures for mass casualty

Co-investigators

Jiří Cabal

(100940) ORCHIDS – Evaluation, optimisation, trialling and modelling procedures for mass casualty

THE GLAXOSMITHKLINE BIOLOGICALS CO.

Principal investigators

Roman Chlábek

(110390 (ZOSTER-006)) A phase III, randomized, observer-blind, placebocontrolled, multicentre, clinical vaccination trial to assess the prophylactic efficacy, safety, and immunogenicity of GSK Biologicals' herpes zoster gE/AS01B vaccine when administered intramuscularly on a 0, 2-month schedule in adults aged 50 years and older

Roman Chlábek

(113077 (ZOSTER-022)) A phase III, randomized, observer-blind, placebo controlled, multicentre, clinical vaccination trial to assess the prophylactic efficacy, safety and immunogenicity of GSK Biologicals' herpes zoster gE/AS01B vaccine when administered intramuscularly on a 0, 2- month schedule in adults aged 70 years and older

Roman Chlábek

(115790 EPI-Pertussis) Epidemiological observational prospective cohort study to evaluate the sero-prevalence of Bordetella pertussis in adults in the Czech Republic

Roman Chlábek

(114825, Zoster-024) An open, phase II long term extension study to evaluate the immune responses to and safety of GSK Biologicals' candidate herpes zoster vaccine (gE/AS01B) at Months 48, 60 and 72 post-vaccination in healthy subjects aged 60 years of age and older

THE REVIEW OF RESEARCH PROJECTS CARRIED OUT AT THE FMHS

Co-investigators

Jan Smetana

(110390 (ZOSTER-006)) A phase III, randomized, observer-blind, placebocontrolled, multicentre, clinical vaccination trial to assess the prophylactic efficacy, safety, and immunogenicity of GSK Biologicals' herpes zoster gE/AS01B vaccine when administered intramuscularly on a 0, 2-month schedule in adults aged 50 years and older

Jan Smetana

(113077 (ZOSTER-022)) A phase III, randomized, observer-blind, placebo controlled, multicentre, clinical vaccination trial to assess the prophylactic efficacy, safety and immunogenicity of GSK Biologicals' herpes zoster gE/AS01B vaccine when administered intramuscularly on a 0, 2- month schedule in adults aged 70 years and older

Jan Smetana

(114825, Zoster-024) An open, phase II long term extension study to evaluate the immune responses to and safety of GSK Biologicals' candidate herpes zoster vaccine (gE/AS01B) at Months 48, 60 and 72 post-vaccination in healthy subjects aged 60 years of age and older

Jan Smetana

(115790 EPI-Pertussis) Epidemiological observational prospective cohort study to evaluate the sero-prevalence of Bordetella pertussis in adults in the Czech Republic

THE MINISTRY OF INDUSTRY AND TRADE

Co-investigators

Lenka Hernychová

(FR-TI1/292) Molecular diagnostics of bacterial antigens

THE MINISTRY OF EDUCATION, YOUTH AND SPORTS

Principal investigators

Kamil Musílek

(ME09086) Development of novel antidotal treatment against organo-phosphorus pesticides

Pavel Boštík

(LH11019) Correlation of expression of KIR alleles in NK cells in GALT and disease progression in SIV non-human primate model of AIDS

Miroslav Pohanka

(LH11023) Improvement of vaccination efficacy by cholinergic anti-inflammatory pathway

Co-investigators

Juraj Lenčo

(ME10025) Proteomic identification of biomarkers of intraamniotic inflammation in amniotic fluid in preterm birth patients

Kamil Kuča

(ME09086) Development of novel antidotal treatment against organophosphorus pesticides

Miroslav Pohanka

(ME09086) Development of novel antidotal treatment against organophosphorus pesticides

Jana Žďárová Karasová

(ME09086) Development of novel antidotal treatment against organophosphorus pesticides

Vanda Boštková

(LH11019) Correlation of expression of KIR alleles in NK cells in GALT and disease progression in SIV non-human primate model of AIDS

Pavel Boštík

(LH11023) Improvement of vaccination efficacy by cholinergic anti-inflammatory pathway

Michal Pavlík

(LH11023) Improvement of vaccination efficacy by cholinergic anti-inflammatory pathway

Martina Hrabínová

(LH11023) Improvement of vaccination efficacy by cholinergic anti-inflammatory pathway

Kamil Kuča

(LH11023) Improvement of vaccination efficacy by cholinergic anti-inflammatory pathway

THE CZECH REPUBLIC GRANT AGENCY

Principal investigators

Kamil Musílek

(GP203/09/P130) Development of novel acetylcholinesterase inhibitors as treatment of Myasthenia Gravis

Juraj Lenčo

(GP301/09/P241) Development of proteomic methods for deeper quantitative analysis of plasma proteome

Zuzana Kročová

(GAP302/11/1631) The role of B cells during natural and adaptive phase of immune response against Francisella tularensis infection in mice

Kamil Kuča

(GAP303/11/1907) Novel inhibitors of acetylcholinesterase derived from 7-MEOTA – potential Alzheimer's disease drugs

Pavel Bošík

(GAP304/10/1161) The role of virus associated cellular proteins in T-lymphocyte dysfunction

Co-investigators

Lenka Hernychová

(GA203/09/0857) New analytical approaches for identification of proteins with significant attributes for virulence and pathogenicity of bacteria

Martin Hubálek

(GAP304/10/0868) The proteomics-based study on molecular mechanisms of early lymph node metastases formation in low grade breast cancer

Zuzana Kročová

(GAP304/10/1161) The role of virus associated cellular proteins in T-lymphocyte dysfunction

Martin Hubálek

(GAP304/10/1161) The role of virus associated cellular proteins in T-lymphocyte dysfunction

Pavel Řehulka

(GAP304/10/1161) The role of virus associated cellular proteins in T-lymphocyte dysfunction

Vanda Bošťíková

(GAP304/10/1161) The role of virus associated cellular proteins in T-lymphocyte dysfunction

Lukáš Červený

(GAP304/10/1161) The role of virus associated cellular proteins in T-lymphocyte dysfunction

Jaroslav Pejchal

(GAP304/10/1161) The role of virus associated cellular proteins in T-lymphocyte dysfunction

THE NOVARTIS

Principal investigators

Roman Prymula

(V72P13E2) A phase 3, open-label, multi-center, extension study of V72P13E1 to assess antibody persistence at one year after a fourth dose boost or two catch-up doses of Novartis meningococcal B recombinant vaccine administered starting at 12 months of age and to evaluate the response to a third dose boost or two catch-up doses starting at 24 months of age

Roman Prymula

(V72P12E1) A phase 2b, open label, multi-center, extension study to evaluate the safety, tolerability and immunogenicity of a booster dose of Novartis meningococcal B recombinant vaccine administered at 12, 18 or 24 months of age in subjects who previously received a three-dose primary series of the Novartis meningococcal B recombinant vaccine as infants in study V72P12

Roman Prymula

(2009-010106-11) A phase 2 partially observer-blind randomized controlled multi-center dose-ranging and formulation-finding study of a new Novartis Meningococcal B Recombinant Vaccine evaluating the safety and immunogenicity when given concomitantly with routine vaccines in 2-month-old infants

Co-investigators

Roman Chlíbek

(V72P13E2) A phase 3, open-label, multi-center, extension study of V72P13E1 to assess antibody persistence at one year after a fourth dose boost or two catch-up doses of Novartis meningococcal B recombinant

THE REVIEW OF RESEARCH PROJECTS CARRIED OUT AT THE FMHS

vaccine administered starting at 12 months of age and to evaluate the response to a third dose boost or two catch-up doses starting at 24 months of age

Roman Chlíbek

(V72P12E1) A phase 2b, open label, multi-center, extension study to evaluate the safety, tolerability and immunogenicity of a booster dose of Novartis meningococcal B recombinant vaccine administered at 12, 18 or 24 months of age in subjects who previously received a three-dose primary series of the Novartis meningococcal B recombinant vaccine as infants in study V72P12

Roman Chlíbek

(2009-010106-11) A phase 2 partially observer-blind randomized controlled multi-center dose-ranging and formulation-finding study of a new Novartis Meningococcal B Recombinant Vaccine evaluating the safety and immunogenicity when given concomitantly with routine vaccines in 2-month-old infants

PLAN DE COOPÉRATION FRANCO-TCHÈQUE AND GENERAL DIRECTION FOR ORDNANCE

Co-investigators

Daniel Jun

(16A03-FR20/08co501) Catalytic bioscavengers of neurotoxic organophosphates: Optimization and functionalization

DEFENSE THREAT REDUCTION AGENCY

Principal investigators

Jiří Stulík

(D-CZ-10-0001) Identification of novel Francisella tularensis targets for subunit vaccine development

THE ROCHE CO.

Principal investigators

Vanda Boštíková

(VZV) Whole varicella-zoster virus (VZV) genome sequencing of individual wild type and vaccine strains using GS Junior Benchtop System

Co-investigators

Pavel Boštík

(VZV) Whole varicella-zoster virus (VZV) genome sequencing of individual wild type and vaccine strains using GS Junior Benchtop System

Jan Smetana

(VZV) Whole varicella-zoster virus (VZV) genome sequencing of individual wild type and vaccine strains using GS Junior Benchtop System

MERCK SHARP & DOHME CORP

Co-investigators

Jan Horáček

(V212) A phase III, double-blind, randomized, placebo-controlled, multicenter clinical trial to study the safety, tolerability, efficacy, and immunogenicity of V212 in recipients of autologous hematopoietic cell transplants

DEFENCE RESEARCH PROJECTS – CONTINUING IN 2011

Jiří Stulík

(OVUOFVZ200808) FRANCIS – Development of new prophylactic tools against Francisella tularensis infection

Jiřina Vávrová

(OVUOFVZ200806) RONSDOZ – Noninvasive measurement of proinflammatory markers of oxidative stress in irradiated as an indicator of received dose of radiation. Protective role of acetyl-L-carnitine

Daniel Jun

(OVUOFVZ200902) OTRAHA – Novel prophylactic antidotes of nerve agent poisonings based on scavengers

Zuzana Šinkorová

(OVUOFVZ200809) INDIKÁTOR II – Reverse detection of received ionizing radiation dose by monitoring of cell population changes using biophysical methods

Kamil Kuča

(OVUOFVZ200803) SUBSTANCE – Development of novel decontaminants and disinfectants of skin based on micellar compounds

Jiří Páral

(OVUOFVZ200804) LEPIDLO – Testing of possible use of cyanoacrylat tissue glues in high risk intestinal anastomoses

Jiří Dresler (Martin Hubálek)

(OVUVZU2010001) The proposal of workflow of unambiguous identification of the complex of highly virulent bacterial biological agents using mass spectrometry and molecular biology methods and testing their feasibility on environmental samples

Kamil Musílek

(OVUOFVZ200805) INHIBITOR – Novel inhibitors of acetylcholinesterase as prophylaxis of nerve agent poisonings

Martin Hubálek

(OVUOFVZ200901) BIODEFENCE – Classification of biological agents – support of an international project „Establishment and management of a common database of B-agents – A European Laboratory Biodefence Network

Karel Šmejkal

(OVUOFVZ200904) ACETABULA – Crossover external fixator of acetabular fractures

Miroslav Pohanka

(OVUOFVZ200905) MORČE – Influence of the nerve agent and reactivators of acetylcholine esterase on the Guinea pig

Zuzana Čermáková (Jan Smetana)

(OVUVZU2008001) LEPTOSPIROSIS – Risk evaluation and new possibilities of detection

Miroslav Pohanka

(OVUOFVZ200807) PROTEIN – Biosensors for determination of nerve agents and yperites using recombinant proteins and nanotechnology

Rudolf Štětina

(OVUOFVZ200810) YPERIT – Potential interference of toxic properties of sulphur mustard

Miroslav Fajfr (Zuzana Kročová)

(OVUVZU2008002) HOREČKA – Method of viral hemorrhagic fevers' causative agents rapid detection and identification

Leo Klein

(OVUOFVZ200903) NOTES – Surgical treatment of the digestive tube's penetrating injuries using Natural Orifice Transluminal Endoscopic Surgery

Ladislav Novotný

(OVUOFVZ200905) MORČE – Influence of the nerve agent and reactivators of acetylcholine esterase on the Guinea pig

Jiří Cabal

(OVUOFVZ200801) REAKTIVÁTOR – Robotized system for in vitro evaluation of novel reactivators of acetylcholinesterase inhibited by nerve agents

Jana Žďárová Karasová

(OVUOFVZ200811) FARMAKO – Determination of important pharmacokinetic and biochemical parameters and evaluation of blood-brain barrier penetration using drugs introduced to Czech Army

Jaroslav Pejchal

(OVUOFVZ200812) RADSPEC – Short-term and long-term nonspecific changes in organisms exposed to high and low doses of nerve agents on cellular and molecular level

RESEARCH AIMS

Leo Klein

(MO0FVZ0000503) Military – medical aspects of war surgery and war internal medicine

Jiří Kassa

(MO0FVZ0000501) Medical countermeasures of nuclear, biological and chemical casualties

Kamil Kuča

(MO0FVZ0000604) Information support of crises management in health care

Pavol Hlúbik

(MO0FVZ0000502) Implementation of the new information of hygiene, preventive medicine and epidemiology into the military health care

ARTICLES IN JOURNALS WITH IMPACT FACTOR

1. ASPOCK, H., CHLÍBEK, R., CHMELÍK, V., CHRISTIANSEN, CB., DOBLER, G., FREUND, C., GRIGIC-VITEK, M., GRZESZCZUK, A., GUNTHER, G., HADITSCH, M., HEINZ, FX., HOEL, T., JAAGO, K., JÍLKOVÁ, E., KAHL, O., KARELIS, G., KYESTONE, J., MIMMING, P., KRECHT, T., KUNZE, M., KUTLESA, M., LENHARD, T., LOPALCO, P., LU, Z., MACKENSTEDT, U., MADAR, R., MARTH, E., MICKIENE, A., MURAJDA, L., MUTZ, I., OEHME, R., PAZDIORA, P., PFEFFER, M., POPONNIKOVA, T., POTA, G., PRYMULA, R., RANDOLPH, S., ROMANENKO, V., RUSCIO, M., RUSSIZKI, L., SANDELL, B. Tick-borne encephalitis: new paradigms in a changing vaccination environment. *Wiener Medizinische Wochenschrift*. 2011, vol. 161, no. 13–14, p. 361–364. ISSN 0043-5325. IF 0.747
2. ANTUNES, AA., BONFANTI, DB., PIETSCH, RP., COLLE, D., CRISTIANE, KC., HERMES, J., MACHADO, AM., LUIZ, AL., FABRO, AF., KUČA, K., FARINA, M. Effects of K074 and pralidoxime on antioxidant and acetylcholinesterase response in malathion-poisoned mice. *Neurotoxicology*. 2011, vol. 32, no. 6, p. 888–895. ISSN 0161-813X. IF 2.921
3. BABICOVÁ, A., HAVLÍNOVÁ, Z., PEJCHAL, J., TICHÝ, A., ŘEZÁČOVÁ, M., VÁVROVÁ, J., CHLÁDEK, J. Early changes in L-arginine-nitric oxide metabolic pathways in response to the whole-body gamma irradiation of rats. *International Journal of Radiation Biology*. 2011, vol. 87, no. 10, p. 1067–1073. ISSN 0955-3002. IF 1.861
4. BAJGAR, J., KASSA, J., POHANKA, M., ŽDÁROVÁ KARASOVÁ, J., NOVOTNÝ, L., FUSEK, J., BLÁHA, V. Inhibition of blood and tissue cholinesterases by soman in guinea pigs in vivo. *Journal of Applied Biomedicine*. 2011, vol. 9, no. 1, p. 35–41. ISSN 1214-021X. IF 1.689
5. BANĎOUCHOVÁ, H., POHANKA, M., VLČKOVÁ, K., DAMKOVÁ, V., PECKOVÁ, L., SEDLÁČKOVÁ, J., TREML, F., VITULA, F., PIKULA, J. Biochemical responses and oxidative stress in *Francisella tularensis* infection: a European brown hare model. *Acta Veterinaria Scandinavica*. 2011, vol. 53, no. 1, p. 2. ISSN 0044-605X. IF 1.196
6. BANĎOUCHOVÁ, H., POHANKA, M., KRÁL, J., ONDRÁČEK, K., OSIČKOVÁ, J., DAMKOVÁ, V., VITULA, F., TREML, F., PIKULA, J. Effects of sublethal exposure of European brown hares to paraoxon on the course of tularemia. *Neuroendocrinology Letters*. 2011, vol. 32, suppl. 1, p. 77–83. ISSN 0172-780X. IF 1.621

7. BOŠTÍKOVÁ, V., SALAVEC, M., SMETANA, J., CHLÍBEK, R., KOSINA, P., PRÁŠIL, P., PLÍŠEK, S., ŠPLÍNO, M., BOŠTÍK, P. An unusual case of multirecurrent herpes zoster – case report. *Biomedical Papers*. 2011, vol. 155, no. 4, p. 283–288. ISSN 1213-8118. IF 0.716
8. BOŠTÍKOVÁ, V., SALAVEC, M., SMETANA, J., CHLÍBEK, R., KOSINA, P., PRÁŠIL, P., PLÍŠEK, S., ŠPLÍNO, M., BOŠTÍK, P. Genotyping of varicella zoster virus wild-type strains isolated in Czech Republic. *Biomedical Papers*. 2011, vol. 155, no. 4, p. 265–270. ISSN 1213-8118. IF 0.716
9. BOUCHAL, P., JARKOVSKÝ, J., HRAZDILOVÁ, K., DVOŘÁKOVÁ, M., STRUHAROVÁ, I., HERNYCHOVÁ, L., DAMBORSKÝ, J., SOVA, P., VOJTĚŠEK, B. The new platinum-based anticancer agent LA-12 induces retinol binding protein 4 in vivo. *Proteome Science*. 2011, vol. 9, no. 1, p. 68–77. ISSN 1477-5956. IF 2.488
10. BUREŠ, J., PEJCHAL, J., KVĚTINA, J., TICHÝ, A., REICHT, S., KUNEŠ, M., KOPÁČOVÁ, M. Morphometric analysis of the porcine gastrointestinal tract in a 10-day high-dose indomethacin administration with or without probiotic bacteria *Escherichia coli* Nissle 1917. *Human and Experimental Toxicology*. 2011, vol. 30, no. 12, p. 1955–1962. ISSN 0960-3271. IF 1.211
11. CMIELOVÁ, J., HAVELEK, R., JIROUTOVÁ, A., KOHLEROVÁ, R., SEIFRTOVÁ, M., MUTHNÁ, D., VÁVROVÁ, J., ŘEZÁČOVÁ, M. DNA damage caused by ionizing radiation in embryonic diploid fibroblasts WI-38 induces both apoptosis and senescence. *Physiological Research*. 2011, vol. 60, no. 4, p. 667–677. ISSN 0862-8408. IF 1.646
12. CRHANOVÁ, M., MALCOVÁ, M., MAZGAJOVÁ, M., KARASOVÁ, D., ŠEBKOVÁ, A., FUČÍKOVÁ, A., BORTLÍČEK, Z., PILOUSOVÁ, L., KYROVÁ, K., DĚKANOVÁ, M., RYCHLÍK, I. LPS structure influences protein secretion in *Salmonella enteritica*. *Veterinary Microbiology*. 2011, vol. 152, no. 1–2, p. 131–137. ISSN 0378-1135. IF 3.256
13. ČEČKA, F., FERKO, A., ŠUBRT, Z., JON, B. Giant biliary cystadenoma: a case report. *Acta Chirurgica Belgica*. 2011, vol. 111, no. 3, p. 176–178. ISSN 0001-5458. IF 0.352
14. ČEČKA, F., JON, B., FERKO, A., ŠUBRT, Z., HADŽI NIKOLOV, D., TYČOVÁ, V. Long-term survival of a patient after resection of a gastrointestinal stromal tumor arising from the pancreas. *Hepatobiliary & Pancreatic Diseases International*. 2011, vol. 10, no. 3, p. 330–332. ISSN 1499-3872. IF 1.514
15. ČÍŽKOVÁ, D., VÁVROVÁ, J., MIČUDA, S., FILIP, S., BRČÁKOVÁ, E., BRŮČKOVÁ, L., MOKRÝ, J. Role of transplanted bone marrow cells in response to skeletal muscle injury. *Folia biologica (Prague)*. 2011, vol. 57, p. 232–241. ISSN 0015-5500. IF 0.729

16. DAMKOVÁ, V., PASKOVÁ, V., BANDŮCHOVÁ, H., HILSCHEROVÁ, K., SEDLÁČKOVÁ, J., NOVOTNÝ, L., PECKOVÁ, L., VITULA, F., POHANKA, M., PIKULA, J. Testicular toxicity of cyanobacterial biomass in Japanese quails. *Harmful Algae*. 2011, vol. 13, no. 6, p. 612–618. ISSN 1568-9883. IF 4.28
17. DIEPEDDALE, J., SOBRAL, D., DUPUIS, M., DUBAIL, I., KLIMENTOVÁ, J., STULÍK, J., POSTIC, G., FRAPY, E., MEIBOM, K., BAREL, M., CHARBIT, A. Identification of a putative chaperone involved in stress resistance and virulence in *Francisella tularensis*. *Infection and Immunity*. 2011, vol. 79, no. 4, p. 1428–1439. ISSN 0019-9567. IF 4.098
18. DRESLER, J., KLIMENTOVÁ, J., STULÍK, J. Bacterial protein complexes investigation using blue native PAGE. *Microbiological Research*. 2011, vol. 166, no. 1, p. 47–62. ISSN 0944-5013. IF 1.958
19. DRESLER, J., KLIMENTOVÁ, J., STULÍK, J. *Francisella tularensis* membrane complexome by blue native/SDS-PAGE. *Journal of Proteomics*. 2011, vol. 75, no. 1, p. 257–269. ISSN 1874-3919. IF 5.074
20. EICHHORST, B., BELADA, D., JEBAVÝ, L., SMOLEJ, L., at all, a. Limited clinical relevance of imaging techniques in the follow-up of patients with advanced chronic lymphocytic leukemia: results of a meta-analysis. *Blood*. 2011, vol. 117, no. 6, p. 1817–1821. ISSN 0006-4971. IF 10.558
21. FAKTOR, J., STRUHÁROVÁ, I., FUČÍKOVÁ, A., HUBÁLEK, M., VOJTĚŠEK, B., BOUCHAL, P. Mass-spectrometry quantification of protein biomarkers by selected reaction monitoring. *Chemické listy*. 2011, vol. 105, no. 11, p. 846–850. ISSN 0009-2770. IF 0.62
22. FIKROVÁ, P., ŠTĚTINA, R., HRONEK, M., HYŠPLER, R., TICHÁ, A., ZADÁK, Z. Application of the comet assay method in clinical studies. *Wiener Medizinische Wochenschrift*. 2011, vol. 123, no. 23–24, p. 693–699. ISSN 0043-5325. IF 0.747
23. FIŠAR, Z., HROUDOVÁ, J., KORÁBEČNÝ, J., MUSÍLEK, K., KUČA, K. In vitro effects of acetylcholinesterase reactivators on monoamine oxidase activity. *Toxicology Letters*. 2011, vol. 201, no. 2, p. 176–180. ISSN 0378-4274. IF 3.581
24. GRADOŠOVÁ, I., ŽIVNÁ, H., ŠVEJKOVSKÁ, K., PALÍČKA, V., TICHÝ, A., ŽIVNÝ, P. The role of atorvastatin in bone metabolism in male albino Wistar rats. *Pharmazie*. 2011, vol. 66, no. 8, p. 606–610. ISSN 0031-7144. IF 0.869
25. GUIMARAES, AP., FRANCA, TCC., RAMALHO, TC., RENNO, MN., DA CUNHA, F., MATOS, KS., MANCINI, DT., KUČA, K. Docking studies and effects of syn-anti isomery of oximes derived from pyridine imidazol bicycled systems as potential human acetylcholinesterase reactivators. *Journal of Applied Biomedicine*. 2011, vol. 9, no. 3, p. 163–171. ISSN 1214-021X. IF 1.689

26. HANOVÁ, M., VODIČKOVÁ, L., POLAKOVÁ, V., ŠMERHOVSKÝ, Z., ŠTĚTINA, R., HLAVÁČ, P., NACCARATI, A., SLYŠKOVÁ, J., LIPSKÁ, L., VODIČKA, P., KUMAR, R., HEMMINKI, K. DNA damage, DNA repair rates and mRNA expression levels of cell cycle genes. *Carcinogenesis*. 2011, vol. 31, no. 1, p. 74–79. ISSN 0143-3334. IF 5.402
27. HÄRTLOVÁ, A., KROČOVÁ, Z., ČERVENÝ, L., STULÍK, J. A proteomic view of the host-pathogen interaction: the host perspective. *Proteomics*. 2011, vol. 11, p. 3212–3220. ISSN 1615-9853. IF 4.815
28. HAVELEK, R., ŘEZÁČOVÁ, M., ŠINKOROVÁ, Z., ZÁRYBNICKÁ, L., PEJCHAL, J., VÁVROVÁ, J. Phosphorylation of histone H2AX in peripheral blood mononuclear cells after thoracic irradiation of rats. *Journal of Applied Biomedicine – print*. 2011, vol. 9, no. 4, p. 209–218. ISSN 1214-021X. IF 1.689
29. HAVELEK, R., ŘEZÁČOVÁ, M., ŠINKOROVÁ, Z., ZÁRYBNICKÁ, L., TICHÝ, A., VÁVROVÁ, J. Phosphorylation of histone H2AX as an indicator of received dose of gamma radiation after whole-body irradiation of rats. *Acta Veterinaria Brno*. 2011, vol. 80, no. 1, p. 113–118. ISSN 0001-7213. IF 0.534
30. HERBINGER, K., NOTHDURFT, HD., PRYMULA, R. Online survey: knowledge about risks, prevention and consequences of infections with HBV among travellers from four European countries. *Current Medical Research and Opinion*. 2011, vol. 27, no. 3, p. 489–96. ISSN 0300-7995. IF 2.609
31. HROUDOVÁ, J., FIŠAR, Z., KORÁBEČNÝ, J., KUČA, K. In vitro effects of acetylcholinesterase inhibitors and reactivators on Complex I of electron transport chain. *Neuroendocrinology Letters*. 2011, vol. 32, no. 3, p. 259–263. ISSN 0172-780X. IF 1.621
32. HYNEK, D., PRASEK, J., PIKULA, J., ADAM, V., HÁJKOVÁ, P., KREJČOVÁ, L., TRNKOVÁ, L., SOCHOR, J., POHANKA, M., HUBÁLEK, J., BEKLOVÁ, M., VRBA, R., KIZEK, R. Electrochemical analysis of lead toxicosis in vultures. *International Journal of Electrochemical Science*. 2011, vol. 6, no. 12, p. 5980–6010. ISSN 1452-3981. IF 2.808
33. CHAMRÁD, I., STROUHAL, O., ŘEHULKA, P., LENOBEL, R., ŠEBELA, M. Microscale affinity purification of trypsin reduces background peptides in matrix-assisted laser desorption/ionization mass spectrometry of protein digests. *Journal of Proteomics*. 2011, vol. 74, no. 7, p. 948–957. ISSN 1874-3919. IF 5.074
34. CHLÍBEK, R., SMETANA, J., BOŠTÍKOVÁ, V., KOSINA, P., PRÁŠIL, P., SALAVEC, M., REJTAR, P., BOŠTÍK, P. Neurological complication of herpes zoster – a case report. *Česká a slovenská neurologie a neurochirurgie*. 2011, vol. 74, no. 4, p. 486–489. ISSN 1210-7859. IF 0.393

35. CHLÍBEK, R., VON SONNENBURG, F., VAN DAMME, P., SMETANA, J., TICHÝ, P., GUNAPALAIAH, B., LEYSSEN, M., JACQUET, JM. Antibody persistence and immune memory 4 years post-vaccination with combined hepatitis A and B vaccine in adults aged over 40 years. *Journal of Travel Medicine*. 2011, vol. 18, no. 2, p. 145–148. ISSN 1195-1982. IF 1.473
36. CHROBOK, V., JEŽEK, B., ŠIMÁKOVÁ, E., ČERNÝ, M. Facial canal dehiscence and prolapse of the facial nerve. *Česká a slovenská neurologie a neurochirurgie*. 2011, vol. 74, no. 4, p. 478–481. ISSN 1210-7859. IF 0.393
37. JAKL, M., HORÁČEK, J., JEBAVÝ, L., PUDIL, R. Continuous 24-h monitoring of electrocardiogram during anthracycline-based therapy in acute leukemia. *Leukemia Research*. 2009, vol. 33, p. 109–110. ISSN 0145-2126. IF 2.39
38. JUN, D., MUSILOVÁ, L., MUSÍLEK, K., KUČA, K. In vitro ability of currently available oximes to reactivate organophosphate pesticide-inhibited human acetylcholinesterase and butyrylcholinesterase. *International Journal of Molecular Sciences*. 2011, vol. 12, no. 3, p. 2077–2087. ISSN 1422-0067. IF 2.279
39. JUN, D., STODŮLKA, P., HRABINOVÁ, M., POHANKA, M., DOLEŽAL, B., KUČA, K. TLC Analysis of twelve different salts of oxime HI-6-reactivator of nerve agent inhibited AChE. *JPC-Journal of Planar Chromatography-Modern TLC*. 2011, vol. 24, no. 2, p. 105–107. ISSN 0933-4173. IF 1.247
40. JUNG, YS., KUČA, K. Current study on the development of bis-pyridinium oxime reactivators for the antidotal treatment of poisoning by toxic organophosphorus agents. *Current Organic Chemistry*. 2011, vol. 15, no. 3, p. 433–444. ISSN 1385-2728. IF 2.92
41. KACEROVSKÝ, M., DRAHOŠOVÁ, M., ANDRÝS, C., HORNYCHOVÁ, H., TAMBOR, V., LENČO, J., TOŠNER, J., KREJSEK, J. Amniotic fluid concentrations of soluble scavenger receptor for hemoglobin (sCD163) in pregnancy complicated by preterm premature rupture of the membranes and histologic chorioamnionitis. *Journal of Maternal-Fetal & Neonatal Medicine*. 2011, vol. 24, no. 8, p. 995–1001. ISSN 1476-7058. IF 2.071
42. KACEROVSKÝ, M., DRAHOŠOVÁ, M., HORNYCHOVÁ, H., TAMBOR, V., FLÍDROVÁ, E., MUSILOVÁ, I., TOŠNER, J., ANDRÝS, C. Umbilical cord blood concentration of soluble scavenger receptor for hemoglobin, but not pentraxin 3, is of value for early postpartum identification of the presence of histological chorioamnionitis. *Journal of Maternal-Fetal & Neonatal Medicine*. 2011, vol. 24, no. 10, p. 1228–34. ISSN 1476-7058. IF 2.071
43. KASSA, J., ŽDÁROVÁ KARASOVÁ, J., PAVLÍKOVÁ, R., MUSÍLEK, K., KUČA, K., BAJGAR, J., JUNG, YS. A comparison of reactivating and

- therapeutic efficacy of bispyridinium acetylcholinesterase reactivator KR-22934 with the oxime K203 and commonly used oximes (obidoxime, trimedoxime, HI-6) in tabun-poisoned rats and mice. *Toxicology Mechanisms and Methods*. 2011, vol. 21, no. 3, p. 241–245. ISSN 1537-6524. IF 0.844
44. KASSA, J., ŽDÁROVÁ KARASOVÁ, J., ŠEPŠOVÁ, V., BAJGAR, J. A comparison of the reactivating and therapeutic efficacy of the newly developed bispyridinium oxime K203 with currently available oximes, in sarin poisoned rats and mice. *Journal of Applied Biomedicine*. 2011, vol. 9, no. 4, p. 225–230. ISSN 1214-021X. IF 1.689
45. KASSA, J., ŽDÁROVÁ KARASOVÁ, J., ŠEPŠOVÁ, V., CAISBERGER, F. The benefit of combinations of oximes for the reactivating and therapeutic efficacy of antidotal treatment of sarin poisoning in rats and mice. *Basic & Clinical Pharmacology & Toxicology*. 2011, vol. 109, no. 1, p. 30–34. ISSN 1742-7835. IF 2.371
46. KASSA, J., ŽDÁROVÁ KARASOVÁ, J., ŠEPŠOVÁ, V., CAISBERGER, F., BAJGAR, J. A comparison of the reactivating and therapeutic efficacy of chosen combinations of oximes with individual oximes against VX in rats and mice. *International Journal of Toxicology*. 2011, vol. 30, no. 5, p. 562–567. ISSN 1091-5818. IF 1.762
47. KASSA, J., ŽDÁROVÁ KARASOVÁ, J., TESAŘOVÁ, S. A comparison of the neuroprotective efficacy of individual oxime (HI-6) and combinations of oximes (HI-6+ trimedoxime, HI-6+ K203) in soman-poisoned rats. *Drug and Chemical Toxicology*. 2011, vol. 34, no. 3, p. 233–239. ISSN 0148-0545. IF 0.957
48. KASSA, J., ŽDÁROVÁ KARASOVÁ, J., TESAŘOVÁ, S., MUSÍLEK, K., KUČA, K., JUNG, YS. A comparison of neuroprotective efficacy of the oxime K203 and its fluorinated analogue (KR-22836) with obidoxime in tabun-poisoned rats. *Basic & Clinical Pharmacology & Toxicology*. 2011, vol. 107, no. 5, p. 861–867. ISSN 1742-7835. IF 2.371
49. KOČÍ, J., OBERREITER, M., HYŠPLER, R., TICHÁ, A., VALIŠ, M., LOCHMAN, P., HAVEL, E., FERKO, A. A positive fluid balance does not deteriorate tissue metabolism during fluid resuscitation of sepsis. *Neuroendocrinology Letters*. 2011, vol. 32, no. 3, p. 345–348. ISSN 0172-780X. IF 1.621
50. KOMLÓOVÁ, M., MUSÍLEK, K., HOROVÁ, A., HOLAS, O., DOHNAL, V., GUNN-MOORE, F., KUČA, K. Preparation, in vitro screening and molecular modelling of symmetrical bis-quinolinium cholinesterase inhibitors-implications for early Myasthenia gravis treatment. *Bioorganic & Medicinal Chemistry Letters*. 2011, vol. 21, no. 8, p. 2505–2509. ISSN 0960-894X. IF 2.661
51. KORÁBEČNÝ, J., MUSÍLEK, K., ZEMEK, F., HOROVÁ, A., HOLAS, O., NEPOVÍMOVÁ, E., OPLETALOVÁ, V., HROUDOVÁ, J., FIŠAR, Z., JUNG, Y., KUČA, K. Synthesis and in vitro evaluation of 7-methoxy-N-

- (pent-4-enyl)-1,2,3,4-tetrahydroacridin-9-amine – new tacrine derivate with cholinergic properties. *Bioorganic & Medicinal Chemistry Letters*. 2011, vol. 21, no. 21, p. 6563–6566. ISSN 0960-894X. IF 2.661
52. KOSÍK, O., GARAJOVÁ, S., MATULOVÁ, M., ŘEHULKA, P., STRATILOVÁ, E., FARLAŠ, V. Effect of the label of oligosaccharide acceptors on the kinetic parameters of nasturtium seed xyloglucan endotransglycosylase (XET). *Carbohydrate Research*. 2011, vol. 346, no. 2, p. 357–361. ISSN 0008-6215. IF 1.898
53. LOCHMAN, P., PÁRAL, J., KOČÍ, J. Gentamicin bound to the nanofibre microdispersed oxidized cellulose in the treatment of deep surgical site infections. *Journal of Applied Biomedicine*. 2011, vol. 9, no. 3, p. 143–149. ISSN 1214-021X. IF 1.689
54. LORKE, DE., HASAN, MY., NURULAIN, SM., SHAFIULLAH, M., KUČA, K., PETROIANU, G. Pretreatment for acute exposure to diisopropylfluorophosphate: in vivo efficacy of various acetylcholinesterase inhibitors. *Journal of Applied Toxicology*. 2011, vol. 31, no. 6, p. 515–523. ISSN 0260-437X. IF 2.322
55. MAISNAR, V., TICHÝ, M., STULÍK, J., VÁVROVÁ, J., FRIEDECKÝ, B., PALÍČKA, V., ŠPIRKOVÁ, J., ŽALOUĐKOVÁ, L., HERNYCHOVÁ, L., SPÁČILOVÁ, J., BUCHLER, T., HÁJEK, R. The problems of proteinuria measurement in urine with presence of Bence Jones protein. *Clinical Biochemistry*. 2011, vol. 44, no. 5–6, p. 403–405. ISSN 0009-9120. IF 2.043
56. MIKUSOVÁ, V., TICHÝ, A., ŘEZÁČOVÁ, M., VÁVROVÁ, J. Mitoxantrone in combination with a DNA-PK inhibitor: possible therapy of promyelocytic leukaemia resistant forms. *Folia biologica (Prague)*. 2011, vol. 57, no. 5, p. 200–205. ISSN 0015-5500. IF 0.729
57. MUSÍLEK, K., DOLEŽAL, M., GUNN-MOORE, F., KUČA, K. Design, evaluation and structure-activity relationship studies of the AChE reactivators against organophosphorus pesticides. *Medicinal Research Reviews*. 2011, vol. 31, no. 4, p. 548–575. ISSN 0198-6325. IF 10.228
58. MUSÍLEK, K., KOMLÓOVÁ, M., HOLAS, O., HOROVÁ, A., POHANKA, M., GUNN-MOORE, F., DOHNAL, V., DOLEŽAL, M., KUČA, K. Mono-oxime bisquaternary acetylcholinesterase reactivators with prop-1,3-diyl linkage – preparation, in vitro screening and molecular docking. *Bioorganic & Medicinal Chemistry*. 2011, vol. 19, no. 2, p. 754–762. ISSN 0968-0896. IF 2.978
59. MUSÍLEK, K., KOMLÓOVÁ, M., HOLAS, O., HRABINOVÁ, M., POHANKA, M., DOHNAL, V., NACHON, F., DOLEŽAL, M., KUČA, K. Preparation and in vitro screening of symmetrical bis-isoquinolinium cholinesterase inhibitors bearing various connecting linkage – implications for early Myasthenia gravis treatment. *European Journal of Medicinal Chemistry*. 2011, vol. 46, no. 2, p. 811–818. ISSN 0223-5234. IF 3.193

60. MUSÍLEK, K., PAVLÍKOVÁ, R., MAREK, J., KOMLÓOVÁ, M., HOLAS, O., HRABINOVÁ, M., POHANKA, M., DOHNAL, V., DOLEŽAL, M., GUNN-MOORE, F., KUČA, K. The preparation, in vitro screening and molecular docking of symmetrical bisquaternary cholinesterase inhibitors containing a but-(2E)-en-1,4-diyl connecting linkage. *Journal of Enzyme Inhibition and Medicinal Chemistry*. 2011, vol. 26, no. 2, p. 245–253. ISSN 1475-6366. IF 1.574
61. MUSÍLEK, K., RODER, J., KOMLÓOVÁ, M., HOLAS, O., HRABINOVÁ, M., POHANKA, M., DOHNAL, V., OPLETALOVÁ, V., KUČA, K., JUNG, Y. Preparation, in vitro screening and molecular modelling of symmetrical 4-tert-butylpyridinium cholinesterase inhibitors-Analogues of SAD-128. *Bioorganic & Medicinal Chemistry Letters*. 2011, vol. 21, no. 1, p. 150–154. ISSN 0960-894X. IF 2.661
62. NARAYAN, V., HALADA, P., HERNYCHOVÁ, L., CHONG, YP., ŽÁKOVÁ, J., HUPP, TR., VOJTĚŠEK, B., BALL, KL. A multiprotein binding interface in an intrinsically disordered region of the tumor suppressor protein interferon regulatory factor-1. *Journal of Biological Chemistry*. 2011, vol. 286, no. 16, p. 14291–14303. ISSN 0021-9258. IF 5.328
63. NEZBEDOVÁ, Š., BEZOUŠKOVÁ, S., KOFROŇOVÁ, O., BENADA, O., ŘEHULKA, P., ŘEHULKOVÁ, H., GOLDOVÁ, J., JANEČEK, J., WEISER, J. The use of glass beads cultivation system to study the global effect of the ppk gene inactivation in *Streptomyces lividans*. *Folia microbiologica*. 2011, vol. 56, no. 6, p. 519–525. ISSN 0015-5632. IF 0.977
64. NOVOTNÝ, L., CRHA, M., RAUSER, P., HEP, A., MISÍK, J., NECAS, A., VONDŘYS, D. Novel biodegradable polydioxanone stents in a rabbit airway model. *Journal of Thoracic and Cardiovascular Surgery*. 2011, vol. 143, no. 2, p. 437–444. ISSN 0022-5223. IF 3.608
65. NOVOTNÝ, L., MISÍK, J., HONZLOVÁ, A., ONDRÁČEK, P., KUČA, K., VÁVRA, O., CHLOUPEK, P. Incidental poisoning of animals by carbamates in the Czech Republic. *Journal of Applied Biomedicine*. 2011, vol. 9, no. 3, p. 157–161. ISSN 1214-021X. IF 1.689
66. PÁRAL, J., ŠUBRT, Z., LOCHMAN, P., KLEIN, L., NIKOLOV, D., TUREK, Z., VEJBĚRA, M. Suture-free anastomosis of the colon: experimental comparison of two cyanoacrylate adhesives. *Journal of Gastrointestinal Surgery*. 2011, vol. 15, no. 3, p. 351–359. ISSN 1091-255X. IF 2.733
67. PAŘÍZEK, P., HAMAN, L., PLESKOT, M., PECKA, M., BUKAČ, J., STRÁNSKÝ, P., MALÝ, J. Hemostatic changes before and during electrophysiologic study and radiofrequency catheter ablation. *International Journal of Hematology*. 2011, vol. 2011, no. 93, p. 452–457. ISSN 0925-5710. IF 1.324

68. PAVLÍK, V., FAJFROVÁ, J. Obesity in focus. *Bratislava Medical Journal- Bratislavske Lekarske Listy*. 2011, vol. 112, no. 3, p. 152/153. ISSN 0006-9248. IF 0.345
69. PLESKOT, M., HAZUKOVÁ, R., STRÍTECKÁ, H., ČERMÁKOVÁ, E. Five-year survival of patients after out-of-hospital cardiac arrest depending on age. *Archives of Gerontology and Geriatrics*. 2011, vol. 53, no. 2, p. 88–92. ISSN 0167-4943. IF 1.438
70. PLÍŠEK, S., PLÍŠKOVÁ, L., BOŠTÍKOVÁ, V., PRÁŠIL, P., LACO, J., CHLÍBEK, R., VYROUBAL, P., KOSINA, P., BOŠTÍK, P. Fulminant hepatitis and death associated with disseminated varicella in an immunocompromised adult from the Czech Republic caused by a wild-type clade 4 varicella-zoster virus strain. *Journal of Clinical Virology*. 2011, vol. 50, no. 1, p. 72–75. ISSN 1386-6532. IF 4.023
71. POHANKA, M. Alzheimer's disease and related neurodegenerative disorders: implication and counteracting of melatonin. *Journal of Applied Biomedicine*. 2011, vol. 9, no. 4, p. 185–196. ISSN 1214-021X. IF 1.689
72. POHANKA, M. Cholinesterases, a targeted of pharmacology and toxicology. *Biomedical Papers*. 2011, vol. 155, no. 3, p. 219–223. ISSN 1213-8118. IF 0.716
73. POHANKA, M., BANDOUCHOVÁ, H., VLČKOVÁ, K., ŽDÁROVÁ KARASOVÁ, J., KUČA, K., DAMKOVÁ, V., PECKOVÁ, L., VITULA, F., PIKULA, J. Square wave voltammetry on screen printed electrodes: comparison to ferric reducing antioxidant power in plasma from model laboratory animal (Grey Partridge) and comparison to standard antioxidants. *Journal of Applied Biomedicine*. 2011, vol. 9, no. 2, p. 103–109. ISSN 1214-021X. IF 1.689
74. POHANKA, M., DROBÍK, O., KŘENKOVÁ, Z., ŽDÁROVÁ KARASOVÁ, J., PIKULA, J., CABAL, J., KUČA, K. Voltammetric biosensor based on acetylcholinesterase and different immobilization protocols: a simple tool for toxic organophosphate assay. *Analytical Letters*. 2011, vol. 44, no. 7, p. 1254–1264. ISSN 0003-2719. IF 0.92
75. POHANKA, M., HRABINOVÁ, M., KUČA, K., SIMONATO, J. Assessment of acetylcholinesterase activity using Indoxylacetate and comparison with the standard Ellman's method. *International Journal of Molecular Sciences*. 2011, vol. 12, no. 4, p. 2631–2640. ISSN 1422-0067. IF 2.279
76. POHANKA, M., HRABINOVÁ, M., ZEMEK, F., DRTINOVÁ, L., BANDOUCHOVÁ, H., PIKULA, J. Huperzine induces alteration in oxidative balance and antioxidants in a guinea pig model. *Neuroendocrinology Letters*. 2011, vol. 32, suppl. 1, p. 95–100. ISSN 0172-780X. IF 1.621

77. POHANKA, M., CHLÍBEK, R., KUČA, K., BANDŮCHOVÁ, H., PIKULA, J. Diagnosis of tularemia using biochemical, immunochemical and molecular methods: a review. *Veterinární medicína*. 2011, vol. 59, no. 9, p. 453–461. ISSN 0375-8427. IF 0.594
78. POHANKA, M., NOVOTNÝ, L., FUSEK, J., PIKULA, J. HI-6 and obidoxime implication in oxidative stress, antioxidants level and apoptosis. *African Journal of Pharmacy and Pharmacology*. 2011, vol. 5, no. 8, p. 1145–1149. ISSN 1996-0816. IF 0.5
79. POHANKA, M., NOVOTNÝ, L., PIKULA, J. Metrifonate alters antioxidant levels and caspase activity in cerebral cortex of Wistar rats. *Toxicology Mechanisms and Methods*. 2011, vol. 21, no. 8, p. 585–590. ISSN 1537-6524. IF 0.844
80. POHANKA, M., NOVOTNÝ, L., ŽDÁROVÁ KARASOVÁ, J., BANDŮCHOVÁ, H., ZEMEK, F., HRABINOVÁ, M., MISÍK, J., KUČA, K., BAJGAR, J., ZITKA, O., ČERNEI, N., KIZEK, R., PIKULA, J. Asoxime (HI-6) impact on dogs after one and tenfold therapeutic doses: assessment of adverse effects, distribution, and oxidative stress. *Environmental Toxicology and Pharmacology*. 2011, vol. 32, no. 1, p. 75–81. ISSN 1382-6689. IF 1.378
81. POHANKA, M., PIKULA, J., KUČA, K., KASSA, J. Biochemical insight into soman intoxication and treatment with atropine, HI-6, trimedoxime, and K203 in a rat model. *Bratislava Medical Journal-Bratislavske Lekarske Listy*. 2011, vol. 112, no. 10, p. 539–544. ISSN 0006-9248. IF 0.345
82. POHANKA, M., SNOPOKOVÁ, S., HAVLÍČKOVÁ, K., BOŠTÍK, P., ŠINKOROVÁ, Z., FUSEK, J., KUČA, K., PIKULA, J. Macrophage-assisted inflammation and pharmacological regulation of the cholinergic anti-inflammatory pathway. *Current Medicinal Chemistry*. 2011, vol. 18, no. 4, p. 539–551. ISSN 0929-8673. IF 4.63
83. POHANKA, M., SOBOTKA, J., JÍLKOVÁ, M., ŠTĚTINA, R. Oxidative stress after sulfur mustard intoxication and its reduction by melatonin: efficacy of antioxidant therapy during serious intoxication. *Drug and Chemical Toxicology*. 2010, vol. 34, no. 1, p. 85–91. ISSN 0148-0545. IF 1.25
84. POHANKA, M., SOBOTKA, J., JÍLKOVÁ, M., ŠTĚTINA, R. Oxidative stress after sulfur mustard intoxication and its reduction by melatonin: efficacy of antioxidant therapy during serious intoxication. *Drug and Chemical Toxicology*. 2011, vol. 34, no. 1, p. 85–91. ISSN 0148-0545. IF 0.957
85. POHANKA, M., SOBOTKA, J., SVOBODOVÁ, H., ŠTĚTINA, R. Investigation of oxidative stress in blood, brain, kidney and liver after oxime antidote HI-6 application in a mouse experimental model. *Drug and Chemical Toxicology*. 2011, vol. 34, no. 3, p. 255–260. ISSN 0148-0545. IF 0.957

86. POHANKA, M., SOBOTKA, J., ŠTĚTINA, R. Sulfur mustard induced oxidative stress and its alteration by epigallocatechin gallate. *Toxicology Letters*. 2011, vol. 201, no. 2, p. 105–109. ISSN 0378-4274. IF 3.581
87. POHANKA, M., ŽDÁROVÁ KARASOVÁ, J., MUSÍLEK, K., KUČA, K., JUNG, Y., KASSA, J. Changes of rat plasma total low molecular weight antioxidant level after tabun exposure and consequent treatment by acetylcholinesterase reactivators. *Journal of Enzyme Inhibition and Medicinal Chemistry*. 2011, vol. 26, no. 1, p. 93–97. ISSN 1475-6366. IF 1.574
88. PRYMULA, R., HANOVCOVÁ, I., ŠPLIŇO, M., KŘÍŽ, P., MOTLOVÁ, J., LEBEDOVÁ, V., LOMMEL, P., KALÍŠKOVÁ, E., PASCAL, T., BORYS, D., SCHUERMAN, L. Impact of the 10-valent pneumococcal non-typeable Haemophilus influenzae Protein D conjugate vaccine (PHiD-CV) on bacterial nasopharyngeal carriage. *Vaccine*. 2011, vol. 29, no. 10, p. 1959–1967. ISSN 0264-410X. IF 3.572
89. PRYMULA, R., CHLÍBEK, R., IVASKEVICIENE, I., MANGAROV, A. Paediatric pneumococcal disease in Central Europe. *European Journal of Clinical Microbiology & Infectious Diseases*. 2011, vol. 30, no. 11, p. 1311–1320. ISSN 0934-9723. IF 2.631
90. ŘEZÁČOVÁ, M., HAVELEK, R., LUKÁŠOVÁ, E., VÁVROVÁ, J. Phosphorylation of histone H2AX-A novel indicator of DNA damage. *Chemické listy*. 2011, vol. 105, no. 2, p. 108–113. ISSN 0009-2770. IF 0.62
91. ŘEZÁČOVÁ, M., RUDOLFOVÁ, G., TICHÝ, A., BAČÍKOVÁ, A., MUTHNÁ, D., HAVELEK, R., VÁVROVÁ, J., ODRÁŽKA, K., LUKÁŠOVÁ, E., KOZUBEK, S. Accumulation of DNA damage and cell death after fractionated irradiation. *Radiation Research*. 2011, vol. 175, no. 6, p. 708–718. ISSN 0033-7587. IF 2.578
92. SINGH, N., GHOSH, K., MAREK, J., KUČA, K. Hydrolysis of carboxylate and phosphate esters using monopyridinium oximes in cationic micellar media. *International Journal of Chemical Kinetics*. 2011, vol. 43, no. 10, p. 569–578. ISSN 0538-8066. IF 1.154
93. MATOS, K., MANCINI, D., DA CUNHA, E., KUČA, K., FRANÇA, T., RAMALHO, T. C. Molecular aspects of the reactivation process of acetylcholinesterase inhibited by cyclosarin. *Journal of the Brazilian Chemical Society*. 2011, vol. 22, no. 10, p. 1999–2004. ISSN 0103-5053. IF 1.343
94. SLYŠKOVÁ, J., NACCARATI, A., POLAKOVÁ, V., PARDINI, B., VODIČKOVÁ, L., ŠTĚTINA, R., SCMUCZEROVA, J., ŠMERHOVSKÝ, Z., LIPSKÁ, L., VODIČKA, P. DNA damage and nucleotide excision repair capacity. *Environmental and Molecular Mutagenesis*. 2011, vol. 52, no. 7, p. 511–517. ISSN 0893-6692. IF 3.493

95. SOUKUP, O., KRUŠEK, J., KANIAKOVÁ, M., UDAY, K., OZ, M., JUN, D., FUSEK, J., KUČA, K., TOBIN, G. Oxime reactivators and their in vivo and in vitro effects on nicotinic receptors. *Physiological Research*. 2011, vol. 60, no. 4, p. 679–686. ISSN 0862-8408. IF 1.646
96. SOUKUP, O., UDAY, K., PROŠKA, J., BRÁTOVÁ, L., ADEM, A., JUN, D., FUSEK, J., KUČA, K., TOBIN, G. The effect of oxime reactivators on muscarinic receptors: functional and binding examinations. *Environmental Toxicology and Pharmacology*. 2011, vol. 31, no. 3, p. 364–370. ISSN 1382-6689. IF 1.378
97. ŠINKOROVÁ, Z., ZÁRYBNICKÁ, L., MATOŠKOVÁ, L., TICHÝ, A., PEJCHAL, J., ŠINKORA, J. Dynamics of apoptosis in gamma-irradiated lymphocytes and the CD21(+)CD27(+) B-cell subset as a potential biodosimetric marker. *Radiation Measurements*. 2011, vol. 46, no. 9, p. 1009–1013. ISSN 1350-4487. IF 1.019
98. ŠMEJKAL, K., LOCHMAN, P., DĚDEK, T., TRLICA, J., KOČÍ, J., ŽVÁK, I. Surgical treatment for proximal humerus fracture. *Acta chirurgiae orthopaedicae et traumatologiae czechoslovaca*. 2011, vol. 78, no. 4, p. 321–327. ISSN 0001-5415.
99. ŠTĚRBA, M., POPELOVÁ, O., LENČO, J., FUČÍKOVÁ, A., DOLEŽELOVÁ, E., MAZUROVÁ, Y., JIRKOVSKÝ, E., ŠIMŮNEK, T., ADAMCOVÁ, M., MIČUDA, S., STULÍK, J., GERŠL, V. Proteomic insights into chronic anthracycline cardiotoxicity. *Journal of Molecular and Cellular Cardiology*. 2011, vol. 50, no. 5, p. 849–862. ISSN 0022-2828. IF 5.499
100. ŠUBRT, Z., FERKO, A., JON, B., ČEČKA, F. Radiofrequency-assisted liver resection: higher incidence of infectious complications? *Acta Chirurgica Belgica*. 2011, vol. 2011, no. 111, p. 165–170. ISSN 0001-5458. IF 0.352
101. TICHÝ, A., MUTHNÁ, D., VÁVROVÁ, J., PEJCHAL, J., ŠINKOROVÁ, Z., ZÁRYBNICKÁ, L., ŘEZÁČOVÁ, M. Caffeine-suppressed ATM pathway leads to decreased p53 phosphorylation and increased programmed cell death in gamma-irradiated leukaemic molt-4 cells. *Journal of Applied Biomedicine*. 2011, vol. 9, no. 1, p. 49–56. ISSN 1214-021X. IF 1.689
102. TICHÝ, A., ŠALOVSKÁ, B., ŘEHULKA, P., KLIMENTOVÁ, J., VÁVROVÁ, J., STULÍK, J., HERNYCHOVÁ, L. Phosphoproteomics: searching for a needle in a haystack. *Journal of Proteomics*. 2011, vol. 74, no. 12, p. 2786–2797. ISSN 1874-3919. IF 5.074
103. TROVASLET-LEROY, M., MUSILOVÁ, L., RENAULT, F., BRAZZOLOTTO, X., MISÍK, J., NOVOTNÝ, L., FROMENT, M., GILLON, E., LOIODICE, M., VERDIER, L., MASSON, P., ROCHU, D., JUN, D., NACHON, F. Organophosphate hydrolases as catalytic bioscavengers of organophosphorus nerve agents. *Toxicology Letters*. 2011, vol. 206, no. 1 SI, p. 14–23. ISSN 0378-4274. IF 3.581

104. USONIS, V., ANCA, I., ANDRÉ, F., CHLÍBEK, R., ČIŽMAN, M., IVASKEVICIENE, I., MANGAROV, A., MÉSZNER, Z., PERENOVSKA, P., POKORN, M., PRYMULA, R., RICHTER, D., SALMAN, N., SIMURKA, P., TAMM, E., TEŠOVIC, G., URBANČÍKOVÁ, I. Rubella revisited: where are we on the road to disease elimination in Central Europe? *Vaccine*. 2011, vol. 29 (49), p. 9141–9147. ISSN 0264-410X. IF 3.572
105. VAŠATOVÁ, M., PUDIL, R., TICHÝ, M., BUCHLER, T., HORÁČEK, J., HAMAN, L., PAŘÍZEK, P., PALIČKA, V. High-sensitivity troponin T as a marker of myocardial injury after radiofrequency catheter ablation. *Annals of Clinical Biochemistry*. 2011, vol. 48, no. 1, p. 38–40. ISSN 0004-5632. IF 2.209
106. VÁVROVÁ, J., ŘEZÁČOVÁ, M. The importance of senescence in ionizing radiation-induced tumour suppression. *Folia biologica (Prague)*. 2011, vol. 57, no. 2, p. 41–46. ISSN 0015-5500. IF 0.729
107. VITULA, F., PECKOVÁ, L., BANDŮCHOVÁ, H., POHANKA, M., NOVOTNÝ, L., JÍRA, D., KRÁL, J., ONDRÁČEK, K., OSIČKOVÁ, J., ZENDULKOVÁ, D., ROSENBERGOVÁ, K., TREML, F., PIKULA, J. Mycoplasma gallisepticum infection in the grey partridge *Perdix perdix*: outbreak description, histopathology, biochemistry and antioxidant parameters. *BMC Veterinary Research*. 2011, vol. 7, Art. no. 34, p. 34. ISSN 1746-6148. IF 2.371
108. VLČEK, V., POHANKA, M. Environmental aspects of organophosphorus and carbamate approved for use in the Czech Republic. *Chemické listy*. 2011, vol. 105, no. 12, p. 908–912. ISSN 0009-2770. IF 0.62
109. WU, Q., DOHNAL, V., HUANG, L., KUČA, K., WANG, X., CHEN, G., YUAN, Z. Metabolic pathways of Ochratoxin A. *Current Drug Metabolism*. 2011, vol. 12, no. 1, p. 1–10. ISSN 1389-2002. IF 3.896
110. ZÁRYBNICKÁ, L., ŠINKOROVÁ, Z., ŠINKORA, J., BLÁHA, V., VÁVROVÁ, J., PEJCHAL, J., ÖSTERREICHER, J. Sensitivity of porcine peripheral blood leukocytes to gamma-irradiation in vivo, in vitro and ex vivo. *International Journal of Radiation Biology*. 2011, vol. 87, no. 5, p. 491–498. ISSN 0955-3002. IF 1.861
111. ŽDÁROVÁ KARASOVÁ, J., ZEMEK, F., BAJGAR, J., VAŠATOVÁ, M., PROCHÁZKA, P., NOVOTNÝ, L., KUČA, K. Partition of bispyridinium oximes (trimedoxime and K074) administered in therapeutic doses into different parts of the rat brain. *Journal of Pharmaceutical and Biomedical Analysis*. 2011, vol. 54, no. 5, p. 1082–1087. ISSN 0731-7085. IF 2.733

ARTICLES IN OTHER JOURNALS

1. BAJGAR, J., KASSA, J., KUČA, K., FUSEK, J., ŠTĚTINA, R. Antidotes against chemical warfare agents in the Czech Army. *Urgentní medicína*, 2010, vol. 13, no. 4, p. 12–14. ISSN 1212-1924.
2. BOŠTÍKOVÁ, V., SALAVEC, M., SMETANA, J., CHLÍBEK, R., KOSINA, P., ŠPLIŇO, M., PRÁŠIL, P., BOŠTÍK, P. Problems of postvaccination complications after vaccination against VZV – case report. *Vakcinologie*. 2011, vol. 5, no. 1, p. 6–9. ISSN 1802-3150.
3. BOŠTÍKOVÁ, V., SMETANA, J., BOŠTÍK, P., CHLÍBEK, R., ŠPLIŇO, M. News about polio. *Epidemiologie, mikrobiologie, imunologie*. 2011, vol. 60, no. 1, p. 38–40. ISSN 1210-7913.
4. BOŠTÍKOVÁ, V., SMETANA, J., CHLÍBEK, R., ŠPLIŇO, M., VACKOVÁ, M., HANOVCOVÁ, I., BOŠTÍK, P. Viral hemorrhagic fevers yesterday and today. *Interní medicína pro praxi*. 2011, vol. 13, no. 2, p. 75–77.
5. ČEČKA, F., FERKO, A., JON, B., ŠUBRT, Z. Laparoscopic pancreatic resections in experimental setting and clinical practice. *Rozhledy v chirurgii*. 2011, vol. 90, no. 3, p. 194–199. ISSN 0035-9351.
6. ČEČKA, F., JON, B., REPÁK, R., ŠUBRT, Z., FERKO, A. Cystic tumours of the pancreas – an up-to-date review. *Praktický lékař*. 2011, vol. 91, no. 7, p. 388–391. ISSN 0032-6739.
7. ČECH, P., BUREŠ, V., ANTOŠ, K., OTČENÁŠKOVÁ, T., MACELA, A., MUSÍLEK, P. Ontological models and expert systems in decision support of emergency situations. *Military Medical Science Letters*. 2011, vol. 80, no. 1, p. 21–27. ISSN 0372-7025.
8. DRTINOVÁ, L., POHANKA, M. Alzheimer's disease: aspects of actual pharmacological treatment. *Česká a slovenská farmacie*. 2011, vol. 60, no. 5, p. 219–228. ISSN 1210-7816.
9. DRTINOVÁ, L., POHANKA, M. Huperzine and its perspective for Alzheimer's disease treatment. *Zpravodaj vojenské farmacie*. 2011, vol. 21, no. 2, p. 19–22. ISSN 1213-8029.
10. FAJFROVÁ, J. Vitamins and their function in organism. *Interní medicína pro praxi*. 2011, vol. 13, no. 12, p. 466–468. ISSN 1212-7299.
11. FRANK, M., DĚDEK, T., BRODÁK, M. Surgical repair of bladder rupture associated with the pelvic fracture without suprapubic tube – a case report. *Rozhledy v chirurgii*. 2011, vol. 90, no. 4, p. 226–228. ISSN 0035-9351.
12. HAMAN, L. News in the antiarrhythmic treatment of atrial fibrillation. *Postgraduální medicína*. 2011, vol. 13, no. 1, p. 30–34. ISSN 1212-4184.

13. HORÁČEK, J. Biomarkers of cardiac injury in detection of cardiotoxicity induced by chemotherapeutic agents. *Military Medical Science Letters*. 2011, vol. 80, no. 3, p. 103–117. ISSN 0372-7025.
14. HRSTKA, Z., VOSEČKOVÁ, A., PROCHÁZKA, M. Preparation of the Army of the Czech Republic specialists for emergency situations. *Urgentní medicína*. 2011, no. 4. ISSN 1212-1924.
15. CHLÍBEK, R. False reasons for vaccine refusal – vaccination mistakes. *Vox paediatricae*. 2011, vol. 11, no. 7, p. 30–33. ISSN 1213-2241.
16. CHLÍBEK, R. Pertussis and current status of vaccination. *Postgraduální medicína*. 2011, vol. 13, no. 9, p. 954–958. ISSN 1212-4184.
17. CHLÍBEK, R. Vaccine against pertussis, tetanus and diphteria (Adacel) – the solution for increasing incidence of pertussis. *Farmakoterapie*. 2011, vol. 7, no. 3, p. 257–260. ISSN 1801-1209.
18. CHLÍBEK, R., SMETANA, J., BOŠTÍKOVÁ, V. Role of vaccination in control of human papillomavirus infection. *Onkologie*. 2011, vol. 6, no. 5, p. 264–268. ISSN 1336-8176.
19. CHLÍBEK, R., SMETANA, J., BOŠTÍKOVÁ, V., ŠPLÍŇO, M. Immunisation schedule for adults. *Vakcinologie*. 2011, vol. 5, no. 3, p. 101–115. ISSN 1802-3150.
20. CHLÍBEK, R., SMETANA, J., BOŠTÍKOVÁ, V., ŠPLÍŇO, M. Vaccination against viral hepatitis A and B in group of adults 40 years and older. *Epidemiologie, mikrobiologie, imunologie*. 2011, vol. 60, no. 3, p. 99–108. ISSN 1210-7913.
21. JEŽEK, B., VANĚK, J., PROCHÁZKA, M. Estimation of response time for ground ambulance transport. *Journal of System and Management Sciences*. 2011, vol. 1, no. 5, p. 69–78. ISSN 1816-6075.
22. KASSA, J., ŽDÁROVÁ KARASOVÁ, J. A comparison of neuroprotective efficacy of individual oximes (HI-6, trimesoxime, K203) and their mixtures (HI-6 + trimesoxime, HI-6 + K203) in cyclosarin-poisoned rats. *Military Medical Science Letters*. 2011, vol. 80, no. 1, p. 12–20. ISSN 0372-7025.
23. KLEIN, L. Military doctors were awarded honorary membership. *Military Medical Science Letters*. 2011, vol. 80, no. 2, p. 88. ISSN 0372-7025.
24. KLEIN, L. New honorary members of the Society of Military Physicians, Pharmacists and Veterinarians J. E. Purkinje. *Časopis lékařů českých*. 2011, vol. 150, no. 7, p. 415. ISSN 0008-7335.
25. KLEIN, L. The vicepresident of the ISBI in Prague. *Vita nostra revue*. 2011, vol. 20, no. 2, p. 43–44. ISSN 1212-5083.
26. KLEIN, L. 13th Bednař's day – surgical congress with international participation in Hradec Králové. *Časopis lékařů českých*. 2011, vol. 150, no. 7, p. 413–414. ISSN 0008-7335.

27. KLEIN, L. 11th Conference of physicians, pharmacists and veterinarians. *Časopis lékařů českých*. 2011, vol. 150, no. 12, p. 695. ISSN 0008-7335.
28. KLEIN, L., HAVEL, E., ŠMEJKAL, K., CERMAN, J., HOŠEK, F., HRONEK, V. Multiple mechanical and thermal blast injury in civilian industrial setting – possible parallel to the battlefield blast syndrome type injuries. *Military Medical Science Letters*. 2011, vol. 80, no. 4, p. 150–158. ISSN 0372-7025.
29. KOMLÓOVÁ, M., MUSÍLEK, K., KUČA, K. Myasthenia gravis – current treatment standards and emerging drugs. *Česká a slovenská farmacie*. 2011, vol. 60, no. 2, p. 47–53. ISSN 1210-7816.
30. KONŠTACKÝ, S. Holistic approach used in general medicine. *Medical Tribune*. 2011, vol. 22, no. 7, p. B1. ISSN 1214-8911.
31. KONŠTACKÝ, S. Influenza in Europe or around the world? *Bulletin Sdružení praktických lékařů ČR*. 2011, vol. 21, no. 6, p. 11–12. ISSN 1212-6152.
32. KONŠTACKÝ, S. How to improve differential diagnosis COPD in primary care. *Medicína po promoci*. 2011, vol. 2, no. 2, p. 16–17. ISSN 1218-2583.
33. KONŠTACKÝ, S. Smoking cessation in the Army. *A Report*. 2011, vol. 5, no. 5, p. 36–37. ISSN 1211-801X.
34. KOSINA, P., SMETANA, J., BOŠTÍKOVÁ, V., KRAUSOVÁ, J. Infectious by rotaviruses in vaccination era. *Pediatric pro praxi*. 2011, vol. 1, no. 12, p. 12–14. ISSN 1213-0494.
35. KRUTIŠ, J. Posttraumatic growth by soldiers coming back from peacekeeping mission. *Československá psychologie*. 2011, vol. 55, no. 3, p. 245–256.
36. KUČA, K., MUSÍLEK, K., ŽDÁROVÁ KARASOVÁ, J., JUN, D., SOUKUP, O., POHANKA, M., GHOSH, K., HRABINOVÁ, M. On the universality of oxime HL6-7 – antidote for case of the nerve agent poisoning. *Military Medical Science Letters*. 2011, vol. 80, no. 2, p. 80–84. ISSN 0372-7025.
37. KUNAK, Z., AKGUL, E., YAREN, H., CAYCI, T., KURT, Y., AYDIN, I., YAMAN, H., KENAR, L., SUBASI, T., ÇAKIR, E., MACIT, E., DEMIR, A., ERBİL, M., ŽDÁROVÁ KARASOVÁ, J. Measurement of TS-131, a new monopyridinium oxime by high performance liquid chromatography in rat plasma samples. *Journal of Clinical and Analytical Medicine*. 2011, vol. 2, no. 2, p. 19–21. ISSN 1309-0720.
38. MISÍK, J., PAVLÍKOVÁ, R., CABAL, J., NOVOTNÝ, L., KUČA, K. Method of static diffusion cells for assessment of pesticides skin permeation. *Military Medical Science Letters*. 2011, vol. 80, no. 2, p. 46–51. ISSN 0372-7025.

39. NOVOTNÁ, E., TICHÝ, A., FOLTÁNOVÁ, K., VÁVROVÁ, J. Role of γ -H2AX in DNA-damage response and its possible clinical applications. *Military Medical Science Letters*. 2011, vol. 80, no. 4, p. 169–177. ISSN 0372-7025.
40. PÁCAL, L., VARVAŘOVSKÁ, J., RUŠAVÝ, Z., LACIGOVÁ, S., ŠTĚTINA, R., RACEK, J., POMAHAČOVÁ, R., TANHÄUSEROVÁ, V., KAŇKOVÁ, K. Parameters of oxidative stress, DNA damage and DNA repair in type 1 and type 2 diabetes mellitus. *Archives of Physiology and Biochemistry*. 2011, vol. 117, no. 4, p. 222–230. ISSN 1381-3455.
41. PAŘÍZEK, P., HAMAN, L., DOSTÁLOVÁ, H., DUDA, J., POPELKA, J. Long-term outcome of catheter ablation therapy of supraventricular tachyarrhythmias. *Vnitřní lékařství*. 2011, vol. 57, no. 6, p. 546–550. ISSN 0042-773X.
42. PATOČKA, J., GUPTA, R.C., KUČA, K. Anatoxin-A(S): natural organophosphorus anticholinesterase agent. *Military Medical Science Letters*. 2011, vol. 80, no. 3, p. 129–139. ISSN 0372-7025.
43. PATOČKA, J., HON, Z., PROCHÁZKA, P., KUČA, K. Toxicology and environmental toxicology of herbicide triclopyr. *Kontakt*. 2011, vol. 13, no. 2, p. 242–249. ISSN 1212-4117.
44. PATOČKA, J., KUČA, K. Pelargonic acid vanillyllamide (PAVA): riot control agent. *Military Medical Science Letters*. 2011, vol. 80, no. 2, p. 72–79. ISSN 0372-7025.
45. PATOČKA, J., KUČA, K. Phosgene oxime – forgotten chemical weapon. *Military Medical Science Letters*. 2011, vol. 80, no. 1, p. 38–41. ISSN 0372-7025.
46. PATOČKA, J., KUČA, K. Synthetic cannabinoids and „spice drugs“. *Psychiatrie*. 2011, vol. 15, no. 3, p. 140–144. ISSN 1211-7579.
47. PAVLÍK, V., DRAHOKOUPÍLOVÁ, E. Senior Medical Staff Officer Course, NATO School, Oberammergau, Germany. *Military Medical Science Letters*. 2011, vol. 80, no. 1, p. 42–43. ISSN 0372-7025.
48. PAVLÍK, V., FAJFROVÁ, J., HLÚBIK, P. The preventive aspects of overweight and obesity in the Army of the Czech Republic. *Vojenské rozhledy*. 2011, vol. 2, p. 130–135. ISSN 1210-3292.
49. PAVLÍK, V., FAJFROVÁ, J., HUSÁROVÁ, M., HLÚBIK, P. The prevention of the overweight and obesity in the Army of the Czech Republic. *Hygiena*. 2011, vol. 56, no. 3, p. 85–87. ISSN 1802-6281.
50. PAVLIŠ, O., POHANKA, M. Microbiological and clinical aspects of tularemia disease. *Klinická mikrobiologie a infekční lékařství*. 2011, vol. 17, no. 5, p. 164–167. ISSN 1211-264X.
51. PEJCHAL, J., VASILIEVA, V., HRISTOZOVA, M., VILASOVÁ, Z., VÁVROVÁ, J., ALYAKOV, M., TICHÝ, A., ŽÁRYBNICKÁ, L., ŠINKOROVÁ, Z., TAMBOR, V., KUBELKOVÁ, K., DRESLER, J. Cytokinesis-block micronucleus (CBMN) assay / CBMN cytochrome assay in

- human lymphocytes after in vitro irradiation and its use in biodosimetry. *Military Medical Science Letters*. 2011, vol. 80, no. 1, p. 28–37. ISSN 0372-7025.
52. POTÁČ, M., MRVEČKA, P., PSUTKA, J., RŮŽIČKA, M. The material of the DVI teams. *Zpravodaj vojenské farmacie*. 2011, vol. 21, no. 1, p. 41–43. ISSN 1213-8029.
53. PROCHÁZKA, M., JEŽEK, B., HRSTKA, Z., VANĚK, J., ŠMÍRA, P. Unrests as a specific extraordinary event. *Rescue report*. 2011, no. 1, p. 10–11. ISSN 1212-0456.
54. PRYMULA, R. Quadrivalent meningococcal vaccine conjugated to protein CRM. *Remedia MedNet – Forum medicinae*. 2011, vol. 6, p. 48–50. ISSN 0862-8947.
55. PRYMULA, R. Vaccination and its role in preventing infectious diseases in the Czech Republic. *Postgraduální medicína*. 2011, vol. 13, no. 9, p. 934–936. ISSN 1212-4184.
56. PRYMULA, R. Pneumococcal disease and the possibilities of their prevention. *Postgraduální medicína*. 2011, vol. 13, no. 9, p. 948–953. ISSN 1212-4184.
57. PRYMULA, R. Pneumococcal infection, prevention and recommendations. *Zdravotnické noviny – Lékařské listy*. 2011, no. 8, p. 11–13. ISSN 0044-1996.
58. PRYMULA, R. Quo vadis vaccination? *Postgraduální medicína*. 2011, vol. 13, no. 9, p. 931. ISSN 1212-4184.
59. PRYMULA, R. Current approach to stabilisers, preservatives and ballast substances in modern vaccines. *Vakcinologie*. 2011, vol. 5, no. 2, p. 72. ISSN 1802-3150.
60. SALAVEC, M., BOŠTIKOVÁ, V., BOŠTÍK, P. HIV infection. *Česko-slovenská dermatologie*. 2011, vol. 86, no. 2, p. 67–81. ISSN 0009-0514.
61. SEVERA, J., KLABAN, V., ČERNÝ, T., BERNADIOVÁ, I., CABAL, J. Sporocidal agents highly effective in inactivating *Bacillus anthracis* spores. *Epidemiologie, mikrobiologie, imunologie*, 2010, vol. 59, no. 4, p. 205–208. ISSN 1210-7913.
62. SLANINKA, I., KLEIN, L., KAŠLA, M., OBERREITER, M., ČÁP, R., HASENÖHRLOVÁ, L., HOŠEK, F., MRÁZOVÁ, R. Wound healing – current possibilities in the treatment of chronic wounds. *Hojení ran*. 2011, vol. 5, no. 5, p. 21–24. ISSN 1802-6400.
63. SMETANA, J. The 7th Symposium of Vaccinology in Hradec Králové. *Vakcinologie*. 2011, vol. 5, no. 4, p. 182–183. ISSN 1802-3150.

64. SMETANA, J., BOŠTÍKOVÁ, V., BOŠTÍK, P., CHLÍBEK, R. HPV infection, cervical cancer and vaccination. *Postgraduální medicína*. 2011, vol. 13, no. 9, p. 968–971. ISSN 1212-4184.
65. SMETANA, J., BOŠTÍKOVÁ, V., BOŠTÍK, P., CHLÍBEK, R. Infections of rotaviruses and vaccination. *Postgraduální medicína*. 2011, vol. 4, no. 13, p. 378–381. ISSN 1212-4184.
66. SMETANA, J., BOŠTÍKOVÁ, V., BOŠTÍK, P., VACKOVÁ, M., HANOVCOVÁ, I., CHLÍBEK, R. Epidemiology of tick-borne meningoencephalitis and prevention options. *Postgraduální medicína*. 2011, vol. 13, no. 3, p. 248–252. ISSN 1212-4184.
67. STRÍTECKÁ, H., HLÚBIK, P. BIA – tool for evaluating the success of reduce the body weight. *Endokrynologia, Otyłość i Zaburzenia Przemiany Materii*. 2011, vol. 7, no. 2, p. 60–61. ISSN 1734-3321.
68. STRÍTECKÁ, H., HLÚBIK, P. Evaluation of the effectiveness of weight reduction program using the classical anthropometry tools and bio impedance analysis. *Lekársky obzor*. 2011, vol. 60, no. 12, p. 491–495. ISSN 0457-4214.
69. STRÍTECKÁ, H., HLÚBIK, P. Metabolic syndrome at soldiers of Czech Forces. *Endokrynologia, Otyłość i Zaburzenia Przemiany Materii*. 2011, vol. 7, no. 2, p. 61–62. ISSN 1734-3321.
70. SVOBODOVÁ, H., JOŠT, P., ŠTĚTINA, R. Comparison of potential cytotoxicity and genotoxicity of selected antidotes against organophosphates inhibiting acetylcholinesterase. *Military Medical Science Letters*. 2011, vol. 80, no. 4, p. 142–149. ISSN 0372-7025.
71. ŠENITKOVÁ, I., ŠPIDLOVÁ, P., HERNYCHOVÁ, L., STULÍK, J. The disulfide bond formation and its relationship to bacterial pathogenicity of three important Gram-negative bacteria. *Military Medical Science Letters*. 2011, vol. 80, no. 3, p. 118–128. ISSN 0372-7025.
72. ŠEPSOVÁ, V., ŽDÁROVÁ KARASOVÁ, J., ZEMEK, F., BENNION, B., KUČA, K. Oximes as inhibitors of acetylcholinesterase- a structure - activity relationship (SAR) study. *Military Medical Science Letters*. 2011, vol. 80, no. 4, p. 180–188. ISSN 0372-7025.
73. ŠINKOROVÁ, Z., ZÁRYBNICKÁ, L., MATOŠKOVÁ, L., TICHÝ, A., VÁVROVÁ, J., PEJCHAL, J. New frontiers and challenges in radiation biodosimetry. *Bezpečnost jaderné energie*. 2011, vol. 57, no. 5/6, p. 158–161. ISSN 1210-7085.
74. ŠPLIŇO, M., BOŠTÍKOVÁ, V. Is eradication of mumps real in EU up to 2015? *Vakcinologie*. 2011, vol. 5, no. 3, p. 127–128. ISSN 1802-3150.
75. ŠPLIŇO, M., BOŠTÍKOVÁ, V. Polio – initiative of eradication. *Vakcinologie*. 2011, vol. 5, no. 2, p. 66–68. ISSN 1802-3150.
76. ŠPLIŇO, M., BOŠTÍKOVÁ, V. Measles – re-emergig in Europe. *Vakcinologie*. 2011, vol. 5, no. 1, p. 30–32. ISSN 1802-3150.

77. ŠPLIŇO, M., BOŠTÍKOVÁ, V. Hepatitis C virus – discovery of cainen hepatitis virus (CHV). *Vakcinologie*. 2011, vol. 5, no. 4, p. 178–179. ISSN 1802-3150.
78. ŠTĚPÁNOVÁ, V., PLÍŠKOVÁ, L., KUBIŠOVÁ, M., ŠTĚPÁNOVÁ, E., BOLEHOVSKÁ, R., BOŠTÍKOVÁ, V., SVOBODOVÁ, M. The use of IgG antibody avidity assays in the diagnostics of CMV infection. *Epidemiologie, mikrobiologie, imunologie*. 2011, vol. 60, no. 3, p. 115–120. ISSN 1210-7913.
79. ŠUBRT, Z., FERKO, A., ČEČKA, F., JON, B. Current trends of surgical therapy of focal liver and pancreatic lesions. *Vnitřní lékařství*. 2011, vol. 57, no. 4, p. 356–363. ISSN 0042-773X.
80. VACKOVÁ, M., HANOVCOVÁ, I., SMETANA, J., CHLÍBEK, R., BOŠTÍKOVÁ, V., ŠPLIŇO, M. Microbial air load at the transplant intensive care unit in the Czech Republic. *Military Medical Science Letters*. 2011, vol. 80, no. 2, p. 52–57. ISSN 0372-7025.
81. VAN DAMME, P., CHLÍBEK, R., KEFFE, B. Hepatitis A and B vaccination in elderly travellers. *European Gastroenterology & Hepatology Review*. 2011, vol. 7, no. 2, p. 84–92. ISSN 1758-3799.
82. VLČEK, V., POHANKA, M. Matrix for construction of disposable dipsticks. *Zpravodaj vojenské farmacie*. 2011, vol. 21, no. 3, p. 14–19. ISSN 1213-8029.
83. ZEMEK, F., ŽDÁROVÁ KARASOVÁ, J., MUSÍLEK, K., KUČA, K. Method optimization for acetylcholinesterase modulators – albumin interactions. *Military Medical Science Letters*. 2011, vol. 80, no. 3, p. 58–64. ISSN 0372-7025.
84. ŽDÁROVÁ KARASOVÁ, J., KUČA, K., JUN, D., BAJGAR, J. Human serum butyrylcholinesterase as a prophylaxis against Russian VX. *Military Medical Science Letters*. 2011, vol. 80, no. 3, p. 97–102. ISSN 0372-7025.

TEXTBOOKS, MONOGRAPHS, ARTICLES IN MONOGRAPHS AND PROCEEDINGS

1. ADAMCOVÁ, M., PUDIL, R., HORÁČEK, J. *Chapters on cardiac biomarkers*. 1. ed. Brno: MSD, 2011. 123 p. ISBN 978-80-7392-189-7
2. BAJGAR, J. Chemical warfare agents misusable in civilian sector. In *Mimoriadne události vo verejnom zdravotníctve*. Edited by Klement, C. Banská Bystrica: PRO, 2011, p. 206–257. ISBN 978-80-89057-20-0
3. BALONOVÁ, L., HERNYCHOVÁ, L. Analysis of bacterial glycoproteins. In *BSL3 and BSL4 agents*. Weinheim: Wiley, 2011, p. 67–78. ISBN 978-3-527-32780-5
4. BRYCHTA, M., PÁVKOVÁ, I. Proteome analysis of bacterial protein expression after ingestion of microbes by macrophages. In *BSL3 and BSL4 agents*. Weinheim: Wiley, 2011, p. 223–231. ISBN 978-3-527-32780-5
5. CABAL, J. Antidotes against nerve agents. In *Pitschmannn, V. et al. Chemické zbraně a ochrana proti nim*. Praha: Manus, 2011, p. 162–171. ISBN 978-80-86571-11-9
6. CABAL, J. Primary decontamination of persons. In *Pitschmannn, V. et al. Chemické zbraně a ochrana proti nim*. Praha: Manus, 2011, p. 17–181. ISBN 978-80-86571-09-6
7. ČÁP, R. Burned hand. In *Pilný, J. Chirurgie ruky*. Praha: Grada, 2011, p. 343–346. ISBN 978-80-247-3295-4
8. DRESLER, J., KLIMENTOVÁ, J. BN-PAGE of microbial protein complexes. In *BSL3 and BSL4 Agents*. Weinheim: Wiley, 2011, p. 55–66. ISBN 978-3-527-32780-5
9. HÄRTLOVÁ, A., LINK, M., LENČO, J., STULÍK, J. Quantitative proteomic profiling of the interaction of Francisella tularensis LVs with macrophages using J774.2 cell line. In *BSL3 and BSL4 agents*. Weinheim: Wiley, 2011, p. 215–222. ISBN 978-3-527-32780-5
10. HERNYCHOVÁ, L., HUBÁLEK, M. Basic mass spectrometric approaches. In *BSL3 and BSL4 agents*. Weinheim: Wiley, 2011, p. 29–40. ISBN 978-3-527-32780-5
11. HERNYCHOVÁ, L., HUBÁLEK, M., UDRZALOVA, J. Analysis of Francisella tularensis acetonitrile extracts. In *BSL3 and BSL4 agents*. Weinheim: Wiley, 2011, p. 95–103. ISBN 978-3-527-32780-5
12. HRSTKA, Z. The outpatients department of palliative oncological care In *35. brněnské onkologické dny*. Brno: Masarykův onkologický ústav, 2011, vol. 35, p. 284–285. ISBN 978-80-86-793-17-7

**TEXTBOOKS, MONOGRAPHS, ARTICLES IN MONOGRAPHS
AND PROCEEDINGS**

13. HRSTKA, Z. The role of psychologist ambulatory palliative oncological care. In *35. brněnské onkologické dny*. Brno: Masarykův onkologický ústav, 2011, vol. 35, p. 287–288. ISBN 978-80-86-793-17-7
14. HUBÁLEK, M., PÁVKOVÁ, I. Comparative proteome analysis of strains with differential virulence. In *BSL3 and BSL4 agents*. Weinheim: Wiley, 2011, p. 81–93. ISBN 978-3-527-32780-5
15. JANEČKA, P., JEŽEK, B., VANĚK, J., PETRÁNEK, K. Using the Flash Stage3D API for Web-based spatial visualizations. In *31. konference o geometrii a počítačové grafice*. Ostrava-Poruba: Vysoká škola báňská – Technická univerzita Ostrava, 2011, vol. 31, p. 107–116. ISBN 978-80-248-2524-3
16. JEŽEK, B., ANTOŠ, K., PROCHÁZKA, M., VANĚK, J. Case study: using software application Powersim for career modelling. In *Bureš, V. Systémové myšlení pro manažery*. Příbram: Professional publishing, 2011, p. 198–208. ISBN 978-80-7431-037-9
17. JEŽEK, B., VANĚK, J., PROCHÁZKA, M. Estimation of response time for ground ambulance transport. In *1st International Conference on Logistics, Informatics and Service Science*. Beijing: SciTePress, 2011, vol. 1, p. 47–52. ISBN 978-989-8425-62-1
18. KONEČNÁ, K., HUBÁLEK, M., HERNYCHOVÁ, L. Analysis of culture filtrate proteins of *Francisella tularensis*. In *BSL3 and BSL4 agents*. Weinheim: Wiley, 2011, p. 107–113. ISBN 978-3-527-32780-5
19. LENČO, J., TAMBOR, V. Quantitative mass spectrometric approaches. In *BSL3 and BSL4 agents*. Weinheim: Wiley, 2011, p. 43–53. ISBN 978-3-527-32780-5
20. LOCHMAN, P., ŠUBRT, Z., PÁRAL, J. Laparoscopic cholecystectomy in a patient with situs inversus totalis viscerum. In *8. Ostravské dny miniinvazivní chirurgie – sborník přednášek*. Ústí nad Labem: BOS., 2011, p. 14. ISBN 978-80-87562-00-0
21. MAŠEK, J., PROCHÁZKA, M., VANĚK, J., JEŽEK, B. 20 minutes in law – reality or fiction? In *Sborník příspěvků 8. ročníku celostátní konference Medicína katastrof. Zkušenosti, příprava, praxe*. Hradec Králové: ZSA, 2011, vol. 8, p. 40–42. ISBN 978-80-905089-0-3
22. MISÍK, J., PAVLÍK, M., CABAL, J., PAVLÍKOVÁ, R., KUČA, K. In vivo evaluation of newly designed decontamination approaches for mass decontamination of chemical warfare agents. In *Sborník příspěvků 8. ročníku celostátní konference Medicína katastrof. Zkušenosti, příprava, praxe*. Hradec Králové: ZSA, 2011, p. 43–45. ISBN 978-80-905089-0-3
23. MRVEČKA, P., MALÝ, V. *Practical exercises in military topography*. Brno: Univerzita obrany, 2011. 43 p.
24. MRVEČKA, P., RŮŽIČKA, M., PSUTKA, J., MALÝ, V., POTÁČ, M., WITT, P. *Field exercise Elbe 2011*. Hradec Králové: FVZ UO, 2011. 48 p.

**TEXTBOOKS, MONOGRAPHS, ARTICLES IN MONOGRAPHS
AND PROCEEDINGS**

25. MUSÍLEK, K., HOLAS, O., HOROVÁ, A., POHANKA, M., ŽDÁROVÁ KARASOVÁ, J., JUN, D., KUČA, K. Progress in antidotes (acetylcholinesterase reactivators) against organophosphorus pesticides. In *Pesticides in the modern world – effects of pesticides exposure*. Rijeka: Intech, 2011, p. 341–358. ISBN 978-953-307-454-2
26. NOVOTNÝ, L., MUSÍLEK, K., POHANKA, M., ŽDÁROVÁ KARASOVÁ, J., BOŠTÍK, P., JUN, D., KUČA, K. *Introduction to chemical and biological warfare agents*. 1st. ed. Hradec Králové: Ladislav Novotný, 2011. 62 p. ISBN 978-80-260-0916-0
27. OTČENÁŠKOVÁ, T., BUREŠ, V., ČECH, P. Multi-agent simulations in decision support. In *12th WSEAS International Conference on Mathematics and Computers in Biology and Chemistry (MCBC '11)*. Stevens Point: World Scientific and Engineering Academy and Society (WSEAS) Stevens Point, 2011, vol. 12, p. 60–65. ISBN 978-960-474-293-6
28. OTČENÁŠKOVÁ, T., ČECH, P., BUREŠ, V. Conceptual modelling for management of public health in case of emergency situations. In *International Conference on Knowledge Engineering and Ontology Development*. Lisbon, Portugal: SciTePress – Science and Technology Publications, 2011, vol. 3, p. 344–348. ISBN 978-989-8425-80-5
29. PAVLÍK, V. The international congress on obesity, primary prevencion. In *Mezinárodní konference Životné podmienky a zdravie*. Bratislava: Univerzita Komenského, 2011, p. 199–201. ISBN 978-80-7159-208-2
30. PETRÁNEK, K., VANĚK, J., JEŽEK, B., JANEČKA, P. Acceleration of image segmentation algorithms. In *31. konference o geometrii a počítačové grafice*. Ostrava-Poruba: Vysoká škola báňská – Technická univerzita Ostrava, 2011, vol. 31, p. 189–197. ISBN 978-80-248-2524-3
31. PROCHÁZKA, M., JEŽEK, B., VANĚK, J., ANTOŠ, K., eds. *Papers book of the Conference – 8th Conference of Disaster Medicine – Experience, Preparation, Practice*. Hradec Králové: ZSA, 2011. 106 p. ISBN 978-80-905089-0-3
32. RŮŽIČKA, M., POTÁČ, M., WITT, P., STRÍTECKÁ, H., MRVEČKA, P. *The Field exercise Tisa 2011*. Hradec Králové: FVZ UO, 2011. 24 p.
33. ŘEZÁČOVÁ, M., VÁVROVÁ, J. *Molecular mechanisms of the effect of ionizing radiation*. 1. ed. Hradec Králové: Nucleus, 2011. 96p. ISBN 978-80-87009-82-6
34. SCHEIN, M., ROGERS, P. Schein's Common Sense Emergency Abdominal Surgery. Translated by A. Ferko and L. Klein. In *Urgentní bříšní chirurgie*. Praha: Grada, 2011, p. 109–218. ISBN 978-80-247-2357-0
35. SOKOL, M., DOGOŠI, M., FUSEK, J. *Forensic medicine and toxicology for military doctors*. Brno: Univerzita obrany, 2010. 90 p. Učební texty

- Fakulty vojenského zdravotníctví Univerzity obrany v Hradci Králové. Sv. 367. ISBN 978-80-7231-347-1
36. STŘÍTECKÁ, H. Evaluation of nutritional status in primary schools children. In *Informačný Bulletin hlavného hygienika SR*. Bratislava: Úrad verejného zdravotníctva SR, 2011, p. 130–134.
 37. STŘÍTECKÁ, H., HLÚBIK, P. Are traditional anthropometric methods sufficient to evaluate the success of weight lost? In *Zborník vedeckých prác – Výživa a zdravie 2011*. Nitra: Slovenská poľnohospodárska univerzita, 2011, vol. 1, p. 389–395. ISBN 978-80-522-0699-8
 38. STŘÍTECKÁ, H., HLÚBIK, P. The eating habits of elementary school children in Hradec Kralove, Liberec and Pardubice region. In *Zborník vedeckých prác – Výživa a zdravie 2011*. Nitra: Slovenská poľnohospodárska univerzita, 2011, p. 381–388. ISBN 978-80-522-0699-8
 39. STŘÍTECKÁ, H., MACH, I., MORAVCOVÁ, A., DOHNAL, P. *Nutris – the script to seminar about sleep and children's nutrition*. Praha: Nutris, 2011. 28 p.
 40. STULÍK, J., BUTAYE, P. Introduction: application of proteomic technologies for analysis of microbial infections. In *BSL3 and BSL4 agents*. Weinheim: Wiley, 2011, p. 1–6. ISBN 978-3-527-32780-5
 41. VANĚK, J., JEŽEK, B. Practical algorithm for unlimited scale terrain rendering. In *Recent Researches in Circuits, Systems, Communications & Computers, Proceedings of the 2nd European Conference of Computer Science (ECCS '11)*. Stevens Point: WSEAS, 2011, vol. 2, p. 69–78. ISBN 978-1-61804-056-5
 42. VANĚK, J., JEŽEK, B. Practical algorithm for rendering large terrain models, part one: triangles. In *31. konferencie o geometrii a počítačové grafice*. Ostrava-Poruba: Vysoká škola báňská – Technická univerzita Ostrava, 2011, vol. 31, p. 279–290. ISBN 978-80-248-2524-3
 43. VANĚK, J., JEŽEK, B. Right mouse button surrogate on touch screens. In *13st International Conference on Enterprise Information Systems*. Beijing, China: SciTePress, 2011, vol. 13, p. 304–309. ISBN 978-989-8425-56-0
 44. VÁVROVÁ, J., ŘEZÁČOVÁ, M. Nuclear accident – Fukushima. In *Sborník příspěvků 8. ročníku celostátní konference Medicína katastrof. Zkušenosti, příprava, praxe*. Hradec Králové: ZSA, 2011, vol. 8, p. 103–104. ISBN 978-80-905089-0-3
 45. ZEMAN, M., KLEIN, L., FERKO, A. Field surgery. In Zeman M., Krška Z. et al. *Chirurgická propedeutika*. Praha: Grada, 2011, p. 383–406. ISBN 978-80-247-3770-6

ABSTRACTS IN JOURNALS WITH IMPACT FACTOR

1. BAJGAR, J., KASSA, J., POHANKA, M. Possible approaches to the development of universal cholinesterase reactivator. *Toxicology Letters*. 2011, vol. 205, no. 1, p. S119. IF 3.581
2. BANĎOUCHOVÁ, H., PIKULA, J., POHANKA, M., OSIČKOVÁ, J., ONDRÁČEK, K., KRÁL, J., VITULA, F., TREML, F. Pesticides modulate the course of tularemia in European brown hares. *Toxicology Letters*. 2011, vol. 205, suppl. 1, p. S233. IF 3.581
3. FERKO, A., ŠUBRT, Z., JON, B., ČEČKA, F. Laparoscopic right-sided advanced hemihepatectomy. *Endoskopie*. 2011, vol. 20, suppl. A, p. A9. IF 2.693
4. HLÚBIK, J., LHOTSKÁ, L., HLÚBIK, P. Changes of body composition during no pharmacologic treatment of obesity. *Obesity Reviews*. 2011, vol. 12, suppl.1, p. 129. IF 5.862
5. HLÚBIK, P., HLÚBIK, J., STŘÍTECKÁ, H. Body weight change after pharmacological stop smoking. *Obesity Reviews*. 2011, vol. 12, suppl.1, p. 103. IF 5.862
6. HLÚBIK, P., STŘÍTECKÁ, H., HLÚBIK, J. Obesity and metabolic syndrome. *Atherosclerosis*. 2011, vol. 12, no. 1, p. 27. IF 4.086
7. HORÁČEK, J., JEBAVÝ, L., VAŠATOVÁ, M., TICHÝ, M., ŽÁK, P., LÁNSKÁ, M., MALÝ, J. Biochip array analysis of various cytokines in patients treated for acute leukemia. *Bone Marrow Transplantation*. 2011, vol. 46, no. 1, p. S279. IF 3.66
8. HORÁČEK, J., JEBAVÝ, L., VAŠATOVÁ, M., TICHÝ, M., ŽÁK, P., MALÝ, J. Glycogen phosphorylase BB as a marker of cardiac toxicity induced by high-dose and conventional chemotherapy for acute leukemia. *Bone Marrow Transplantation*. 2011, vol. 46, no. 1, p. S177. IF 3.66
9. HORÁČEK, J., JEBAVÝ, L., VAŠATOVÁ, M., ŽÁK, P., TICHÝ, M., MALÝ, J. Glycogen phosphorylase BB as a potential marker of cardiac toxicity in patients treated with anthracyclines for acute leukemia. *Haematologica-The Hematology Journal*. 2011, vol. 96, no. 2, p. S709–S710. IF 6.532
10. HORÁČEK, J., VAŠATOVÁ, M., TICHÝ, M., JEBAVÝ, L., ŽÁK, P., MALÝ, J. Multiple biomarkers of cardiac injury in detection of cardiotoxicity associated with hematopoietic cell transplantation for hematological malignancies. *Clinical Chemistry and Laboratory Medicine*. 2011, vol. 49, no. 1, p. S305. IF 2.069

11. HORÁČEK, J., VAŠATOVÁ, M., TICHÝ, M., ŽÁK, P., JEBAVÝ, L., MALÝ, J. Evaluation of plasma cytokine and growth factor levels by biochip array technology in acute myeloid leukemia patients. *Clinical Chemistry and Laboratory Medicine*. 2011, vol. 49, no. 1, p. S244. IF 2.069
12. JAKL, M., ŠTÁSEK, J., KALA, P., ROKYTA, R., WIDIMSKÝ, P. Do the outcomes of acute myocardial infarction complicated by cardiogenic shock differ based on initial electrocardiographic finding? *European Heart Journal*. 2011, vol. 2011, no. 32, p. 349. IF 10.046
13. JOŠT, P., SVOBODOVÁ, H., ŠTĚTINA, R. The role of 3-aminobenzamide (PARP inhibitor) in the sulfur mustard cytotoxicity. *Toxicology Letters*. 2011, no. 205S, p. S105. IF 3.581
14. KORÁBEČNÝ, J., MUSÍLEK, K., HOLAS, O., POHANKA, M., OPLETALOVÁ, V., DOHNAL, V., HROUDOVÁ, J., JUN, D., FIŠAR, Z., ŽĐÁROVÁ KARASOVÁ, J., PATOČKA, J., KUČA, K. Synthesis and in vitro evaluation of N-alkyl-7-methoxytacrine hydrochlorides as potential anti-Alzheimer's disease agents. *Neurodegenerative Diseases*. 2011, vol. 8, no. S1, p. 427. IF 3.791
15. MAISNAR, V., RADOCHA, J., ŽÁK, P., LÁNSKÁ, M., ZAVŘELOVÁ, A., CERMANOVÁ, M., KMONÍČEK, M., JEBAVÝ, L., MALÝ, J. 15 years of single-centre experience with stem cell transplantation for multiple myeloma. *Bone Marrow Transplantation*. 2011, vol. 46, suppl. 1, p. S258. IF 3.66
16. MUSÍLEK, K., KORÁBEČNÝ, J., HOLAS, O., HOROVÁ, A., PATOČKA, J., KUČA, K. 7-MEOTA – cholinesterase inhibitor with valuable pharmacological profile. *Neurodegenerative Diseases*. 2011, vol. 8, no. S1, p. 420. IF 3.791
17. PÁRAL, J., ŠUBRT, Z., LOCHMAN, P., KLEIN, L., HADŽI-NIKOLOV, D., TUREK, Z., VEJBĚRA, M. Suture-free anastomosis of the colon: experimental comparison of two cyanoacrylate adhesives. *World Journal of Surgery*. 2011, vol. 35, suppl. 1, p. 139. IF 2.693
18. PAVLÍK, M., POHANKA, M., NOVOTNÝ, L., ŽĐÁROVÁ KARASOVÁ, J., KUČA, K., PIKULA, J. HI-6 and obidoxime are implicated in cerebral cortex and liver oxidative stress and apoptosis. *Toxicology Letters*. 2011, vol. 205, suppl. 1, p. S274–S275. IF 3.581
19. PIKULA, J., DAMKOVÁ, V., BANDŮCHOVÁ, H., PASKOVÁ, V., HILSCHEROVÁ, K., POHANKA, M., ONDRÁČEK, K., VITULA, F. Effects of cyanotoxins and lead on avian reproduction. *Toxicology Letters*. 2011, vol. 205, suppl. 1, p. S251. IF 3.581
20. SOUKUP, O., PATOČKA, J., ŽĐÁROVÁ KARASOVÁ, J., POHANKA, M., JUN, D., KUČA, K. The tacrine derivative 7-MEOTA in the treatment of AD. *Journal of Nutrition Health & Aging*. 2011, vol. 15, no. 1, p. S27. IF 2.484

21. STŘÍTECKÁ, H., HLÚBIK, P. Dietary habits of children at basic school in district Hradec Kralove. *Annals of Nutrition and Metabolism*. 2011, vol. 58, no. S3, p. 133. IF 2.173
22. STŘÍTECKÁ, H., HLÚBIK, P. Physical activity of school children. *Obesity Reviews*. 2011, vol. 12, suppl.1, p. 123. IF 5.862
23. STŘÍTECKÁ, H., HLÚBIK, P. Serum level of selected components of antioxidant system depending on nutrition habits. *Annals of Nutrition and Metabolism*. 2011, vol. 58, no. S3, p. 132. IF 2.173
24. SVOBODOVÁ, H., JOŠT, P., ŠTĚTINA, R. Genototoxicity of HI-6 oxime as tested in vitro on human cells and in vivo in rats and mice. *Toxicology Letters*. 2011, vol. S205, p. S110. IF 3.581
25. ŠTĚTINA, R., JOŠT, P., SVOBODOVÁ, H. The induction and repair of inter-strand DNA cross-links (ICL) with sulphur mustard (SM) in normal and DNA repair deficient human cells. *Toxicology Letters*. 2011, vol. 205S, p. S110. IF 3.581
26. ŠUBRT, Z., FERKO, A., JON, B., ČEČKA, F. Laparoscopic major hepatectomy: experience from single center. *World Journal of Surgery*. 2011, vol. 35, suppl. 1, p. 234. IF 2.693
27. VAŠATOVÁ, M., HORÁČEK, J., TICHÝ, M., JEBAVÝ, L., MALÝ, J. The use of cardiac biomarkers in detection of cardiotoxicity induced by conventional and high-dose chemotherapy for acute leukemia. *Clinical Chemistry and Laboratory Medicine*. 2011, vol. 49, no. 1, p. S837. IF 2.069
28. ZÁRYBNICKÁ, L., ŠINKOROVÁ, Z., KROČOVÁ, Z., ŠINKORA, J. Mitochondrial membrane potential analyse within the frame of biodosimetric studies. *Programme guide & book of abstracts of 14th International Congress of Radiation Research*. 2011, p. 84. IF 3.66
29. ŽDÁROVÁ KARASOVÁ, J., POHANKA, M., PAVLÍK, M., KASSA, J., MUSÍLEK, K., ZEMEK, F., KUČA, K. Distribution study of acetylcholinesterase reactivators after application of therapeutic doses in guinea pigs. *Toxicology Letters*. 2011, vol. 205, p. S116–116. IF 3.581

ABSTRACTS

1. BAJGAR, J., KASSA, J. From the research of cholinesterase reactivators to the effective therapy of organophosphate/nerve agent poisoning. In *Abstract of the Interdisciplinary Toxicology Conference TOXCON 2011*. 2011, p. A21–A22.
2. BANĎOUCHOVÁ, H., POHANKA, M., OSIČKOVÁ, J., ONDRÁČEK, K., KRÁL, J., VITULA, F., TREML, F., PIKULA, J. Effects of sublethal exposure of European brown hares to pesticides on the course of tularemia. *Interdisciplinary Toxicology*. 2011, vol. 4, no. 2, p. A22–A23.
3. BLANAŘ, R., BUBENÍK, Z. Czech Army Medical Service concept. In *Sborník příspěvků 11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*. 2011, p. 1.
4. ČECH, P., BUREŠ, V., OTČENÁŠKOVÁ, T., ANTOŠ, K., VANĚK, J. Simulation of an emergency situation caused by biochemical incident In *Prehospital and Disaster Medicine*. 2011, vol. 26, no. 5, p. 62. ISSN 1049-023X
5. DAMKOVÁ, V., SEDLÁČKOVÁ, J., BANĎOUCHOVÁ, H., PECKOVÁ, L., VITULA, F., HILSCHNEROVÁ, K., PASKOVÁ, V., KRÁL, J., OSIČKOVÁ, J., ONDRÁČEK, K., POHANKA, M., PIKULA, J. Effects of cyanotoxins and lead on avian reproduction. *Interdisciplinary Toxicology*. 2011, vol. 4, no. 2, p. A27.
6. DRTINOVÁ, L., SOBOTKA, J., KUČA, K., POHANKA, M. Effect of huperzine on oxidative stress in laboratory animal's brain, liver, spleen and kidney. *Psychiatrie*. 2011, vol. 15, no. suppl. 1, p. 46.
7. FAJFROVÁ, J., HUSÁROVÁ, M., PAVLÍK, V., BEDNARČÍK, P., HLÚBIK, P. Change of metabolic rate and substrate utilization in individuals with obesity. *Endokrynologia, Otyłość i Zaburzenia Przemiany Materii*. 2011, vol. 7, no. 1, p. 61.
8. FAJFROVÁ, J., PAVLÍK, V., HLÚBIK, P., ŠAFKA, V., FEJFAR, T., JIRKOVSKÝ, V., HÚLEK, P. Metabolic aspect of chronic liver diseases. *Gastroenterologie a hepatologie*. 2011, vol. 65, no. 1, p. 32–33.
9. FERKO, A., ŠUBRT, Z., LEŠKO, M., ČEČKA, F., JON, B. Laparoscopic right trisectionectomy: videoclip. *World Journal of Surgery*. 2011, vol. 35, suppl. 1, p. 209.
10. GHOSH, KK., KUČA, K., MAREK, J. Structural aspects of oxime based reactivators of cholinesterases as nucleophile. In *Abstracts of 7th World Congress on CBRN Threat and Terrorism*. 2011, p. 58.
11. HAMULÁKOVÁ, S., JANOVEC, L., KUČA, K., KRISTIAN, P., BAŇASOVÁ, M., IMRICH, J. Novel tacrine derivatives characterized by high potent inhibition of acetylcholinesterase appropriate for treatment of Alzheimer's disease. *ChemZi*. 2011, vol. 13, no. 7, p. 216.

12. HLÚBIK, P., HLÚBIK, J., STRÍTECKÁ, H. Toxic environment and obesity menace. *Interdisciplinary Toxicology*. 2011, vol. 4, no. 2, p. A32.
13. HLÚBIK, P., STRÍTECKÁ, H. The incidence of metabolic syndrome among professional soldiers. *Cor et Vasa*. 2011, vol. 53, no. 3, p. 200–201.
14. HORÁČEK, J., JEBAVÝ, L., VAŠATOVÁ, M., KUPSA, T., ŽÁK, P., TICHÝ, M., MALÝ, J. Plasma cytokine and growth factor levels in acute myeloid leukemia patients. *Transfúze a hematologie dnes*. 2011, vol. 17, no. 2, p. 51.
15. HORÁČEK, J., JEBAVÝ, L., VAŠATOVÁ, M., PUDIL, R., TICHÝ, M., MALÝ, J. The use of cardiac biomarkers in assessment of cardiotoxicity of anticancer therapy. *Vnitřní lékařství*. 2011, vol. 57, no. 5 (suppl.1), p. 1P13–1P14.
16. HORÁČEK, J., JEBAVÝ, L., VAŠATOVÁ, M., ŽÁK, P., LÁNSKÁ, M., TICHÝ, M., MALÝ, J. Assessment of cardiotoxicity induced by conventional and high-dose chemotherapy for acute leukemia with multiple biomarkers of cardiac injury. In *Abstracts of COSTEM*. 2011, p. P4.
17. HORÁČEK, J., JEBAVÝ, L., ŽÁK, P., VAŠATOVÁ, M., PUDIL, R., TICHÝ, M., MALÝ, J. The use of cardiac biomarkers in detection of cardiotoxicity associated with stem cell transplantation for hematological malignancies. In *Abstracts of COSTEM*. 2011, p. P3–P4.
18. HROUDOVÁ, J., FIŠAR, Z., KORÁBEČNÝ, J., KUČA, K. In vitro effects of tacrine, 7-MEOTA and oximes on MAO-A, MAO-B and electron transport chain komplex I activity. *Psychiatrie*. 2011, vol. 15, suppl. 1, p. 55.
19. CHLÍBEK, R. The vaccination schedule for adults In *Sborník abstrakt – 7. Hradecké vakcinologické dny*. Praha: Česká vakcinologická společnost, 2011, p. 22. ISBN 978-80-260-0335-9
20. JAKL, M., MALÝ, J., FÁTOROVÁ, I., JEBAVÝ, L., PUDIL, R., ŠEVČÍK, R., VOJÁČEK, J. Relation between mean platelet volume, platelet count, response to antiplatelet treatment and two-year mortality in patients with acute coronary syndrome. *Cor et Vasa*. 2011, vol. 53, no. 4,
21. JEŽEK, B., VANĚK, J., PROCHÁZKA, M., ANTOŠ, K. Simulation of transport during a major incident In *Prehospital and Disaster Medicine*. 2011, vol. 26, no. 5, p. 152. ISSN 1049-023X
22. JUN, D., SOUKUP, O., KRŮŠEK, J., KRIŠTOFIKOVÁ, Z., PROŠKA, J., FUSEK, J., MUSÍLEK, K., KUČA, K. Cholinergic properties of 10-methylacridinium. In *Abstracts of the Conference Nicotinic Acetylcholine Receptors 2011*. 2011, p. 48.
23. JUN, D., SOUKUP, O., MUSÍLEK, K., ŽDÁROVÁ KARASOVÁ, J., KUČA, K. Comparison of biological properties of tacrine and its derivative 7-methoxytacrine by in vitro methods. *Psychiatrie*. 2011, vol. 15, suppl. 1, p. 58.

24. KORÁBEČNÝ, J., HOLAS, O., BINDER, J., ZEMEK, F., MAREK, J., MUSÍLEK, K., POHANKA, M., OPLETALOVÁ, V., DOHNAL, V., KUČA, K. Synthesis and in vitro evaluation of N-akyl-7-methoxytacrine hydrochlorides as potential cholinesterase inhibitors for Alzheimer's disease. *Psychiatrie*. 2011, vol. 15, suppl. 1, p. 55.
25. KORÁBEČNÝ, J., MUSÍLEK, K., HOLAS, O., OPLETALOVÁ, V., DOHNAL, V., HROUDOVÁ, J., FIŠAR, Z., PATOČKA, J., KUČA, K. 7-MEOTA derivatives based human cholinesterase inhibitors. In *Alzheimer's Research UK. 12th Annual Network Conference*. 2011, p. 36.
26. KROČOVÁ, Z., MACELA, A., KUBELKOVÁ, K. Reaction of B cell to Francisella tularensis infection. In *IMPULSE 2011: Immune-related Pathologies*. 2011, p. 54.
27. KROČOVÁ, Z., MACELA, A., KUBELKOVÁ, K., ŽIVNÁ, L. The role of B cells in early stage primary and secondary immune response to intracellular pathogen Francisella tularensis. In *Frontiers in Immunology Research Network, Abstracts*. 2011, p. 68.
28. KROČOVÁ, Z., MACELA, A., KUBELKOVÁ, K., ŽIVNÁ, L. The role of B cells in the course of Francisella tularensis infection. In *Abstract Book of ESF: B cells and protection: Back to Basics*. 2011, p. 27.
29. KUBELKOVÁ, K., KROČOVÁ, Z., MACELA, A. Host Response To Radiation And Passive Transfer Of Immunity Against Francisella Tularensis. *Journal of Vaccine and Vaccination*. 2011, vol. 2, no. 4, p. 145.
30. KUČA, K., MUSÍLEK, K., JUN, D., POHANKA, M., ŽDÁROVÁ KARASOVÁ, J., SOUKUP, O., HRABINOVÁ, M., KASSA, J. Development of novel acetylcholinesterase reactivators – antidotes for organophosphorus pesticide poisonings. In *Abstracts of the 61st Czech-Slovak Pharmacological Days and EPHAR Symposium*. Brno: Tribun, 2011, p. 87. ISBN 978-80-7399-770-0
31. KUČA, K., MUSÍLEK, K., JUN, D., POHANKA, M., ŽDÁROVÁ KARASOVÁ, J., SOUKUP, O., MAREK, J., KORÁBEČNÝ, J., HRABINOVÁ, M., KASSA, J. Development of novel acetylcholinesterase reactivators – antidotes for organophosphorus pesticide poisonings. *ChemZi*. 2011, vol. 13, no. 7, p. 225.
32. KUČA, K., MUSÍLEK, K., JUN, D., ŽDÁROVÁ KARASOVÁ, J., POHANKA, M., KASSA, J. Novel acetylcholinesterase reactivators. In *Abstracts of 7th. World Congress on CBRN Threat and Terrorism*. 2011, p. 38.
33. LOCHMAN, P., LEŠKO, M., PÁRAL, J. Primary gastric lymphoma infiltrating spleen, pancreas and transverse colon. In *Programový sborník*. Praha: Covidien ECE, 2011, p. 23. ISBN 978-80-254-9882-8

34. LOCHMAN, P., LEŠKO, M., PÁRAL, J. Primary gastric lymphoma invading spleen, pancreas and transverse colon. In *Abstracts of 21st World Congress of the International Association of Surgeons, Gastroenterologists and Oncologists*. 2011, vol. 58, no. November 2011, p. 148.
35. LOCHMAN, P., ŠUBRT, Z., PÁRAL, J., HOFFMANN, P. Elective laparoscopic cholecystectomy in patient with situs viscerum inversus totalis. In *Abstracts of 21st World Congress of the International Association of Surgeons, Gastroenterologists and Oncologists*. 2011, vol. 58, no. November 2011, p. 100.
36. MUSÍLEK, K., KOMŮOVÁ, M., BENEK, O., RODER, J., PILCHOVA, O., FURI, I., HOROVÁ, A., HOLAS, O., KUČA, K. Modified peripherally acting bisquaternary cholinesterase inhibitors might be also cholinergic receptors modulators. In *Book of abstracts of Chemical and Biological Defense Science and Technology Conference*, 2011, p. T16–030.
37. MUSÍLEK, K., KORÁBEČNÝ, J., HOLAS, O., HOROVÁ, A., PATOČKA, J., KUČA, K. 7-MEOTA – cholinesterase inhibitor with improved pharmacological properties. In *Book of abstracts of Alzheimer's Research UK 12th Annual Network Conference*, 2011, p. 46.
38. MUSÍLEK, K., RODER, J., HOROVÁ, A., SOUKUP, O., KUČA, K. Analogues of SAD-128 and their effects towards cholinesterases and nicotinic or muscarinic receptors. In *Book of abstracts of Nicotinic Acetylcholine Receptors 2011 Conference*, 2011, p. 51.
39. MUSÍLEK, K., ZEMEK, F., HOROVÁ, A., HOLAS, O., DOHNAL, V., KUČA, K. Monooxime monoquaternary cholinesterase reactivators with modified side chain – preparation, in vitro screening and molecular modelling study. In *Book of abstracts of 13th Medical Chemical Defence Conference*, 2011, p. 40.
40. PAŘÍZEK, P., TAUCHMAN, M., TUŠL, Z., MĚŠŤAN, M., VYLETOVÁ, L., ČERMÁKOVÁ, E., HAMAN, L. Long-term follow-up of patients with implantable cardioverter-defibrillator. *Cardiology Letters*. 2011, vol. 20, 2011, no. 1, p. 1–96.
41. PAVLÍK, V., FAJFROVÁ, J., HUSÁROVÁ, M., HLÚBIK, P. The prevention of obesity in the Army of the Czech Republic. In *Obezitologie a geriatrie – Sborník abstrakt*. 2011, p. 8.
42. PAVLÍK, V., FAJFROVÁ, J., HUSÁROVÁ, M., HLÚBIK, P., DRAHOKOUPILOVÁ, E. Nutrient composition of combat ration in the Army of the Czech Republic. *Interdisciplinary Toxicology*. 2011, vol. 4, no. 2, p. 53.
43. PAVLIŠ, O., POHANKA, M., PIKULA, J. Galantamine and his effect on tularemia infected mouse In *Sborník příspěvků 15. Setkání biochemiků a molekulárních biologů*. Brno: Masarykova univerzita, 2011, p. 19. ISBN 978-80-210-5594-0

44. POHANKA, M., NOVOTNÝ, L., KORÁBEČNÝ, J., SOBOTKA, J., KUČA, K. Influence of trichlorfon (metrifonate) on brain of laboratory animal: adverse effects of irreversible inhibitor of acetylcholinesterase. *Psychiatrie*. 2011, vol. 15, suppl. 1, p. 57. ISSN 1211-7579
45. POHANKA, M., SOBOTKA, J., DRTINOVÁ, L., HRABINOVÁ, M., PIKULA, J., KUČA, K. Alzheimer's disease drug huperzine: oxidative stress responses after the therapeutic dose and overdosing in laboratory animal model. *Interdisciplinary Toxicology*. 2011, vol. 4, no. 2, p. A55–A56.
46. POTÁČ, M., PSUTKA, J., RŮŽIČKA, M., MRVEČKA, P. The immediate burial services. In *Sborník příspěvků 8. ročníku celostátní konference Medicína katastrof. Zkušenosti, příprava, praxe*. Hradec Králové: ZSA, 2011, p. 61–64. ISBN 978-80-905089-0-3
47. POTÁČ, M., PSUTKA, J., RŮŽIČKA, M., MRVEČKA, P. The activity of DVI teams at emergency with a large amount of victims. In *Sborník abstrakt Odborné konference Organizácia zdravotníckého zásahu pri nešťastiach s hromadným postihnutím osob*. Dobrá Niva: Slovenská zdravotnícka univerzita Bratislava, 2011, p. 32–41. ISBN 978-80-970-668-7-1
48. PRYMULA, R. Will epidemics of parotitis repeat? In *Sborník abstrakt – 7. Hradecké vakcinologické dny*. Praha: Česká vakcinologická společnost, 2011, p. 34. ISBN 978-80-260-0335-9
49. PRYMULA, R. Intradermal influenza vaccination – practical experience. In *Sborník abstrakt – 7. Hradecké vakcinologické dny*. Praha: Česká vakcinologická společnost, 2011, p. 37. ISBN 978-80-260-0335-9
50. PRYMULA, R. Present possibilities in the prevention of pneumococcal infections. In *Sborník abstrakt – 7. Hradecké vakcinologické dny*. Praha: Česká vakcinologická společnost, 2011, p. 36. ISBN 978-80-260-0335-9
51. PRYMULA, R. Present approaches to vaccination in the world. In *Sborník abstrakt – 7. Hradecké vakcinologické dny*. Praha: Česká vakcinologická společnost, 2011, p. 35. ISBN 978-80-260-0335-9
52. PSUTKA, J., MALÝ, V., HUMLÍČEK, V. Advanced course MEDEVAC – usage of helicopter. In *Sborník příspěvků 8. ročníku celostátní konference Medicína katastrof. Zkušenosti, příprava, praxe*. Hradec Králové: ZSA, 2011, p. 68–69. ISBN 978-80-905089-0-3
53. RŮŽIČKA, M., HUMLÍČEK, V., PUDÍK, P. The Czech Army Medical Service officers' view on predeployment training and deployment in foreign operations. In *Sborník příspěvků 11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*. 2011, p. 1.
54. RŮŽIČKA, M., PUDÍK, P. Survey research – Czech Army Medical Service personnel opinions on the preparation and deployment in foreign operations. In *Sborník příspěvků 6. ročníku doktorandské*

- konference na téma: Nové přístupy k zabezpečení obrany.* Brno: Univerzita obrany, 2011, p. 28–31. ISBN 978-80-7231-775-2
55. SMETANA, J., CHLÍBEK, R., BOŠTÍKOVÁ, V. Vaccination of adults with COPD and bronchial asthma. In *Sborník abstrakt – 7. Hradecké vakcinologické dny*. Praha: Česká vakcinologická společnost ČLS JEP, 2011, p. 38. ISBN 978-80-260-0335-9
 56. SOUKUP, O., JUN, D., FUSEK, J., KUČA, K. The interaction of oxime reactivators with muscarinic and nicotinic receptors. *Psychiatrie*. 2011, vol. 15, no. 1, p. 46.
 57. SOUKUP, O., JUN, D., TOBIN, G., FUSEK, J., KUČA, K. Non-reactivation properties of oxime reactivators. In *Chemical and Biological Defense Science and Technology Conference 2011*. 2011, p. 53.
 58. SOUKUP, O., KRUŠEK, J., KANIAKOVÁ, M., KUČA, K. The interaction of oxime reactivators with the nicotinic receptors – in vitro evaluation. In *Nicotinic Acetylcholine Receptors, 2011*. p. P72.
 59. SOUKUP, O., KRUŠEK, J., KRIŠTOFÍKOVÁ, Z., JUN, D., PROŠKA, J., FUSEK, J., KUČA, K. Methylacridinium and its cholinergic properties. *AD/PD*. 2011, p. 144.
 60. SOUKUP, O., KUČA, K. The interaction of oxime reactivators with the nicotinic receptors – in vivo evaluation. In *Abstracts of the Conference Nicotinic Acetylcholine Receptors 2011*. 2011, p. P48.
 61. SOUKUP, O., MUSÍLEK, K., KOMLOOVÁ, M., HOLAS, O., HOROVÁ, A., KUČA, K. Small quaternary ACHE inhibitors for MG treatment-synthesis, in vitro screening and molecular modelling studies. *ChemZi*. 2011, vol. 7, no. 13, p. 239. ISSN 1336-7242
 62. STŘÍTECKÁ, H., HLÚBIK, P. Effect daily consumption of a fermented milk product enriched with protein and fibre on satiation and satiety. In *Conference proceedings – Food and Function 2011*. Košice: Pamida International, 2011, p. 43. ISBN 978-80-970168-9-0
 63. STŘÍTECKÁ, H., HLÚBIK, P. Effect of a fermented milk product enriched with protein and fibre to satiation and weight reduction. *CMR Journal*. 2011, p. 105.
 64. STŘÍTECKÁ, H., HLÚBIK, P. Evaluation of eating and physical activity habits of primary school children. *DALM – 17. International Symposium, Final program and abstract book*. 2011, p. 96.
 65. STŘÍTECKÁ, H., HLÚBIK, P. Obese and overweight children and their dietary habits. *CMR Journal*. 2011, p. 120.
 66. STŘÍTECKÁ, H., HLÚBIK, P. Occurrence of metabolic syndrome between soldiers of the Czech forces. *CMR-journal*. 2011, p. 90.
 67. STŘÍTECKÁ, H., HLÚBIK, P. Prevalence of metabolic syndrome at professional soldiers. In *Obezitologie a geriatrie – Sborník abstrakt*. Praha: Česká obezitologická společnost JEP, 2011, p. 55. ISBN 978-80-904206-7-0

68. STŘÍTECKÁ, H., HLÚBIK, P. Prevalence of overweight and obesity among members of the Army in an international comparison. In *Sborník konference Výživa a zdraví 2011 – primární prevence výživou již od dětského věku*. Ústí nad Labem: Zdravotní ústav Ústí nad Labem, 2011, p. 54. ISBN 978-80-904206-7-0
69. STŘÍTECKÁ, H., HLÚBIK, P. Project of health support for obese patients with DM II type – changes of serum lipids level. In *DALM – 17. International Symposium, Final program and abstract book*. 2011, p. 96
70. STŘÍTECKÁ, H., HLÚBIK, P. Selected components of antioxidants system – their serum level depending on nutrition habits. In *Program of 11th INDC*. Pardubice: Univerzita Pardubice, 2011, p. 99. ISBN 978-80-7395-378-2
71. STŘÍTECKÁ, H., HLÚBIK, P. Serum level of selected components of antioxidants system. *Interdisciplinary Toxicology*. 2011, vol. 4, no. 2, p. A63.
72. STŘÍTECKÁ, H., HLÚBIK, P. The suitability of using BMI to evaluate the incidence of overweight and obesity at professional soldiers. In *Program – Obezitologie a Bariatrie 2011*. Praha: Česká obezitologická společnost, 2011, p. 54. ISBN 978-80-904206-7-0
73. STŘÍTECKÁ, H., HLÚBIK, P. Lifestyle elementary school pupils at Hradec Kralove, Liberec and Pardubice Region. In *Sborník konference Výživa a zdraví 2011 – primární prevence výživou již od dětského věku*. Ústí nad Labem: Zdravotní ústav Ústí nad Labem, 2011, p. 39. ISBN 978-80-904206-7-0
74. STŘÍTECKÁ, H., HLÚBIK, P., PÁLENÍK, P., KAŠPER, Š., ŘEZÁČ, D., MIKULECKÝ, J. Knowledge and compliance with healthy dietary habits in the general population. In *Sborník konference Výživa a zdraví 2011 – primární prevence výživou již od dětského věku*. Ústí nad Labem: KHS, 2011, p. 54. ISBN 978-80-904206-7-0
75. STŘÍTECKÁ, H., HLÚBIK, P., PEREGRINOVA, J. Lifestyle elementary school pupils at Hradec Kralove, Liberec and Pardubice Region. In *Sborník konference Výživa a zdraví 2011 – primární prevence výživou již od dětského věku*. Ústí nad Labem: KHS, 2011, p. 39. ISBN 978-80-904206-6-3
76. STŘÍTECKÁ, H., PEREGRINOVA, J., HLÚBIK, P. Eating and exercise habits of schoolchildren. *Cor et Vasa*. 2011, vol. 53, no. 3, p. 206.
77. ŠEMBERA, Š., FEJFAR, T., ŠAFKA, V., JIRKOVSKÝ, V., FAJFROVÁ, J., HŮLEK, P. Survival of patients after TIPS in FH HK. *Gastroenterologie a hepatologie*. 2011, vol. 65, no. 1, p. 36.
78. ŠTĚTINA, R., FIKROVÁ, P., SVOBODOVÁ, H., JOŠT, P., STREJČKOVÁ, L. The assay for measuring the individual capacity of nucleotide excision DNA repair. *Interdisciplinary Toxicology*. 2011, p. A61.

79. VODIČKOVÁ, L., HANOVÁ, M., VÁCLAVÍKOVÁ, R., ŠTĚTINA, R. DNA repair gene expressions in styrene- exposed individuals and in cancer patients. *Interdisciplinary Toxicology*. 2011, vol. 4, no. 2, p. A66.
80. ZÁRYBNICKÁ, L., ŠINKOROVÁ, Z., VÁVROVÁ, J. In vivo irradiation and tools of biodosimetry. In *Abstracts book of 2011 Chemical and Biological Defense Science and Technology Conference*. 2011, p. 138.
81. ZAVŘELOVÁ, A., ŽÁK, P., RADOCHA, J., CERMANOVÁ, M., LÁNSKÁ, M., JEBAVÝ, L., MALÝ, J. To perform or not to perform T-cell depletion in unrelated stem cell transplantation? *Bone Marrow Transplantation*. 2011, vol. 2011, no. 46, suppl. 1, p. S113.
82. ŽEJŠKOVÁ, L., PLACHÝ, R., MAZAL, O., VYDRA, J., KOZÁK, T., KARAS, M., KOZA, V., HORÁČEK, J., ŽÁK, P., PEKOVÁ, S. Assessment of minimal residual disease in patients with hematological diseases. *Transfúze a hematologie dnes*. 2011, vol. 17, no. 2, p. 86.

PRESENTATIONS AND POSTERS

1. BABICOVÁ, A., HAVLÍNOVÁ, Z., CHLÁDEK, J., ŘEZÁČOVÁ, M., HROCH, M., PEJCHAL, J., VÁVROVÁ, J. Markers of oxidative and nitrosative stress in response to developing radiation pneumonitis. Warsaw, Poland, *14th International Congress of Radiation Research*, 28. 8.–1. 9. 2011. /POSTER/
2. BAJGAR, J. Medical countermeasures in case of threat or use of nerve agents. Cavtat – Dobrovnik, Croatia, CBMTS Industry 7st World Congress on CBRN Threat and Terrorism, 10.–15. 4. 2011.
3. BAJGAR, J., KASSA, J. From the research of cholinesterase reactivators to the effective therapy of organophosphate/nerve agent poisoning. Praha, *Interdisciplinary Toxicology Conference TOXCON 2011*, 17.–20. 5. 2011.
4. BAJGAR, J., KASSA, J., POHANKA, M. Possible approaches to the development of universal cholinesterase reactivator. Paris, France, *EUROTOX, 47th Congress of the European Societies of Toxicology*, 28.–31. 8. 2011. /POSTER/
5. BALONOVÁ, L. Combining glycoproteomics analyses with a mass spectrometry in the study of intracellular *Francisella tularensis* glycoproteome. Praha, *Proteomics & Life II*, 22. 3. 2011.
6. BALONOVÁ, L., MANN, B., HERNYCHOVÁ, L., BILKOVA, Z., NOVOTNÝ, M., STULÍK, J. Structural elucidation of the glycosylation of *Francisella tularensis* immunoreactive proteins using a nanoLC-ESI-FT-ICR mass spectrometer. Vienna, Austria, *21st International symposium on glycoconjugates (Glyco21)*, 21.–26. 8. 2011. /POSTER/
7. BALONOVÁ, L., MANN, B., HERNYCHOVÁ, L., ŽÁKOVÁ, J., ČERVENÝ, L., NOVOTNÝ, M., STULÍK, J. Characterization of glycosylation of the *Francisella tularensis* DsbA homolog. Munich, Germany, *Medical Biodefense Conference 2011*, 25.–28. 10. 2011. /POSTER/
8. BANĎOUCHOVÁ, H., PIKULA, J., POHANKA, M., OSIČKOVÁ, J., ONDRÁČEK, K., KRÁL, J., VITULA, F., TREML, F. Pesticides modulate the course of tularemia in European brown hares. Paris, France, *47th Congress of the European Societies of Toxicology*, 20.–28. 8. 2011. /POSTER/
9. BANĎOUCHOVÁ, H., POHANKA, M., OSIČKOVÁ, J., ONDRÁČEK, K., KRÁL, J., VITULA, F., TREML, F., PIKULA, J. Effects of sublethal exposure of European brown hares to pesticides on the course of tularemia. Praha, *Toxcon 2011, Interdisciplinary Toxicology Conference*, 17–20. 5. 2011. /POSTER/

10. BLANAŘ, R., BUBENÍK, Z. Czech Army Medical Service concept. Hradec Králové, *11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19.10. 2011.
11. BOŠTÍKOVÁ, V. Differentiation vaccine and wild type strains of VZV using molecular genetic methods. Praha, *Problematika respiračních, střevních a exantemických virových nákaz*, 22. 11. 2011.
12. BOŠTÍKOVÁ, V., CHLÍBEK, R., SMETANA, J., HANOVCOVÁ, I., ŠPLIÑO, M. Gene polymorphism of VZV DNA. Braga, Portugal, *MicroBio Conference*, 1.–3. 12. 2011.
13. BOŠTÍKOVÁ, V., CHLÍBEK, R., SMETANA, J., ŠPLIÑO, M., BOŠTÍK, P. Molecular epidemiology of VZV in Czech republic – prospective study. Braga, Portugal, *MicroBiotech*, 1.–3. 12. 2011.
14. BRADOVÁ, K., HALAJČUK, T. Managerial competence of ward nurses. Opava, *Mezinárodní konference Uplatnění absolventů v ošetrovatelské praxi*, 23. 11. 2011. /POSTER/
15. BRNDIAR, M., KAČEROVSKÝ, J., JEBAVÝ, L., HORÁČEK, J. Potential involvement kidney and urinary tract in bioterrorism. Olomouc, *57. konference vojenských internistů s mezinárodní účastí*, 9.–11. 11. 2011.
16. BRNDIAR, M., KAČEROVSKÝ, J., JEBAVÝ, L., HORÁČEK, J. Potential involvement kidney in bioterrorism. Hradec Králové, *11. konference Odborné společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011.
17. BRTKO, M., JAKL, M., BIS, J., ŠTÁSEK, J., MAKEŠOVÁ, M., POLANSKÝ, P., DUŠEK, J., VOJÁČEK, J. Outcomes of balloon aortic valvuloplasty. Hradec Králové, *21. workshop intervenční kardiologie*, 7.–8. 4. 2011.
18. CMIELOVÁ, J., HAVELEK, R., KOHLEROVÁ, R., BRUCKOVÁ, L., SOUKUP, T., VÁVROVÁ, J., MOKRÝ, J., ŘEZÁČOVÁ, M. Short shrift with DNA damage caused by irradiation in dental pulp and periodontal ligament stem cells. Torino, Italy, *36th FEBS Congress of the Biochemistry for Tomorrows Medicine*, 25.–30. 6. 2011. /POSTER/
19. ČÁP, R. Microsurgical breast reconstruction. Zámek Hrubá Skála, *12. mezioborové klinické symposium českých regionů v oblasti miniinvasivních metod ve vnitřním lékařství*, 27.–29. 5. 2011.
20. ČÁP, R. Treatment strategies tendon injury hand. Hradec Králové, *11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011.
21. ČÁP, R. Dog bite injuries – case studies. Hradec Králové, *11. regionální chirurgická konference sester*, 4. 11. 2011.
22. ČEČKA, F., JON, B., FERKO, A., ŠUBRT, Z. Clinical and economic consequences of pancreatic fistula after pancreatic resection. Hradec Králové, *13. Bedrnův den s mezinárodní účastí*, 28.–29. 4. 2011.

PRESENTATIONS AND POSTERS

23. DAMKOVÁ, V., SEDLÁČKOVÁ, J., BANDOUCHOVÁ, H., PECKOVÁ, L., VITULA, F., HILSCHNEROVÁ, K., PASKOVÁ, V., KRÁL, J., OSIČKOVÁ, J., ONDRÁČEK, K., POHANKA, M., PIKULA, J. Effects of cyanotoxins and lead on avian reproduction. Praha, *Toxcon 2011, Interdisciplinary Toxicology Conference*, 17.–20. 5. 2011. /POSTER/
24. DAŇKOVÁ, V. Membrane lipoprotein FTL_1723 containing tetracopeptide domain is important for virulence mechanism of the intracellular pathogen *Francisella tularensis*. Wurzburg, Germany, *Mol Micro Meeting*, 4.–6. 5. 2011. /POSTER/
25. DAŇKOVÁ, V. Study of the role of proteins containing tetratricopeptide domain in virulence mechanism of the intracellular pathogen *Francisella tularensis*. Geneva, Switzerland, *4th Congress of European Microbiologists FEMS 2011*, 26.–30. 6. 2011. /POSTER/
26. DAŇKOVÁ, V. Study of the role of proteins containing tetratricopeptide domain in virulence mechanism of the intracellular pathogen *Francisella tularensis*. Hradec Králové, *Postgraduální vědecká konference*, 1. 2. 2011.
27. DAŇKOVÁ, V. Study of the role of proteins containing tetratricopeptide domain in virulence mechanism of the intracellular pathogen *Francisella tularensis*. Munich, Germany, *Medical Biodefense Conference 2011*, 25.–28. 10. 2011. /POSTER/
28. DOBEŠ, D., BĚLOBRÁDEK, Z., JIŠKA, S. Myotic a. carotis interna aneurysm. Harrachov, 38. *Šerclovy dny*, 14.–15. 10. 2011.
29. DOBEŠ, D., BĚLOBRÁDEK, Z., JIŠKA, S. Carotid endarterectomy set for 3 years. Harrachov, 38. *Šerclovy dny*, 14.–15. 10. 2011.
30. DRTINOVÁ, L., POHANKA, M. Comparison of huperzine antioxidant properties with other compounds implicated in cholinergic system. Hradec Králové, *11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011. /POSTER/
31. DRTINOVÁ, L., SOBOTKA, J., KUČA, K., POHANKA, M. Effect of huperzine on oxidative stress in laboratory animal's brain, liver, spleen and kidney. Lázně Jeseník, 53. *Česko-slovenská psychofarmakologická konference*, 5.–9. 1. 2011. /POSTER/
32. DRTINOVÁ, L., SOBOTKA, J., POHANKA, M. Huperzine and its effect on oxidative homeostasis in body of laboratory animal. Hradec Králové, *11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011. /POSTER/
33. ĎURÁČOVÁ, L., HALAJČUK, T. Management education efficiency of ward nurses in Czech republic. Tatranská kotlina, Slovakia, 2. *Belianske dni ošetrovateľstva*, 12. 11. 2011. /POSTER/

34. DUŠEK, T., FERKO, A., CHOBOLA, M., PÁRAL, J. Reinforcement of the anastomosis after resection of the rectum. Pilot experiences. Hradec Králové, *13. Bednův den s mezinárodní účastí*, 28.–29. 4. 2011.
35. FABRIK, I. Proteomic analysis of primary dendritic cells with outlook on SILAC relative quantification. Malá Úpa, *Výroční zasedání Ústavu molekulární patologie*, 15.–16. 12. 2011.
36. FABRIK, I., HÄRTLOVÁ, A., LINK, M., STRAŠKOVÁ, A., ŘEHULKA, P., STULÍK, J. Dendritic cells protein phosphorylation response in early stages of infection by fully virulent *Francisella tularensis* FSC200 and its attenuated DsbA mutant strain. Hradec Králové, *Česká konference hmotnostní spektrometrie*, 19.–21. 10. 2011. /POSTER/
37. FABRIK, I., HÄRTLOVÁ, A., LINK, M., STRAŠKOVÁ, A., ŘEHULKA, P., STULÍK, J. Phosphoproteome analysis of the murine dendritic cells in response to fully virulent *Francisella tularensis* strain and attenuated DsbA mutant strain. Geneva, Switzerland, *The 10th HUPO World Congress*, 3.–7. 9. 2011. /POSTER/
38. FAJFROVÁ, J. Main recommendation for health nutrition. Pardubice, *Výživa ve zdraví a nemoci*, 3. 11. 2011.
39. FAJFROVÁ, J. Methods for nutritional state evaluation. Pardubice, *ABC zdravé výživy*, 21. 4. 2011.
40. FAJFROVÁ, J. Daily water intake, food components, nutritional labeling. Pardubice, *ABC zdravé výživy*, 21. 4. 2011.
41. FAJFROVÁ, J. Preventive program for individuals in risk of NAFLD and metabolic syndrome development: Energy and substrate metabolism. Hradec Králové, *5. fakultní konference studentů doktorských programů*. 4.10. 2011.
42. FAJFROVÁ, J. Importance of nutritional state. Pardubice, *ABC zdravé výživy*, 21. 4. 2011.
43. FAJFROVÁ, J. Importance of nutritional state and its influence for overall health. Pardubice, *Výživa ve zdraví a nemoci*, 3. 11. 2011.
44. FAJFROVÁ, J. Nutrition and health – principles of health lifestyle. Pardubice, *ABC zdravé výživy*, 21. 4. 2011.
45. FAJFROVÁ, J. Nutrition in prevention and therapy of obesity. Bratislava, Slovakia, *Lékařská konference CalViTa*, 8. 10. 2011.
46. FAJFROVÁ, J. Nutrition in prevention of civilizational diseases. Pardubice, *Výživa ve zdraví a nemoci*, 3. 11. 2011.
47. FAJFROVÁ, J. Nutritional recommendation for chronic diseases. Pardubice, *Výživa ve zdraví a nemoci*, 3. 11. 2011.
48. FAJFROVÁ, J., HUSÁROVÁ, M., PAVLÍK, V., BEDNARČÍK, P., HLÚBIK, P. Energy and substrate metabolism in initial state of metabolic disorders. Hradec Králové, *Liškutínovy dny*, 22. 6. 2011.

PRESENTATIONS AND POSTERS

49. FAJFROVÁ, J., HUSÁROVÁ, M., PAVLÍK, V., BEDNARČÍK, P., HLÚBIK, P. Energy and substrate metabolism in initial state of metabolic disorders. Nový Smokovec, Slovakia, *Životné podmienky a zdravie – 19. vedecko-odborná konferencia s medzinárodnou účasťou*, 19.–21. 9. 2011.
50. FAJFROVÁ, J., HUSÁROVÁ, M., PAVLÍK, V., BEDNARČÍK, P., HLÚBIK, P. Change of metabolic rate and substrate utilization in individuals with obesity. Olsztyn, Poland, *3rd Central European Congress on Obesity CECON 2011*, 25.–27. 8. 2011. /POSTER/
51. FAJFROVÁ, J., HUSÁROVÁ, M., PAVLÍK, V., BEDNARČÍK, P., HLÚBIK, P. Impact of obesity on metabolic rate and substrate utilization. Gothenburg, Sweden, *33rd ESPEN Congress*, 3.–6. 9. 2011. /POSTER/
52. FAJFROVÁ, J., PAVLÍK, V., HLÚBIK, P., ŠAFKA, V., FEJFAR, T., JIRKOVSKÝ, V., HŮLEK, P. Metabolic aspect of chronic liver diseases. Karlovy Vary, *39. májové hepatologické dny*, 10.–13. 5. 2011. /POSTER/
53. FAJFROVÁ, J., PAVLÍK, V., HUSÁROVÁ, M., BEDNARČÍK, P., HLÚBIK, P. Energy and substrate metabolism in initial state of metabolic disorders. Ostrava, *Obezitologie a Bariatrie 2011*, 6.–8. 10. 2011. /POSTER/
54. FAJFROVÁ, J., PAVLÍK, V., HUSÁROVÁ, M., HLÚBIK, P., BEDNARČÍK, P. Preventive program for individuals in risk of non-alcoholic fatty liver disease and metabolic syndrome development. Hradec Králové, *8th International Medical Postgraduate Conference*, 10.–12. 11. 2011.
55. FAJFROVÁ, J., PAVLÍK, V., ŠAFKA, V., FEJFAR, T., JIRKOVSKÝ, V., HŮLEK, P., HLÚBIK, P. Nutritional recommendation for patients with liver cirrhosis. Nový Smokovec, Slovakia, *Životné podmienky a zdravie – 19. vedecko-odborná konferencia s medzinárodnou účasťou*, 19.–21. 9. 2011. /POSTER/
56. FAJFROVÁ, J., PAVLÍK, V., ŠAFKA, V., FEJFAR, T., JIRKOVSKÝ, V., HŮLEK, P., HLÚBIK, P. Nutritional recommendation for patients with liver cirrhosis. Hradec Králové, *11. konference Odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011. /POSTER/
57. FIKROVÁ, P., HRNČIARIK, M., HRNČIARIKOVÁ, D., ŠTĚTINA, R., ZADÁK, Z. The monitoring of individual response to standard palliative chemotherapy in patients with advanced lung cancer : the induction and repair of DNA cross-links, DNA breaks and oxidized bases – a pilot study. Munster, Germany, *UKEMS/Dutch EMS sponsored Workshop on Biomarker of Exposure and Oxidative DNA Damage & 7th GUM 32P-Postlabelling Workshop*, 27.–30. 3. 2011. /POSTER/

58. FOLTÁNOVÁ, K., NOVOTNÁ, E., ŘEZÁČOVÁ, M., VÁVROVÁ, J., LUKÁŠOVÁ, E. Molecular mechanisms activated by fractionated radiation of the breast cancer line MCF-7. Torino, Italy, *36th FEBS Congress of the Biochemistry for Tomorrows Medicine*, 25.–30. 6. 2011. /POSTER/
59. FRANC, V., ŘEHULKA, P., ŠEBELA, M., NOVÁK, J. Analysis of O-glycopeptides from the hinge region of human IgA1 using MALDI-TOF/TOF mass spectrometry. Brixen, Italy, *5th EU-Summer School "Proteomic Basics"*, 7.–6. 8. 2011. /POSTER/
60. FRANC, V., ŘEHULKA, P., ŠEBELA, M., NOVÁK, J. Defining heterogeneity of clustered O-glycans from the hinge region of human IgA1 by use MALDI-TOF/TOF mass spectrometry. Hradec Králové, *Česká konference hmotnostní spektrometrie*, 19.–21. 10. 2011. /POSTER/
61. FRANK, M. Anterior column fracture in the elderly. Plzeň, *Bohemian-Bavarian AO Symposium*, 24.–25. 6. 2011.
62. FRANK, M. Pelvic belt as a confusing factor in pelvic fracture classifying. Plzeň, *Bohemian-Bavarian AO Symposium*, 24.–25. 6. 2011.
63. FRANK, M. Treatment of posterior wall and posterior column fractures. Plzeň, *Bohemian-Bavarian AO Symposium*, 24.–25. 6. 2011.
64. FRANK, M., DĚDEK, T., TRLICA, J., ŠMEJKAL, K., NECHVÁTAL, L. One-day surgery in trauma-surgery. Bratislava, Slovakia, *11. dni mladých chirurgov*, 9.–10. 6. 2011.
65. GHOSH, KK., KUČA, K., MAREK, J. Structural aspects of oxime based reactivators of cholinesterases as nucleophile. Cavtat – Dubrovnik, Croatia, *CBMTS Industry VII. World Congress on CBRN Threat and Terrorism*, 9.–10. 4. 2011.
66. HALAJČUK, T., PROCHÁZKA, M. Economy aspects of disasters. Hradec Králové, *8. ročník celostátní konference Medicína katastrof. Zkušenosti, příprava, praxe*, 25. 11. 2011.
67. HAMAN, L. Tromboembolism. Brno, *19. výroční sjezd České kardiologické společnosti*, 1.–4. 5. 2011.
68. HAMULÁKOVÁ, S., JANOVEC, L., KUČA, K., KRISTIAN, P., BAŇASOVÁ, M., IMRICH, J. Novel tacrine derivatives characterized by high potent inhibition of acetylcholinesterase appropriate for treatment of Alzheimer's disease. Tatranské Matliare, Slovakia, *63. Zjazd Chemikov*, 5.–9. 10. 2011. /POSTER/
69. HAVELEK, R., ŘEZÁČOVÁ, M., ŠINKOROVÁ, Z., ZÁRYBNICKÁ, L., PEJCHAL, J., VÁVROVÁ, J. Comparison of gammaH2AX increase after whole-body and partial irradiation. Torino, Italy, *FEBS Journal*, 25.–30. 6. 2011. /POSTER/
70. HERNYCHOVÁ, L. Never ending story about Francisella tularensis. Brno, *Seminář na PF MU*, 29. 11. 2011.

PRESENTATIONS AND POSTERS

71. HERNYCHOVÁ, L., NICHOLSON, J., SHARMA, C., BALL, K., MAN, P., VOJTESEK, B., HUPP, T. Interaction of MDM2 N-terminus with Nutlin-3 followed by hydrogen/deuterium exchange mass spectrometry. Brno, *2nd RECAMO Joint Meeting*, 10.–13. 10. 2011.
72. HLÚBIK, J., HLÚBIK, P., STŘÍTECKÁ, H. Body composition and its changes during non- pharmacological treatment of obesity. Špindlerův Mlýn, *15. Kongres o ateroskleróze*, 1.–3. 12. 2011. /POSTER/
73. HLÚBIK, J., LHOTSKÁ, L., HLÚBIK, P. Changes of body composition during no pharmacologic treatment of obesity. Istanbul, Turkey, *18th European Congress on Obesity*, 25.–28. 5. 2011. /POSTER/
74. HLÚBIK, P. Obesity – a problem even in the ACR. Hradec Králové, *11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011.
75. HLÚBIK, P. Prevention in conditions of global health strategy. Hradec Králové, *Lišutínovy dny*, 22. 6. 2011.
76. HLÚBIK, P., HLÚBIK, J., STŘÍTECKÁ, H. Body weight change after pharmacological stop smoking. Istanbul, Turkey, *18th European Congress on Obesity*, 25.–28. 5. 2011. /POSTER/
77. HLÚBIK, P., HLÚBIK, J., STŘÍTECKÁ, H. Toxic environment and obesity menace. Praha, *TOXCON 2011*, 17.–19. 5. 2011. /POSTER/
78. HLÚBIK, P., STŘÍTECKÁ, H., HLÚBIK, J. Non-pharmacological treatment of obesity. Špindlerův Mlýn, *15. Kongres o ateroskleróze*, 1.–3. 12. 2011. /POSTER/
79. HLÚBIK, P., STŘÍTECKÁ, H., HLÚBIK, J. Obesity and metabolic syndrome. Goteborg, Sweden, *EAS 2011*, 26.–29. 6. 2011. /POSTER/
80. HORÁČEK, J. Proposal of joint protocol for treatment of elderly acute lymphoblastic leukemia patients. Hradec Králové, *Seminář II. Interní kliniky – oddělení klinické hematologie LF a FN Hradec Králové*, 19. 1. 2011.
81. HORÁČEK, J. Report from ASH 2010 Congress. Hradec Králové, *Seminář II. Interní kliniky – oddělení klinické hematologie LF a FN Hradec Králové*, 19. 1. 2011.
82. HORÁČEK, J., JEBAVÝ, L., KUPSA, T., BRNDIAR, M., KAČEROVSKÝ, J., MALÝ, J. Prognostic markers in acute leukemia and their use for individualized therapy. Olomouc, *57. konference vojenských internistů s mezinárodní účastí*, 9.–11. 11. 2011.
83. HORÁČEK, J., JEBAVÝ, L., VAŠATOVÁ, M., KUPSA, T., ŽÁK, P., TICHÝ, M., MALÝ, J. Plasma cytokine and growth factor levels in acute myeloid leukemia patients. Olomouc, *25. Olomoucké hematologické dny s mezinárodní účastí*, 22.–25. 6. 2011.
84. HORÁČEK, J., JEBAVÝ, L., VAŠATOVÁ, M., PUDIL, R., TICHÝ, M., MALÝ, J. The use of cardiac biomarkers in assessment of cardiotoxicity

- of anticancer therapy. Olomouc, *30. dny mladých internistů*, 2.–3. 6. 2011.
85. HORÁČEK, J., JEBAVÝ, L., VAŠATOVÁ, M., TICHÝ, M., JAKL, M., BRNDIAR, M., PUDIL, R. Cardiac biomarkers and assessment of cardiotoxicity in oncology. Hradec Králové, *11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011.
 86. HORÁČEK, J., JEBAVÝ, L., VAŠATOVÁ, M., TICHÝ, M., PUDIL, R., JAKL, M. Assessment of cardiotoxicity of antitumorous treatment with circulating biomarkers. Olomouc, *57. konference vojenských internistů s mezinárodní účastí*, 9.–11. 11. 2011.
 87. HORÁČEK, J., JEBAVÝ, L., VAŠATOVÁ, M., TICHÝ, M., ŽÁK, P., LÁNSKÁ, M., MALÝ, J. Biochip array analysis of various cytokines in patients treated for acute leukemia. Paris, France, *37th Annual Meeting of the European Group for Blood and Marrow Transplantation*, 3.–6. 4. 2011. /POSTER/
 88. HORÁČEK, J., JEBAVÝ, L., VAŠATOVÁ, M., TICHÝ, M., ŽÁK, P., MALÝ, J. Glycogen phosphorylase BB as a marker of cardiac toxicity induced by high-dose and conventional chemotherapy for acute leukemia. Paris, France, *37th Annual Meeting of the European Group for Blood and Marrow Transplantation*, 3.–6. 4. 2011. /POSTER/
 89. HORÁČEK, J., JEBAVÝ, L., VAŠATOVÁ, M., ŽÁK, P., LÁNSKÁ, M., TICHÝ, M., MALÝ, J. Assessment of cardiotoxicity induced by conventional and high-dose chemotherapy for acute leukemia with multiple biomarkers of cardiac injury. Berlin, Germany, *The International Congress in Stem Cell Transplantation and Cellular Therapies (COSTEM 2011)*, 8.–11. 9. 2011. /POSTER/
 90. HORÁČEK, J., JEBAVÝ, L., ŽÁK, P., VAŠATOVÁ, M., PUDIL, R., TICHÝ, M., MALÝ, J. The use of cardiac biomarkers in detection of cardiotoxicity associated with stem cell transplantation for hematological malignancies. Berlin, Germany, *The International Congress in Stem Cell Transplantation and Cellular Therapies (COSTEM 2011)*, 8.–11. 9. 2011. /POSTER/
 91. HORÁČEK, J., VAŠATOVÁ, M., TICHÝ, M., JEBAVÝ, L., ŽÁK, P., MALÝ, J. Multiple biomarkers of cardiac injury in detection of cardiotoxicity associated with hematopoietic cell transplantation for hematological malignancies. Berlin, Germany, *IFCC WorldLab and EuroMedLab 2011*, 15.–19. 5. 2011. /POSTER/
 92. HORÁČEK, J., VAŠATOVÁ, M., TICHÝ, M., ŽÁK, P., JEBAVÝ, L., MALÝ, J. Evaluation of plasma cytokine and growth factor levels by biochip array technology in acute myeloid leukemia patients. Berlin, Germany, *IFCC WorldLab and EuroMedLab 2011*, 15.–19. 5. 2011. /POSTER/

93. HORÁČEK, J., ŽÁK, P. Our experience with GMALL 07/2003 protocol for treatment of acute lymphoblastic leukemia. Praha, *Zasedání Leukemické sekce České hematologické společnosti*, 30. 11. 2011.
94. HOŠEK, F., KLEIN, L., SLANINKA, I., ČÁP, R., TALÁBOVÁ, Z. 25 years of burn treatment in Hradec Králové – epidemiological data. Košice, Slovakia, *6th Central European Congress of Burns*, 26.–27. 5. 2011.
95. HROUDOVÁ, J., FIŠAR, Z., KORÁBEČNÝ, J., KUČA, K. In vitro effects of tacrine, 7-MEOTA and oximes on MAO-A, MAO-B and electron transport chain komplex I activity. Lázně Jeseník, 53. *Česko-slovenská psychofarmakologická konference*, 5.–9. 1. 2011. /POSTER/
96. HRSTKA, Z. Acceptance of oncological patients' needs. Olomouc, 3. *Česko-slovenská konference paliativní medicíny*, 23.–24. 11. 2011. /POSTER/
97. HRSTKA, Z. Acceptance of oncological patients' needs. Hradec Králové, 7. *konference Společnosti radiační onkologie, biologie a fyziky*, 25.–26. 2. 2011.
98. HRSTKA, Z. The outpatients department of palliative oncological care. Brno, 35. *brněnské onkologické dny*, 21.–23. 4. 2011.
99. HRSTKA, Z. Communication. Rychnov nad Kněžnou, *Komunikace dětí s handicapem*, 3. 11. 2011.
100. HRSTKA, Z. A patient in palliative care. Vysoké Mýto, *Paliativní péče z pohledu psychologie*, 27. 1. 2011.
101. HRSTKA, Z. Palliative care from the view of psychology. Hradec Králové, 2. *pracovní den nejen o paliativní péči*, 15. 3. 2011.
102. HRSTKA, Z. Needs of patients with acute leukemia and possibilities of psychotherapy. Hradec Králové, *Lišutínovy dny*, 22. 6. 2011. /POSTER/
103. HRSTKA, Z. Psychology of addiction. Hradec Králové, *Koncepce prevence sociálně nežádoucích jevů*, 6. 12. 2011.
104. HRSTKA, Z. The outpatients department of palliative oncological care. Brno, 35. *brněnské onkologické dny*, 21.–23. 4. 2011.
105. HRSTKA, Z. The role of psychologist in palliative oncological care in the University Hospital, Hradec Králové. Olomouc, 3. *Česko-slovenská konference paliativní medicíny*, 23.–24. 11. 2011.
106. HRSTKA, Z. Anxiety. Rychnov nad Kněžnou, *Úzkost u dětí s handicapem*, 17. 2. 2011.
107. HRSTKA, Z., PROCHÁZKA, M. Preparation of the Army of the Czech Republic specialists for emergency situations. Hradec Králové, 7. *konference Psychosociální aspekty při zásahu záchranných složek*, 2. 11. 2011.
108. HRSTKA, Z., VOSEČKOVÁ, A. Burn-out of deployed military healthcare providers. Hradec Králové, 11. *konference odborné Společnosti*

- vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011.
109. HRSTKA, Z., VOSEČKOVÁ, A. Psychology of childhood obesity. Hradec Králové, *Liškutínovy dny*, 22. 6. 2011. /POSTER/
 110. HUMLÍČEK, V. Military medical organization and management. Praha, *Konference hlavních odborníků vojenské zdravotnické služby*, 13. 12. 2011.
 111. HUSÁROVÁ, M., FAJFROVÁ, J., BEDNARČÍK, P., MIKULECKÝ, J., HLÚBIK, P. Evaluation of selected anthropometric and function parameters at the persons from voluntary fire brigade. Hradec Králové, *Liškutínovy dny*, 22. 6. 2011.
 112. CHALUPOVÁ, J., SEDLÁŘOVÁ, M., ŠEBELA, M., ŘEHULKA, P., HELMEL, M., MARCHETTI-DESCHMANN, M., ALLMAIER, G. Identification and biotyping of phytopathogens using MALDI-TOF mass spectrometry. Praha, *5th Central and Eastern European Proteomic Conference*, 19.–22. 9. 2011.
 113. CHLÍBEK, R. Safety and immunogenicity of adjuvanted vaccines subunit candidate VZV in older adults – vaccination against herpes zoster. Mikulov, *Český kongres o infekčních nemocech*, 9.–11. 11. 2011.
 114. CHLÍBEK, R. Country specific adolescent and adult vaccination Czech Republic. Bled, Slovenia, *14th Central European Vaccination Advisory Group Meeting*, 17.–18. 4. 2011.
 115. CHLÍBEK, R. Recommended vaccinations – vaccination calendar. Zlín, *30. výroční konference Společnosti všeobecného lékařství ČLS JEP*, 9.–12. 11. 2011.
 116. CHLÍBEK, R. Antibodies are important for HPV vaccination. Ostrava, *HPV symposium: Rozšířené možnosti ochrany proti cervikálnímu karcinomu*, 27. 1. 2011.
 117. CHLÍBEK, R. Meningococcal diseases in the Czech Republic. Barcelona, Spain, *Bexsero Global Investigator Meeting*, 5.–7. 5. 2011.
 118. CHLÍBEK, R. Myths and mistakes of vaccination in view of proponents and opponents of vaccination. Brno, *Očkování*, 21. 5. 2011.
 119. CHLÍBEK, R. Myths and mistakes of vaccination in view of proponents and opponents of vaccination. Hradec Králové, *Očkování*, 11. 5. 2011.
 120. CHLÍBEK, R. Myths and mistakes in view of vaccination proponents and opponents of vaccination. Praha, *Celorepublikový cyklus vzdělávacích seminářů pro praktické lékaře pro děti a dorost pro rok 2011 na téma očkování*, 4. 6. 2011.
 121. CHLÍBEK, R. Myths and mistakes in view of vaccination proponents and opponents of vaccination. Ostrava, *Celorepublikový cyklus vzdělávacích seminářů pro praktické lékaře pro děti a dorost pro rok 2011 na téma očkování*, 21. 9. 2011.

122. CHLÍBEK, R. New recommendations for vaccination of adults in the Czech Republic. Warsaw, Poland, *Academy of Adult Vaccination*, 8. 9. 2011.
123. CHLÍBEK, R. News vaccination in 2011. Dřiteč, *19. konference SPLDD*, 1.–2. 4. 2011.
124. CHLÍBEK, R. News vaccination in 2011. Ústí nad Labem, *Co nového v očkování v roce 2011*, 10. 12. 2011.
125. CHLÍBEK, R. Adult vaccination calendar. Štrbské Pleso, Slovakia, *2. Slovenský vakcinologický kongres*, 13.–15. 1. 2011.
126. CHLÍBEK, R. The vaccination schedule for adults. Hradec Králové, *7. Hradecké vakcinologické dny*, 29. 9.–1. 10. 2011.
127. CHLÍBEK, R. The vaccination schedule for adults. Brno, *Očkovací kalendář pro dospělé 2011*, 20. 9. 2011.
128. CHLÍBEK, R. The vaccination schedule for adults. Praha, *Očkovací kalendář pro dospělé 2011*, 19. 9. 2011.
129. CHLÍBEK, R. The vaccination schedule for adults. Ostrava, *Očkování v ordinaci praktického lékaře*, 30. 4. 2011.
130. CHLÍBEK, R. The vaccination schedule for adults. Praha, *5. jarní interaktivní konference SVL ČLS JEP*, 8.–10. 4. 2011.
131. CHLÍBEK, R. Vaccination opponents and supporters of the view. Hradec Králové, *Hygiena a preventivní medicína – Lišutínovy dny*, 22. 6. 2011.
132. CHLÍBEK, R. Lecture company GSK. Dřiteč, *19. konference SPLDD*, 1.–2. 4. 2011.
133. CHLÍBEK, R. Pneumococcal disease and the possibility of their prevention by vaccination. Ústí nad Labem, *Současné postupy v pediatrii*, 22. 1. 2011.
134. CHLÍBEK, R. Pneumococcal disease and the possibility of their prevention by vaccination. Praha, *Současné postupy v pediatrii*, 15. 1. 2011.
135. CHLÍBEK, R. Pneumococcal disease and the possibility of their prevention by vaccination. Hradec Králové, *Současné postupy v pediatrii*, 5. 2. 2011.
136. CHLÍBEK, R. Pneumococcal disease and the possibility of their prevention by vaccination. Praha, *Současné postupy v pediatrii*, 19. 3. 2011.
137. CHLÍBEK, R. Pneumococcal disease and the possibility of their prevention by vaccination. Slavkov u Brna, *Současné postupy v pediatrii*, 5. 3. 2011.

138. CHLÍBEK, R. Pneumococcal disease and the possibility of their prevention by vaccination. Slezská Ostrava, *Regionální seminář "Očkování dětí"*, 26. 11. 2011.
139. CHLÍBEK, R. Pneumococcal disease and the possibility of their prevention by vaccination. Slezská Ostrava, *Současné postupy v pediatrii*, 30. 4. 2011.
140. CHLÍBEK, R. Introduction of immunization for adults. Praha, *Představení očkovacího kalendáře pro dospělé*, 11. 4. 2011.
141. CHLÍBEK, R. Strategies for control of pertussis in the Czech Republic – pertussis vaccination is not only important for children. Praha, *Symposium: Pertuse stálá hrozba*, 24. 2. 2011.
142. CHLÍBEK, R. Synflorix, benefits and characteristics. Sarajevo, Bosnia and Hercegovina, *Immunization – key to successful prevention*, 15.–16. 4. 2011.
143. CHLÍBEK, R. TBE in the Czech Republic. Riga, Latvia, *15th Central European Vaccination Advisory Group Meeting*, 9.–10. 10. 2011.
144. CHLÍBEK, R. The role of vaccination in the prevention of adult immunization schedule in general medical practice. Praha, *5. kongres primární péče*, 25.–26. 2. 2011.
145. CHLÍBEK, R. Vaccination calendars in CEE – not just for kids. Warsaw, Poland, *The Fourth Pneumo Surveillance Workshop*, 6.–8. 4. 2011.
146. CHLÍBEK, R. Vaccination strategy and epidemiology of pertussis in the Czech Republic. Praha, *Central and Eastern Europe Pertussis Awareness Group Meeting*, 25. 2. 2011.
147. CHLÍBEK, R. Refutation of myths opponents of vaccination – the arguments for vaccination. Praha, *Jakou cestou se ubírá povinné očkování*, 22. 9. 2011.
148. CHLÍBEK, R., SMETANA, J. Vaccination schedule. Brno, *Očkování v ordinaci praktického lékaře*, 14. 5. 2011.
149. CHLÍBEK, R., SMETANA, J. The importance of vaccination, myths and mistakes, or what we learned in school. Ostrava, *Očkování v ordinaci praktického lékaře*, 30. 4. 2011.
150. CHLÍBEK, R., SMETANA, J. The importance of vaccination, myths and mistakes, or what we learned in school. Brno, *Očkování v ordinaci praktického lékaře*, 14. 5. 2011.
151. CHROBOK, V., JEŽEK, B., NORTHROP, C., ŠIMÁKOVÁ, E. Herniation of facial nerve (case reports). Barcelona, Spain, *1st Congress of the Confederation of the European ORL-HNS*, 2.–6. 7. 2011. /POSTER/
152. CHROBOK, V., JEŽEK, B., NORTHROP, C., ŠIMÁKOVÁ, E., ČERNÝ, M. Facial nerve prolaps. Horný Smokovec, Slovakia, *Slovensko-český kongres ORL a chirurgie hlavy a krku*, 12. Dunajské sympozium, 8.–10. 9. 2011.

PRESENTATIONS AND POSTERS

153. JAKL, M. Care of wounded in mountain areas. Libavá, *Velitelství ozbrojených sil*, 3. 3. 2011.
154. JAKL, M., BRTKO, M., MAKEŠOVÁ, M., HORÁČEK, J. Balloon aortic valvuloplasty – our experience. Olomouc, *57. konference vojenských internistů s mezinárodní účastí*, 9.–11. 11. 2011.
155. JAKL, M., HORÁČEK, J., JEBAVÝ, L. The role of initial ECG finding in patients with cardiogenic shock and acute myocardial infarction. Hradec Králové, *11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011.
156. JAKL, M., MALÝ, J., FÁTOROVÁ, I., JEBAVÝ, L., PUDIL, R., ŠEVČÍK, R., VOJÁČEK, J. Relation between mean platelet volume, platelet count, response to antiplatelet treatment and two-year mortality in patients with acute coronary syndrome. Brno, *29. výroční sjezd České kardiologické společnosti*, 1.–4. 5. 2011.
157. JAKL, M., ŠTÁSEK, J., KALA, P., ROKYTA, R., WIDIMSKÝ, P. Do the outcomes of acute myocardial infarction complicated by cardiogenic shock differ based on initial electrocardiographic finding?. Paris, France, *ESC Congress 2011*, 27.–31. 8. 2011.
158. JAKL, M., ŠTÁSEK, J., KALA, P., ROKYTA, R., WIDIMSKÝ, P. The role of initial ECG finding in patients with cardiogenic shock and acute myocardial infarction. Hrubá Skála, *Miniinvazivní metody ve vnitřním lékařství*, 27.–29. 5. 2011.
159. JANEČKA, P., JEŽEK, B., VANĚK, J., PETRÁNEK, K. Using the Flash Stage3D API for Web-based spatial visualizations. Malá Morávka, *31. konference o geometrii a počítačové grafice*, 5.–8. 9. 2011.
160. JANOUCH, J. Antarktida a právo. Bedřichov, *Konference polární sekce České geografické společnosti*, 10.–11. 11. 2011.
161. JANOUCH, J. Labour code. Pardubice, *seminář*, 25. 10. 2011.
162. JANOUCH, J. Life from the perspective of cancer patients. Jablonné nad Orlicí, *Konference ORL Pardubice*, 13.–14. 5. 2011.
163. JAREŠOVÁ, L. Field hospital – history. Hradec Králové, *Celostátní pracovní konference kardiochirurgické sekce ČAS*, 16. 6. 2011.
164. JAREŠOVÁ, L. Field hospital – mission in the Korean War. Hradec Králové, *Celostátní pracovní konference kardiochirurgické sekce ČAS*, 16. 6. 2011.
165. JAREŠOVÁ, L. Field hospital – present time. Hradec Králové, *Celostátní pracovní konference kardiochirurgické sekce ČAS*, 16. 6. 2011.
166. JEBAVÝ, L., KAČEROVSKÝ, J., BLANAŘ, R., ZAORAL, M., BRABEC, T., VYHNÁNEK, M., HALATA, P., HRÍBEK, M. Assessment of Internal Medicine in Military Health Service of the Czech Army in the year 2010. Olomouc, *57. konference vojenských internistů s mezinárodní účastí*, 9.–11. 11. 2011.

167. JEŽEK, B., VANĚK, J., PROCHÁZKA, M. Estimation of response time for ground ambulance transport. Beijing, China, *1st International Conference on Logistics, Informatics and Service Science*, 8.–11. 6. 2011.
168. JEŽEK, B., VANĚK, J., PROCHÁZKA, M. Simulation of transport during a major incident. Hradec Králové, *8. ročník celostátní konference Medicína katastrof. Zkušenosti, příprava, praxe*, 24.–25. 11. 2012. /POSTER/
169. JEŽEK, B., VANĚK, J., PROCHÁZKA, M., ANTOŠ, K. Simulation of transport during a major incident. Beijing, China, *17th World Congress on Disaster and Emergency Medicine*, 31. 5.–3. 6. 2011. /POSTER/
170. JON, B., ČEČKA, F., FERKO, A., ŠUBRT, Z. Contribution to the history of surgical procedures for pancreatic. Hradec Králové, *13. Bedrnův den s mezinárodní účastí*, 28.–29. 4. 2011.
171. JUN, D., KŘENKOVÁ, Z., MUSILOVÁ, L., CHRÁSKOVÁ, D., MUSÍLEK, K., KUČA, K. Development of pseudo catalytic bioscavengers: in vitro oxime-assisted reactivation of human butyrylcholinesterase. Cavtat – Dubrovnik, Croatia, *CBMTS industry 7th World Congress on CBRN Threat and Terrorism*, 9.–10. 4. 2011.
172. JUN, D., KŘENKOVÁ, Z., MUSILOVÁ, L., CHRÁSKOVÁ, D., SOUKUP, O., POHANKA, M., MUSÍLEK, K., KUČA, K. Development of new antidotes for pesticide and nerve agent intoxications: oxime-assisted reactivation of human butyrylcholinesterase for construction of “pseudo catalytic” bioscavengers. Las Vegas, USA, *Chemical and Biological Defense Science and Technology Conference*, 14.–18. 11. 2011. /POSTER/
173. JUN, D., SOUKUP, O., KRŮŠEK, J., KRIŠTOFIKOVÁ, Z., PROŠKA, J., FUSEK, J., MUSÍLEK, K., KUČA, K. Cholinergic properties of 10-methylacridinium. Hinxton, United Kingdom, *Conference Nicotinic Acetylcholine Receptors 2011*, 18.–21. 5. 2011. /POSTER/
174. JUN, D., SOUKUP, O., MUSÍLEK, K., ŽĎÁROVÁ KARASOVÁ, J., FUSEK, J., KUČA, K. Comparison of biological properties of tacrine and its derivative 7-methoxytacrine by in vitro methods. Lázně Jeseník, *53. Česko-slovenská psychofarmakologická konference*, 5.–9. 1. 2011. /POSTER/
175. KASSA, J., KUČA, K., MUSÍLEK, K., BAJGAR, J. The therapeutic efficacy of a novel bispyridinium oxime K203 in mice poisoned with nerve agents – a comparison with currently available oximes. Brno, *61. Česko-slovenské farmakologické dny*, 15. 9. 2011. /POSTER/
176. KASSA, J., ŽĎÁROVÁ KARASOVÁ, J., KUČA, K., BAJGAR, J. A comparison of the neuroprotective efficacy of individual oxime (HI-6) and combinations of oximes (HI-6 + trimedoxime, HI-6 + K203) in soman-

- poisoned rats. Cavtat – Dubrovnik, Croatia, CBMTS Industry 7st World Congress on CBRN Threat and Terrorism, 12. 4. 2011.
177. KASSA, J., ŽDÁROVÁ KARASOVÁ, J., KUČA, K., MUSÍLEK, K., BAJGAR, J. The reactivating efficacy of a novel bispyridinium oxime K203 in rats poisoned with nerve agents – a comparison with commonly used oximes. Praha, *TOXCON 2011*: 16. *Mezioborová česko-slovenská toxikologická konference*, 18. 5. 2011. /POSTER/
178. KASSA, J., ŽDÁROVÁ KARASOVÁ, J., KUNEŠOVÁ, G., JUNG, YS. A comparison of the neuroprotective efficacy of the oxime K203 and its fluorinated analogue (KR-22836) with obidoxime in tabun-poisoned rats. Lázně Jeseník, 53. *Česko-slovenská psychofarmakologická konference*, 7. 1. 2011. /POSTER/
179. KASSA, J., ŽDÁROVÁ KARASOVÁ, J., ŠEPSOVÁ, V., CAISBERGER, F., POHANKA, M. The benefit of combinations of oximes for the reactivating and therapeutic efficacy of antidotal treatment of VX-poisoned rats and mice. Las Vegas, USA, *Chemical and Biological Defense Science and Technology Conference*, 15. 11. 2011. /POSTER/
180. KASSA, J., ŽDÁROVÁ KARASOVÁ, J., ŠEPSOVÁ, V., KUNEŠOVÁ, G., CAISBERGER, F., POHANKA, M., BAJGAR, J. The ability of combinations of oximes to increase the reactivating and therapeutic efficacy of antidotal treatment of sarin poisoning in rats and mice. Paris, France, *EUROTOX 2011 – 47th Congress of the European Societies of Toxicology*, 29. 8. 2011. /POSTER/
181. KIMURA, A., VESIKARI, T., PRYMULA, R., LIESE, J. Persistence of the immune response to an investigational multicomponent meningococcal serogroup B (4CMENB) vaccine following priming in infants and toddlers. Melbourne, Australia, *WSPID 2011*, 16.–19. 11. 2011. /POSTER/
182. KLEIN, L. Current knowledge of the issues blast syndrome. Hradec Králové, 11. *konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011.
183. KLEIN, L. Epidemiology of thermal injuries in the Czech Republic. Hradec Králové, 11. *konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011.
184. KLEIN, L. Epidemiology and prevention of burns injuries in the Czech Republic. Warsaw, Poland, *3rd Central and Eastern Europe Burns Forum*, 17.–18. 2. 2011.
185. KLEIN, L. Interdisciplinary approach to the treatment of severely burned patients with mechanical trauma. Warsaw, Poland, *3rd Central and Eastern Europe Burns Forum*, 17.–18. 2. 2011.
186. KLEIN, L. NATO advanced training course – how to be prepared for mass casualty situations. Košice, Slovakia, *6th Central European Congress of Burns*, 26.–27. 5. 2011.

- 187.KLEIN, L. Trauma care from the perspective of contemporary war surgery. Praha, *Symposium Válečná poranění*, 5. 3. 2011.
- 188.KLEIN, L., FERKO, A., LEŠKO, M. Current system of specialized and superspecialized health care in Czech Republic. Lodž, Poland, *65th Congress of the Association Polish Surgeons*, 14.–17. 9. 2011.
- 189.KLEIN, L., HAVEL, E., ŠMEJKAL, K., CERMAN, J., HOŠEK, F., HRONEK, V. Multiple mechanical and thermal blast injury in civilian industrial setting – possible parallel to the battlefield blast syndrome type injuries. Halifax, United Kingdom, *HFM-207 Symposium on a Survey of Blast Injury Across the Full Landscape of Military Science*, 3.–5. 10. 2011.
- 190.KONŠTACKÝ, S. Guidelines for antibiotic therapy. Pardubice, *Přednáška pro praktické lékaře*, 11. 1. 2011.
- 191.KONŠTACKÝ, S. Guidelines for sleepless in GP's clinic. Praha, *Přednáška pro VPL*, 2. 4. 2011.
- 192.KONŠTACKÝ, S. Guidelines for treatment sleepless in GP's clinic. Hradec Králové, *Přednáška pro VPL*, 21. 4. 2011.
- 193.KONŠTACKÝ, S. Guidelines for treatment sleepless in GP's clinic. Olomouc, *Přednáška pro VPL*, 30. 4. 2011.
- 194.KONŠTACKÝ, S. Guidelines for treatment sleepless in GP's clinic. Litomyšl, *Přednáška pro VPL*, 13. 4. 2011.
- 195.KONŠTACKÝ, S. Panadol Novum – new drug with optisorb. Praha, *Přednáška pro novináře*, 1. 3. 2011.
- 196.KONŠTACKÝ, S. Pneumococcus illnesses and vaccination. Olomouc, *20. Moravskoslezské pneumologické dny*, 7. 10. 2011.
- 197.KONŠTACKÝ, S. General practitioner and pulmonary diseases. Luhačovice, *Luhačovické pneumologické dny*, 26. 3. 2011.
- 198.KONŠTACKÝ, S. Smoking cessation. Hradec Králové, *Přednáška pro vojenské lékaře a sestry*, 20. 9. 2011.
- 199.KONŠTACKÝ, S. First aid. Přelouč, *Seminář ČEZ distribuční služby*, 2. 2. 2011.
- 200.KONŠTACKÝ, S. First aid. Hradec Králové, *Seminář ČEZ distribuční služby*, 15. 2. 2011.
- 201.KONŠTACKÝ, S. First aid. Hradec Králové, *Seminář ČEZ distribuční služby*, 15. 3. 2011.
- 202.KONŠTACKÝ, S. Early diagnosis COPD. Praha, *Jarní interaktivní konference*, 9. 4. 2011.
- 203.KORÁBEČNÝ, J., HOLAS, O., BINDER, J., ZEMEK, F., MAREK, J., MUŠILEK, K., POHANKA, M., OPLETALOVÁ, V., DOHNAL, V., KUČA, K. Synthesis and in vitro evaluation of N-alkyl-7-methoxytacrine hydrochlorides as potential cholinesterase inhibitors for Alzheimer's

- disease. Lázně Jeseník, 53. Česko-slovenská psychofarmakologická konference, 5.–9. 1. 2011. /POSTER/
204. KORÁBEČNÝ, J., HOLAS, O., ZEMEK, F., MAREK, J., MUSÍLEK, K., POHANKA, M., OPLETALOVÁ, V., DOHNAL, V., KUČA, K. Synthesis and evaluation of biological effect of new tacrine derivatives used for Alzheimer's disease treatment. Lázně Jeseník, 53. Česko-slovenská psychofarmakologická konference, 5.–9. 1. 2011. /POSTER/
205. KORÁBEČNÝ, J., MUSÍLEK, K., HOLAS, O., OPLETALOVÁ, V., DOHNAL, V., HROUDOVÁ, J., FIŠAR, Z., PATOČKA, J., KUČA, K. 7-MEOTA derivatives based human cholinesterase inhibitors. Leeds, United Kingdom, *Alzheimer's Research UK 12th Annual Network Conference*, 16.–17. 3. 2011. /POSTER/
206. KORÁBEČNÝ, J., MUSÍLEK, K., HOLAS, O., POHANKA, M., OPLETALOVÁ, V., DOHNAL, V., HROUDOVÁ, J., JUN, D., FIŠAR, Z., ŽDÁROVÁ KARASOVÁ, J., PATOČKA, J., KUČA, K. Synthesis and in vitro evaluation of N-alkyl-7-methoxytacrine hydrochlorides as potential anti-Alzheimer's disease agents. Barcelona, Spain, *Neurodegenerative Diseases*, 9.–13. 3. 2011. /POSTER/
207. KROČOVÁ, Z., MACELA, A., KUBELKOVÁ, K. Reaction of B cells to the Francisella tularensis infection. Visegrad, Hungary, *IMPULSE 2011: Immune-related Pathologies*, 3.–6. 9. 2011. /POSTER/
208. KROČOVÁ, Z., MACELA, A., KUBELKOVÁ, K., ŽIVNÁ, L. The role of B cells in the course of Francisella tularensis infection. Sant Feliu de Guixols, Spain, *ESF-EMBO Symposium, B Cells and Protection: Back to Basics*, 12.–17. 6. 2011. /POSTER/
209. KROČOVÁ, Z., MACELA, A., KUBELKOVÁ, K., ŽIVNÁ, L. The role of B cells in the course of primary and secondary immune response to intracellular pathogen Francisella tularensis. Split, Croatia, *Frontiers in Immunology Research Network*, 1.–4. 7. 2011.
210. KŘENKOVÁ, Z., MUSÍLEK, K., KUČA, K., JUN, D. In vitro evaluation of the cholinesterase reactivators for preparation of scavenger-based antidotes against organophosphorus poisoning. Praha, *Toxcon 2011, Interdisciplinary Toxicology Conference*, 17.–20. 5. 2011. /POSTER/
211. KUBELKOVÁ, K. Autophagy and innate immunity. Malá Úpa, *Výroční zasedání ÚMP a CPS FVZ UO*, 16. 12. 2011.
212. KUBELKOVÁ, K., KROČOVÁ, Z., MACELA, A. Host response to radiation and passive transfer of immunity against Francisella tularensis. Philadelphia, USA, *International Conference and Exhibition on Vaccine and Vaccination*, 23. 11. 2011. /POSTER/
213. KUBELKOVÁ, K., MACELA, A. Irradiated mice and passive transfer of immunity against Francisella tularensis. Hulshorst, The Netherlands, *ESF-JSPS Frontier Science Conference for Young Researchers, Cutting Edge Immunology and its Clinical Application*, 1.–6. 5. 2011. /POSTER/

- 214.KUČA, K., MUSÍLEK, K., JUN, D., POHANKA, M., ŽDÁROVÁ KARASOVÁ, J., SOUKUP, O., HRABINOVÁ, M., KASSA, J. Development of novel acetylcholinesterase reactivators – antidotes for organophosphorus pesticide poisonings. Brno, *61st Czech-Slovak Pharmacological Days and EPHAR Symposium*, 14.–16. 9. 2011. /POSTER/
- 215.KUČA, K., MUSÍLEK, K., JUN, D., POHANKA, M., ŽDÁROVÁ KARASOVÁ, J., SOUKUP, O., MAREK, J., KORÁBEČNÝ, J., HRABINOVÁ, M., KASSA, J. Development of novel acetylcholinesterase reactivators – antidotes for organophosphorus pesticide poisonings. Tatranské Matliare, Slovakia, *63. Zjazd Chemikov*, 5.–9. 10. 2011. /POSTER/
- 216.KUČA, K., MUSÍLEK, K., JUN, D., ŽDÁROVÁ KARASOVÁ, J., POHANKA, M., KASSA, J. Novel acetylcholinesterase reactivators. Cavtat – Dubrovnik, Croatia, *CBMTS Industry 7st World Congress on CBRN Threat and Terrorism*, 9.–10. 4. 2011.
- 217.KUPSA, T., HORÁČEK, J., JEBAVÝ, L. Analysis of new prognostic factors in patients with acute myeloid leukemia – impact of cytokines and adhesion molecules. Hradec Králové, *11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011.
- 218.LENČO, J., TAMBOR, V., CHRISTIE, H., SEAN, S., MARIAN, K. Using cysteinyl-peptide capture to increase the depth of coverage of amniotic fluid proteome. Geneva, Switzerland, *HUPO 2011 Congress*, 4.–7.9.2011. /POSTER/
- 219.LENČO, J., TAMBOR, V., KACEROVSKÝ, M. The potential of proteomic methods for clinical diagnostics. Plzeň, *10. celostátní sjezd České společnosti pro klinickou biochemii*, 25.–27. 9. 2011.
- 220.LENČO, J., TAMBOR, V., KACEROVSKÝ, M. Proteomics as a tool for identification of potential intraamniotic infection markers. Praha, *11. Konference sekce fetální medicíny ČGPS ČLS JEP*, 14. 1. 2011.
- 221.LOCHMAN, P. Laparoscopic cholecystectomy in a patient with situs inversus totalis viscerum. Hradec Králové, *11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011.
- 222.LOCHMAN, P., LEŠKO, M., PÁRAL, J. Primary gastric lymphoma infiltrating spleen, pancreas and transverse colon. Praha, *18. Pražské chirurgické dny*, 26.–27. 5. 2011.
- 223.LOCHMAN, P., LEŠKO, M., PÁRAL, J. Primary gastric lymphoma invading spleen, pancreas and transverse colon. Tokyo, Japan, *21st World Congress of the International Association of Surgeons, Gastroenterologists and Oncologists*, 9.–12. 11. 2011. /POSTER/

PRESENTATIONS AND POSTERS

224. LOCHMAN, P., ŠUBRT, Z., PÁRAL, J. Laparoscopic cholecystectomy in a patient with situs inversus totalis viscerum. Ostrava, 8. *Ostravské dny miniinvazivní chirurgie*, 3.–4. 11. 2011.
225. LOCHMAN, P., ŠUBRT, Z., PÁRAL, J., HOFFMANN, P. Elective laparoscopic cholecystectomy in patient with situs viscerum inversus totalis. Tokyo, Japan, *21st World Congress of the International Association of Surgeons, Gastroenterologists and Oncologists*, 9.–12. 11. 2011. /POSTER/
226. MAKEŠOVÁ, M., JAKL, M. Assessment of balloon aortic valvuloplasty. Ostrava, 1. *studentská vědecká konference Lékařské fakulty OU*, 28. 4. 2011.
227. MAŠEK, J., PROCHÁZKA, M. Cooperation of the Medical Rescue Service of Hradec Králové region and the Faculty of Military Health Sciences of the University of Defence. Plzeň, *Dispečink – srdce záchranky*, 14.–15. 9. 2011.
228. MAŠEK, J., PROCHÁZKA, M., JEŽEK, B., VANĚK, J. Twenty minutes according to the law – reality or fiction? Pardubice, 7. *Křivákovy dny*, 3.–4. 11. 2011.
229. MAŠEK, J., PROCHÁZKA, M., JEŽEK, B., VANĚK, J. Twenty minutes according to the law – reality or fiction? Ostrava, 18. *Dostálovy dny*, 12. 10. 2011.
230. MAŠEK, J., PROCHÁZKA, M., VANĚK, J., JEŽEK, B. 20 minutes in law – reality or fiction? Hradec Králové, 8. *ročník celostátní konference Medicína katastrof. Zkušenosti, příprava, praxe*, 24.–25. 11. 2012.
231. MATOUŠEK, R. Professional course – Gastroenterology, prevention oncology. Hradec Králové, *Seminář SVL JEP*, 26. 5. 2011.
232. MATOUŠEK, R. Professional course – Chronic constipation. Respiratory diseases, news for general practitioner. Hradec Králové, *Seminář SVL JEP*, 24. 11. 2011.
233. MATOUŠEK, R. Professional course – Chronic venous insufficiency. Diving medicine in the Czech Republic. Hradec Králové, *Seminář SVL JEP*, 15. 12. 2011.
234. MATOUŠEK, R. Professional course – Peripheral arterial disease, signs, symptoms, causes, diagnosis and therapy. Hradec Králové, *Seminář SVL JEP*, 24. 3. 2011.
235. MATOUŠEK, R. Cardiopulmonary Resuscitation, Guidelines 2010, Basic Life Support, Lecture, Training Course. Hradec Králové, *Seminář ČEZ Distribuční služby*, 26. 1. 2011.
236. MATOUŠEK, R. Cardiopulmonary Resuscitation, Guidelines 2010, Basic Life Support, Lecture, Training Course. Přelouč, *Seminář ČEZ Distribuční služby*, 22. 2. 2011.

237. MATOUŠEK, R. Cardiopulmonary Resuscitation, Guidelines 2010, Basic Life Support, Lecture, Training Course. Hradec Králové, *Seminář ČEZ Distribuční služby*, 8. 2. 2011.
238. MATOUŠEK, R. Cardiopulmonary Resuscitation, Guidelines 2010, Basic Life Support, Lecture, Training Course. Přelouč, *Seminář ČEZ Distribuční služby*, 8. 3. 2011.
239. MATOUŠEK, R. Military acute care, BATLS philosophy. Praha, *IPVZ*, 3. 5. 2011.
240. MATOUŠEK, R. Professional course – Insomnia, news in therapy. Hradec Králové, *Seminář SVL JEP*, 21. 4. 2011.
241. MATOUŠEK, R. Professional course – News in osteoporosis. Hradec Králové, *Seminář SVL JEP*, 24. 2. 2011.
242. MATOUŠEK, R. Professional course – Heart failure. National influenza vaccination. Hradec Králové, *Seminář SVL JEP*, 22. 9. 2011.
243. MATOUŠEK, R. Professional course – General practitioners and effectiveness of antibiotic therapy. Hradec Králové, *Seminář SVL JEP*, 20. 1. 2011.
244. MATOUŠEK, R. Professional course – Urinary tract infections, prostatic diseases. Hradec Králové, *Seminář SVL JEP*, 20. 10. 2011.
245. MATOUŠEK, R. Professional course – News in vaccination, vaccination calendar. Hradec Králové, *Seminář SVL JEP*, 23. 6. 2011.
246. MISÍK, J., KASSA, J., ŽDÁROVÁ KARASOVÁ, J., ŠEPSOVÁ, V., POHANKA, M., CABAL, J., CAISBERGER, F., NOVOTNÝ, L., KUČA, K. In vivo decontamination of nerve agent VX. Las Vegas, USA, *Chemical and Biological Defense Science and Technology Conference*, 14.–18. 11. 2011. /POSTER/
247. MISÍK, J., PAVLÍK, M., CABAL, J., PAVLÍKOVÁ, R., KUČA, K. In vivo decontamination of nerve agent VX – comparison of two mass decontamination approaches. Hradec Králové, *11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 11. 2011. /POSTER/
248. MISÍK, J., PAVLÍK, M., KUČA, K. Percutaneous toxicity and decontamination of selected chemical warfare agents and pesticides in vivo. Hradec Králové, *11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011. /POSTER/
249. MISÍK, J., PAVLÍK, M., PAVLÍKOVÁ, R., CABAL, J., KUČA, K. In vivo skin decontamination of nerve agent VX. London, United Kingdom, *ORCHIDS Final Meeting*, 20. 4. 2011. /POSTER/
250. MISÍK, J., PAVLÍK, M., PAVLÍKOVÁ, R., CABAL, J., KUČA, K. Percutaneous toxicity and decontamination of selected chemical warfare

PRESENTATIONS AND POSTERS

- agents in vivo. London, United Kingdom, *ORCHIDS Final Meeting*, 20. 4. 2011. /POSTER/
251. MUŠÍLEK, K. 7-MEOTA – cholinesterase inhibitor with improved pharmacological properties. Leeds, United Kingdom, *Alzheimer's Research UK 12th Annual Network Conference*, 16.–17. 3. 2011. /POSTER/
252. MUŠÍLEK, K. 7-MEOTA – cholinesterase inhibitor with valuable pharmacological profile. Barcelona, Spain, *Neurodegenerative Diseases*, 9.–13. 3. 2011. /POSTER/
253. MUŠÍLEK, K., KOMLÓOVÁ, M., BENEK, O., RODER, J., PILCHOVÁ, O., FURI, I., HOROVÁ, A., HOLAS, O., KUČA, K. Modified peripherally acting bisquaternary cholinesterase inhibitors might be also cholinergic receptors modulators. Las Vegas, USA, *Chemical and Biological Defense Science and Technology Conference*, 14.–18.11.2011. /POSTER/
254. MUŠÍLEK, K., RODER, J., HOROVÁ, A., HOLAS, O., SOUKUP, O., KUČA, K. Analogues of SAD-128 and their effects towards cholinesterases and nicotinic or muscarinic receptors. Hinxton, United Kingdom, *Nicotinic Acetylcholine Receptors 2011 Conference*, 18.–21. 5. 2011. /POSTER/
255. MUŠÍLEK, K., ZEMEK, F., HOROVÁ, A., HOLAS, O., DOHNAL, V., KUČA, K. Monooxime monoquaternary cholinesterase reactivators with modified side chain – preparation, in vitro screening and molecular modelling study. Munich, Germany, *13th Medical Chemical Defence Conference*, 13.–14. 4. 2011. /POSTER/
256. NOVOTNÁ, E. g-H2AX as indicator of radiation dose – microscopy. Hradec Králové, *Seminář – nové pohledy na účinek ionizujícího záření na živý organizmus*, 15. 12. 2011.
257. NOVOTNÁ, E., FOLTÁNOVÁ, K., VÁVROVÁ, J., ŘEZÁČOVÁ, M., LUKÁŠOVÁ, E. Inhibition of DNA-PK and its effect on fractionated irradiation of HeLa cells. Torino, Italy, *36th FEBS Congress of the Biochemistry for Tomorrows Medicine*, 25.–30. 6. 2011. /POSTER/
258. OBERREITER, M. Resection of lung by surgeon general in field conditions – Afghanistan 2011. Hradec Králové, *11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011.
259. OBERREITER, M. Final Report 1 Field surgical team in Afghanistan, February-May 2011. Hradec Králové, *11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011.
260. OTČENÁŠKOVÁ, T., BUREŠ, V., ČECH, P. Multi-agent simulations in decision support. Brasov, Romania, *12th WSEAS International*

Conference on Mathematics and Computers in Biology and Chemistry (MCBC '11), 11.–13. 3. 2011.

261. OTČENÁŠKOVÁ, T., ČECH, P., BUREŠ, V. Conceptual modelling for management of public health in case of emergency situations. Paris, France, *International Conference on Knowledge Engineering and Ontology Development*, 26.–29. 10. 2011.
262. PÁRAL, J., ŠUBRT, Z., LOCHMAN, P., KLEIN, L., HADŽI-NIKOLOV, D., TUREK, Z., VEJBĚRA, M. Suture-free anastomosis of the colon: experimental comparison of two cyanoacrylate adhesives. Yokohama, Japan, *International Surgical Week*, 28. 8.–1. 9. 2011. /POSTER/
263. PAŘÍZEK, P., TAUCHMAN, M., TUŠL, Z., MĚŠŤAN, M., VYLETOVÁ, L., ČERMÁKOVÁ, E., HAMAN, L. Long-term follow-up of patients with implantable cardioverter-defibrillator. Horný Smokovec, Slovakia, 9. *Slovenské a České sympozium o arytmiách a kardiostimulácii*, 6.–8. 2. 2011.
264. PAVLÍK, M., POHANKA, M., NOVOTNÝ, L., ŽDÁROVÁ KARASOVÁ, J., KUČA, K., PIKULA, J. HI-6 and obidoxime are implicated in cerebral cortex and liver oxidative stress and apoptosis. Paris, France, *47th Congress of the European Societies of Toxicology*, 20.–28. 8. 2011. /POSTER/
265. PAVLÍK, V. Orlistat and reduction of the overweight. Špindlerův Mlýn, 15. *Kongres o ateroskleróze*, 1.–3. 12. 2011. /POSTER/
266. PAVLÍK, V. The prevention of obesity in the Army of the Czech Republic. Libavá, 12. *zdravotnická konference společných sil*, 25.–27. 10. 2011.
267. PAVLÍK, V. The prevention of obesity in the Army of the Czech Republic. Hradec Králové, 11. *konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011. /POSTER/
268. PAVLÍK, V., FAJFROVÁ, J., HUSÁROVÁ, M., HLÚBIK, P. Nutrient composition of combat ration in the Army of the Czech Republic. Nový Smokovec, Slovakia, *Životné podmienky a zdravie*, 19.–21. 9. 2011. /POSTER/
269. PAVLÍK, V., FAJFROVÁ, J., HUSÁROVÁ, M., HLÚBIK, P. The prevention of obesity in the Army of the Czech Republic. Ostrava, *Obezitologie a bariatrie*, 6.–8. 10. 2011. /POSTER/
270. PAVLÍK, V., FAJFROVÁ, J., HUSÁROVÁ, M., HLÚBIK, P., DRAHOKOUPÍLOVÁ, E. Nutrient composition of combat ration in the Army of the Czech Republic. Praha, *Interdisciplinary Toxicology Conference*, 17.–20. 5. 2011. /POSTER/
271. PAVLÍK, V., HLÚBIK, P. Possibilities of education in the Department of Military Hygiene. Hradec Králové, *Liškutínovy dny*, 22. 6. 2011.

PRESENTATIONS AND POSTERS

272. PAVLÍK, V., HLÚBIK, P., FAJFROVÁ, J., HUSÁROVÁ, M. The possibilities of education on the Department of Military Hygiene. Nový Smokovec, Slovakia, *Životné podmienky a zdravie*, 19.–21. 9. 2011.
273. PAVLIŠ, O., POHANKA, M. Galantamine and his effect on tularemia infected mouse. Brno, 15. *Setkání biochemiků a molekulárních biologů*, 1.–2. 11. 2011.
274. PEJCHAL, J. Activation of p38 Mapk and expression of TGF-beta1 in rat colon transversum after irradiation. Hradec Králové, *Seminář – nové pohledy na účinek ionizujícího záření na živý organizmus*, 15. 12. 2011.
275. PEJCHAL, J., MAŘÁK, V., ÖSTERREICHER, J., TICHÝ, A., VÁVROVÁ, J., ŠINKOROVÁ, Z., ZÁRYBNICKÁ, L., NOVOTNÁ, E., BABICOVÁ, A., CHLÁDEK, J. Expression of TGF- β 1 in rat colon enterocytes after whole body γ -irradiation. Warsaw, Poland, *14th International Congress of Radiation Research*, 28. 8.–1. 9. 2011. /POSTER/
276. PEJCHAL, J., ÖSTERREICHER, J., KASSA, J., TICHÝ, A., ŠINKOROVÁ, Z., ZÁRYBNICKÁ, L., KUČA, K. Soman and VX: different effect on cellular signaling. Las Vegas, USA, *Chemical and Biological Defense Science and Technology Conference*, 14. – 18. 11. 2011. /POSTER/
277. PEJCHAL, J., VILASOVÁ, Z., ZÁRYBNICKÁ, L., ŠINKOROVÁ, Z., TICHÝ, A., VÁVROVÁ, J., NOVOTNÁ, E., KUČA, K. Expression of p21, ATF-2, phospho-ATF-2, c-Myc, and phospho c-Myc in rat blood lymphocytes after whole body γ -irradiation. Las Vegas, USA, *2011 Chemical and Biological Defense Science and Technology Conference*, 14. – 18. 11. 2011. /POSTER/
278. PETRÁNEK, K., VANĚK, J., JEŽEK, B., JANEČKA, P. Acceleration of image segmentation algorithms. Malá Morávka, *31. konference o geometrii a počítačové grafice*, 5.–8. 9. 2011.
279. PIKULA, J., DAMKOVÁ, V., BANDŮCHOVÁ, H., PASKOVÁ, V., HILSCHEROVÁ, K., POHANKA, M., ONDRÁČEK, K., VITULA, F. Effects of cyanotoxins and lead on avian reproduction. Paris, France, *47th Congress of the European Societies of Toxicology*, 20.–28. 8. 2011. /POSTER/
280. POHANKA, M. Assay of affinity interactions using QCM biosensors. Brno, *Setkání Ústavu chemie a biochemie Mendelovy univerzity*, 4. 11. 2011.
281. POHANKA, M., HRABINOVÁ, M., DRTINOVÁ, L., VLČEK, V. Acetylcholinesterase based colorimetric dipsticks for fast assay of organophosphorus and carbamate compounds. Hradec Králové, *11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011. /POSTER/
282. POHANKA, M., HRABINOVÁ, M., DRTINOVÁ, L., ŽDÁROVÁ KARASOVÁ, J., ŠEPSOVÁ, V., KUČA, K., JUN, D., KASSA, J.

- Colorimetric methods for assessment of cholinesterase activity and construction of dipsticks for nerve agents assay. Las Vegas, USA, *Chemical and Biological Defense Science and Technology Conference*, 14. – 18. 11 2011. /POSTER/
283. POHANKA, M., HRABINOVÁ, M., POVRAZNÍK, J. Assessment of indoxylacetate as a substrate for acetylcholinesterase. Beograd, Serbia, *16th European Conference on Analytical Chemistry, Euroanalysis 16*, 11.–15. 9. 2011. /POSTER/
284. POHANKA, M., NOVOTNÝ, L., KORÁBEČNÝ, J., SOBOTKA, J., KUČA, K. Impact of trichlorfon (metrifonate) on brain of laboratory animal: adverse effects of irreversible inhibitor of acetylcholinesterase. Lázně Jeseník, 53. *Česko-slovenská psychofarmakologická konference*, 5.–9. 1. 2011. /POSTER/
285. POHANKA, M., NOVOTNÝ, L., SOBOTKA, J., KORÁBEČNÝ, J., KUČA, K. Metrifonate (trichlorfon), an inhibitor of acetylcholinesterase, is implicated in cerebral cortex oxidative stress modulation. Barcelona, Spain, *The 10th International Conference on Alzheimer's and Parkinson's Diseases AD/PD 2011*, 9.–13. 3. 2011. /POSTER/
286. POHANKA, M., POVRAZNÍK, J. Acetylcholinesterase based colorimetric dipsticks for a fast assay of neurotoxins. Belgrade, Serbia, *16th European Conference on Analytical Chemistry, Euroanalysis 16*, 11.–15. 9. 2011. /POSTER/
287. POHANKA, M., SOBOTKA, J., DRTINOVÁ, L., HRABINOVÁ, M., PIKULA, J., KUČA, K. Alzheimer's disease drug huperzine: oxidative stress responses after the therapeutic dose and overdosing in laboratory animal model. Praha, *Toxcon 2011, Interdisciplinary Toxicology Conference*, 17.–20. 5. 2011. /POSTER/
288. POTÁČ, M., RŮŽIČKA, M., MRVEČKA, P. The immediate burial services. Hradec Králové, 8. *ročník celostátní konference Medicína katastrof. Zkušenosti, příprava, praxe*, 24.–25. 11. 2011. /POSTER/
289. PROCHÁZKA, M., JEŽEK, B., HRSTKA, Z., VANĚK, J., ŠMÍRA, P. Riots as a specific major incident. Brno, 6. *kongres s mezinárodní účastí Medicína katastrof*, 3. 2. 2011.
290. PROCHÁZKA, M., JEŽEK, B., VANĚK, J., MAŠEK, J., ANTOŠ, K. Evaluation of the Pre-Hospital Urgent Care System capabilities not only at extraordinary event, geographic – simulation models. Sloup v Čechách, 11. *Konference pracovníků krizové připravenosti ve zdravotnictví*, 18. 4. 2011.
291. PROCHÁZKA, M., MAŠEK, J., JEŽEK, B., VANĚK, J. Evaluation of the Pre-Hospital Urgent Care System capabilities of Hradec Králové region, geographic-simulation models. Luhačovice, *Konference Medicína katastrof*, 8.–10. 6. 2011.

PRESENTATIONS AND POSTERS

292. PROCHÁZKA, M., MAŠEK, J., KVEREK, J. Unrests. Luhačovice, *Konference Medicína katastrof*, 8.–10. 6. 2011.
293. PROCHÁZKA, M., MAŠEK, J., KVEREK, J. Unrests – focus on health care aspects. Sloup v Čechách, 11. *Konference pracovníků krizové připravenosti ve zdravotnictví*, 18. 4. 2011.
294. PRYMULA, R. Barriers of influenza vaccination in adults and elderly in CE region and ESWI recommendation. Warsaw, Poland, *GSK CE European Academy of Adult Vaccination*, 8. 9. 2011.
295. PRYMULA, R. Will epidemics of parotitis repeat? Hradec Králové, 7. *Hradecké vakcinologické dny*, 29. 9.–1. 10. 2011.
296. PRYMULA, R. Controversies in immunization. Cambridge, United Kingdom, *Reason and Unreason in 21st century*, 11.–13. 12. 2011.
297. PRYMULA, R. Field experience shows Intanza is well accepted by both vaccinees and vaccinators. Malta, *Fourth ESWI Influenza Conference*, 11.–14. 9. 2011.
298. PRYMULA, R. Immunogenicity and safety of two children vaccines. Vienna, Austria, *13th Annual Conference of ISW-TBE*, 3.–4. 2. 2011.
299. PRYMULA, R. Intanza – practical aspects of i. d. administration. Malta, *Fourth ESWI Influenza Conference*, 11.–14. 9. 2011.
300. PRYMULA, R. Intradermal influenza vaccination – practical experiences. Hradec Králové, 7. *Hradecké vakcinologické dny*, 29. 9.–1. 10. 2011.
301. PRYMULA, R. Intradermal influenza vaccination – practical experience. Hradec Králové, 7. *Hradecké vakcinologické dny*, 29. 9.–1. 10. 2011. /POSTER/
302. PRYMULA, R. Misconceptions in influenza – burden of the disease. Malta, *Fourth ESWI Influenza Conference*, 11.–14. 9. 2011.
303. PRYMULA, R. Surface vaccination against pneumococcus – practical aspects and impacts. Bratislava, Slovakia, 51. *pediatrické dny*, 13. 4. 2011.
304. PRYMULA, R. Pneumococcal vaccines for a better life. Tirana, Albania, *Workshop on Immunization*, 18.–19. 3. 2011.
305. PRYMULA, R. Pneumococcal vaccines for a better life. Warsaw, Poland, *4th Pneumococcal Surveillance Workshop*, 7. 4. 2011.
306. PRYMULA, R. POET – acute otitis media trial. Melbourne, Australia, *WSPID 2011*, 16. 11. 2011.
307. PRYMULA, R. Role of Policy makers in flu prevention. Sao Paulo, Brazil, *WIRCEIV – CDC, DHHS and WHO Conference*, 8.–10. 6. 2011.
308. PRYMULA, R. The current situation in the vaccination. Ostrava, *Ostravský den preventivní pediatrie*, 15.3.2011.
309. PRYMULA, R. Current controversy in childhood immunization. Mikulov, 13. *Symposium klinické farmacie René Macha*, 25.–26. 11. 2011.

- 310.PRYMULA, R. The current possibilities of prevention of pneumococcal disease. Hradec Králové, 7. *Hradecké vakcinologické dny*, 29. 9.–1. 10. 2011.
- 311.PRYMULA, R. Present possibilities in the prevention of pneumococcal infections. Hradec Králové, 7. *Hradecké vakcinologické dny*, 29. 9.–1. 10. 2011.
- 312.PRYMULA, R. Contemporary approaches to vaccination in the world. Hradec Králové, 7. *Hradecké vakcinologické dny*, 29. 9.–1. 10. 2011.
- 313.PRYMULA, R. Present approaches to vaccination in the world. Hradec Králové, 7. *Hradecké vakcinologické dny*, 29. 9.–1. 10. 2011.
- 314.PRYMULA, R. Understanding the benefits of pneumococcal conjugate vaccines in preventing acute otitis media. Melbourne, Australia, *WSPID 2011*, 16.–19. 11. 2011.
- 315.PRYMULA, R. Understanding the benefits of pneumococcal conjugate vaccines in preventing acute otitis media. Soul, Republic of Korea, *Pediatric Workshop*, 21. 11. 2011.
- 316.PRYMULA, R. Understanding the benefits of pneumococcal conjugate vaccines in preventing acute otitis media. Soul, Republic of Korea, *Pediatric Conference*, 23. 11. 2011.
- 317.PRYMULA, R. Understanding the benefits of pneumococcal conjugate vaccines in preventing acute otitis media. Tegu, Republic of Korea, *Pediatric Workshop*, 22. 11. 2011.
- 318.PRYMULA, R. Vaccination strategies against invasive meningococcal disease in the Czech Republic. Praha, *Seminář Parlamentu ČR*, 29.11.2011.
- 319.PRYMULA, R. Selected aspects of vaccination against pneumococcal disease. Štrbské Pleso, Slovakia, 2. *Slovenský vakcinologický kongres*, 13.–15. 1. 2011.
- 320.PRYMULA, R., ESPOSITO, S., KITTEL, C. Prophylactic paracetamol in infants decreases fever following concomitant administration of an investigational meningococcal serogroup B vaccine with routine immunizations. Haag, The Netherlands, *ESPID 2011*, 7.–11. 6. 2011.
- 321.PRYMULA, R., ESPOSITO, S., KITTEL, C. Prophylactic paracetamol in infants decreases fever following concomitant administration of an investigational meningococcal serogroup B vaccine with routine immunizations. Haag, The Netherlands, *ESPID 2011*, 7.–11. 6. 2011. /POSTER/
- 322.PRYMULA, R., VESIKARI, T., ESPOSITO, S. Catch-up vaccination of healthy toddlers with an investigational multicomponent meningococcal serogroup B vaccine (4CMENB) – exploration of a two-dose schedule. Haag, The Netherlands, *ESPID 2011*, 7.–1. 6. 2011. /POSTER/

PRESENTATIONS AND POSTERS

323. PSUTKA, J., MALÝ, V., HUMLÍČEK, V. Advanced course MEDEVAC – uUsage of helicopter. Hradec Králové, *8. ročník celostátní konference Medicína katastrof. Zkušenosti, příprava, praxe*, 24.–25. 11. 2011. /POSTER/
324. PSUTKA, J., WITT, P. LAV IVECO LMV MEDEVAC. Libavá, *12. zdravotnická konference společných sil. Přednemocniční péče – od teorie k praxi.*, 25.–27. 10. 2011. /POSTER/
325. PUTZOVÁ, D. Analysis of Francisella tularensis proteins involved in pathogenesis of tularemic infection. Malá Úpa, *Výroční zasedání Ústavu Molekulární patologie*, 15.–16. 12. 2011.
326. RAUPACH, J., DOBEŠ, D., CHOVANEC, V., LOJÍK, M., KRAJINA, A., BĚLOBRÁDEK, Z. Urgent EVAR of rAAA and pelvic aneurysms. Praha, *PTA kurz*, 22. 11. 2011.
327. RŮŽIČKA, M., HUMLÍČEK, V., PUDÍK, P. Training and deployment of the Czech Army Medical Service personnel in the foreign operations – survey research. Hradec Králové, *11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011. /POSTER/
328. RŮŽIČKA, M., HUMLÍČEK, V., PUDÍK, P. The Czech Army Medical Service officers' view on predeployment training and deployment in foreign operations. Hradec Králové, *11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011.
329. RŮŽIČKA, M., PUDÍK, P. Survey research – Czech Army Medical Service personnel opinions on the preparation and deployment in foreign operations. Brno, *6. ročník doktorandské konference UO*, 10. 3. 2011.
330. ŘEHULKA, P., FABRIK, I., STUEBINGER, G. Lipidomics profiling and comparison of Francisella tularensis FSC200 and its attenuated DsbA mutant strain using MALDI-TOF mass spectrometry. Lyon, France, *8th Lipidomics Meeting*, 26.–28. 10. 2011. /POSTER/
331. ŘEHULKA, P., FRANC, V., ŠEBELA, M., NOVÁK, J. MALDI-TOF/TOF mass spectrometry study of O-glycopeptides from the hinge region of human IgA1. Madrid, Spain, *EuroKUP COST Meeting*, 17.–19. 6. 2011. /POSTER/
332. ŘEZAČOVÁ, M., CMIELOVÁ, J., HAVELEK, R., SOUKUP, T., VÁVROVÁ, J., MOKRÝ, J. Human mesenchymal stem cells respond to ionizing radiation by induction of stress-induced premature senescence.. Warsaw, Poland, *14th International Congress of Radiation Research*, 28. 8.–1. 9. 2011. /POSTER/
333. SHESHKO, V., STULIK, J. Characterization of two major proteins of Francisella tularensis. Munich, Germany, *Medical Biodefense Conference 2011*, 25.–28. 10. 2011. /POSTER/

334. SHESHKO, V., STULIK, J., SPIDLOVA, P. Characterization of two major extracellular proteins of *Francisella tularensis*. Wurzburg, Germany, *FEMS-Leopoldina-Symposium on „Emerging Topics in Microbial Pathogenesis“*, 11.–15. 4. 2011. /POSTER/
335. SMETANA, J. Prevention of AOM in practice pediatrician. Štířín, *Pediatrická vakcinační akademie*, 18.–19. 3. 2011.
336. SMETANA, J. Principles of immunization and vaccination optional. Praha, *Perspektivní cesty ke zdraví – odborná konference pro zdravotní sestry*, 7. 5. 2011.
337. SMETANA, J. Rotavirus and pneumococcal infection – vaccination. Dalešice, *Vzdělávací seminář SPLDD*, 13. 10. 2011.
338. SMETANA, J. Rotavirus infection, epidemiological data. Štířín, *Pediatrická vakcinační akademie*, 18.–19. 3. 2011.
339. SMETANA, J., CHLÍBEK, R. The vaccination schedule for adults. Jihlava, *Vzdělávací postgraduální kurz Sdružení praktických lékařů ČR*, 2. 4. 2011.
340. SMETANA, J., CHLÍBEK, R. The vaccination schedule for adults. Ostrava, *Seminář České vakcinologické společnosti – Očkovací kalendář pro dospělé 2011*, 7. 9. 2011.
341. SMETANA, J., CHLÍBEK, R. The vaccination schedule for adults. Hradec Králové, *Seminář České vakcinologické společnosti – Očkovací kalendář pro dospělé 2011*, 8. 9. 2011.
342. SMETANA, J., CHLÍBEK, R. The importance of vaccination, myths and mistakes. Jihlava, *Vzdělávací postgraduální kurz Sdružení praktických lékařů ČR*, 2. 4. 2011.
343. SMETANA, J., CHLÍBEK, R., BOŠTÍKOVÁ, V. Vaccination of adults with COPD and bronchial asthma. Hradec Králové, *7. Hradecké vakcinologické dny*, 29. 9.–1. 10. 2011.
344. SMETANA, J., KOSINA, P. Questions and answers from practice. Hradec Králové, *Vzdělávací seminář OSPDL ČLS JEP*, 11. 5. 2011.
345. SOUKUP, O., JUN, D., FUSEK, J., KUČA, K. The interaction of oxime reactivators with muscarinic and nicotinic receptors. Lázně Jeseník, *53. Česko-slovenská psychofarmakologická konference*, 5.–9. 1. 2011. /POSTER/
346. SOUKUP, O., JUN, D., TOBIN, GT., FUSEK, J., KUČA, K. Non – reactivation properties of oxime reactivators. Las Vegas, USA, *Chemical and Biological Defense Science and Technology Conference 2011*, 14.–18. 11. 2011. /POSTER/
347. SOUKUP, O., KRUŠEK, JK., KANIAKOVÁ, MK., KUČA, K. The interaction of oxime reactivators with the nicotinic receptors – in vitro evaluation. Hinxton, United Kingdom, *Nicotinic Acetylcholine Receptors 2011*, 18.–21. 5. 2011. /POSTER/

PRESENTATIONS AND POSTERS

- 348.SOUKUP, O., KRUŠEK, JK., KRIŠTOFÍKOVÁ, ZK., JUN, DJ., PROŠKA, JP., FUSEK, J., KUČA, K. Methylacridinium and its cholinergic properties. Barcelona, Spain, *AD/PD 2011*, 9.–13. 3. 2011. /POSTER/
- 349.SOUKUP, O., KUČA, K. The interaction of oxime reactivators with the nicotinic receptors – in vivo evaluation. Hinxton, United Kingdom, *Nicotinic Acetylcholine Receptors 2011*, 18.–21. 5. 2011. /POSTER/
- 350.SOUKUP, O., MUSÍLEK, K., KOMLOOVÁ, MK., HOLAS, OH., HOROVÁ, AH., KUČA, K. Small quaternary ACHE inhibitors for MG treatment-synthesis, in vitro screening and molecular modelling studies. Tatranské Matliare, Slovakia, 63. *Zjazd chemikov*, 5.–9. 9. 2011. /POSTER/
- 351.SOUKUP, O., PATOČKA, J., ŽDÁROVÁ KARASOVÁ, J., POHANKA, M., JUN, D., KUČA, K. The tacrine derivative 7-MEOTA in the treatment of AD. San Diego, USA, *Journal of Nutrition Health & Aging*, 3.–6. 11. 2011. /POSTER/
- 352.SOUKUP, O., PROSKA, J., KRISTOFIKOVÁ, Z., FUSEK, J., JUN, D., KUČA, K. Methylacridium and its cholinergits properties. Barcelona, Spain, *The 10th Iternational Conference on Alzheimer's & Parkinson's Diseases*, 9.–13. 3. 2011. /POSTER/
- 353.STRAKOVÁ, E., ZIKOVÁ, A., ŘEHULKA, P., VOHRADSKÝ, J. Identification of protein expression dynamics during germination in *Streptomyces*. Vienna, Austria, *19th Annual International Conference on Intelligent Systems for Molecular Biology and 10th European Conference on Computational Biology*, 17.–19. 7. 2011. /POSTER/
- 354.STRAŠKOVÁ, A., ČERVENÝ, L., KROČA, M., SANTIC, M., STULÍK, J. Francisella tularensis dsba deletion mutant: a possible candidate for live attenuated vaccine against tularemia. Munich, Germany, *Medical Biodefense Conference*, 25.–28. 10. 2011. /POSTER/
- 355.STRAŠKOVÁ, A., ČERVENÝ, L., KROČA, M., SANTIC, M., STULÍK, J. Intracellular fate of an attenuated Francisella tularensis DsbA deletion mutant inside primary murine macrophages. Kiel, Germany, *Microscopy Conference 2011*, 28. 8.–2. 9. 2011. /POSTER/
- 356.STRAŠKOVÁ, A., ČERVENÝ, L., ŠPIDLOVÁ, P., DAŇKOVÁ, V., SANTIC, M., STULÍK, J. Deletion of FPI protein IgIH in Francisella tularensis subsp. holarctica FSC200 strain results attenuation and provides protection against the subcutaneous challenge with the parental strain. Umea, Sweden, *5th National Infection Biology Meeting*, 24.–25. 11. 2011.
- 357.STRAŠKOVÁ, A., ČERVENÝ, L., ŠPIDLOVÁ, P., SANTIC, M., STULÍK, J. Attenuated IgIH and DsbA deletion mutants of intracellular pathogen Francisella tularensis demonstrates different protective effect and have distinct intracellular fate. Riva del Garda, Italy, *Toll 2011 Decoding Innate Immunity*, 4.–7. 5. 2011. /POSTER/

- 358.STŘÍTECKÁ, H. Prevalence of overweight and obesity – dietary and exercise habits in students of primary schools in Liberec, Hradec Kralove and Pardubice region. Liberec, *Mezikrajská odborná konference Hygieny dětí a mladistvých*, 14. 4. 2011.
- 359.STŘÍTECKÁ, H. Project of health support – evaluation of nutritional status of primary school children. Luhačovice, *2. odborné konference asociace pracovníků v regeneraci*, 28.–29. 4. 2011.
- 360.STŘÍTECKÁ, H. The results of the Project of health support (2009–2010): lifestyle students in primary schools. Hradec Králové, *Lišutínovy dny*, 22. 6. 2011. /POSTER/
- 361.STŘÍTECKÁ, H. Outputs of the project "Health Support Project No.9985". Liberec, *Prevence obezity dětí a mládeže*, 12. 12. 2011.
- 362.STŘÍTECKÁ, H., HLÚBIK, P. BIA – tool for evaluating the success of reduce the body weight. Olsztyn, Poland, *3rd CECON 2011*, 25.–27. 8. 2011. /POSTER/
- 363.STŘÍTECKÁ, H., HLÚBIK, P. Dietary habits of children at basic school in district Hradec Kralove. Madrid, Spain, *11th European Nutrition Conference FENS*, 26.–29.10. 2011. /POSTER/
- 364.STŘÍTECKÁ, H., HLÚBIK, P. Effect daily consumption of a fermented milk product enriched with protein and fibre on satiation and satiety. Košice, Slovakia, *Food and Function 2011*, 25.–27. 9. 2011. /POSTER/
- 365.STŘÍTECKÁ, H., HLÚBIK, P. Effect of a fermented milk product enriched with protein and fibre to satiation and weight reduction. Buenos Aires, Argentina, *The 2th International Congress on Abdominal Obesity*, 24.–26. 2. 2011. /POSTER/
- 366.STŘÍTECKÁ, H., HLÚBIK, P. Evaluation of eating and physical activity habits of primary school children. Doha, Qatar, *DALM – 17th International Symposium*, 14.–16. 3. 2011. /POSTER/
- 367.STŘÍTECKÁ, H., HLÚBIK, P. Evaluation of overweight and obesity in the ACR. Hradec Králové, *Lišutínovy dny*, 22. 6. 2011. /POSTER/
- 368.STŘÍTECKÁ, H., HLÚBIK, P. Evaluation of the nutritional status of primary school pupils. Dunajská Streda, Slovakia, *11. Dni hygieny dětí a mládeže*, 19.–20. 5. 2011. /POSTER/
- 369.STŘÍTECKÁ, H., HLÚBIK, P. Metabolic syndrome at soldiers of Czech Forces. Olsztyn, Poland, *3rd CECON 2011*, 25.–27. 8. 2011. /POSTER/
- 370.STŘÍTECKÁ, H., HLÚBIK, P. Obese and overweight children and their dietary habits. Buenos Aires, Argentina, *The 2th International Congress on Abodminal Obesity*, 24.–26. 2. 2011. /POSTER/
- 371.STŘÍTECKÁ, H., HLÚBIK, P. Occurrence of metabolic syndrome between soldiers of the Czech Forces. Buenos Aires, Argentina, *The 2nd International Congress on Abdominal Obesity*, 24.–26. 2. 2011. /POSTER/

PRESENTATIONS AND POSTERS

372. STŘÍTECKÁ, H., HLÚBIK, P. Physical activity of school children. Istanbul, Turkey, *18th European Congress on Obesity*, 25.–28. 5. 2011. /POSTER/
373. STŘÍTECKÁ, H., HLÚBIK, P. Prevalence of metabolic syndrome at professional soldiers. Ostrava, *Obezitologie a Bariatrie 2011*, 6.–8. 10. 2011. /POSTER/
374. STŘÍTECKÁ, H., HLÚBIK, P. Prevalence of overweight and obesity among members of the Army in an international comparison. Teplice, *Výživa a zdraví 2011*, 20.–22. 9. 2011. /POSTER/
375. STŘÍTECKÁ, H., HLÚBIK, P. Project of health support for obese patients with DM II type – changes of serum lipids level. Doha, Qatar, *DALM – 17. International Symposium*, 14.–16. 3. 2011. /POSTER/
376. STŘÍTECKÁ, H., HLÚBIK, P. Selected components of antioxidants system – their serum level depending on nutrition habits. Brno, *11th INDC*, 28.–31. 8. 2011. /POSTER/
377. STŘÍTECKÁ, H., HLÚBIK, P. Serum level of selected components of antioxidant system depending on nutrition habits. Madrid, Spain, *11th European Nutrition Conference FENS*, 26.–29. 10. 2011. /POSTER/
378. STŘÍTECKÁ, H., HLÚBIK, P. Serum level of selected components of antioxidants system. Praha, *TOXCON 2011*, 17.–19. 5. 2011. /POSTER/
379. STŘÍTECKÁ, H., HLÚBIK, P. The suitability of using BMI to evaluate the incidence of overweight and obesity at professional soldiers. Ostrava, *Obezitologie a Bariatrie 2011*, 6.–8. 10. 2011. /POSTER/
380. STŘÍTECKÁ, H., HLÚBIK, P. Effect of type of physical activity on the size of abdominal adipose tissue loss. Špindlerův Mlýn, *15. Kongres o ateroskleróze*, 1.–3. 12. 2011. /POSTER/
381. STŘÍTECKÁ, H., HLÚBIK, P. The occurrence of metabolic syndrome in soldiers. Hradec Králové, *Lišutínovy dny*, 22. 6. 2011. /POSTER/
382. STŘÍTECKÁ, H., HLÚBIK, P. Lifestyle pupils at basic schools. Dunajská Streda, Slovakia, *11. Dni hygieny dětí a mládeže*, 19.–20. 5. 2011.
383. STŘÍTECKÁ, H., HLÚBIK, P. Lifestyle elementary school pupils at Hradec Kralove, Liberec and Pardubice Region. Teplice, *Výživa a zdraví 2011 – primární prevence výživou již od dětského věku*, 20.–22. 9. 2011.
384. STŘÍTECKÁ, H., HLÚBIK, P., PÁLENÍK, P., KAŠPER, Š., ŘEZÁČ, D., MIKULECKÝ, J. Knowledge and compliance with healthy dietary habits in the general population. Teplice, *Výživa a zdraví 2011 – primární prevence výživou již od dětského věku*, 20.–22. 9. 2011. /POSTER/
385. STULÍK, J., PÁVKOVÁ, I., STRAŠKOVÁ, A., ČERVENÝ, L., BALONOVÁ, L., MAZGAJOVÁ, M. Functional and biochemical characterization of the DsbA homolog: The key virulence factor of *Francisella tularensis*. Munich, Germany, *Medical Biodefense Conference 2011*, 25.–28. 10. 2011.

386. STULÍK, J., STRÁŠKOVÁ, A. Vaccine against *Francisella tularensis*. Praha, *Biologický výzkum – přínos, rizika a hrozby*, 7. 11. 2011.
387. SVOBODOVÁ, H., JOŠT, P., ŠTĚTINA, R. The genotoxicity of reactivator oxime HI-6 in vivo. Bratislava, Slovakia, *Genetic Toxicology and Cancer Prevention*, 13.–15. 6. 2011. /POSTER/
388. ŠEBELA, M., KONČITÍKOVÁ, R., LENOBEL, R., FRANC, V., ŘEHULKA, P., KOPEČNÝ, D., TYLICHOVÁ, M. Structural and functional study on the glycosylation in maize cytokinin oxidase/dehydrogenase1. Nové Hradky, *9th Discussions in Structural Molecular Biology*, 24.–26. 3. 2011.
389. ŠEBELA, M., ŘEHULKA, P., FRANC, V., KONČITÍKOVÁ, R., LENOBEL, R., KOPEČNÝ, D. Mass spectrometric analysis of N-glycosylation in maize cytokinin oxidase/dehydrogenase 1. Praha, *5th Central and Eastern European Proteomic Conference*, 19.–22. 9. 2011. /POSTER/
390. ŠEBELA, M., ŘEHULKA, P., KONČITÍKOVÁ, R., LENOBEL, R., FRANC, V., TYLICHOVÁ, M., KOPEČNÝ, D. Glycosylation in maize cytokinin oxidase/dehydrogenase 1 – a functional and mass spectrometric study. Fiera di Primiero, Italy, *29th Informal Meeting on Mass Spectrometry*, 15.–19. 5. 2011. /POSTER/
391. ŠEMBERA, Š., FEJFAR, T., ŠAFKA, V., JIRKOVSKÝ, V., FAJFROVÁ, J., HŮLEK, P. Survival of patients after TIPS in FH HK. Karlovy Vary, *39. májové hepatologické dny*, 10.–13. 5. 2011. /POSTER/
392. ŠENITKOVÁ, I. Analysis of *Francisella tularensis* FTT1103 binding partners. Mnichov, *Medical Biodefense Conference*, 25.–27.10.2011. /POSTER/
393. ŠINKOROVÁ, Z. Radiation fibrosis in mice. Hradec Králové, *Seminář – nové pohledy na účinek ionizujícího záření na živý organismus*, 15. 12. 2011.
394. ŠINKOROVÁ, Z. Radiosensitivity of B cells. Brno, *Workshop Pokroky veterinární imunologie*, 15.–16. 9. 2011.
395. ŠINKOROVÁ, Z., ZÁRYBNICKÁ, L., MATOŠKOVÁ, L. Dynamics of apoptosis in γ -irradiated B human lymphocytes. Warsaw, Poland, *14th International Congress of Radiation Research*, 28. 8.–1. 9. 2011. /POSTER/
396. ŠINKOROVÁ, Z., ZÁRYBNICKÁ, L., MATOŠKOVÁ, L., ŠINKORA, J. Flow cytometric study: human peripheral blood lymphocytes as biodosimetric indicators. Las Vegas, USA, *2011 Chemical and Biological Defense Science and Technology Conference*, 14.–20. 11. 2011. /POSTER/
397. ŠINKOROVÁ, Z., ZÁRYBNICKÁ, L., MATOŠKOVÁ, L., TICHÝ, A., PEJCHAL, J., ŠINKORA, J., VÁVROVÁ, J. Dynamics of apoptosis in γ -

- irradiated B human lymphocytes. Baltimore, USA, *Cyto2011*, 21.–25. 5. 2011. /POSTER/
398. ŠMEJKAL, K. Evidence of the source of bleeding in blunt torso trauma and the role of CT angiography. Hradec Králové, 13. *Bedrňův den s mezinárodní účastí*, 28.–29. 4. 2011.
399. ŠMEJKAL, K. Surgical treatment of fractures of the humerus diaphysis MIPO vs. EHN – a prospective randomized study. Hradec Králové, 11. *konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011.
400. ŠMEJKAL, K. Polytrauma for nurses. Seč, *AO Trauma kurz*, 7.–8. 4. 2011.
401. ŠMEJKAL, K. Fractures of the humerus diaphysis for doctors. Seč, *AO Advance kurz*, 7.–8. 4. 2011.
402. ŠPLIŇO, M., BOŠTÍKOVÁ, V., SMETANA, J., CHLÍBEK, R. News of epidemiology – EU 2011. Hradec Králové, *Liškutínovy dny – konference "Hygiena a preventivní medicína"*, 22. 6. 2 011.
403. ŠPLIŇO, M., BOŠTÍKOVÁ, V., SMETANA, J., CHLÍBEK, R. Pandemic Flu in Central European Countries – update 2011. Lima, Peru, *Meeting of International Board for the Investigation and Control of Influenza and Other Epidemic Diseases*, 6.–12. 5. 2011.
404. ŠPLIŇO, M., BOŠTÍKOVÁ, V., SMETANA, J., CHLÍBEK, R. The Influenza vaccination campaign – summary. Lima, Peru, *Meeting of International Board for the Investigation and Control of Influenza and Other Epidemic Diseases*, 6.–12. 5. 2011.
405. ŠTĚTINA, R., FIKROVÁ, P., SVOBODOVÁ, H., JOŠT, P., STREJČKOVÁ, L. The assay for measuring the individual capacity of nucleotide excision DNA repair. Bratislava, Slovakia, *Genetic Toxicology and Cancer Prevention*, 13.–15. 6. 2011.
406. ŠTĚTINA, R., STREJČKOVÁ, L., FLUTKOVÁ, K., TLUČHOŘOVÁ, D., ČERNOHORSKÁ, H., BRABNÍKOVÁ, Z. The influence of epigallocatechin gallate on the repair of DNA damage induced with hydrogen peroxide. Munster, Germany, *UKEMS/Dutch EMS sponsored Workshop on Biomarker of Exposure and Oxidative DNA Damage & 7th GUM 32P-Postlabelling Workshop*, 27.–30. 3. 2011. /POSTER/
407. ŠUBRT, Z. Surgical treatment of liver metastases of colorectal cancer. Hradec Králové, 11. *konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP*, 18.–19. 10. 2011.
408. ŠUBRT, Z. Expanded right-hemihepatectomy. Hradec Králové, 13. *Bedrňův den s mezinárodní účastí*, 28.–29. 4. 2011.
409. ŠUBRT, Z., FERKO, A., ČEČKA, F., JON, B. Benign non-traumatic hilar biliary strictures. Bratislava, Slovakia, 11. *dni mladých chirurgů*, 9.–10. 6. 2011.

- 410.ŠUBRT, Z., FERKO, A., JON, B., ČEČKA, F. The importance of PET / CT in the treatment of metastatic colorectal cancer. Brno, 6. *mezinárodní kongres miniinvazivní a robotické chirurgie*, 16.–18. 10. 2011.
- 411.ŠUBRT, Z., FERKO, A., JON, B., ČEČKA, F. The importance of PET / CT in the treatment of metastatic colorectal cancer. Brno, 6. *mezinárodní kongres miniinvazivní a robotické chirurgie*, 16.–18. 10. 2011. /POSTER/
- 412.TICHÝ, A. Phosphoproteomics: application in radiobiology. Hradec Králové, *Seminář – nové pohledy na účinek ionizujícího záření na živý organizmus*, 15. 12. 2011.
- 413.TICHÝ, A., HAVELEK, R., ŘEZÁČOVÁ, M., ŠINKOROVÁ, Z., ZÁRYBNICKÁ, L., PEJCHAL, J., VÁVROVÁ, J. Phosphorylated histone H2A.X is a perspective molecular indicator of received dose of gamma radiation. Las Vegas, USA, *2011 Chemical and Biological Defense Science and Technology Conference*, 14.–18. 11. 2011. /POSTER/
- 414.TICHÝ, A., PEJCHAL, J., ŠINKOROVÁ, Z., ZÁRYBNICKÁ, L., NOVOTNÁ, E., ŘEZÁČOVÁ, M., VÁVROVÁ, J. NU7026, PI3K-inhibitor, is a potent radiosensitizer of gamma-irradiated leukaemic MOLT-4 cells. Amsterdam, The Netherlands, *Current opinions in Structural Biology and DNA repair 2011*, 16.–18. 10. 2011. /POSTER/
- 415.TICHÝ, A., ŠALOVSÁ, B., ŘEHULKA, P., FABRIK, I., VÁVROVÁ, J., STULÍK, J., HERNYCHOVÁ, L. Optimization of selective enrichment of phosphopeptides from the mixture. Hradec Králové, *Česká konference hmotnostní spektrometrie*, 19.–21. 10. 2011. /POSTER/
- 416.VAJRYCHOVÁ, MV. Peptidome and proteome of amniotic fluid. Malá Úpa, *Výroční zasedání Ústavu molekulární patologie*, 15.–16. 12. 2011.
- 417.VANĚK, J., ČECH, P., BUREŠ, V., OTČENÁŠKOVÁ, T., ANTOŠ, K. Simulation of an emergency situation caused by biochemical incident. Beijing, China, *17th World Congress on Disaster and Emergency Medicine*, 31. 5.–3. 6. 2011.
- 418.VANĚK, J., JEŽEK, B. Practical algorithm for unlimited scale terrain rendering. Puerto De La Cruz, Tenerife, Spain, *Recent Researches in Circuits, Systems, Communications & Computers, Proceedings of the 2nd European Conference of Computer Science (ECCS '11)*, 10.–12. 12. 2011.
- 419.VANĚK, J., JEŽEK, B. Practical algorithm for rendering large terrain models, part one: triangles. Malá Morávka, *31. konference o geometrii a počítačové grafice*, 5.–8. 9. 2011.
- 420.VANĚK, J., JEŽEK, B. Right mouse button surrogate on touch screens. Beijing, China, *13st International Conference on Enterprise Information Systems*, 8.–11. 6. 2011.

421. VAŠATOVÁ, M., HORÁČEK, J., TICHÝ, M., JEBAVÝ, L., MALÝ, J. The use of cardiac biomarkers in detection of cardiotoxicity induced by conventional and high-dose chemotherapy for acute leukemia. Berlin, Germany, *IFCC WorldLab and EuroMedLab 2011*, 15.–19. 5. 2011. /POSTER/
422. VÁVROVÁ, J. Fullerene nanoparticles and their radioprotective effect. Hradec Králové, *Seminář – nové pohledy na účinek ionizujícího záření na živý organismus*, 15. 12. 2011.
423. VÁVROVÁ, J., ŘEZÁČOVÁ, M. Nuclear accident – Fukushima. Hradec Králové, 8. ročník celostátní konference *Medicína katastrof. Zkušenosti, příprava, praxe*, 24.–25. 11. 2011.
424. VÁVROVÁ, J., ŠINKOROVÁ, Z., LUKÁŠOVÁ, E., ŘEZÁČOVÁ, M. Irradiated stem cells and aging of the hematopoietic system. Warsaw, Poland, *14th International Congress of Radiation Research*, 28. 8.–1. 9. 2011. /POSTER/
425. VESIKARI, T., PRYMULA, R., LIESE, J. Booster dose at 12 months of an investigational meningococcal serogroup B vaccine (4CMENB) in toddlers previously primed at 2, 4, 6. Haag, The Netherlands, *ESPID 2011*, 7.–11. 6. 2011.
426. VESIKARI, T., PRYMULA, R., LIESE, J. Booster dose at 12 months of an investigational meningococcal serogroup B vaccine (4CMENB) in toddlers previously primed at 2, 4, 6. Haag, The Netherlands, *ESPID 2011*, 7.–11. 6. 2011. /POSTER/
427. VLČEK, V., POHANKA, M. Possible risks of organophosphate and carbamate insecticides application. Hradec Králové, 11. konference odborné Společnosti vojenských lékařů, farmaceutů a veterinárních lékařů ČLS JEP, 18.–19. 10. 2011. /POSTER/
428. WITT, P., PSUTKA, J. Requesting medical support on the battlefield with 9-Line MEDEVAC procedure. Libavá, 12. zdravotnická konference společných sil. *Přednemocniční péče – od teorie k praxi*, 25.–27. 10. 2011.
429. ZAJÍČEK, R., KLEIN, L., MATOUŠKOVÁ, E. Xe-Derma – a new temporary biological skin-covering in the treatment of paediatric scald-burns. Haag, *14th European burns association congress*, 14.–17. 9. 2011. /POSTER/
430. ZÁRYBNICKÁ, L., ŠINKOROVÁ, Z. The radiosensitivity of T-lymphocytes in vivo. Hradec Králové, ČR, *Výroční seminář studentů DPS oboru radiobiologie*, 8.6.2011.
431. ZÁRYBNICKÁ, L., ŠINKOROVÁ, Z. The study of T-lymphocyte subpopulations radiosensitivity in a frame of biodosimetry. Hradec Králové, 5. fakultní konferenci studentů doktorských programů, 10. 4. 2011.

432. ZÁRYBNICKÁ, L., ŠINKOROVÁ, Z., ŠINKORA, J. Mitochondrial membrane potential analyse within the frame of biodosimetric studies. Warsaw, Poland, *14th International Congress of Radiation Research*, 28.8.–2.9.2011. /POSTER/
433. ZÁRYBNICKÁ, L., ŠINKOROVÁ, Z., VÁVROVÁ, J. Gamma-H2AX as the indicator of irradiation – the flow cytometry assessment. Hradec Králové, *Seminář – nové pohledy na účinek ionizujícího záření na živý organismus*, 15. 12. 2011.
434. ZÁRYBNICKÁ, L., ŠINKOROVÁ, Z., VÁVROVÁ, J. In vivo irradiation and tools of biodosimetry. Las Vegas, USA, *2011 Chemical and Biological Defense Science and Technology Conference*, 14.–20. 11. 2011. /POSTER/
435. ŽDÁROVÁ KARASOVÁ, J., PAVLÍK, M., POHANKA, M., ZEMEK, F., KUČA, K. HPLC analysis of two cholinesterase inhibitors – tacrine and 7-methoxytacrine and their blood-brain barrier permeation. Dvůr Králové nad Labem, Česká republika, *14. konference o laboratorních zvířatech*, 25.–27.5.2011. /POSTER/
436. ŽDÁROVÁ KARASOVÁ, J., POHANKA, M., PAVLÍK, M., KASSA, J., MUSÍLEK, K., ZEMEK, F., KUČA, K. Distribution study of acetylcholinesterase reactivators after application of therapeutic doses in guinea pigs. Paris, France, *Eurotox 2011*, 28.–31. 8. 2011. /POSTER/
437. ŽDÁROVÁ KARASOVÁ, J., POHANKA, M., ZEMEK, F., KUČA, K. HPLC study of blood-brain barrier penetration of two acetylcholinesterase inhibitors – tacrine and 7-MEOTA after oral administration in rats. Barcelona, Spain, *The 10th International Conference on Alzheimer's and Parkinson's Diseases*, 9.–13. 3. 2011. /POSTER/
438. ŽDÁROVÁ KARASOVÁ, J., POHANKA, M., ZEMEK, F., ŠEPSOVÁ, V., MISÍK, J., KASSA, J., MUSÍLEK, K., KUČA, K. Blood-brain barrier: penetration and efflux of oxime K027. Las Vegas, USA, *Chemical and Biological Defense Science and Technology Conference*, 14.–18. 10. 2011. /POSTER/
439. ŽDÁROVÁ KARASOVÁ, J., ZEMEK, F., MUSÍLEK, K., KUČA, K. The penetration of acetylcholinesterase reactivators through the blood-brain barrier. Dvůr Králové nad Labem, Česká republika, *14. konference o laboratorních zvířatech*, 25.–27.5.2011. /POSTER/
440. ŽEJŠKOVÁ, L., PLACHÝ, R., MAZAL, O., VYDRA, J., KOZÁK, T., KARAS, M., KOZA, V., HORÁČEK, J., ŽÁK, P., PEKOVÁ, S. Assessment of minimal residual disease in patients with hematological diseases. Olomouc, *25. Olomoucké hematologické dny s mezinárodní účastí*, 22.–25. 6. 2011. /POSTER/

RESEARCH REPORTS

1. AMLÔT, R., RIDDLE, L., CHILCOTT, R., LARNER, J., JONES, R., HILEY, M., EGAN, J., SIMPSON, J., TUNELL, M., CLAESSON, O., CASSEL, G., KUČA, K., CABAL, J., JOSSE, D., CRUZ, C. Evaluation, optimisation, trialling and modelling of procedures for mass casualty decontamination (ORCHIDS). *[Závěrečná zpráva výzkumného úkolu ORCHIDS]*. Salisbury: Health Protection Agency, 2011. 66 p.
2. FAJFROVÁ, J. Analysis and intervention with focus on primary prevention. *[Závěrečná zpráva specifického výzkumu]*. Hradec Králové: FVZ UO, 2011. 15 p.
3. STŘÍTECKÁ, H. The final report of project of the public health support no. 9985 in year 2010. *[Závěrečná zpráva o plnění projektu podpory zdraví č. 9985 za rok 2010]*. Hradec Králové: FVZ UO, 2011. 10 p.

INDEX

B

BAJGAR, J. 14, 34, 68, 72, 85,
87, 103, 119, 123, 124, 128,
131, 132, 138, 139, 143, 146,
154, 167, 168

BALONOVÁ, L. 74, 93, 139, 154,
184

BARTOŠOVÁ, L. 68

BEDNARČÍK, P. 58, 146, 157,
158, 163

BENDOVÁ, T. 51

BERNARDOVÁ, M. 36

BLÁHA, V. 119, 131

BLANAŘ, R. 23, 24, 56, 103, 146,
155, 166

BLAŽEK, P. 54

BOCKOVÁ, I. 83

BOŠTÍK, P. 23, 24, 25, 28, 30,
34, 35, 40, 42, 43, 81, 84, 87,
89, 91, 93, 103, 111, 112, 115,
120, 122, 127, 128, 132, 136,
137, 141, 155

BOŠTIKOVÁ, V. 28, 34, 35, 36,
40, 42, 43, 81, 90, 93, 111,
113, 114, 120, 122, 127, 132,
133, 134, 136, 137, 138, 151,
155, 181, 186

BRNDIAR, M. 24, 44, 155, 160,
161

C

CABAL, J. 32, 33, 34, 68, 71, 72,
85, 93, 109, 127, 134, 136,
139, 140, 173, 190

Č

ČÁP, R. 47, 48, 49, 136, 139,
155, 162

ČERVENÝ, L. 25, 28, 29, 34, 42,
76, 77, 81, 107, 113, 122, 130,
154, 182, 184

ČMEDLOVÁ, P. 51

D

DOBEŠ, D. 47, 48, 49, 93, 156,
180

DRAHOKOUPILOVÁ, E. 135

DRESLER, J. 15, 29, 77, 80, 116,
121, 136, 139

DUŠKOVÁ, K. 51

E

ETFLAIŠOVÁ, P. 83

F

FAJFROVÁ, J. 58, 59, 88, 90, 91,
92, 107, 127, 132, 135, 146,
149, 152, 157, 158, 163, 175,
176, 185, 190

FERKO, A. 23, 47, 48, 49, 50,
120, 124, 130, 132, 138, 141,
142, 143, 145, 146, 155, 157,
167, 169, 186, 187

FORETOVÁ, Z. 74

FUSEK, J. 23, 61, 119, 128, 130,
132, 141, 147, 151, 167, 182

G

GRÖGER, T. 51

H

- HALAJČUK, T. 61, 89, 155, 156, 159
- HAMAN, L., 44, 91, 93, 126, 131, 132, 135, 149, 159, 175
- HANOVCOVÁ, I. 36, 129, 132, 137, 138, 155
- HÄRTLOVÁ, A. 25, 29, 77, 139, 157
- HEJČOVÁ, J. 61
- HERNYCHOVÁ, L. 23, 24, 27, 74, 76, 79, 93, 110, 112, 120, 125, 126, 130, 137, 139, 140, 154, 159, 160, 187
- HLAVÁČKOVÁ, H. 61
- HLÚBIK, P. 23, 58, 59, 92, 107, 118, 135, 137, 142, 143, 145, 146, 147, 149, 151, 152, 157, 158, 160, 163, 175, 176, 183, 184
- HORÁČEK, J., 44, 88, 93, 108, 115, 123, 131, 133, 139, 143, 144, 145, 147, 153, 155, 160, 161, 162, 166, 171, 188, 189
- HRABINOVÁ, M. 25, 30, 84, 111, 123, 125, 126, 127, 128, 134, 148, 150, 171, 176, 177
- HRDLÍČKOVÁ, L. 54
- HRSTKA, Z. 24, 61, 139, 140
- HUBÁLEK, M. 24, 27, 28, 29, 34, 42, 74, 76, 77, 78, 80, 81, 107, 108, 112, 116, 121, 122, 139, 140
- HUMLÍČEK, V. 56, 91, 150, 163, 180
- HUSÁROVÁ, M. 24, 58, 135, 146, 157, 158, 163, 175, 176

CH

- CHLÍBEK, R. 8, 15, 23, 36, 37, 38, 39, 40, 41, 86, 87, 88, 90, 91, 100, 103, 109, 113, 114, 119, 120, 122, 123, 127, 128, 129, 131, 132, 133, 137, 138, 147, 151, 155, 163, 164, 165, 181, 186

J

- JAKL, M. 44, 88, 123, 144, 147, 155, 161, 166, 172
- JANOUC, J. 61
- JAREŠOVÁ, L. 61
- JEBAVÝ, L. 23, 44, 88, 103, 121, 123, 143, 144, 145, 147, 153, 155, 160, 161, 166, 171, 188
- JEŽEK, B. 61, 89, 123, 133, 136, 140, 141, 142, 147, 165, 166, 167, 172, 176, 177, 187
- JIŘIČKA, M. 25
- JUN, D. 24, 25, 27, 31, 32, 33, 34, 63, 71, 72, 85, 108, 114, 115, 123, 130, 131, 134, 138, 141, 144, 147, 148, 151, 167, 170, 171, 176, 181, 182
- JUNKOVÁ, I. 83

K

- KAISLEROVÁ, L. 25, 26
- KASSA, J. 13, 23, 33, 34, 64, 66, 68, 72, 85, 87, 88, 93, 103, 104, 118, 119, 123, 124, 128, 129, 132, 133, 143, 145, 146, 148, 154, 167, 168, 171, 173, 176, 189
- KLEIN, L. 11, 23, 47, 49, 50, 87, 90, 91, 96, 118, 126, 133, 134, 136, 141, 142, 144, 162, 168, 169, 175, 188

KLIMENTOVÁ, J. 29, 74, 77, 86,
121, 130, 139
KOMÁREK, V. 54
KONŠTACKÝ, S. 51, 134, 169
KORÁBEČNÝ, J. 68, 121, 122,
124, 144, 147, 148, 149, 150,
162, 169, 177
KOŠTÁLOVÁ, L. 36
KROČOVÁ, Z. 28, 29, 30, 34, 42,
66, 74, 76, 77, 79, 81, 108,
112, 122, 145, 148, 170
KRUTIŠ, J. 51, 134
KUBELKOVÁ, K. 25, 27, 74, 76,
87, 88, 92, 94, 136, 148, 170
KUČA, K. 3, 16, 23, 25, 28, 29,
30, 31, 32, 33, 34, 62, 63, 64,
70, 71, 72, 84, 85, 87, 91, 93,
94, 104, 107, 109, 111, 112,
115, 118, 119, 121, 122, 123,
124, 125, 126, 127, 128, 129,
130, 131, 132, 134, 135, 137,
138, 140, 141, 144, 145, 146,
147, 148, 149, 150, 151, 156,
159, 162, 167, 168, 169, 170,
171, 173, 174, 175, 176, 177,
181, 182, 189, 190
KUNEŠOVÁ, G. 68, 168

L

LAŠÁK, P. 61
LEGERSKÁ, K. 36
LENČO, J. 29, 74, 77, 78, 80, 94,
107, 111, 112, 123, 130, 139,
140, 171
LINK, M. 29, 74, 77, 139, 157
LOCHMAN, P. 47, 48, 49, 50, 89,
93, 124, 125, 126, 130, 140,
144, 148, 149, 171, 172, 175
LUKŠÍKOVÁ, L. 74

M

MACELA, A. 15, 27, 28, 74, 76,
108, 132, 148, 170
MACHAČOVÁ, I. 44
MALÍKOVÁ, M. 36
MALÝ, V. 56, 91, 140, 150, 180
MAREK, J. 28, 36, 62, 68, 70,
117, 126, 129, 146, 148, 159,
169, 170, 171
MATOUŠEK, R. 51, 53, 89, 172,
173
MAZUROVÁ, Y. 25
MĚCHURA, J. 61
MERVARTOVÁ L. 33, 65, 66, 72
MISÍK, J. 68, 94, 126, 128, 131,
134, 140, 173, 189
MÍŠKOVÁ, Z. 24
MÍŠKOVÁ, L. 56
MRVEČKA, P. 56, 136, 140, 141,
150, 177
MUSÍLEK, K. 24, 28, 30, 32, 33,
34, 62, 63, 64, 68, 70, 71, 72,
85, 88, 90, 91, 93, 94, 110,
112, 116, 121, 123, 124, 125,
126, 129, 132, 134, 138, 141,
144, 145, 147, 148, 149, 151,
167, 168, 169, 170, 171, 174,
182, 189

P

PÁRAL, J. 24, 47, 48, 49, 50, 86,
89, 116, 125, 126, 140, 144,
148, 149, 157, 171, 172, 175
PÁVKOVÁ, I. 74, 139, 140, 184
PAVLÍK, V. 58, 127, 135, 141,
146, 149, 157, 158, 175
PAVLÍK, M., 29, 30, 34, 62, 68,
72, 83, 84, 85, 111, 140, 144,
145, 173, 175, 189

PEJCHAL, J. 25, 69, 30, 33, 34,
42, 66, 67, 72, 79, 81, 113,
119, 120, 122, 130, 131, 135,
137, 154, 159, 176, 185, 187

PEREGRINOVÁ, J. 58, 152

PÍRKOVÁ, J. 58

POHANKA, M. 24, 25, 28, 29, 30,
31, 32, 33, 34, 62, 63, 64, 70,
71, 72, 84, 85, 88, 91, 92, 94,
108, 111, 116, 119, 121, 122,
123, 125, 126, 127, 128, 129,
131, 132, 134, 135, 138, 141,
143, 144, 145, 146, 148, 149,
150, 154, 156, 167, 168, 169,
170, 171, 173, 175, 176, 177,
182, 188, 189

POTÁČ, M. 56, 136, 140, 141,
150

PROCHÁZKA, M. 23, 61, 69, 89,
131, 133, 135, 136, 140, 141,
147, 159, 162, 167, 172, 177,
178

PRŮCHOVÁ, Š. 65

PRYMULA, R. 11, 12, 14, 15, 23,
36, 37, 39, 40, 41, 104, 108,
113, 119, 122, 129, 131, 136,
150, 168, 178, 179, 188

PSUTKA, J. 13, 24, 56, 58, 91,
136, 140, 150, 180, 188

PUDÍK, P. 24, 180

PUDÍKOVÁ, M. 83

R

RESLOVÁ, E. 68

ROHLENA, M. 24

RŮŽIČKA, M. 56, 136, 140, 141,
150, 177, 180

RYDRYCH, J. 54

Ř

ŘEHULKA, P. 27, 29, 34, 42, 74,
76, 77, 81, 86, 88, 89, 92, 112,
122, 125, 126, 130, 157, 159,
163, 180, 182, 185, 187

S

SHESHKO, V. 25, 180, 181

SMETANA, J. 15, 24, 35, 36, 38,
40, 41, 43, 86, 92, 104, 110,
115, 120, 122, 123, 132, 133,
134, 136, 137, 138, 151, 155,
165, 181, 186

SOLÁROVÁ, A. 36

SOUKUP, O. 93, 130, 134, 144,
147, 148, 149, 151, 167, 171,
174, 181, 182

STRAŠKOVÁ, A. 25, 28, 75, 76,
88, 89, 92, 108, 130, 157, 182,
184, 185

STRÍTECKÁ, H. 58, 86, 90, 91,
92, 127, 137, 141, 142, 143,
145, 147, 151, 152, 160, 183,
184, 190

STULÍK, J. 14, 23, 24, 28, 29, 74,
76, 77, 78, 107, 114, 115, 121,
122, 125, 130, 137, 139, 142,
154, 157, 182, 184, 185, 187

SVOBODOVÁ, H. 68, 69, 73, 88,
91, 128, 137, 138, 144, 145,
152, 185, 186

Š

ŠAFÁŘOVÁ, M. 74

ŠEDIVÁ, M. 51

ŠEPSOVÁ, V. 68, 69, 94, 124,
137, 168, 173, 176, 189

ŠINKOROVÁ, Z. 24, 30, 34, 65,
66, 67, 79, 90, 94, 115, 122,
128, 130, 131, 136, 137, 145,
153, 159, 176, 185, 187, 188,
189

ŠÍSTKOVÁ, J. 51

ŠKRANCOVÁ, V. 68

ŠMEJKAL, K. 15, 47, 49, 92, 93,
116, 130, 134, 159, 169, 186

ŠMÍRA, P. 24, 136, 177

ŠPIDLOVÁ, P. 74, 130, 137, 182

ŠPLIŇO, M. 23, 36, 37, 90, 104,
120, 129, 132, 133, 137, 138,
155, 186

ŠTĚTINA, R. 24, 68, 73, 87, 88,
89, 91, 92, 104, 116, 121, 122,
128, 129, 132, 135, 137, 144,
145, 152, 153, 158, 185, 186

ŠUBRT, Z. 15, 24, 47, 49, 50, 89,
120, 126, 130, 132, 138, 140,
143, 144, 145, 146, 149, 155,
167, 172, 175, 186, 187

T

TICHÝ, A. 24, 33, 34, 44, 65, 66,
67, 72, 92, 94, 119, 120, 121,
122, 125, 129, 130, 135, 137,
176, 185, 187

TOMÁŠIK, M. 23

TÓTHOVÁ, I. 25, 30, 66, 79

U

UHLÍŘOVÁ, J. 68

V

VACKOVÁ, M. 15, 36, 132, 137,
138

VANĚK, J. 61, 89, 92, 133, 136,
140, 141, 142, 146, 147, 166,
167, 172, 176, 177, 187

VÁVROVÁ, J. 23, 34, 65, 67, 90,
115, 119, 120, 122, 125, 129,
130, 131, 135, 137, 141, 142,
153, 154, 155, 159, 174, 176,
180, 185, 187, 188, 189

VÍCHOVÁ, E. 54

VILASOVÁ, Z. 25, 33, 66, 72,
135, 176

VOPLATKOVÁ, Z. 24, 54

W

WITT, P. 56, 140, 141, 180, 188

Z

ZAHRADNÍČKOVÁ, J. 47

ZÁRYBNICKÁ, L. 30, 33, 34, 65,
66, 67, 72, 79, 90, 94, 122,
130, 131, 135, 137, 145, 153,
159, 176, 185, 187, 188, 189

ZEDNÍČEK, J. 54

ZIKOVÁ, J. 54

Ž

ŽÁKOVÁ, J. 25

ŽDÁROVÁ KARASOVÁ, J. 24,
28, 29, 30, 31, 32, 33, 61, 62,
63, 64, 70, 72, 84, 90, 92, 94,
108, 111, 117, 119, 123, 124,
127, 128, 129, 131, 133, 134,
137, 138, 141, 144, 145, 147,
148, 167, 168, 170, 171, 173,
175, 176, 182, 189

2011 Annual Report was edited and published by the Faculty of Military Health Sciences, University of Defence, Hradec Králové, Czech Republic

Editor: Mgr. Hana Hlaváčková

Computer work: Lenka Hrdličková, Mgr. Hana Hlaváčková
(using the OBD 2.6 and the VERSO programs)

Printing: 300

Printed: University of Defence

Contact address:

Fakulta vojenského zdravotnictví

Třebešská 1575

CZ-500 01 Hradec Králové

Tel.: +420 973 253 001

Fax: +420 495 513 018

E-mail: chlibek@pmfhk.cz

© Univerzita obrany, Brno, CZ

ISBN 978-80-7231-348-8