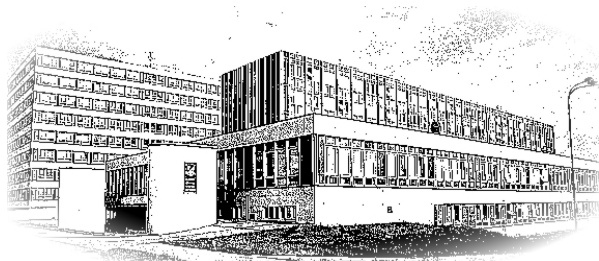


**UNIVERSITY OF DEFENCE  
FACULTY OF MILITARY HEALTH SCIENCES**

# **ANNUAL REPORT**

**2008**

**HRADEC KRÁLOVÉ  
CZECH REPUBLIC**



Faculty of Military Health Sciences  
HRADEC KRÁLOVÉ

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## EDITORIAL NOTES

Dear Reader:

This publication presents the main activities of the Faculty of Military Health Sciences Hradec Králové.

The 17<sup>th</sup> 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://www.pmfhk.cz>.

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

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## FOREWORD

Faculty of Military Health Sciences belongs among key elements of military university education as one of the three schools of University of Defence. 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.

In spite of limited personal and financial resources, 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. What is the reason for this? 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. From a short-term perspective, this model is more expensive; from a long-term perspective it may be more beneficial for the Army than contracting people from the civilian sector. 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. We can reduce the number of staff down to a certain level; however, there is a point behind which we may reach a sub-critical number. A sub-critical mass of resources (funds, facilities, staff) leads, as a rule, to the creation of an institution that is gradually dying during a period of a few years regardless of the organizational form (university, faculty, research institute). Our main concern is just the opposite – to form a living institution for the future in a reduced, but fully functional form. 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 NBC 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 of excellence for training and research in the field of NBC protection. Nevertheless our primary concern is

## *FOREWORD*

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education and training of students and young physicians. This is hardly to imagine without our closest partners. Let me thank on behalf of the Faculty of Military Health Sciences to the University of Defence, Medical and Pharmaceutical Faculties of Charles University and the Teaching Hospital in Hradec Králové and also to all our international cooperators and friends for their commitment, trust and support.

Dean of the Faculty of Military Health Sciences  
COL prof. MUDr. Roman Prymula, CSc., 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

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 doc. MUDr. Leo Klein, 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 doc. MUDr. Roman Prymula, 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 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 doc. 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 doc. MUDr. Roman Prymula, 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 doc. MUDr. Jiří Kassa, 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 Surgeon General 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.

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 the Faculty Departments, took place at the end of September. CW2 Veronika Mikusová and CW2 Pavel Novotný obtained this year’s primacy. The postgraduate program students presented their research results immediately afterwards. Works of authors CPT Karel Šmejkal, M.D., a student of postgraduate program Military Surgery and LT Jiří Dresler, Doctor of Pharmacy, a student of postgraduate program 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.

## THE MAIN AIMS OF THE FACULTY IN 2008

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)
- to provide postgraduate study for Ph.D. degree (3-5 years) in accredited disciplines:

Epidemiology	Military Hygiene
Field Internal Medicine	Military Radiobiology
Field Surgery	Molecular Pathology
Medical Microbiology	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 58 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 "Vojenské zdravotnické listy" (Military Medical Journal), which is the oldest military specialized journal which has been being published since 1927. 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 with review proceedings. This fact enables relatively wide training activities in accredited doctoral study programmes.

Nowadays the Faculty participates in 20 projects of defence research, 3 projects of Internal Grant Agency of the Ministry of Health, 4 project of the Ministry of Education, 4 projects of the Grant Agency of the Czech Republic, 2 foreign projects (NATO, EC). The total sum of research grants represents the amount of 70,3 mil. Czech Crowns. 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 2008, scientific work at the faculty departments and the institutes 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, Toxicology, Field Internal Medicine and Molecular Pathology and the accreditation for habilitation (associate professor) in the branches of Hygiene, Occupational

Medicine and Epidemiology, Toxicology, Field Surgery, Military Radiobiology, Field Internal Medicine and Molecular Pathology gives the evidence about the excellent level of achieved results in scientific and research activities of FMHS. In 2008 there were 11 professors (prof.), 11 associate professors (doc.), 4 doctors of science (DrSc.), 52 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. In the field of general and emergency medicine there were ongoing therapeutic activities within the framework of the Garrison Medical Centre and Emergency Medical Department.

### **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 PfP member 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 PfP countries. Every year there are exchanges of not only students but also of pedagogical staff with the Military Medical Academy (ESSA) in Lyons 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). Students take part in study stays in France, Slovakia, Germany, Sweden, Switzerland, England and in the frame of Erasmus programme in other states.

### **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.

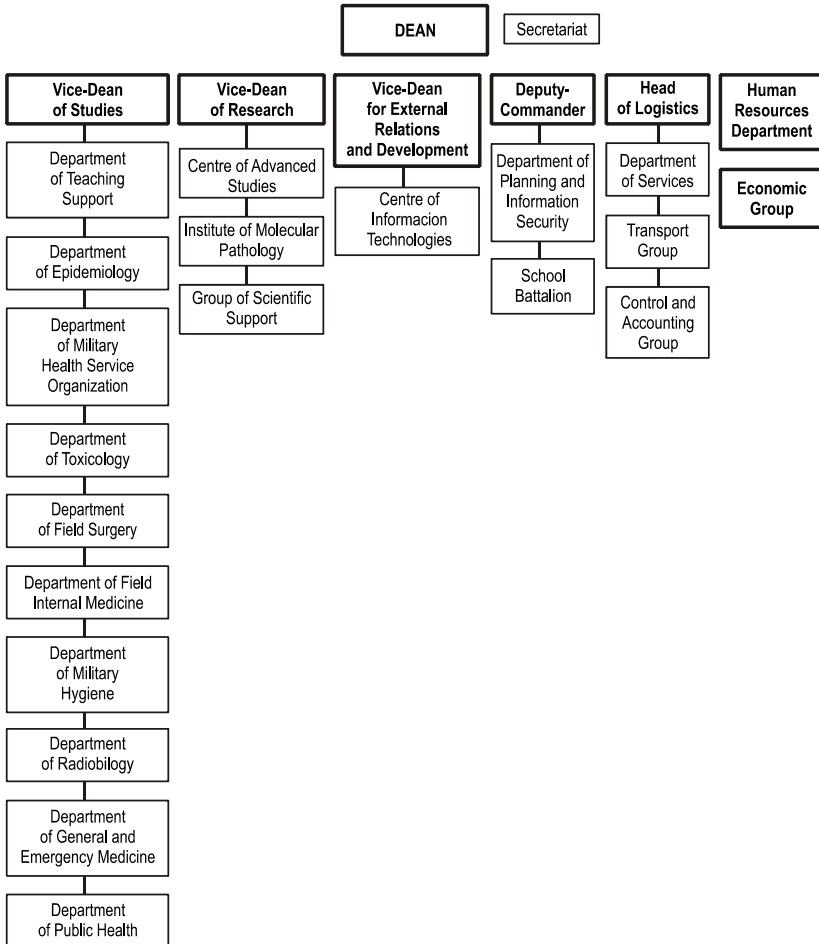
#### **6. Scientific and educational information services**

Scientific and educational information services that support the whole Medical Service of the Czech Republic Army were provided by the Centre of Information Technologies. 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. In 2008 five FMHS members took part in the foreign missions.

## The structure of the FMHS



## **THE DEAN OF THE FACULTY AND HIS DEPUTIES**

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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 supported by Ministry of Defence of Czech Republic. The biological labs of BSL2 and BSL3 category



and chemical lab for the analyses of highly toxic chemicals were activated during the first year of its existence. The team of the Centre adopted and provided an access to new technologies. 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 real time RT-PCR applications, mutagenesis of *Francisella tularensis* by allelic replacement, gene reporter assays, technologies for the qualitative and quantitative analyses of pesticides in natural samples using GC-MS (gas chromatography-mass spectrometry), method for determination of antioxidant and anti-aggregation properties of various samples (natural substances, antidotes against chemical warfare agents), preparation of quaternary and non-quaternary inhibitors of enzyme acetyl cholinesterase, click chemistry and 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).

The new well protected chemical laboratory equipped for the study of highly toxic chemicals, was opened in the Center of Advanced Studies during the year 2008. This new laboratory enables the scientists of C group of the Centre to test new prophylactic and therapeutic antidotes and scavengers of highly toxic chemical warfare agents, as are sarin or soman.

CBRN programs in 2008 follow the long-lasting research strategy of the Centre. B-agent program involves several topics aimed at management of biological crises, modelling & risk assessment, (immuno)prophylaxis of infections and finally the genetics of biological agents oriented to *Francisella tularensis*. C-agent program 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 quadridimensional structures and inter-molecular interactions. RN-agent program encompassing the problems of molecular markers of ionizing radiation injury is divided into biodosimetry and diagnosis and therapy of ionizing irradiation syndromes.

The new international contact has been established with several European 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

### **A new method of prophylaxis, decontamination, diagnostics and therapy after intoxication with nerve agents and yperits**

Bajgar, J., Kassa, J., Cabal, J., Fusek, J., Bartošová, L., Kunešová, G., Kuča, K., Jun, D., Štětina, R., Svobodová, H., Musílek, K., Žďárová Karasová, J., Kolečkář, V.

Supported by the Czech Republic Ministry of Defence, 2006–2008 (Project No.: OPUOFVZ200603)

Project aims: our knowledge on prophylactic efficacy of cholinesterase preparation against nerve agent intoxication by means of toxicological methods and to make the decision on directions of a new approach to prophylaxis to achieve better prophylactic effect in low doses at inhalation exposure.

To verify decontamination effect based on reverse micellar systems against chemical warfare agents *in vivo* and to make a decision on further research direction.

To evaluate efficacy of potential AChE reactivators and to find type of the reactivator able to reactivate nerve agent-inhibited AChE regardless of the nerve agent.

To validate the method estimating of DNA cross-links induced by sulphur mustard in cells incubated *in vitro*. By means of this method, to test a possible influence of selected antimutagens/combinations on the effect of sulphur mustard. The antimutagenic effect will be also verified by the observation of the induction of chromosomal damage in bone marrow cells of mice.

### **Array technologies for BSL3 and BSL4 pathogens**

Butaye, P., Sjostedt, A., Cassone, A., Veljkovic, V., Stulík, J., Homan, W., Toman, R., Macela, A.

Supported by EU COST Programme, 2005–2009 (Project No.: COST Action B28)

The main objective of the Action is to increase knowledge on BSL3 and BSL4 agents in order to support the development of more accurate diagnostics, vaccines and therapeutics, and to better understand epidemiology of these highly pathogenic micro-organisms that can be potentially used as biological weapons.

The concrete scientific programme is focused on the identification of target genes or gene products for the development of specific diagnostic and

characterization tools. Seventeen European countries together with Canada take part in this project and individual laboratories are divided according to applied technologies into five different workgroups – Flow cytometry and micro-array, Antigenicity, Proteomics and glycomics, Genomics and Microbiology.

**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., Macela, A., Kubelková, K.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200802)

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).

**Biological indicators of ionizing radiation**

Řeháková, Z., Österreicher, J., Vilasová, Z., Pejchal, J., Tóthová, I., Tichý, A.

Supported by the Czech Republic Ministry of Defence, 2006–2008 (Project No.: OPUOFVZ200604)

The aim of this project is to establish a convenient and easily accessible experimental model for the retrospective radiobiological determination of the received radiation dose, which would correspond to the situation occurring upon unpredictable irradiation of soldiers. In swine as a large animal model, we will determine convenient and reliable surface markers on peripheral blood leukocytes and lymphocytes that will change in time upon in vivo or in vitro irradiation in the range of 0.5 – 10 Gy. Immunophenotyping of white blood cells will be combined with determination of early apoptotic subpopulations characterized by both the presence of phosphatidylserine on the cell surface and early apoptotic protein expression in vivo and in vitro upon whole body and partial irradiation. Based on experimental data, we will propose appropriate and reliable biomarkers. We will also design a diagnostics for biodosimetric determination of the irradiation dose for the reinforcement laboratory No. 703 ARMS.

**Butyrylcholinesterase and aldoximes – bioscavengers for detoxification of organophosphates**

Kuča, K., Kovarik, Z., Jun, D., Žďárová Karasová, J., Musilová, L., Binder, J., Kolečkář, V., Bosak, A., Berend, S., Čalič, M., Vrdoljak, A., Šinko, G., Radiš, B.

Supported by NATO Cooperative Grant, 2007–2009 (Project No.: CBP.EAP.CLG 983024)

Current antidotes for organophosphorus compounds (OP) poisoning consist of a combination of pretreatment with carbamates (pyridostigmine bromide), to protect acetylcholinesterase (AChE) from irreversible inhibition by OP compounds, and post-exposure therapy with anti-cholinergic drugs to counteract the effects of excess acetylcholine and oximes to reactivate OP-inhibited AChE. One part of our previous research (RIG-PDD(CP)-(CBP.EAP.RIG 981791)) has been focused on conventional and a series of newly synthesised pyridinium oximes and therapy in tabun and soman poisoning. Oximes with the oxime group in para-position on the pyridinium ring were better reactivators of tabun- than of soman-inhibited AChE, but oximes with the oxime group in ortho-position were effective protectors of acetylcholinesterase against tabun or soman inhibition. Moreover, we had shown that a promising treatment in tabun poisoning by oximes could be improved if oximes are also applied as pretreatment drugs. In this project we would like to move the focus of our research on butyrylcholinesterase (BChE) that is being extensively investigated by several groups and judged to be the most suitable bioscavenger. An aim of the project will be optimisation of oximes that in combination with BChE could work as a catalytic scavenger in continuous decomposition of organophosphorus compounds. This approach turns the irreversible nature of the OP: ChE interaction from disadvantage to an advantage; instead of focusing on OP as an anti-ChE, one can use ChE as an anti-OP.

**Countermeasure against chemical terrorism – development of new antidotes against nerve agents**

Kuča, K., Jun, D., Musílek, K.

Supported by the Ministry of Education, Youth and Sports, 2006–2009 (Project No.: ME865)

The project is aimed at searching the most common pesticides as potential nerve agents, and testing to inhibit in vitro enzyme Acetylcholinesterase (AChE).

### **Crisis management after the use of biological agents**

Macela, A., Prymula, R., Urban, R., Winklerová, Z., Hernychová, L., Lenčo, J.

Supported by the Czech Republic Ministry of Defence, 2006–2008 (Project No.: OPUOFVZ200601)

The subjects of the defence research project "Management of crisis situations originated after the use of biological agents" are problems of protection against high-risk infections implicating origins of biological crises. The project is focused on known biological agents while accepting also new possible biological risks. The result of the project will be a data collection methodology, situation assessment, and planning of countermeasures within biological situation monitoring area. Possible scenarios of crises originated by BW-agents will be provided including their decision making procedures. Conceptual models of crisis management will be proposed as the operation analysis fundamentals. The project is of concern for state safety strategy. On the operational level, it will become a basis for biological resources planning. Potential users of the results are units creating concepts of operations and operational architecture, creators of doctrines and Operational and Tactical Systems, the Military Medical Service and the Government.

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

Žďárová Karasová, J., 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., Hubálek, M., Lenčo, J., Link, M., Klimentová, J., Kročová, Z., Filipp, D.

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., Červený, L.

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.

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

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

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., Pohanka, M., Žďárová Karasová, J.

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.

### **New biological methods of the received dose determination**

Šinkorová, Z., Faldyna, M., Zárbynická, L., Tichý, A., Vilasová, Z., Matiasovic, J.

Supported by the Ministry of Education, Youth and Sports, 2008–2010 (Project No.: 2B08028)

In case of accidental irradiation of a human body (irradiation accidents, inappropriate manipulation with radioactive waste, terroristic attack) the medical personnel have to cope with the fundamental task to determine the received dose of ionizing radiation in the most accurate and rapid way. Based on such analysis an appropriate treatment of irradiation disease must begin immediately. Current biodosimetric methods are time-consuming and thus do not fulfill the main task – to begin the treatment as soon as possible, preferably within 24 hr after exposure. In the attempt to provide a faster tool for an irradiation-associated body damage estimate we propose to use multiparametric flow cytometry and microarray analysis of blood lymphocytes cultivated for a defined time interval upon irradiation, which would allow for the received dose estimate by determination of apoptosis progression or changes in protein expression in lymphocyte subsets with different radiosensitivity.

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

Simpson, J., Cabal, J., Kuča, K.

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.

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

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

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.

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

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

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.

**Relationship between structure of acetylcholinesterase reactivators and their reactivation potency**

Kuča, K.

Supported by the Czech Republic Grant Agency, 2007–2009 (Project No.: GP305/07/P162)

Antidotal treatment of nerve agent and pesticide poisonings consists of anticholinergics (atropine mainly) and acetylcholinesterase (AChE) reactivators (pralidoxime, obidoxime, methoxime or HI-6). Due to the fact that currently available AChE reactivators are not able to reactivate AChE inhibited by all potential nerve agents, the development of new AChE reactivators still continues. For this purpose, the understanding of relationship between structural factors and their influence on the reactivation potency is useful. Among them, presence and number of functional oxime groups, presence and number of quaternary nitrogens, length and shape of the connecting chain are well discussed. In this project, we would like to find out relationship between structure of currently available AChE reactivators and their reactivation potency. For this purpose we would like to test one hundred structurally different AChE reactivators for their potency to



reactivate AChE inhibited by several nerve agents and pesticides (sarin, tabun, VX, cyclosarin, paraoxon, DFP). Results obtained during this work will be in future used as a help for the chemists interested in synthesis of new AChE reactivators.

**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., Österreicher, J., Tichý, A., Pejchal, J., Řezáčová, M.

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 biosimetric 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., Jun, D., Novotný, L., Musílek, K., Kassa, J., Pohanka, M.

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.

**Virulence factors of intracellular pathogen Francisella tularensis classified as category A biological warfare agents**

Stulík, J., Janovská, S., Macela, A., Hubálek, M., Kročová, Z., Lenčo, J., Zechovská, J., Heryňchová, L., Klimtová, I., Härtlová, A., Červený, L., Strašková, A., Link, M., Pallová, P.

Supported by the Czech Republic Ministry of Defence, 2006–2008 (Project No.: OPUOFVZ200602)

The research aimed at detection of possible factors of virulence Francisella tularensis led to the finding of pathogenicity island involving genes critical for intracellular microbe proliferation. This pathogenicity island contains three large gene segments designated as PdpA, B and C and additional eight open reading frames, including four genes of *igl* operon (*iglA, B, C* and *D*). Globally the number of identified potential factors of virulence of intracellular pathogen Francisella tularensis is in comparison

with its high infectivity and virulence insufficient. Moreover, there is no information about biological function and structure of products of genes located inside of pathogenicity island. In proposed project the emphasis will be placed on structural and functional analyses of the products of *igl* operon and hypothetical membrane lipoprotein that is differentially expressed between *Francisella tularensis* strains differing in virulence.

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The staff of the Centre of Information Technologies provides the top quality information service to ensure efficient scientific, research and teaching activities for teaching and research staff as well as students under new circumstances.

The Centre of Information Technologies is divided into two specialized parts – the group of informatics and the group of computer applications.

**The group of informatics** provides students, research and teaching staff of the Faculty of Military Health Sciences and members of the Czech Army Medical Service with wide scientific and information services. The main information services are provided by the library with 100 000 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, SpringerLink, BiblioMedica, ProQuest etc.) and provides systematic help when being used.

The group of informatics compiles and processes bibliographical records of works published by the employees of the Czech Army Medical Service that serve as sources for Annual Report, for evaluation of research and

teaching staff of the Faculty and for reports on research plans and projects for Board of Government for Science and Research.

The group also participates in teaching activities by providing French language courses (STANAG 1 and 2) for members of the Army of the Czech Republic and it also participates 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.

**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 Centre is able to cover reprographic and printing needs of the Faculty by its own sources only in limited extent. It works together with the printing-office of the University of Defence in Brno.

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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 21 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 vaccine like pneumococcal vaccines, Human Papilloma Virus vaccines, rotavirus vaccines, new adjuvante vaccines against viral hepatitis B, Lyme disease vaccines, combined hepatitis B and typhoid fever vaccines, flu vaccines or new vaccination schedules.

Members of the department are members of different Czech journals editorial boards (e. g. "Epidemiologie, mikrobiologie a imunologie" – prof. Špliňo), and they work as reviewers of international journals. Some of them work in a number of committees and boards: Scientific Board of the Ministry of Health (prof. Špliňo), Czech Immunization Committee of the Ministry of Health (prof. Prymula), or European Centre for Disease Control and Prevention (prof. Prymula).

Members of the department are also members of NATO working groups and advisory committees for biological threats and weapons (BIOMEDAC – Biological Medical Advisory Committee – doc. Chlíbek, COMEDS MMT EP (Military Medical Training Expert Panel) – dr. Smetana).

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 II, single-blind, randomized, controlled, multicentre vaccination study to evaluate the safety and immune response of the GSK Biologicals Zoster vaccine, gE/AS01B, and to compare 3 doses of gE with AS01B adjuvant in healthy elderly subjects, aged 60 to 69 years and 70 years and above**

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

Supported by the GlaxoSmithKline Biologicals co., 2007–2010 (Project No.: 108494, Zoster-003)

The safety and immunogenicity of the Varicella Zoster virus (VZV) gE (50 µg)/AS01B vaccine has been evaluated in a previous study. This study intends to compare the immunogenicity and safety of different doses of gE (25, 50 and 100 µg) with AS01B adjuvant and of different schedules of administration (1 vaccination with 100 µg of gE versus 2 vaccinations with different doses of gE) in the healthy elderly (? 70 years) population. Subjects aged 60-69 years will also be enrolled to evaluate the safety and immunogenicity of the vaccine formulations in that age group. A control group vaccinated with 100 µg gE antigen with saline will be included to support justification of the adjuvant.

### **Crisis management after the use of biological agents**

Macela, A., Prymula, R., Urban, R., Winklerová, Z., Hernychová, L., Lenčo, J.

Supported by the Czech Republic Ministry of Defence, 2006–2008 (Project No.: OPUOFVZ200601)

The subjects of the defence research project "Management of crisis situations originated after the use of biological agents" are problems of protection against high-risk infections implicating origins of biological crises. The project is focused on known biological agents while accepting also new possible biological risks. The result of the project will be a data collection methodology, situation assessment, and planning of countermeasures within biological situation monitoring area. Possible scenarios of crises originated by BW-agents will be provided including their decision making procedures. Conceptual models of crisis management will be proposed as the operation analysis fundamentals. The project is of concern for state safety strategy. On the operational level, it will become a basis for biological resources planning. Potential users of the results are units creating concepts of operations and operational architecture, creators of doctrines and Operational and Tactical Systems, the Military Medical Service and the Government.

### **Interference in immunogenicity of combined vaccine against hepatitis A and B by several risk factors**

Chlíbek, R., Smetana, J., Špliňo, M.

Supported by the GlaxoSmithKline Biologicals co., 2008–2008 (Project No.: HAB-168 BST:160)

A phase IV, open, multicentre, multicountry study to evaluate the immune response to a challenge dose of GSK Biologicals' Twinrix™ vaccine versus monovalent hepatitis A and B vaccines from different manufacturers in healthy and non-healthy adults aged > 41 years, approximately 48 months after primary vaccination in study 100382 (HAB-160).

### **LEPTOSPIROSIS - Risk evaluation and new possibilities of detection**

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

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.

**Prophylactic antipyretic treatment in children receiving booster dose of pneumococcal vaccine GSK1024850A and Infanrix hexa and assessment of impact of pneumococcal vaccination on nasopharyngeal carriage**

Prymula, R., Chlíbek, R., Hanousek, L., Hrunka, Š., Novák, L., Jarolímek, J., Hanovcová, I.

Supported by the GlaxoSmithKline Biologicals co., 2007 - 2008 (Project No.: 10PN-PD-DIT-014)

A phase IIIb, open, controlled study to assess the effect of prophylactic antipyretic treatment on the rate of febrile reactions following concomitant booster administration of GlaxoSmithKline (GSK) Biologicals' 10-valent pneumococcal conjugate vaccine with GSK Biologicals' Infanrix hexa vaccine in children at 12-15 months of age following a 3-dose primary vaccination in study 10PN-PD-DIT-010 (107017) and to evaluate the impact of pneumococcal vaccination on nasopharyngeal carriage compared to a pneumococcal vaccine unprimed control group receiving GSK Biologicals' meningococcal serogroup ACWY conjugate vaccine.

**The efficacy of varicella vaccines in preventing confirmed varicella cases over at least two years after vaccination**

Prymula, R., Hanousek, L., Hanousková, B., Hanousková, Š., Hrunka, Š., Jarolímek, J., Novák, L., Chlíbek, R.

Supported by the GlaxoSmithKline Biologicals co., 2005 - 2008 (Project No.: OKAH 179)

Blinded, randomised, controlled, multicenter study evaluated the clinical efficacy against varicella disease of GlaxoSmithKline Biologicals live attenuated varicella vaccine (Varilrix) given on a one-dose schedule and of GlaxoSmitKline Biologicals combined measles-mumps-rubella vaccine (Priorix-Tetra) given on a two-dose schedule in healthy children during the second year of life.

## DEPARTMENT OF FIELD INTERNAL MEDICINE

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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 2008 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).

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**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 medical specialists and surgeons
- Expertise and referential work for needs of the Czech Army
- Research
- Preparation of health personnel before foreign missions of the Czech Army

At present the Department of Field Surgery consists of two divisions – the Division of General Surgery and the Division of Traumatology and Burns Treatment. Besides working at each units of the Department of Surgery of the Teaching Hospital in Hradec Králové, the members of the Department perform both undergraduate courses in the discipline of field surgery for students of the Faculty of Military Health Sciences and postgraduate training of military doctors for their specialization exams in surgery and general medicine. The department also participates in teaching in the Battlefield Advanced Trauma Life Support (BATLS) courses, disaster medicine and the first aid courses, which are organized by the Faculty of Military Health Sciences for the Czech Army members. In the last several years, the department has played very important role in education and training of the personnel of the field hospitals operating in foreign missions (Yugoslavia, Bosnia, Albania, Afghanistan, Iraq). The members of the department also take part there. Research and publication activities are also essential part of the department work. The evidence of all above mentioned is particularly scientific success of the head of the department Assoc. Prof. A. Ferko, MD, Ph.D., who was awarded the prize in medical research by the Ministry of Health in 1998 and his monography was awarded the Maydl's prize for the best publication in surgery in 1999.

**Participation in a foreign mission:**

- F. Hošek – UNTS, Zagreb, Croatia, 1996
- Ferko – International hospital, SFOR, Shipovo, Bosna and Hercegovina, 2001
- R. Čáp – International hospital, SFOR, Shipovo, Bosna and Hercegovina, 2001
- Ferko – 11th Field Hospital, Army of Czech Republic, ISAF, Kabul, Afghanistan, 2002
- J. Páral – 11th Field Hospital, Army of Czech Republic, ISAF, Kabul, Afghanistan, 2002
- M. Plodr – 11th Field Hospital, Army of Czech Republic, ISAF, Kabul, Afghanistan, 2002
- Žvák – 11th Field Hospital, Army of Czech Republic, 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 field hospital, Army of Czech Republic, ISAF, KAIA, Kabul, Afghanistan 2007
- Žvák – 1st Contingent of field hospital, Army of Czech Republic, ISAF, KAIA, Kabul, Afghanistan 2007
- P. Lochman – 4th Contingent of field hospital, Army of Czech Republic, ISAF, KAIA, Kabul, Afghanistan 2008

**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.)
- Small Atlas of Bandaging Techniques (Páral)



## RESEARCH PROJECTS

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

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

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.

## DEPARTMENT OF GENERAL AND EMERGENCY MEDICINE

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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 as well as education and training for Military Medical Service Reserves according to their assignments. 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 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**

### **A new method of prophylaxis, decontamination, diagnostics and therapy after intoxication with nerve agents and yperits**

Bajgar, J., Kassa, J., Cabal, J., Fusek, J., Bartošová, L., Kunešová, G., Kuča, K., Jun, D., Štětina, R., Svobodová, H., Musílek, K., Žďárová Karasová, J., Kolečkář, V.

Supported by the Czech Republic Ministry of Defence, 2006–2008 (Project No.: OPUOFVZ200603)

Project aims: our knowledge on prophylactic efficacy of cholinesterase preparation against nerve agent intoxication by means of toxicological methods and to make the decision on directions of a new approach to prophylaxis to achieve better prophylactic effect in low doses at inhalation exposure.

To verify decontamination effect based on reverse micellar systems against chemical warfare agents in vivo and to make a decision on further research direction.

To evaluate efficacy of potential AChE reactivators and to find type of the reactivator able to reactivate nerve agent-inhibited AChE regardless of the nerve agent.

To validate the method estimating of DNA cross-links induced by sulphur mustard in cells incubated in vitro. By means of this method, to test a possible influence of selected antimutagens/combinations on the effect of sulphur mustard. The antimutagenic effect will be also verified by the observation of the induction of chromosomal damage in bone marrow cells of mice.

### **Basic life support with automated external defibrillators**

Matoušek, R.

Supported by the Ministry of Education, Youth and Sports, 2007–2008 (Project No.: 041.03/3.2.15.2/0322)

Basic Life Support sic Life Support with Automated External Defibrillators, project in Cooperation with Faculty of Military Health Sciences, University of Defence, Hradec Králové and IPVZ Prague.

### **Support of basic and advanced life support education**

Matoušek, R.

Supported by Charles University, 2007–2008 (Project No.: GK/VČE/26/07)

Project is focused for improving theoretical knowledges and practical skills in the field of first aid. The Guidelines for CPR 2005 are included in this project.

### **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 to the cytotoxic and cytostatic effect of sulphur mustard. The influence of 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.

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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 wartime health care system. It organizes postgraduate education for military doctors, pharmacists and bachelors in advanced courses and the training of reserve medical officers. It offers specialized training in the field of military health service administration and management.

The subject called "Organization and Tactics of Military Medical Service in Wartime" 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, triage of casualties, 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 wartime. It sets out the basic materials and proposals from the above – mentioned areas for the Czech Army Medical Service authorities.

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In its educational activities, the department carried on lectures for undergraduate studies with emphasis on military aspects and experience acquired from contacts with NATO armies. Military field training was performed in Vyškov. The results of its own research and knowledge gained from NATO armies in the area of hygiene support to troops in both peacetime and wartime were included in the teaching. The department has been paying more attention to topical problems in preventive medicine within training for the state examination and in postgraduate training.

The department's lectures comprise both undergraduate and postgraduate studies (medical students, doctors, medical managers, nurses). These activities are aimed at general and special part of hygiene and preventive medicine (communal hygiene, mental hygiene, occupational hygiene, hygiene of nutrition). The department participates in many courses for the postgraduate study of doctors:

- postgraduate courses in the field of occupational hygiene
- postgraduate courses in the field of nutrition, obesity, body composition, and risk factors of coronary heart disease
- prevention of socio-pathological phenomena in the Army

## RESEARCH PROJECTS

### **A 2-year study to assess the efficacy, safety and tolerability of Taranabant in obese patient (IIb/III phase)**

Hlúbik, P., Střítecká, H., Vosečková, A.

Supported by Merck & Co., Inc., 2006–2008 (Project No.: MK-0364-037)

A phase IIb/III randomized, placebo-controlled clinical trial to study the safety and efficacy of Taranabant in obese patients and in overweight patients with obesity-related co-morbidities, Followed by a 1-Year Extension (104weeks)

### **A 3-year study to assess the efficacy, safety and tolerability of MK-0364 in obese patient (III phase)**

Hlúbik, P., Střítecká, H., Peregrinová, J., Pavlík, V.

Supported by Merck & Co., Inc., 2005–2009 (Project No.: MK-364-015)

This is multicenter, worldwide, double-blind, placebo-controlled, phase III. study with 2400 randomized patients. Prior to randomization, there will be a

2-week single-blind placebo run-in period. Eligible patients will be allocated in a 2:2:2:3:3 ratio to 1 of 5 treatment groups, including placebo, 1 of 3 fixed doses of MK-0364 (2,4 or 6 mg) or MK-0364 titrated up to 6mg. Each group will be treated for period of 156 weeks (plus dietary and activity counseling).

**Be in a good form and condition after parturition!**

Fajfrová, J., Hlúbik, P., Vosečková, A., Pavlík, V., Dřevová, J.

Supported by the Internal Grant Agency of the Czech Republic Health Service, 2008–2009 (Project No.: 9933)

Aim of project is to contact women after childbirth and involve them in concern about healthful nutrition, exercise and psychological changes after childbirth.

Within the project, besides physical examination, will be done biochemical and anthropometric examination. Due to this will be determined nutritional state of participant maters. These results together with evaluation of daily food records will be base for pointed individual intervention within nutritional and physical training counseling. Counseling psychology and psychotherapy will be a part of intervention. To assess of changes of health and nutritional state of maters will be done follow-up examination.

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The primary mission of the Department of Public Health (DPH) is focused on integration of health care, pharmaceutical and managerial branches to support Medical Service of the Czech Army, particularly in the field of disaster medicine and emergency planning.

The DPH consists of three groups – the Health Care Management Group, the Military Pharmacy Group and the Fitness Preparation Group.

Teaching activities are one of its main tasks. The DPH takes part in undergraduate programmes in military health care management, military medicine and military pharmacy. In addition, teachers run courses and training programmes in health care management, medical emergency planning, critical incident stress management, bio-informatics, health economics and medical law. The DPH participates in preparation of troops for foreign missions.

Research activities play an important role. The research is focused on the process modeling of health facilities particularly in emergency situations, geographical information systems in emergency planning, telemedicine and

medical visualization. Members of the department concentrate on 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 cooperations with national and foreign universities.

The department has been involved in international projects creating centers and methodology for education in health management and for regional health policy.

Czech Science Foundation, Foundation of Ministry of Health, and Foundation of Ministry of Defence have supported the research projects.

## DEPARTMENT OF RADIOBIOLOGY

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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-dosimetric 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**

### **Biological indicators of ionizing radiation**

Řeháková, Z., Österreicher, J., Vilasová, Z., Pejchal, J., Tóthová, I., Tichý, A.

Supported by the Czech Republic Ministry of Defence, 2006–2008 (Project No.: OPUOFVZ200604)

The aim of this project is to establish a convenient and easily accessible experimental model for the retrospective radiobiological determination of the received radiation dose, which would correspond to the situation occurring upon unpredictable irradiation of soldiers. In swine as a large animal model, we will determine convenient and reliable surface markers on peripheral blood leukocytes and lymphocytes that will change in time upon in vivo or in vitro irradiation in the range of 0.5 - 10 Gy. Immunophenotyping of white blood cells will be combined with determination of early apoptotic subpopulations characterized by both the presence of phosphatidylserine on the cell surface and early apoptotic protein expression in vivo and in vitro upon whole body and partial irradiation. Based on experimental data, we will propose appropriate and reliable biomarkers. We will also design a

diagnostics for biodosimetric determination of the irradiation dose for the reinforcement laboratory No. 703 ARMS.

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

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

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.

**New biological methods of the received dose determination**

Šinkorová, Z., Faldyna, M., Zárybnická, L., Tichý, A., Vilasová, Z., Matiasovic, J.

Supported by the Ministry of Education, Youth and Sports, 2008–2010 (Project No.: 2B08028)

In case of accidental irradiation of a human body (irradiation accidents, inappropriate manipulation with radioactive waste, terroristic attack) the medical personnel have to cope with the fundamental task to determine the received dose of ionizing radiation in the most accurate and rapid way. Based on such analysis an appropriate treatment of irradiation disease must begin immediately. Current biodosimetric methods are time-consuming and thus do not fulfill the main task - to begin the treatment as soon as possible, preferably within 24 hr after exposure. In the attempt to provide a faster tool for an irradiation-associated body damage estimate we propose to use multiparametric flow cytometry and microarray analysis of blood lymphocytes cultivated for a defined time interval upon irradiation, which would allow for the received dose estimate by determination of apoptosis progression or changes in protein expression in lymphocyte subsets with different radiosensitivity.

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

Österreicher, J.

Supported by the Czech Republic Ministry of Defence, 2008–2009 (Project No.: OVUOFVZ200812)

The goal of this study is to evaluate expression of perspective biosimetric 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., Österreicher, J., Tichý, A., Pejchal, J., Řezáčová, M.

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 biosimetric markers after exposure to gamma radiation, after whole-body and partial irradiation of rats. To evaluate protective effect of acetyl-L-carnitine.

**Study of factors in a tissue microenvironment that influence the process of skeletal muscle reparation**

Filip, S., Vávrová, J., Mokřý, J., Šinkorová, Z., Čížková, D., Tichý, A., Řezáčová, M.

Supported by the Czech Republic Grant Agency, 2008 - 2010 (Project No.: 304/08/0329)

Degeneration of the cardiotoxin-damaged skeletal muscle is followed by a subsequent tissue repair, which is a multistep process that is well morphologically defined. We modify this process with gamma irradiation before and after induction of a muscle damage, which impairs a natural course of myofibre regeneration and makes a space for transplanted exogenous cells (CD117+, Sca-1+ bone marrow cells). Progeny of transplanted exogenous vector, lacZ gene, is identified histochemically. A part of the study involves examination of kinetics of haemopoietic stem cells after lethal irradiation and transplantation of stem cells.



## DEPARTMENT OF TOXICOLOGY

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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, behavioral 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, behavioral, 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. 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**

### **A new method of prophylaxis, decontamination, diagnostics and therapy after intoxication with nerve agents and yperits**

Bajgar, J., Kassa, J., Cabal, J., Fusek, J., Bartošová, L., Kunešová, G., Kuča, K., Jun, D., Štětina, R., Svobodová, H., Musílek, K., Žďárová Karasová, J., Kolečkář, V.

Supported by the Czech Republic Ministry of Defence, 2006–2008 (Project No.: OPUOFVZ200603)

Project aims: our knowledge on prophylactic efficacy of cholinesterase preparation against nerve agent intoxication by means of toxicological methods and to make the decision on directions of a new approach to prophylaxis to achieve better prophylactic effect in low doses at inhalation exposure.

To verify decontamination effect based on reverse micellar systems against chemical warfare agents in vivo and to make a decision on further research direction.

To evaluate efficacy of potential AChE reactivators and to find type of the reactivator able to reactivate nerve agent-inhibited AChE regardless of the nerve agent.

To validate the method estimating of DNA cross-links induced by sulphur mustard in cells incubated *in vitro*. By means of this method, to test a possible influence of selected antimutagens/combinations on the effect of sulphur mustard. The antimutagenic effect will be also verified by the observation of the induction of chromosomal damage in bone marrow cells of mice.

### **Antimutagenic effects of selected natural substances and their combinations**

Polívková, Z., Šmerák, P., Langová, M., Bártová, J., Štětina, R.

Supported by the Internal Grant Agency of the Czech Republic Health Service, 2006–2008 (Project No.: NR8985)

In the project, combinations of defined compounds of plant origin (curcumin, epigallocatechin gallate, fenyl-ethyl-isocyanate and elagic acid) will be tested for the antimutagenic activity. Antimutagenic compounds and their combinations administered repeatedly will be tested for their ability to inhibit the mutagenic or immunosuppressive effects of reference mutagens with known mechanism of action (2-amino-3-methylimidazo[4,5-f] chinoline (IQ) and N-nitroso-N-methylurea (MNU)). The antimutagenic activity of tested compound and their combinations will be followed up *in vitro* in mammalian cell cultures using the comet assay (single cell gel electrophoresis) for the detection of the DNA breaks. Selected combinations of antimutagens will be also tested *in vivo* in mice for their capacity to inhibit the induction of DNA breaks and micronuclei in bone marrow cells and in colon epithelium.

### **Butyrylcholinesterase and aldoximes - bioscavengers for detoxification of organophosphates**

Kuča, K., Kovarik, Z., Jun, D., Žďárová Karasová, J., Musilová, L., Binder, J., Kolečkář, V., Bosak, A., Berend, S., Čalič, M., Vrdoljak, A., Šinko, G., Radiš, B.

Supported by NATO Cooperative Grant, 2007–2009 (Project No.: CBP.EAP.CLG 983024)

Current antidotes for organophosphorus compounds (OP) poisoning consist of a combination of pretreatment with carbamates (pyridostigmine bromide), to protect acetylcholinesterase (AChE) from irreversible inhibition by OP compounds, and post-exposure therapy with anti-cholinergic drugs to counteract the effects of excess acetylcholine and oximes to reactivate OP-inhibited AChE. One part of our previous research (RIG-PDD(CP)-

(CBP.EAP.RIG 981791)) has been focused on conventional and a series of newly synthesised pyridinium oximes and therapy in tabun and soman poisoning. Oximes with the oxime group in para-position on the pyridinium ring were better reactivators of tabun- than of soman-inhibited AChE, but oximes with the oxime group in ortho-position were effective protectors of acetylcholinesterase against tabun or soman inhibition. Moreover, we had shown that a promising treatment in tabun poisoning by oximes could be improved if oximes are also applied as pretreatment drugs. In this project we would like to move the focus of our research on butyrylcholinesterase (BChE) that is being extensively investigated by several groups and judged to be the most suitable bioscavenger. An aim of the project will be optimisation of oximes that in combination with BChE could work as a catalytic scavenger in continuous decomposition of organophosphorus compounds. This approach turns the irreversible nature of the OP: ChE interaction from disadvantage to an advantage; instead of focusing on OP as an anti-ChE, one can use ChE as an anti-OP.

**Countermeasure against chemical terrorism – development of new antidotes against nerve agents**

Kuča, K., Jun, D., Musílek, K.

Supported by the Ministry of Education, Youth and Sports, 2006–2009 (Project No.: ME865)

The project is aimed at searching the most common pesticides as potential nerve agents, and testing to inhibit in vitro enzyme Acetylcholinesterase (AChE).

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

Žďárová Karasová, J., 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.

**Genetic profile of biotransformation and DNA repair genes in cancer patients from the Czech Republic**

Vodička, P., Souček, P., Štětina, R.

Supported by the Internal Grant Agency of the Czech Republic Health Service, 2005 - 2009 (Project No.: NR8563)

The whole project is aimed at the evaluation of possible links between individual genetic background (evaluation of polymorphisms in both DNA repair genes and XME genes - involved in the metabolism of xenobiotics), and expression levels of studied polymorphic genes in selected patients with various cancer and healthy controls from population of the Czech Republic. On a selected cohort, we will attempt to determine gene expression for selected XME (e. g. CYP1B1, EPHX1, NQO1) and DNA repair genes (XPD, XPC, XRCC1). Expression profiles of DNA repair and XME genes will be compared with genetic profiles and confronted with outcomes from the functional enzymologic and DNA repair tests. The assays for nucleotide excision repair and base excision repair will be based on the employment of comet assay.

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

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

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., Cabal, J., Kuča, K.

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.

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

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

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.

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

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

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., Jun, D., Novotný, L., Musílek, K., Kassa, J., Pohanka, M.

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 2008, the Department of Toxicology has started the cooperation with the National Poison Control Centre, Military Medical Academy, Belgrade – Republic of Serbia and continued in cooperation with some other research institutes (Medicinal Science Division, Korea Research Institute of Chemical Technology, Taejon – Korea, Institute for Medical Research and Occupational Health, Zagreb - Croatia, Department of Pharmacology and Therapeutics, Faculty of Medicine and Health Science, United Arab Emirates University, Al Ain – United Arab Emirates, 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) in the field of development of prophylactic and therapeutic means against nerve agents and organophosphorous insecticides. The cooperation has been mostly characterized by the exchange of scientific information.

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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, terrorist 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 Max-Planck Institute, Berlin, Germany - construction and maintenance of *Francisella tularensis* 2-DE database, 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*.

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 10 full-time permanent employees, 8 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 10 PhD students and, furthermore, 13 undergraduates have been working on their diploma thesis in the Institute.

## **RESEARCH PROJECTS**

### **Array technologies for BSL3 and BSL4 pathogens**

Butaye, P., Sjostedt, A., Cassone, A., Veljkovic, V., Stulík, J., Homan, W., Toman, R., Macela, A.

Supported by EU COST Programme, 2005–2009 (Project No.: COST Action B28)

The main objective of the Action is to increase knowledge on BSL3 and BSL4 agents in order to support the development of more accurate diagnostics, vaccines and therapeutics, and to better understand epidemiology of these highly pathogenic micro-organisms that can be potentially used as biological weapons.

The concrete scientific programme is focused on the identification of target genes or gene products for the development of specific diagnostic and characterization tools. Seventeen European countries together with Canada take part in this project and individual laboratories are divided according to applied technologies into five different workgroups – Flow cytometry and micro-array, Antigenicity, Proteomics and glycomics, Genomics and Microbiology.

### **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., Macela, A., Kubelková, K.

Supported by the Czech Republic Ministry of Defence, 2008–2011 (Project No.: OVUOFVZ200802)

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).

### **Crisis management after the use of biological agents**

Macela, A., Prymula, R., Urban, R., Winklerová, Z., Hernychová, L., Lenčo, J.

Supported by the Czech Republic Ministry of Defence, 2006–2008 (Project No.: OPUOFVZ200601)

The subjects of the defence research project "Management of crisis situations originated after the use of biological agents" are problems of protection against high-risk infections implicating origins of biological crises. The project is focused on known biological agents while accepting also new possible biological risks. The result of the project will be a data collection methodology, situation assessment, and planning of countermeasures within biological situation monitoring area. Possible scenarios of crises originated by BW-agents will be provided including their decision making procedures. Conceptual models of crisis management will be proposed as the operation analysis fundamentals. The project is of concern for state safety strategy. On the operational level, it will become a basis for biological resources planning. Potential users of the results are units creating concepts of operations and operational architecture, creators of doctrines and Operational and Tactical Systems, the Military Medical Service and the Government.

### **Differential proteome analysis of bacterial *Francisella tularensis* glyco- and phospho- proteins**

Hernychová, L., Bílková, Z.

Supported by the Ministry of Education, Youth and Sports, 2008–2010 (Project No.: ME08105)

Post-translational modifications (PTM) of proteins play crucial role in the assembly, degradation, structure, and function of exprimed genes. PTM of proteins of bacterial pathogens strongly influence the nature of interaction with host cell system. However, little is known about the character and function of such modifications for intracellular bacteria. The main objective of the project is focused on the analysis of *Francisella tularensis* proteins, their post-translational modifications as glycosylation and phoshorylation. The aim of the research is to describe their structure in context with pathogenity and virulency of various subtypes of bacterial strains, differing in level of virulency. The strategy approach will be based on technologies that combine modern separation methods with mass spectrometry structure identification. The biofunctionalized magnetic nanoparticles with lectins, metal ions or specific mono(poly)clonal antibodies permit sufficient selectivity for glycosylated or phoshporylate.

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

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

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.

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

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

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.

**Mapping and characterization of proteome of Coxiella burnetii, the etiological agent of Q fever**

Škultéty, L., Toman, R., Hernychová, L., Slabá, K., Fodorová, M., Vadovič, P.

Supported by the Scientific Grant Agency (VEGA), 2005–2008 (Project No.: VEGA5030/25)

This project addresses proteomic techniques for the study of Coxiella burnetii, the etiological agent of Q fever. Besides the whole cell lysates, the purified integral membrane proteins and secreted proteins will be analyzed. Using two-dimensional (2-D) gel electrophoresis, the reference protein map of C. burnetii will be generated. Protein species will be identified by peptide mass fingerprinting techniques. The C. burnetii protein database will be initiated. The useful molecular determinants for its identification and typing will be selected and the bacterial antigens that are differentially expressed in virulent phase I and low-virulent phase II will be identified. Moreover, the protein database could be a useful tool for screening immunoreactive bacterial proteins/peptide and searching for genes controlling expression of virulence traits and virulence factors. For a more practical reason, mapping

of bacterial surface proteins could be utilized for both rapid detection and identification of the microbial taxons.

### **Protein biomarkers in hypertrophic cardiomyopathy**

Pudil, R., Stulík, J., Hubálek, M., Lenčo, J.

Supported by the Internal Grant Agency of the Czech Republic Health Service, 2007–2009 (Project No.: NR9253)

The aim of the project is detection and identification of new plasma biomarkers that could be used for the unambiguous diagnosis of hypertrophic cardiomyopathy in the clinical praxis in the future.

### **Proteomic analysis of *Francisella tularensis* LVS cultivated intracellular in vitro and in vivo, identification of potential virulence factors**

Pávková, I.

Supported by the Czech Republic Grant Agency, 2006–2008 (Project No.: GP310/06/P266)

This project is focused on proteomic analysis of differential expressed proteins of intracellular cultivated *F. tularensis* under in vitro or in vivo growth conditions. Proteins of whole-cell lysate and membrane fraction will be studied using the basic proteomics methods - two-dimensional electrophoresis and mass spectrometry. Finally, first functional studies of proteins selected by means of the complex proteomic analysis of *F. tularensis* will be performed. The obtained findings will contribute significantly to the understanding of the pathogenesis of this microbe and to the construction of effective protective means.

### **Study of B-cell interaction with intracellular pathogen *Francisella tularensis***

Kročová, Z.

Supported by the Czech Republic Grant Agency, 2007–2009 (Project No.: GA310/07/0226)

Originally, it was thought that immunity against *Francisella tularensis* is predominantly cell-mediated. However, recent studies clearly show both contributions of specific antibodies in the host defense and the role of B cells in non-specific early protective immunity. Direct interaction of B cells with either *F. tularensis* or its LPS has not been studied, yet. In proposed project we plan to prove this interaction and elucidate further destiny of bacteria inside of B cells using flow cytometry, determination of CFU and microscopic methods (electron, fluorescent and confocal). The activation of selected cell signaling pathways, apoptic pathways and induction of transcription of

cytokines and their receptors characteristic for B cells will be examined by means of cDNA arrays. The semi-quantitative and quantitative analysis of mRNA's for selected genes will be accomplished by RT-PCR and real time RT-PCR. The quantitative changes on the protein level will be verified by western blot, iTRAQ or SILAC technologies combined with MALDI TOF/TOF mass spectrometry and by ELISA. The identification of individual components, including their phosphorylation status, of isolated lipid rafts by immunoblotting or mass spectrometry will provide information about functional signalosome complex formation in the course of in vitro infection.

**Virulence factors of intracellular pathogen *Francisella tularensis* classified as category A biological warfare agents**

Stulík, J., Janovská, S., Macela, A., Hubálek, M., Kročová, Z., Lenčo, J., Zechovská, J., Heryňchová, L., Klimtová, I., Härtlová, A., Červený, L., Strašková, A., Link, M., Pallová, P.

Supported by the Czech Republic Ministry of Defence, 2006–2008 (Project No.: OPUOFVZ200602)

The research aimed at detection of possible factors of virulence *Francisella tularensis* led to the finding of pathogenicity island involving genes critical for intracellular microbe proliferation. This pathogenicity island contains three large gene segments designated as PdpA, B and C and additional eight open reading frames, including four genes of *igl* operon (*iglA*, *B*, *C* and *D*). Globally the number of identified potential factors of virulence of intracellular pathogen *Francisella tularensis* is in comparison with its high infectivity and virulence insufficient. Moreover, there is no information about biological function and structure of products of genes located inside of pathogenicity island. In proposed project the emphasis will be placed on structural and functional analyses of the products of *igl* operon and hypothetical membrane lipoprotein that is differentially expressed between *Francisella tularensis* strains differing in virulence.

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## VIVARIUM

### Educational and Research Staff

NOVOTNÝ Ladislav (Head of the Department)

novotnyl@pmfhk.cz

ŠPELDA Stanislav

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### 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, hamsters, rabbits, laboratory dogs of BEAGLE, 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 big experimental animals – dogs and pigs. 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 4 November 2008 the vivarium was accredited for use again for 5 years (till 4 November 2013) by the Central Board for Animal Protection and 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

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

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

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

### France

- BELLEINGUER Sarah (Cestas) – a French teacher, 1 October 2007 – 30 June 2008
- VILLARD Hubert (Vichy) – a French teacher, 1 October 2008 – 30 June 2009
- GEN HUET F., MD, COL PROST O., MD, CW2 DUCREUX M. (Lyon-Bron) – evaluation of hitherto cooperation, a visit by the representatives of the E.S.S.A. in Lyon, 20 October 2008 – 23 October 2008

### Lithuania

- LT SEMJONOVA J. (Riga) – full-time study in general medicine with military medical specialization, 1 October 2008 – 31 December 2008

### Slovakia

- LTC JANTOŠ R., MD, LTC FÖLDES L., MD, COL HUDÁK M., COL BZÍK M, LTC BEREC J. (Ružomberok) – 8th Conference of the Professional Society of Military Doctors and Pharmacists of the Czech J. E. Purkyně Medical Association, 27 November 2008 – 28 November 2008

### Turkey

- Assoc. Prof. YAREN Hakan, MD PhD. (Ankara) – talks on the cooperation in the field of chemical protection of civilian and Armed Forces and mutual project discussion, 16 June – 27 June 2008. Based on this invitation. LT PharmDr. Jana Zdarova Karasova and Ing. Kamil Kuca visited Turkey in September, 22 September 2008 – 25 September 2008

### United States

- MAASDAM Ch., WYRICK B., MARSHALL M., HOLOWAY T., JONES, S. (Oregon) – talks on the cooperation with the Texas National Guard, 14 January 2008 – 17 January 2008

## VISITS ABROAD

### Afghanistan

- Lochman, P. (Mission ISAF, Afghanistan, 3 April 2008 – 5 August 2008)
- Österreicher, J. (ISAF, Kábul, 1 April 2008 – 8 August 2008)
- Pavlík, V. (ISAF, Kabul, 3 March 2008 – 5 August 2008)
- Psutka, J. (ISAF Field Hospital, Kabul, 24 July 2008 – 19 December 2008)

### Austria

- Chlíbek, R. (26th ESPID, Graz, 15 May 2008 – 17 May 2008)
- Kuča, K. (20th International Symposium on Medicinal Chemistry, Vienna, 31 August 2008 – 4 September 2008)
- Musílek, K. (20th International Symposium on Medicinal Chemistry, Vienna, 31 August 2008 – 4 September 2008)
- Prymula, R. (ISW–TBE Meeting, Baden, 31 January 2008 – 2 February 2008)
- Prymula, R. (26th ESPID, Graz, 12 May 2008 – 17 May 2008)
- Prymula, R. (Investigator Meeting, Vienna, 17 October 2008 – 17 October 2008)
- Smetana, J. (26th ESPID, Graz, 13 May 2008 – 17 May 2008)

### Belgium

- Hernychová, L. (European Biological Database – Management of Information Support of Biological Crisis Identification, Brussels, 17 March 2008 – 19 March 2008)
- Hubálek, M. (European Biological Database – Management of Information Support of Biological Crisis Identification, Brussels, 17 March 2008 – 19 March 2008)
- Kassa, J. (29th NATO CBRN Medical Working Group Meeting, Brussels, 3 February 2008 – 6 February 2008)
- Macela, A. (European Biological Database – Management of Information Support of Biological Crisis Identification, Brussels, 17 March 2008 – 19 March 2008)

- Prymula, R. (FEAM, Brussels, 18 February 2008 – 18 February 2008)
- Prymula, R. (FEAM, Brussels, 28 March 2008 – 28 March 2008)
- Prymula, R. (FEAM, Brussels, 14 April 2008 – 14 April 2008)
- Prymula, R. (ESWI, Brussels, 18 June 2008 – 20 June 2008)
- Prymula, R. (PhiD-CV Gloval Advisory Board, Leuven, 15 October 2008 – 16 October 2008)
- Prymula, R. (ESWI Meeting, Ghent, 25 November 2008 – 26 November 2008)
- Smetana, J. (COMEDS - MMT EP, Brussels, 29 September 2008 – 1 October 2008)
- Šinkorová, Z. (Nuclear workshop meeting, Brussels, Belgium, 9 October 2008 – 9 October 2008)

#### **Bosnia and Herzegovina**

- Österreicher, J. (KFOR, Lipljan, 2 October 2007 – 17 January 2008)

#### **Bulgaria**

- Blanař, R. (Bilateral cooperation – Military Medical Service of the CAF, Sofia, 6 October 2008 – 10 October 2008)
- Macela, A. (International Congres of IMAB, Varna, 8 May 2008 – 11 May 2008)
- Malý, V. (Bilateral cooperation, Sofia, 6 October 2008 – 10 October 2008)

#### **Canada**

- Klein, L. (14th Congress of the International Society for Burn Injuries (ISBI), Montreal, 6 September 2008 – 12 September 2008)

#### **Croatia**

- Dresler, J. (REECOOP HST Consortium: 2nd Bridges in Life Sciences Annual Scientific Review, Zagreb, 3 October 2008 – 6 October 2008)
- Jun, D. (Visit of the foreign institution – Institute for Medical Research and Occupational Health, Zagreb, 5 May 2008 – 18 May 2008)

## *VISITS ABROAD*

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- Macela, A. (REECOOP HST Consortium: 2nd Bridges in Life Sciences Annual Scientific Review, Zagreb, 3 October 2008 – 6 October 2008)
- Prymula, R. (REECOOP HST Consortium: 2nd Bridges in Life Sciences Annual Scientific Review, Zagreb, 4 October 2008 – 6 October 2008)
- Strašková, A. (REECOOP HST Consortium: 2nd Bridges in Life Sciences Annual Scientific Review, Zagreb, 3 October 2008 – 6 October 2009)
- Stulík, J. (European Consortium Meeting – FP7, Rijeka, 30 September 2008 – 3 October 2008)
- Žďárová Karasová, J. (Institute of Medical Health and Occupational Health, Prof. Zrnka Kovaric, Zagreb, 5 May 2008 – 11 May 2008)

### **Denmark**

- Vávrová, J. (13th EHA Congress, Copenhagen, 11 June 2008 – 16 June 2008)

### **Finland**

- Prymula, R. (ECDC, Helsinki, 15 June 2008 – 18 June 2008)

### **France**

- Jun, D. (Internship in „Development and Testing of Enzyme Bioscavengers of Nerve Agents Using Molecular Modeling Methods“, La Tronche, 1 September 2008 – 31 October 2008)
- Kročová, Z. (Conference – Understanding and Controlling Infectious Diseases: an Agenda for 21th Century, Paris, 10 November 2008 – 14 November 2008)
- Kubelková, K. (Conference – Understanding and Controlling Infectious Diseases: an Agenda for 21th Century, Paris, 10 November 2008 – 14 November 2008)
- Macela, A. (Conference – Understanding and Controlling Infectious Diseases: an Agenda for 21th Century, Paris, 10 November 2008 – 14 November 2008)
- Mervartová, L. (The 36th Annual Meeting of the European Radiation Research Society, Tours, 31 August 2008 – 5 September 2008)

- Pejchal, J. (The 36th Annual Meeting of the European Radiation Research Society, Tours, 31 August 2008 – 5 September 2008)
- Prymula, R. (EUROGIN 2008, Nice, 11 November 2008 – 16 November 2008)
- Prymula, R. (ECDC, Paris, 13 November 2008 – 14 November 2008)
- Stulík, J. (European Consortium Meeting – FP7, Paris, 9 November 2008 – 12 November 2008)
- Šinkorová, Z. (Presentation of our scientific results, Tours, 1 September 2008 – 3 September 2008)
- Šinkorová, Z. (The 36th Annual Meeting of the European Radiation Research Society, Tours, 31 August 2008 – 5 September 2008)
- Špidlová, P. (Conference – Understanding and Controlling Infectious Diseases: an Agenda for 21th Century, Paris, 10 November 2008 – 14 November 2008)
- Vávrová, J. (The 36th Annual Meeting of the European Radiation Research Society, Tours, 31 August 2008 – 5 September 2008)
- Vilasová, Z. (The 36th Annual Meeting of the European Radiation Research Society, Tours, 31 August 2008 – 5 September 2008)

## Germany

- Bajgar, J. (11th Medical Chemical Defense Conference, Munich, 22 April 2008 – 24 April 2008)
- Fusek, J. (11th Medical Chemical Defense Conference, Munich, 22 April 2008 – 24 April 2008)
- Hubálek, M. (Working Residency at Applied Biosystems Laboratory, Darmstadt, 8 April 2008 – 10 April 2008)
- Humlíček, V. (Joint Medical Planner Course, Oberammergau, 26 May 2008 – 30 May 2008)
- Kassa, J. (11th Medical Chemical Defense Conference, Munich, 22 April 2008 – 24 April 2008)
- Klimentová, J. (Course – Membrane Proteomics by Blue Native PAGE, Hanover, 1 July 2008 – 5 July 2008)
- Kuča, K. (11th Medical Chemical Defense Conference, Munich, 22 April 2008 – 24 April 2008)

## **VISITS ABROAD**

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- Macela, A. (BIO DIM Symposium, Munster, 9 June 2008 – 12 June 2008)
- Musílek, K. (11th Medical Chemical Defense Conference, Munich, 22 April 2008 – 24 April 2008)
- Prymula, R. (NATO Bio Warfare Defence Awareness Course, Oberammergau, 29 July 2008 – 30 July 2008)
- Prymula, R. (ESCAIDE 2008, Berlin, 19 November 2008 – 21 November 2008)
- Štětina, R. (11th Medical Chemical Defence Conference, Munich, 23 April 2008 – 24 April 2008)

### **Greece**

- Dobeš, D. (23rd World Congress of the International Union of Angiology, Athens, 21 June 2008 – 25 June 2008)
- Kuča, K. (EUROTOX 2008, Rhodos, 5 October 2008 – 8 October 2008)
- Musílek, K. (EUROTOX 2008, Rhodes, 5 October 2008 – 8 October 2008)
- Pohanka, M. (EUROTOX 2008, Rhodos, 5 October 2008 – 8 October 2008)

### **Hungary**

- Kuča, K. (Semmelweis University – Lecture, Budapest, 31 October 2008 – 31 October 2008)
- Lenčo, J. (Intergene Pre-term Birth Central and Eastern European Network, Pecs, 2 October 2008 – 4 October 2008)
- Musílek, K. (Visit of co-workers group: Department of Pharmacodynamics, Semmelweis University, Budapest, 29 October 2008 – 30 October 2008)
- Šmejkal, K. (9th European Congress of Trauma and Emergency Surgery – 1st ESTES-Congress, Budapest, 24 May 2008 – 27 May 2008)
- Žďárová Karasová, J. (Visit of co-workers group: Department of Pharmacodynamics, Semmelweis University, Budapest, 29 October 2008 – 31 October 2008)

- Žvák, I. (9th European Congress of Trauma and Emergency Surgery – 1st ESTES Congress, Budapest, 24 May 2008 – 27 May 2008)

### **China**

- Fučíková, A. (Beijing Proteome Research Center scientific meeting, Peking, 18 November 2008 – 23 November 2008)
- Tambor, V. (Beijing Proteome Research Center scientific meeting, Peking, 18 November 2008 – 23 November 2008)

### **Ireland**

- Prymula, R. (ISPPD, Reykjavik, 8 June 2008 – 13 June 2008)

### **Israel**

- Klein, L. (3rd Mission of the Czech Health Care Representatives to Israel, Tel Aviv, 25 May 2008 – 1 June 2008)

### **Italy**

- Dresler, J. (Conference – From Genome to Proteome, Siena, 30 August 2008 – 5 September 2008)
- Hlúbik, P. (7th International Symposium on Multiple Risk Factors in Cardiovascular Diseases, Venice, 22 October 2008 – 26 October 2008)
- Klimentová, J. (Conference – From Genome to Proteome, Siena, 30 August 2008 – 5 September 2008)
- Páral, J. (12th European Conference of Surgery, Naples, 26 November 2008 – 29 November 2008)
- Pávková, I. (Conference – From Genome to Proteome, Siena, 30 August 2008 – 5 September 2008)
- Plodr, M. (12th European Conference of Surgery, Naples, 26 November 2008 – 29 November 2008)
- Střítecká, H. (7th International Symposium on Multiple Risk Factors in Cardiovascular Diseases, Venice, 22 October 2008 – 26 October 2008)
- Stulík, J. (Conference – From Genome to Proteome, Siena, 30 August 2008 – 5 September 2008)

**Japan**

- Kassa, J. (International Crisis Management Symposium on CBRN and Emerging Infectious Diseases, Choshi, 12 July 2008 – 17 September 2008)
- Kuča, K. (International Crisis Management Symposium on CBRN and Emerging Infectious Diseases, Choshi, 12 September 2008 – 17 September 2008)
- Musílek, K. (International Crisis Management Symposium on CBRN and Emerging Infectious Diseases, Choshi, 13 September 2008 – 16 September 2008)
- Pohanka, M. (International Crisis Management Symposium on CBRN and Emerging Infectious Diseases, Choshi, 12 September 2008 – 17 September 2008)

**Lithuania**

- Prymula, R. (CEVAG, Vilnius, 1 April 2008 – 5 April 2008)

**Luxembourg**

- Prymula, R. (Workshop on Vaccination Strategy, Luxembourg, 13 February 2008 – 14 February 2008)

**Malaysia**

- Prymula, R. (13th International Congress on Infectious Diseases, Kuala Lumpur, 18 June 2008 – 24 June 2008)

**Norway**

- Ferko, A. (Surgical Endoscopy Expert Summit – New Trends and Technology on Endoscopic Surgery, Tromsø, 6 May 2008 – 9 May 2008)

**Portugal**

- Dobeš, D. (21st ESICM Annual Congress, Lisbon, 21 September 2008 – 25 September 2008)
- Plodr, M. (18th European Conference – EWMA, Lisbon, 14 May 2008 – 16 May 2008)
- Prymula, R. (The European Scientific Working Group on Influenza, Vilamoura, 13 September 2008 – 18 September 2008)



### **Republic of Korea**

- Kuča, K. (Annual Meeting of Pharmaceutical Society of Korea, Seoul, 19 October 2008 – 25 October 2008)

### **Romania**

- Stulík, J. (6th Management Committee and WG1, WG2, WG3, WG4 and WG5 Meetings, Bucarest, 9 September 2008 – 11 September 2008)

### **Serbia**

- Červený, L. (Finding of possibilities for cooperation with the Institute of Molecular Medicine, Military Medical Academy Belgrade, Belgrade, 11 November 2008 – 14 November 2008)
- Halajčuk, T. (Practical training experience before deployment, Lipljan, 2 May 2008 – 9 May 2008)
- Kassa, J. (Working stay to Military Medical Academy Belgrade, Belgrade, 10 November 2008 – 14 November 2008)

### **Slovakia**

- Bajgar, J. (13th Interdisciplinary Toxicology Conference TOXCON 2008, Trenčianské Teplice, 27 May 2008 – 30 May 2008)
- Bednarčík, P. (Conference: Living Conditions and Health, Štrbské Pleso, 6 October 2008 – 8 October 2008)
- Cabal, J. (13th Interdisciplinary Toxicology Conference TOXCON 2008, Trenčianské Teplice, 27 May 2008 – 30 May 2008)
- Hlúbik, P. (6th Slovak's Days of Obesity, Spa Nimnica, 20 November 2008 – 22 November 2008)
- Hlúbik, P. (Conference: Living Conditions and Health, Štrbské Pleso, 6 October 2008 – 8 October 2008)
- Hlúbik, P. (6th Westslovakai Days of Osteoporosis, Nitra, 7 February 2008 – 8 February 2008)
- Humlíček, V. (Bilateral cooperation, Liptovský Mikuláš, 2 June 2008 – 6 June 2008)
- Chlíbek, R. (Possibilities in prevention of viral hepatitis, Banská Bystrica, 2 April 2008 – 2 April 2008)

## *VISITS ABROAD*

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- Chlíbek, R. (Possibilities in prevention of viral hepatitis, Nitra, 8 April 2008 – 8 April 2008)
- Chlíbek, R. (Possibilities in prevention of viral hepatitis, Bratislava, 9 April 2008 – 9 April 2008)
- Chlíbek, R. (Possibilities in prevention of viral hepatitis, Košice, 17 April 2008 – 17 April 2008)
- Chlíbek, R. (Influenza vaccines, Trnava, 23 September 2008 – 23 September 2008)
- Chlíbek, R. (Influenza vaccines, Bratislava, 25 September 2008 – 25 September 2008)
- Chlíbek, R. (Influenza vaccines, Kosice, 1 October 2008 – 1 October 2008)
- Kassa, J. (13th Interdisciplinary Toxicology Conference TOXCON 2008, Trenčianské Teplice, 27 May 2008 – 30 May 2008)
- Kubelková, K. (8th EFIS–EJI Tatra Immunology Conference: Molecular Determinants of T cell Immunity, Štrbské Pleso, 7 June 2008 – 10 June 2008)
- Kuča, K. (13th Interdisciplinary Toxicology Conference TOXCON 2008, Trenčianské Teplice, 27 May 2008 – 30 May 2008)
- Macela, A. (Protection Against Rickettsial and Viral Infections – consultation, Bratislava, 27 October 2008 – 27 October 2008)
- Malý, V. (Bilateral cooperation, Liptovský Mikuláš, 2 June 2008 – 6 June 2008)
- Musílek, K. (13th Interdisciplinary Toxicology Conference TOXCON 2008, Trenčianské Teplice, 27 May 2008 – 30 May 2008)
- Pavlík, V. (6st Slovak's Days of Obesity, Spa Nimnica, 20 November 2008 – 22 November 2008)
- Pavlík, V. (Conference – Living Conditions and Health, Štrbské pleso, 6 October 2008 – 8 October 2008)
- Pohanka, M. (13th Interdisciplinary Toxicology Conference TOXCON 2008, Trenčianske Teplice, 27 May 2008 – 30 May 2008)
- Prymula, R. (Advisory Board Meeting, Bratislava, 6 February 2008 – 7 February 2008)
- Prymula, R. (CEVAG, Bratislava, 12 December 2008 – 13 December 2008)

- Růžička, M. (Bilateral cooperation, Liptovský Mikuláš, 2 June 2008 – 6 June 2008)
- Střítecká, H. (6th Slovak's Days of Obesity, Spa Nimnice, 20 November 2008 – 22 November 2008)
- Střítecká, H. (24st Day of Sborov, Nitra, 7 February 2008 – 8 February 2008)
- Šinkorová, Z. (30th Days of Radiation Protection, Liptovský Ján, 10 November 2008 – 14 November 2008)
- Špliňo, M. (medical Microbiology at the end of the 20th century, Bratislava, 21 October 2008 – 21 October 2008)
- Štětina, R. (5th DNA Repair Workshop, Smolenice, 25 May 2008 – 29 May 2008)
- Štětina, R. (Autumn working days – Genetic Toxicology and Prevention of the Cancer, Bratislava, 13 October 2008 – 15 October 2008)
- Vilasová, Z. (30th Days of Radiation Protection, Liptovský Ján, 10 November 2008 – 14 November 2008)
- Zárybnická, L. (30th Days of Radiation Protection, Liptovský Ján, 10 November 2008 – 14 November 2008)
- Zárybnická, L. (8th EFIS–EJI Tatra Immunology Conference, Štrbské Pleso, 7 June 2008 – 11 June 2008)

### **Spain**

- Chlíbek, R. (Investigator meeting, Madrid, 19 November 2008 – 21 November 2008)
- Kročová, Z. (Conference – B Cells 2008: Complexity, Integration and Translation, Sant Feliu de Guixols, 15 May 2008 – 22 May 2008)
- Smetana, J. (Investigator meeting, Madrid, 19 November 2008 – 21 November 2008)

### **Sweden**

- Macela, A. (Kick-off Meeting of European Biological Database, Lövänger Kyrkstad, 19 November 2008 – 22 November 2008)
- Macela, A. (Finalisation of the CZ–SWE Agreement on Know–How Transfer, Umea, 15 September 2008 – 18 September 2008)

## VISITS ABROAD

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- Prymula, R. (ECDC, Stockholm, 17 March 2008 – 19 March 2008)
- Prymula, R. (Meeting ECDC, Stockholm, 10 September 2008 – 11 September 2008)
- Prymula, R. (European Control for Disease Prevention and Control, Stockholm, 22 September 2008 – 23 September 2008)
- Smetana, J. (COMEDS – MMT EP, Goteborg, 7 April 2008 – 11 April 2008)
- Strašková, A. (Know-How Transfer and Development of Collaboration in the Field of Molecular Pathogenesis of Infection, Umea, 5 May 2008 – 23 May 2008)
- Šinkorová, Z. (Finalisation of the CZ-SWE Agreement on Know-How Transfer, Umea, 16 September 2008 – 18 September 2008)
- Špidlová, P. (Know-How Transfer and Development of Collaboration in the Field of Molecular Pathogenesis of Infection, Umea, 5 May 2008 – 5 July 2008)

### Switzerland

- Bajgar, J. (7th International Chemical and Biological Medical Treatment Symposium (VII CBMTS), Spiez, 12 April 2008 – 19 April 2008)
- Bajgar, J. (BCWT Experts Meeting, Geneva, 18 August 2008 – 22 August 2008)
- Bajgar, J. (BCWT Annual Meeting of State Parties, Geneva, 1 December 2008 – 5 December 2008)
- Ferko, A. (Colorectal Congress – Inflammatory Bowel Diseases, St. Gallen, 2 December 2008 – 6 December 2008)
- Fusek, J. (7th International Chemical and Biological Medical Treatment Symposium (VII CBMTS), Spiez, 12 April 2008 – 19 April 2008)
- Härtlová, A. (Institute of Molecular and Systematic Biology ETH, Zurich, 25 September 2008 – 1 November 2008)
- Härtlová, A. (Conference – At the Joint Edge of Cellular Microbiology and Cell Biology, Villars-sur-Ollon, 20 September 2008 – 25 September 2008)
- Hlúbik, P. (16th European Congress on Obesity, Geneva, 14 May 2008 – 17 May 2008)

- Hubálek, M. (Negotiation at the Institute of Molecular Systems Biology, Zurich, 10 November 2008 – 21 November 2008)
- Jun, D. (7th International Chemical and Biological Medical Treatment Symposium (VII CBMTS), Spiez, 12 April 2008 – 19 April 2008)
- Kassa, J. (7th International Chemical and Biological Medical Treatment Symposium (VII CBMTS), Spiez, 12 April 2008 – 19 April 2008)
- Kuča, K. (7th International Chemical and Biological Medical Treatment Symposium (VII CBMTS), Spiez, 12 April 2008 – 19 April 2008)
- Musílek, K. (7th International Chemical and Biological Medical Treatment Symposium (VII CBMTS), Spiez, 12 April 2008 – 19 April 2008)
- Strašková, A. (Conference – At the Joint Edge of Cellular Microbiology and Cell Biology, Villars-sur-Ollon, 20 September 2008 – 25 September 2008)
- Střítecká, H. (16th European Congress on Obesity, Geneva, 14 May 2008 – 17 May 2008)
- Šubrt, Z. (Colorectal Congress – Inflammatory Bowel Diseases, St. Gallen, 2 December 2008 – 6 December 2008)
- Žďárová Karasová, J. (7th International Chemical and Biological Medical Treatment Symposium (VII CBMTS), Spiez, 12 April 2008 – 19 April 2008)

### **The Netherlands**

- Fučíková, A. (7th Annual World Congress HUPO 2008, Amsterdam, 17 August 2008 – 21 August 2008)
- Lenčo, J. (7th Annual World Congress HUPO 2008, Amsterdam, 17 August 2008 – 21 August 2008)
- Lenčo, J. (HUPO 2008, Amsterdam, 16 August 2008 – 20 August 2008)
- Link, M. (7th Annual World Congress HUPO 2008, Amsterdam, 17 August 2008 – 21 August 2008)
- Prymula, R. (16th International Pathogenic Neisseria Conference 2008, Rotterdam, 7 September 2008 – 12 September 2008)

## **VISITS ABROAD**

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- Šmejkal, K. (The Definitive Surgical Trauma Care course, Nijmegen, 9 December 2008 – 12 December 2008)
- Štětina, R. (Panel Discussion ETO78 – Biomarkers of Exposure to Genotoxic Chemical Compounds, Delft, 9 December 2008 – 13 December 2008)
- Tambor, V. (7th Annual World Congress HUPO 2008, Amsterdam, 17 August 2008 – 21 August 2008)
- Žvák, I. (The Definitive Surgical Trauma Care Course, Nijmegen, 9 December 2008 – 12 December 2008)

### **Turkey**

- Kuča, K. (Gulhane Military Medical Academy – Lecture, Ankara, 23 September 2008 – 23 September 2008)
- Prymula, R. (EMEA – Pneumococcal Summit Agenda, Istanbul, 16 November 2008 – 18 November 2008)
- Žďárová Karasová, J. (Gulhane Military Medical Academy, Dr. Hakan Yaren, Ankara, 22 September 2008 – 25 September 2008)

### **United Arab Emirates**

- Jun, D. (Visit of co-operating department (United Arab Emirates University, Faculty of Medicine and Health Sciences, Department of Pharmacology and Therapeutics), Al Ain, 24 November 2008 – 28 November 2008)
- Kuča, K. (1st International Conference on Drug Design and Discovery, Dubai, 4 February 2008 – 7 February 2008)
- Musílek, K. (Visit of co-workers group: Department of Pharmacology and Therapeutics, FMHS, UAE University, Al Ain, 24 November 2008 – 28 November 2008)
- Žďárová Karasová, J. (Visit of co-workers group: Department of Pharmacology and Therapeutics, FMHS, UAE University, Al Ain, 24 November 2008 – 28 November 2008)

### **United Kingdom**

- Dobeš, D. (BATLS, London, 20 April 2008 – 23 April 2008)
- Kročová, Z. (Gordon Research Conference: Immunochemistry and Immunobiology, Oxford, 16 August 2008 – 22 August 2008)

- Kubelková, K. (An encompassment of new technology of preparing of monoclonal antibodies against immunogens of *F. tularensis* using phage display library and the introducing this method in the Inst. Molecul. Pathol., London, 30 March 2008 – 30 May 2008)
- Kuča, K. (ORCHIDS Project Meeting – Health Protection Agency, Porton Down, 9 July 2008 – 9 July 2008)
- Matoušek, R. (Combat Casualty Care Conference, London, 21 April 2008 – 22 April 2008)
- Novotný, L. (Introduction of the researchers Dpt. of Toxicology and Centre for Advanced Studies FMH to the in vivo and ex vivo experiments hold in the project of the European Union – ORCHIDS, Chilton, 12 October 2008 – 18 October 2008)
- Prymula, R. (Vaccines Meningococcal Disease Workshop, London, 1 October 2008 – 3 October 2008)

### United States

- Bajgar, J. (16th Biennial Medical Defense – Bioscience Review, Hunt Valley, MD, 31 May 2008 – 7 June 2008)
- Balonová, L. (Participation in a project – Differential proteome analysis of glyco- and phosphoproteins of bacterium *Francisella tularensis*, Bloomington, 3 November 2008 – 1 December 2008)
- Balonová, L. (56th ASMS Conference on Mass Spectrometry and Allied Topics, Denver, Colorado, 31 May 2008 – 6 June 2008)
- Balonová, L. (1 – Analysis of glycoprotein standards 2 – Discussing the next visit of Indiana University in terms of american-czech participation in research project, Bloomington, 6 June 2008 – 13 June 2008)
- Ferko, A. (International Perspectives on Hepatic, Pancreatic, and Biliary Surgery, New York, 30 April 2008 – 5 May 2008)
- Hernychová, L. (56th ASMS Conference on Mass Spectrometry and Allied Topics, Denver, Colorado, 31 May 2008 – 6 June 2008)
- Hernychová, L. (Study Residency, Indiana University, Bloomington, 3 November 2008 – 17 November 2008)
- Chlábek, R. (48th Annual ICAAC/IDSA 46th Annual Meeting, Washington, 23 October 2008 – 30 October 2008)
- Kassa, J. (16th Biennial Medical Defense – Bioscience Review, Hunt Valley, MD, 31 May 2008 – 7 June 2008)

## VISITS ABROAD

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- Kuča, K. (16th Biennial Medical Defense – Bioscience Review, Hunt Valley, 1 June 2008 – 6 June 2008)
- Kuča, K. (Chemical and Biological Defence Physical Science and Technology Conference, New Orleans, 17 November 2008 – 21 November 2008)
- Musílek, K. (16th Biennial Medical Defense – Bioscience Review, Hunt Valley, MD, 31 May 2008 – 7 June 2008)
- Pohanka, M. (Chemical and Biological Defence Physical Science and Technology Conference, New Orleans, 17 November 2008 – 21 November 2008)
- Pohanka, M. (3rd National Conference on Environmental Sampling and Detection for Bio-Threat Agents, Las Vegas, 1 December 2008 – 6 December 2008)
- Prymula, R. (Bilateral Meeting US–Czech Republic, Washington, 26 May 2008 – 30 May 2008)
- Prymula, R. (48th Annual ICAAC/IDSA 46th Annual Meeting, Washington, 24 October 2008 – 29 October 2008)
- Prymula, R. (2nd International Vaccines Congress, Boston, 6 December 2008 – 10 December 2008)
- Smetana, J. (48th Annual ICAAC/IDSA 46th Annual Meeting, Washington, 23 October 2008 – 30 October 2008)
- Šmíra, P. (Exercise – Operation Lone Star 2008, Laredo, TX, 3 August 2008 – 6 August 2008)
- Šubrt, Z. (International Perspectives on Hepatic, Pancreatic, and Biliary Surgery, New York, 30 April 2008 – 5 May 2008)
- Žák, M. (Operation Lone Star, San Antonio, TX, 28 July 2008 – 9 August 2008)
- Žďárová Karasová, J. (16th Biennial Medical Defense – Bioscience Review, Hunt Valley, MD, 31 May 2008 – 7 June 2008)



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## OBITUARIES

### **In Memory of LTC (ret.) Jindřich Bárta**

He was born in Výprachtice, district Ústí nad Orlicí on 28 June 1923, died in Hradec Králové on 19 August 2006 (the message received belatedly)

A skilled auto mechanic was recruited on 1st March 1951 and commissioned to officer staff as a First Lieutenant. In the end of the year 1951, he was transferred to the Military Medical Academy in Hradec Králové and appointed the chief of automobile and tractor service. In this and similar posts he had remained until the end of September 1980, when he retired.

### **In Memory of LTC (ret.) Jaroslav Novák**

He was born in Hrozenkov, district Vsetín on 13 May 1941 and died in Hradec Králové on 6 December 2008.

After he had served in formations and facilities of the Czechoslovak Air Force, in late 80s he began to work at the Purkyně Military Medical Academy. He was known as an officer assigned to the Organization and Mobilization Department of the Academy.

### **In Memory of COL (ret.) Assoc. Prof. Vojtěch Vondráček, M.D., Ph.D.**

He was born in Mrsklesy, district Olomouc on 14 August 1923 and died in Hradec Králové on 12 December 2008.

He attended an elementary and a grammar school in his native village near Olomouc and passed a school-leaving examination at Slavonic Grammar School in Olomouc in 1942. As a graduate within the total assignment, he was sent to an engineering enterprise in Breslau (nowadays Polish Wrocław), where he worked in a foundry. In January 1949, he managed to escape and luckily to get back to Olomouc.

After the end of World War II, he decided to study medicine which he started at Masaryk University in Brno on 1st September 1945. After the founding of the Faculty of Medicine at Palacký University, he moved to Olomouc. In 1949, when the Military Medical Academy was opened, he became its member and according to the former study rules he was also a regular student of the Faculty of Medicine at Masaryk University. He completed his medical studies in summer 1951 and on 14th September he was commissioned as a medical service officer. He took up his career at the

Military Hospital in Olomouc, where he worked as a houseman at an internal ward and during summertime he was managing a training of mobile hospitals reserves. Meanwhile, October 1951 until March 1952, he completed a course for chief doctors at the newly founded Military Medical Academy in Hradec Králové. One year later he attended a course for toxicologists at the same place.

Since the year 1955, he joined his career and personal life with the town of Hradec Králové. He took up a position of an assistant lecturer at the section of radiological protection at the Department of Radiological Protection within the Radiological Clinic, led by Prof. J. Baštecký, M.D., at J.E. Purkyně Military Medical Academy (VLA JEvP) in Hradec Králové. He was among the first generation of military radiobiologists, besides J. Šveda, A. Šmíd, F. Morávek, V. Slouka and J. Záchvěj. In 1962, together with A. Šmíd, he defended the first radiological final report in the research of "Admissible doses for members of reconnaissance rescue groups and decontamination teams". The workplace featured as a Radiological Section of the Department of Field Internal Medicine with Radiology of Purkyně Military Medical Research and Postgraduate Institute.

Since the year 1962, the Group of Surface and Internal Contamination was moved to a new radioisotope laboratory (RIL) within the area of the University Hospital in Hradec Králové. There, a unique radioisotope workplace was founded. Its part were (as the first in the Republic) an experimental radio cobalt source Chisotron and a vivarium for small laboratory animals. This facility served as a scientific-research radiobiological centre also for other workers of the Departments of Field Internal Medicine and Surgery and many other departments of the Faculty of Medicine and Pharmacy of Charles University in Hradec Králové.

In this laboratory, senior lecturer MAJ V. Vondráček, M.D. dedicated his attention specifically to internal contamination by radioiodine and radiostrontium. On 23rd June 1966, he defended his Ph.D. thesis "Internal Contamination by Radioiodine" in the branch of biophysics before the committee led by the first chief of the independent Department of Radiobiology (founded 1 September 1963), COL Assoc. Prof. Josef Mráz, M.D., Ph.D.

He participated in large teaching and training activities of the department preparing military students of J. E. Purkyně Military Medical Research and Postgraduate Institute (VLVDÚ JEP) and radiotoxicologists at postgraduate courses. On 1st September 1973, LTC V. Vondráček, M.D., Ph.D. was appointed the chief of the group of healthcare protection against internal emitters at the Department of Radiobiology. He was an author and co-author of chapters concerning external and internal contamination by radionuclides and its treatment in the first textbook of Military Radiobiology, 1975.

Since the year 1976 the Department has become the whole-republic directing and coordinating workplace within the area of protection of troops against effects of ionizing radiation, and V.Vondráček became a member of a professional work group of the Military Medical Service. Since the year 1972, together with M. Dostál, J.Severa, M. Bláha etc., he participated in working out concepts of medical support in radiation accidents and procedures of providing premedical and specialized medical care to the irradiated and contaminated persons, within the economic agreement between VLVDÚ JEP and the nuclear power plant in Jaslovské Bohunice (A-1). COL V. Vondráček, M.D., Ph.D. defended his inaugural thesis on the importance of internal contamination treatment in November 1979.

COL Assoc. Prof. Vojtěch Vondráček, M.D., Ph.D. retired on 31st December 1982.

His name inseparably belongs to the history of the Department of Radiobiology; it is also connected with work devotion and remembered by his contemporaries as a synonym for human kindness and goodness.

(The author of these obituaries: doc. PhDr. František Dohnal, CSc.)

## **COURSES AT THE FACULTY IN 2008**

### **General Medicine**

- Basic course in first aid, 14 January 2008 – 18 January 2008, 21 January 2008 – 25 January 2008, 25 February 2008 – 29 February 2008, 3 March 2008 – 5 March 2008, 4 March 2008 – 6 March 2008, 7 April 2008 – 9 April 2008, 8 April 2008 – 10 April 2008, 21 April 2008 – 25 April 2008, 19 May 2008 – 23 May 2008, 8 September 2008 – 12 September 2008, 6 October 2008 – 10 October 2008, 20 October 2008 – 24 October 2008, 3 November 2008 – 7 November 2008, 10 November 2008 – 14 November 2008, 8 December 2008 – 12 December 2008, 15 December 2008 – 19 December 2008
- Basic course – BARTS for CLS – extended first aid, 28 January 2008 – 15 February 2008, 17 March 2008 – 4 April 2008, 9 June 2008 – 27 June 2008, 6 October 2008 – 24 October 2008, 3 November 2008 – 21 November 2008, 1 December 2008 – 19 December 2008
- Refresher course – BATLS/BARTS, 18 February 2008 – 20 February 2008, 14 April 2008 – 16 April 2008, 2 June 2008 – 4 June 2008, 24 November 2008 – 26 November 2008, 1 December 2008 – 3 December 2008
- Basic course – extended first aid, 28 April 2008 – 6 May 2008
- Innovative course – battlefield advanced trauma life support – R-BATLS/BARTS, 29 September 2008 – 1 October 2008
- Refresher course – defibrillators and their operation, 21 February 2008 – 21 February 2008, 17 April 2008 – 17 April 2008, 5 June 2008 – 5 June 2008, 2 October 2008 – 2 October 2008
- Refresher course – repetitory of extended first aid in field conditions, 27 October 2008 – 31 October 2008

### **Language Courses**

- Combined language courses – French (STANAG 1), 24 September 2007 – 13 June 2008
- Medical English conversation course, 14 January 2008 – 25 January 2008

- Intensive language course – English (STANAG 2), 7 January 2008 – 16 May 2008, 14 January 2008 – 23 May 2008, 8 September 2008 – 16 January 2008
- Combined language courses – French (STANAG 2), 15 September 2008 – 12 June 2009
- Refresher language courses – English (STANAG 2), 25 March 2008 – 18 April 2008, 29 October 2008 – 5 December 2008
- Combined language courses – English (STANAG 2), 8 September 2008 – 4 June 2008, 8 September 2008 – 11 June 2009
- Combined language courses – English (STANAG 3), 15 September 2008 – 5 June 2009

### **Military Epidemiology**

- Refresher course in epidemiology of anthroozoonoses, 11 February 2008 – 14 February 2008
- Refresher course – basis in disinfection, sterilization and decontamination, 7 April 2008 – 9 April 2008, 13 October 2008 – 15 October 2008
- Refresher course – basis in tropical and travel medicine, 25 March 2008 – 27 March 2008, 29 October 2008 – 31 October 2008
- Refresher course – bioterrorism, biological war, 10 March 2008 – 12 March 2008

### **Military Hygiene**

- Refresher course – Obesity – diagnostic possibilities, psychological aspects, therapeutical approach, 15 September 2008 – 19 September 2008
- Refresher course – evaluation of workload, 29 September 2008 – 3 October 2008, 13 October 2008 – 16 October 2008
- Professional training for students of the Faculty of Health Studies, University of Pardubice, 10 March 2008 – 21 March 2008

## COURSES AT THE FACULTY IN 2008

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- Refresher course – Obesity – diagnostic possibilities, 25 February 2008 – 29 February 2008, 15 September 2008 – 19 September 2008
- Refresher course – hygienic support to missions, 25 March 2008 – 28 March 2008

### **Military Medical Service Organization**

- Basic warrant officer course, 31 March 2008 – 30 June 2008, 29 September 2008 – 19 December 2008
- Senior staff officer course, 7 January 2008 – 2 May 2008
- Refresher course of aeromedical evacuation, 14 April 2008 – 16 April 2008, 29 September 2008 – 1 October 2008
- Refresher course for staff members of field hospitals, 9 September 2008 – 11 September 2008

### **Multidisciplinary Studies**

- Refresher course – Dealing with extremely dangerous poisons, drugs and psychotropic substances, 21 January 2008 – 24 January 2008, 12 May 2008 – 15 May 2008, 16 June 2008 – 19 June 2008, 3 November 2008 – 6 November 2008
- Refresher course – psychosocial aspects of disaster and crises management, 2 June 2008 – 6 June 2008
- Refresher course – psychosocial aspects of disaster and crises management – I, 19 May 2008 – 23 May 2008
- Refresher course – psychosocial aspects of disaster and crises management – II, 2 June 2008 – 6 June 2008
- Basic course – STATISTICS and MS EXCEL XP, 2 June 2008 – 6 June 2008
- Refresher course in MS WINDOWS XP and MS WORD XP, 20 October 2008 – 22 October 2008
- Basic course – MS WINDOWS XP and MS WORD XP, 14 January 2008 – 18 January 2008

- Basic course of GP's information technology, 12 May 2008 – 16 May 2008, 24 November 2008 – 28 November 2008
- Basic course – MS POWERPOINT XP, INTERNET and e-mail, 7 April 2008 – 11 April 2008

### **Military Toxicology**

- Refresher course – development of new antidot agents from the group of cholinesterase reactivators and inhibition against intoxication with organophosphorous inhibitors as NBC agents and pesticides, 12 December 2008 – 12 December 2008

## **INTERNATIONAL COOPERATION**

### **Cooperation at the military medical facility level**

Brazil	Salvador, Faculdade de Farmácia, Bahia
Brazil	Universidade Federal de Santa Catarina, Departamento de Bioquímica and Centro de Ciências Biológicas, Florianópolis
Bulgaria	Military Medical Academy, Sofia
Bulgaria	Military Medical Academy, Department of Toxicology of NBC Research Centre of Military Medical Academy, Sofia
France	Health Service and Army Research Center (C.R.S.S.A.), La Tronche (Grenoble)
France	School of the Health Service of the Armies of Lyon-Bron (E.S.S.A. Lyon), Lyon
Germany	Bundeswehr Institute of Pharmacology and Toxicology, Munich
Germany	Bundeswehr Institute of Microbiology, Munich
Germany	Institute of Pharmacology and Toxicology of Federal Armed Forces Medical Academy, Munich
Germany	NATO School, Oberammergau
India	Pandit Ravishankar Shukla University, School of studies in Chemistry, Raipur
Poland	Military Institute of Hygiene and Epidemiology, Warsaw
Serbia	Military Medical Academy, Belgrade
Serbia	National Poison Control Centre of Military Medical Academy, Belgrade
Slovakia	Air Forces Hospital, Košice
Slovakia	Central Military Hospital, Ružomberok



Slovakia	Military Health Service, Bratislava
Slovakia	Military Institute of Hygiene and Epidemiology, Bratislava
Sweden	FOI NBC-Defence, Umea
Sweden	Swedish Defence Research Agency FOI, Umea
The Netherlands	Division of Toxicology, TNO Prins Maurits Laboratory, Rijswijk
The Netherlands	Chemical and Biological Division, TNO Prins Maurits Laboratory, Rijswijk
Turkey	Gulhane Military Medical Academy, Department of Medical CBRN Defence, Ankara
Ukraine	Military Medical Corps, Kiev
United Kingdom	Defence Medical Services Training Centre Keogh Barracks in Aldershot, Ash Vale
United Kingdom	DRDC, Medical Therapy Group, 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
Belgium	GlaxoSmithKline Biologicals, Rixensart
Croatia	Institute for Medical Research and Occupational Health, Zagreb
France	Aventis Pasteur MSD, Lyon
France	Saint Louis Hospital, Paris
Germany	Department of Solid States Nuclear Physics, University of Leipzig, Leipzig

## *INTERNATIONAL COOPERATION*

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Germany	Max-Planck Institute, Berlin
Hungary	Semmelweis University, Budapest
Hungary	Semmelweis University, College of Health Care Department of Dietetics, Budapest
Republic of Korea	Korea Research Institute of Chemical Technology, Daejeon
Republic of Korea	Medicinal Science Division, Korea Research Institute of Chemical Technology, Daejeon
Russian Federation	M. V. Lomonosov Moscow State University, Moskva
Slovakia	P. J. Šafárik University, Institute of Chemistry, Košice
Slovakia	Slovak Medical University, Bratislava
Slovakia	Virological Institute, Slovak Academy of Sciences, Bratislava
Sweden	University of Umea, Umea
Switzerland	Institute of Molecular Systems Biology, Zurich
Switzerland	Swiss Institute of Technology, Zurich
United Arab Emirates	Department of Pharmacology and Therapeutics, Faculty of Medicine and Health Science, United Arab Emirates University, Al Ain
United Kingdom	Health Protection Agency, CBRN & Chemical Toxicology, Centre for Emergency Preparedness and Response, Porton Down
United States	Emory University, Atlanta
United States	Merck & Co., Inc, Whitehouse Station
United States	University of Washington, Seattle
United States	Vital Probes, Mayfield, Pa
United States	Walter Reed Army Institute of Research, Division of Biochemistry, Silver Spring

United States                      Wyeth, New Jersey

### **Participation in international projects and networks**

Belgium                      European Defence Agency, Brussels

Sweden                      R. Chlíbek – European Programme for Intervention  
Epidemiology Training, European Centre for Disease  
Prevention and Control, Stockholm

Switzerland                      European Study Group on Nosocomial Infection,

United States                      Indiana University, Bloomington, Indiana

### **Cooperation in the field of disaster medicine**

United Kingdom                      Royal Centre for Defence Medicine, Birmingham

### **Other expert commissions**

- J. Bajgar – 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. Chlíbek – member of NATO HFMP
- R. Chlíbek – supervisor of CEVAG
- 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
- 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

## *INTERNATIONAL COOPERATION*

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- Macela – member of NATO HFMP TG 099
- Macela – member of NATO HFMP ET 099
- Macela – Recoop HST Consortium – supervisor
- Macela – member of EDA CapTech GEM3
- Macela – member of Editorial board of FEMS Immunology and Medical Microbiology
- J. Österreicher – member of NATO CBRN Medical Working Group
- J. Österreicher – member of NATO NRF–8 NBC JAT radiobiologist
- J. Österreicher – member of NATO RTG–099
- R. Prymula – member of European HPV board
- R. Prymula – member of Global advisory board on pneumococcal vaccines
- R. Prymula – chairman of CEVAG (Central European Vaccine Advisory Group)
- R. Prymula – member of NATO COMEDS WG–MT
- R. Prymula – chairman of Joint Clinical Trial Network RECOOP HST
- R. Prymula – member of management board of ECDC
- R. Prymula – member of European Rotavirus Speakers' Bureau
- R. Prymula – member of Steering Committee ECDC
- 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
- M. Tichý – member of Editorial board of Advances in Clinical Chemistry

## SCIENTIFIC AND RESEARCH ACTIVITIES

### Completed full professorships

#### **Stulík Jiří**

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

area of specialization: Medical immunology  
professor's lecture: Immunology – new trends in research and  
education

#### **Österreicher Jan**

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

area of specialization: Military Radiobiology  
professor's lecture: Conception of research work and teaching in the  
branch of Military Radiobiology

### Completed associate professorships

#### **Vosečková Alena**

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

area of specialization: Hygiene, Preventive Medicine and Epidemiology  
habilitation thesis: Health psychology in therapeutic and preventive  
care  
habilitation lecture: Psychological intervention in soldiers before  
foreign missions dispatch

#### **Kohl Igor**

Biologicals, GlaxoSmithKline, Prague

area of specialization: Hygiene, Preventive Medicine and Epidemiology  
habilitation thesis: Post–exposure vaccine application against viral  
hepatitis A: An option how to manage epidemic  
incidence of viral hepatitis A

## *SCIENTIFIC AND RESEARCH ACTIVITIES*

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habilitation lecture: Transmissible infections in Europe, tick meningoencephalitis and Lyme disease

### **Kopecký Otakar**

Hospital Náchod, Department of Clinical Immunology and Microbiology

area of specialization: Military Internal Medicine

habilitation thesis: Clinical and laboratory findings in patients with common variable immunodeficiency

habilitation lecture: Inflammatory reaction in malign tumors and its role in illness progression

### **Hofer Michal**

Institute of Biophysics, Academy of Sciences of the Czech Republic, v. v. i. Brno

area of specialization: Military Radiobiology

habilitation thesis: Pharmacological stimulation of haemopoiesis damage by ionizing radiation

habilitation lecture: Adenosine receptors activation and cyclooxygenase inhibition: present and future

## **Dissertation defences**

### **Pohanka Miroslav**

Department of Biochemistry, Masaryk University, Brno

study programmes: Biochemistry

dissertation: Immunosensors for chemical and biological warfare agents detection

### **Smetana Jan**

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

study programmes: Epidemiology

dissertation: The influence of selected risk factors on the vaccination against viral hepatitis A and B

**Červený Lukáš**

Department of Pharmacology and Toxicology, Faculty of Pharmacy in Hradec Králové, Charles University in Prague

study programmes: Pharmacy  
dissertation: Interaction of selected antiepileptics with efflux ABC transporters and nuclear receptors

**Liška Vladimír**

Vaccine & Biologics Clinical Research, Merck Research Laboratories, Merck & Co., Inc., North Wales, PA, USA

study programmes: Microbiology  
dissertation: Evolution and pathogenicity of a live attenuated simian immunodeficiency virus-based AIDS vaccine

**Mohapl Milan**

Central Military Hospital Prague, Department of Neurosurgery

study programmes: Military Surgery  
dissertation: Evaluation of cerebrovascular reserve capacity and indications for brain revascularisation

**Šubrt Zdeněk**

Department of Field Surgery, Faculty of Military Health Sciences, University of Defence, Hradec Králové

study programmes: Military Surgery  
dissertation: Radiofrequency ablation efficacy increase by endovascular approach

**Páral Jiří**

Department of Field Surgery, Faculty of Military Health Sciences, University of Defence, Hradec Králové

study programmes: Military Surgery  
dissertation: Comparison of suture versus non-suture of subcutaneous fat tissue in abdominal surgery

**Nyč Otakar**

Institute of Medical Microbiology Prague, Second Faculty of Medicine, Charles University and Faculty Hospital Motol

study programmes: Medical Microbiology  
dissertation: Epidemiology of multidrug resistant bacteria producing extended-spectrum beta-lactamases

**Kuneš Martin**

Institute of Experimental Biopharmacy, Czech Academy of Sciences, and PRO.MED.CS Prgue a.s., Hradec Králové

study programmes: Toxicology  
dissertation: To the mechanisms of intestinal absorption and biotransformation of xenobiotics

**Cinek Petr**

Central Military Hospital Prague, Department of Oncology

study programmes:  
dissertation: The predictive and prognostic role of HER-2/neu receptor expression in invasive breast cancer women

**Bohoněk Miloš**

Central Military Hospital Prague, Department of Haematology, Biochimie and Blood Transfusion

study programmes: Military Internal Medicine  
dissertation: Cryopreservation of erythrocytes: the development and implementation of the new procedures



**Havránková Renata**

Faculty of Health and Social Studies, University of South Bohemia, České Budějovice

study programmes: Military Radiobiology

dissertation: Establishing criteria of possible use of electronic dosimetry in consideration of radiation load on employees working with ionizing radiation sources

**Šiffnerová Hana**

Hospital České Budějovice, Department of Oncology

study programmes: Military Radiobiology

dissertation: Radiation – induced secondary malignancies in testicular tumours

**THE REVIEW OF RESEARCH PROJECTS CARRIED  
OUT AT THE FACULTY OF MILITARY HEALTH  
SCIENCES IN 2008**

**EU COST PROGRAMME**

**Co-investigators**

**Jiří Stulík**

- (COST Action B28) Array technologies for BSL3 and BSL4 pathogens

**THE EXECUTIVE AGENCY FOR HEALTH AND CONSUMERS**

**Co-investigators**

**Jiří Cabal**

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

**Kamil Kuča**

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

**THE CZECH REPUBLIC GRANT AGENCY**

**Principal investigators**

**Zuzana Kročová**

- (GA310/07/0226) Study of B–cell interaction with intracellular pathogen *Francisella tularensis*

**Kamil Kuča**

- (GP305/07/P162) Relationship between structure of acetylcholinesterase reactivators and their reactivation potency

**Ivona Pávková**

- (GP310/06/P266) Proteomic analysis of *Francisella tularensis* LVS cultivated intracellular in vitro and in vivo, identification of potential virulence factors

**Co-investigators**

**Jiřina Vávrová**

- (304/08/0329) Study of factors in a tissue microenvironment that influence the process of skeletal muscle repairment

**Zuzana Šinkorová**

- (304/08/0329) Study of factors in a tissue microenvironment that influence the process of skeletal muscle repairment

**Aleř Tichý**

- (304/08/0329) Study of factors in a tissue microenvironment that influence the process of skeletal muscle repairment

**The GlaxoSmithKline Biologicals Co.**

**Principal investigators**

**Roman Chlíbaek**

- (108494, Zoster-003) A phase II, single-blind, randomized, controlled, multicentre vaccination study to evaluate the safety and immune response of the GSK Biologicals Zoster vaccine, gE/AS01B, and to compare 3 doses of gE with AS01B adjuvant in healthy elderly subjects, aged

**Roman Prymula**

- (10PN-PD-DIT-014) Prophylactic antipyretic treatment in children receiving booster dose of pneumococcal vaccine GSK1024850A and Infanrix hexa and assessment of impact of pneumococcal vaccination on nasopharyngeal carriage

**Roman Chlíbaek**

- (HAB-168 BST:160) Interference in immunogenicity of combined vaccine against hepatitis A and B by several risk factors

**Co-investigators**

**Jan Smetana**

- (108494, Zoster-003) A phase II, single-blind, randomized, controlled, multicentre vaccination study to evaluate the safety and immune response of the GSK Biologicals Zoster vaccine, gE/AS01B, and to compare 3 doses of gE with AS01B adjuvant in healthy elderly subjects, aged

**Roman Chlíbaek**

- (10PN-PD-DIT-014) Prophylactic antipyretic treatment in children receiving booster dose of pneumococcal vaccine GSK1024850A and Infanrix hexa and assessment of impact of pneumococcal vaccination on nasopharyngeal carriage

**Jan Smetana**

- (HAB-168 BST:160) Interference in immunogenicity of combined vaccine against hepatitis A and B by several risk factors

**Miroslav Šplíno**

- (HAB-168 BST:160) Interference in immunogenicity of combined vaccine against hepatitis A and B by several risk factors

**MERCK & CO., INC.**

**Co-investigators**

**Vladimír Pavlík**

- (MK-364-015) A 3-year study to assess the efficacy, safety and tolerability of MK-0364 in obese patient (III phase)

**THE MINISTRY OF EDUCATION, YOUTH AND SPORTS**

**Principal investigators**

**Radovan Matoušek**

- (041.03/3.2.15.2/0322) Basic life support with automated external defibrillators

**Zuzana Šinkorová**

- (2B08028) New biological methods of the received dose determination

**Lenka Hernychová**

- (ME08105) Differential proteome analysis of bacterial *Francisella tularensis* glyco- and phospho- proteins

**Kamil Kuča**

- (ME865) Countermeasure against chemical terrorism - development of new antidotes against nerve agents

**Co-investigators**

**Lenka Zárybnická**

- (2B08028) New biological methods of the received dose determination

**Aleš Tichý**

- (2B08028) New biological methods of the received dose determination

**Zdeňka Vilasová**

- (2B08028) New biological methods of the received dose determination

**Daniel Jun**

- (ME865) Countermeasure against chemical terrorism – development of new antidotes against nerve agents

**Kamil Musílek**

- (ME865) Countermeasure against chemical terrorism – development of new antidotes against nerve agents

**THE INTERNAL GRANT AGENCY OF THE CZECH REPUBLIC  
HEALTH SERVICE**

**Principal investigators**

**Jana Fajfrová**

- (9933) Be in a good form and condition after parturition!

**Co-investigators**

**Pavol Hlúbik**

- (9933) Be in a good form and condition after parturition!

**Alena Vosečková**

- (9933) Be in a good form and condition after parturition!

**Vladimír Pavlík**

- (9933) Be in a good form and condition after parturition!

**Rudolf Štětina**

- (NR8563) Genetic profile of biotransformation and DNA repair genes in cancer patients from the Czech Republic

**NATO COOPERATIVE GRANT**

**Principal investigators**

**Kamil Kuča**

- (CBP.EAP.CLG 983024) Butyrylcholinesterase and aldoximes – bioscavengers for detoxification of organophosphates

**Co-investigators**

**Daniel Jun**

- (CBP.EAP.CLG 983024) Butyrylcholinesterase and aldoximes – bioscavengers for detoxification of organophosphates

**Jana Žďárová Karasová**

- (CBP.EAP.CLG 983024) Butyrylcholinesterase and aldoximes – bioscavengers for detoxification of organophosphates

**CHARLES UNIVERSITY**

**Principal investigators**

**Radovan Matoušek**

- (GK/VČE/26/07) Support of basic and advanced life support education

## THE SCIENTIFIC GRANT AGENCY (VEGA)

### Co-investigators

#### Lenka Hernychová

- (VEGA5030/25) Mapping and characterization of proteome of *Coxiella burnetii*, the etiological agent of Q fever

## DEFENCE RESEARCH PROJECTS – INITIATED IN 2008

#### Jiří Cabal

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

#### Martin Hubálek

- (OVUOFVZ200802) 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

#### 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

#### Kamil Musílek

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

#### 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

**Miroslav Pohanka**

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

**Jiří Stulík**

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

**Zuzana Šinkorová**

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

**Rudolf Štětina**

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

**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

**Jan Österreicher**

- (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

**Zuzana Čermáková**

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

**Miroslav Fajfr**

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

**DEFENCE RESEARCH PROJECTS – CONTINUING IN 2008**

**Aleš Macela**

- (OPUOFVZ200601) Crisis management after the use of biological agents



**Jiří Stulík**

- (OPUOFVZ200602) Virulence factors of intracellular pathogen *Francisella tularensis* classified as category A biological warfare agents

**Jiří Bajgar**

- (OPUOFVZ200603) A new method of prophylaxis, decontamination, diagnostics and therapy after intoxication with nerve agents and yperits

**Zuzana Řeháková**

- (OPUOFVZ200604) Biological indicators of ionizing radiation

**RESEARCH AIMS**

**Jiří Kassa**

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

**Pavol Hlúbik, Miroslav Šplíño**

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

**Alexander Ferko, Ladislav Jebavý**

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

**Karel Antoš**

- (MO0FVZ0000604) Information support of crises management in health care

## ARTICLES IN JOURNALS WITH IMPACT FACTOR

1. BAJGAR, J., FUSEK, J., JUN, D., KUČA, K., BARTOŠOVÁ, L. Possibility of pharmacological prophylaxis against highly toxic organophosphates. *Chemické listy*, 2008, vol. 101, no. Suppl., p. 81–83. (IF 0,683)
2. BAJGAR, J., FUSEK, J., KASSA, J., JUN, D., KUČA, K., HÁJEK, P. An attempt to assess functionally minimal acetylcholinesterase activity necessary for survival of rats intoxicated with nerve agents. *Chemico-Biological Interactions*, 2008, vol. 175, no. 1–3, p. 281–285. (IF 3,09).
3. BEREND, S., LUCIC VRDOLJAK, A., RADIC, B., KUČA, K. New bispyridinium oximes: in vitro evaluation of their biochemical parameters. *Chemico-Biological Interactions*, 2008, vol. 175, no. 1–3, p. 413–416. (IF 3,09)
4. BROZKOVA, K., BUDINSKÁ, E., BOUCHAL, P., HERNYCHOVÁ, L., KNOFLICKOVA, D., VALIK, D., VYZULA, R., VOJTESEK, B., NENUTIL, R. Surface-enhanced laser desorption/ionization time-of-flight proteomic profiling of breast carcinomas identifies clinicopathologically relevant groups of patients similar to previously defined clusters from cDNA expression. *Breast Cancer Research*, 2008, vol. 10, no. 3, p. 48–59. (IF 4,371)
5. CALIC, M., BOSAK, A., KUČA, K., KOVARIK, Z. Interactions of butane, but-2-ene or xylene-like linked bispyridinium para-aldoximes with native and tabun-inhibited human cholinesterases. *Chemico-Biological Interactions*, 2008, vol. 175, no. 1–3, p. 305–308. (IF 3,09)
6. COLLINS, A., OSCOZ1, AA., BRUNBORG, G., GAIVA, I., GIOVANNELLI, L., KRUSZEWSKI, M., SMITH, CC., ŠTĚTINA, R. The comet assay: topical issues. *Mutagenesis*, 2008, vol. 23, p. 143–151. (IF 2,382)
7. CSERMELY, T., KALASZ, H., PETROIANU, G., KUČA, K., DARVAS, F., LUDANYI, K., MUDHAFAR, A., TEKES, K. Analysis of pyridinium aldoximes – a chromatographic approach. *Current Medicinal Chemistry*, 2008, vol. 15, no. 23, p. 2401–2418. (IF 4,944)
8. ČERVENKA, F., KOLEČKÁŘ, V., ŘEHÁKOVÁ, Z., JAHODÁŘ, L., KUNEŠ, J., OPLETAL, L., HYŠPLER, R., JUN, D., KUČA, K. Evaluation of natural substances from *Evolvulus alsinoides* L. with the purpose to determined their antioxidant potency. *Journal of Enzyme Inhibition and Medicinal Chemistry*, 2008, vol. 23, no. 4, p. 574–578. (IF 1,343)
9. DA SILVA, A., FARINA, M., FRANCO, J., KASSA, J., KUČA, K. Temporal effects of newly developed oximes (K027, K048) on

- malathion-induced acetylcholinesterase inhibition and lipid peroxidation in mouse prefrontal cortex. *Neurotoxicology*, 2008, vol. 29, no. 1, p. 184–189. (IF 3,009)
10. DOHNAL, V., JEŽKOVÁ, A., JUN, D., KUČA, K. Metabolic pathways of T-2 toxin. *Current Drug Metabolism*, 2008, vol. 9, no. 1, p. 77–82. (IF 4,49)
  11. DRIÁK, D., ÖSTERREICHER, J., ŠINKOROVÁ, Z., VILASOVÁ, Z., VÁVROVÁ, J. Expression of Phospho-Elk-1 in rat gut after the whole-body gamma irradiation. *Physiological Research*, 2008, vol. 57, no. 5, p. 753–759. (IF 1,505)
  12. DRIÁK, D., ÖSTERREICHER, J., VÁVROVÁ, J., ŠINKOROVÁ, Z., VILASOVÁ, Z. Morphological changes of rat jejunum after whole body gamma irradiation and their impact in biodosimetry. *Physiological Research*, 2008, vol. 57, no. 3, p. 475–479. (IF 1,505)
  13. FASUNGOVA, L., LITERAK, I., SYCHRA, O., NOVOTNÝ, L., GRÝMOVA, V., KUBICEK, O., SMID, B., KULICH, P. Pinching off syndrome in two white-tailed sea eagles (*Haliaeetus albicilla*) in the Czech Republic. *Journal of Raptor Research*, 2008, vol. 42, no. 1, p. 65–66. (IF 0,419)
  14. HAMULAKOVA, S., KRISTIAN, P., JUN, D., KUČA, K., IMRICH, J., DANIHEL, I., BOHM, S., KLIKA, K. Synthesis, structure, and cholinergic effect of novel neuroprotective compounds bearing the tacrine pharmacophore. *Heterocycles*, 2008, vol. 76, no. 2, p. 1219–1235. (IF 1,066)
  15. HERNYCHOVÁ, L., TOMAN, R., CIAMPOR, F., HUBÁLEK, M., VACKOVÁ, J., MACELA, A., SKULTETY, L. Detection and Identification of *Coxiella burnetii* based on the mass spectrometric analyses of the extracted proteins. *Analytical Chemistry*, 2008, vol. 80, no. 18, p. 7097–7104. (IF 5,287)
  16. HOLCAKOVA, J., HERNYCHOVÁ, L., BOUCHAL, P., BROZKOVA, K., ZALOUDIL, J., VALIK, D., NENUTIL, R., VOJTESEK, B. Identification of alphaB-crystallin, a biomarker of renal cell carcinoma by SELDI-TOF MS. *International Journal of Biological Markers*, 2008, vol. 23, no. 1, p. 48–53. (IF 1,208)
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  18. HORÁČEK, J., TICHÝ, M., PUDIL, R., JEBAVÝ, L. Glycogen phosphorylase BB could be a new circulating biomarker for detection of

- anthracycline cardiotoxicity. *Annals of Oncology*, 2008, vol. 19, no. 9, p. 1656–1657. (IF 4,875)
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  20. HORÁČEK, J., TICHÝ, M., PUDIL, R., JEBAVÝ, L., ŽÁK, P., ULRÝCHOVÁ, M., SLOVÁČEK, L., MALÝ, J. Multimarker approach to assessment of cardiac toxicity during preparative regimen and hematopoietic cell transplantation. *Neoplasma*, 2008, vol. 55, no. 6, p. 532–537. (IF 1,208)
  21. CHROBOK, V., PELLANT, A., ŠRAM, F., FRIČ, M., PRAISLER, J., PRYMULA, R., ŠVEC, J. Medialization thyroplasty with a customized silicone implant: clinical experience. *Folia Phoniatica et Logopaedica*, 2008, vol. 60, no. 2, p. 91–96. (IF 1,439)
  22. JANKOVIČOVÁ, B., ROSNEROVÁ, S., SLOVÁKOVÁ, M., ZVERINOVA, Z., HUBÁLEK, M., HERNYCHOVÁ, L., REHULKA, P., VIOVY, BILKOVA, Z. Epitope mapping of allergen ovalbumin using biofunctionalized magnetic beads packed in microfluidic channels: The first step towards epitope-based vaccines. *Journal of Chromatography A*, 2008, vol. 1206, no. 1, p. 64–71. (IF 3,641)
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  24. JUN, D., KUČA, K., STODŮLKA, P., KOLEČKÁŘ, V., DOLEŽAL, B., ŠIMON, P., VEVERKA, M. TLC analysis of intermediates arising during the preparation of oxime HI-6 dimethanesulfonate. *Journal of Chromatographic Science*, 2008, vol. 46, no. 4, p. 316–319. (IF 0,869)
  25. JUN, D., MUSILOVÁ, L., KUČA, K., KASSA, J., BAJGAR, J. Potency of several oximes to reactivate human acetylcholinesterase and butyrylcholinesterase inhibited by paraoxon in vitro. *Chemico-Biological Interactions*, 2008, vol. 175, no. 1–3, p. 421–424. (IF 3,09)
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  27. KAMENICEK, J., HERICH, P., KUČA, K., JUN, D., OLISOVSKY, M. Planar Ni(II) 1,2-dithiolenes involving bidentate N-donor ligands.

- Journal of Coordination Chemistry, 2008, vol. 61, no. 22, p. 3525–3533. (IF 0,867)
28. KASSA, J., HUMLÍČEK, V. A comparison of the potency of newly developed oximes (K074, K075) and currently available oximes (obidoxime, trimedoxime, HI–6) to counteract acute toxic effects of tabun and cyclosarin in mice. *Drug and Chemical Toxicology*, 2008, vol. 31, no. 1, p. 127–135. (IF 1,056)
  29. KASSA, J., JUN, D., KARASOVÁ, J., BAJGAR, J., KUČA, K. A comparison of reactivating efficacy of newly developed oximes (K074, K075) and currently available oximes (obidoxime, HI–6) in soman, cyclosarin and tabun–poisoned rats. *Chemico–Biological Interactions*, 2008, vol. 175, no. 1–3, p. 425–427. (IF 3,09)
  30. KASSA, J., KARASOVÁ, J., BAJGAR, J., KUČA, K., MUSÍLEK, K. A comparison of the therapeutic and reactivating efficacy of newly developed bispyridinium compounds (K206, K269) with currently available oximes against tabun in rats and mice. *Journal of Enzyme Inhibition and Medicinal Chemistry*, 2008, vol. 23, no. 6, p. 776–780. (IF 1,343)
  31. KASSA, J., KARASOVÁ, J., MUSÍLEK, K., KUČA, K. An evaluation of therapeutic and reactivating effects of newly developed oximes (K156, K203) and commonly used oximes (obidoxime, trimedoxime, HI–6) in tabun–poisoned rats and mice. *Toxicology*, 2008, vol. 243, no. 3, p. 311–316. (IF 2,919)
  32. KASSA, J., KARASOVÁ, J., MUSÍLEK, K., KUČA, K., JUNG, Y. A comparison of the therapeutic and reactivating potency of newly developed oximes (K117, K127) and currently available oximes (obidoxime, trimedoxime, HI–6) in tabun–poisoned rats and mice. *Drug and Chemical Toxicology*, 2008, vol. 31, no. 3, p. 371–381. (IF 1,056)
  33. KASSA, J., KUČA, K., MUSÍLEK, K. The development of new oximes and the evaluation of their reactivating, therapeutic and neuroprotective efficacy against tabun. *Mini Reviews in Medicinal Chemistry*, 2008, vol. 8, no. 11, p. 1132–1143. (IF 3,06)
  34. KOLEČKÁŘ, V., BROJEROVA, E., REHAKOVA, Z., KUBIKOVA, K., CERVENKA, F., KUČA, K., JUN, D., HRONEK, M., OPLETALOVA, V., OPLETAL, L. In vitro antiplatelet activity of flavonoids from *Leuzea carthamoides*. *Drug and Chemical Toxicology*, 2008, vol. 31, no. 1, p. 27–35. (IF 1,056)
  35. KOLEČKÁŘ, V., KUBIKOVA, K., REHAKOVA, Z., KUČA, K., JUN, D., JAHODAR, L., OPLETAL, L. Condensed and hydrolysable tannins as antioxidants influencing the health. *Mini Reviews in Medicinal Chemistry*, 2008, vol. 8, no. 5, p. 436–447. (IF 3,06)

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43. LOPAREV, V., RUBTCOVA, E., BOSTIK, V., TZANEVA, V., SAUERBREI, A., ROBO, A., SATTLER–DORNBACHER, E., HANOVCOVÁ, I., ŠTĚPÁNOVÁ, V., ŠPLIÑO, M. Distribution of varicella–zoster virus (VZV) wild–type genotypes in northern and southern Europe: Evidence for high conservation of circulating genotypes. *Virology*, 2008, vol. 383, no. 2, p. 216–225. (IF 3,765)

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