

PROGRESS REPORT
OF THE FACULTY OF PHARMACY
FOR THE YEAR 2007

Progress report of the Faculty of Pharmacy for the year 2007

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- *Books and books chapters*
- *Scientifics and professional articles*
- *Invited lectures*
- *Lectures and presentations at conferences*
- *General scientific publications*
- *Important treatises and reports*
- *Patents*
- *Student's books*
- *Other publications*

FOREWORD

This report highlights the most important events that took place at the Faculty of Pharmacy in 2007, a very diverse, productive and successful year. Our work focused primarily on the finishing stages of the Bologna reform of existing programmes and the preparation of new ones. The Council for Higher Education has confirmed the renewed Bologna uniform master's programme in Pharmacy, the renewed 1st cycle undergraduate university study of Laboratory Medicine and the new 2nd cycle master's programme in Industrial Pharmacy, which we prepared in cooperation with the Slovene pharmaceutical industry. All three Bologna programmes will be introduced in the following academic year 2008/2009. The new programmes—1st cycle university programme in Cosmetology and 2nd cycle master's in Laboratory Medicine—have been prepared and are now pending accreditation. The 1st cycle university inter-faculty study of Toxicology is also being prepared in collaboration with the Faculty of Medicine, the Faculty of Veterinary Medicine and the Biotechnical Faculty. By adding the doctoral study of Biomedicine to these programmes, the FFA will be implementing seven different programmes in the near future.

This is a remarkable challenge and development opportunity for everyone working at the FFA. Because we need to be able to implement these programmes in the best way possible, we need to have enough staff. The first step was made in 2007 when we employed three university teachers and three assistants. Similar employment dynamics is also planned for the future. More space is urgently needed too. The results of the premises inspection show that the faculty lacks 45% of required space, mostly small-size lecture rooms and laboratories. We will use our in-house resources to resolve this problem, however, we also expect some help from the University of Ljubljana.

At the FFA, we are aware of the importance of integration in international pedagogical, professional and research spheres. To this end, we have established the international cooperation office in 2007, which will secure better mobility of students and teachers. We expect that this will promote cooperation with renowned universities in the EU and increase the number of applications to international calls. Only a top researcher can be a good university teacher, so the FFA works to provide the best possible conditions for high-quality research. The most important indicators

of good research work are the number of international publications and their impact in the form of citations. In 2007, we have managed to increase the number of articles published in journals with an impact factor to 72. What is more, the number of citations increased by 10% compared to previous years. The awards FFA researchers receive every year are also proof of the quality of our research. We are proud of this year's winner of the Zois Award, Prof. Borut Štrukelj, Ph.D., who received an award for special achievements in the field of pharmaceutical biotechnology.

In the professional and scientific fields, the FFA is very successfully cooperating with partners from the pharmaceutical industry, pharmacies and regulatory authorities of the Republic of Slovenia. A large number of industrial projects have been completed for national and foreign pharmaceutical industries. Our teaching staff and assistants are important members of the Agency for Medicinal Products and Medical Devices of the Republic of Slovenia. Several well-attended and also well-graded useful professional postgraduate trainings and courses have also been held.

To conclude, the FFA has reached high standards in the pedagogical, research and professional fields. In the future we will continue to work towards increasing the quality throughout, as it is our goal to become one of the most recognised faculties of pharmacy in Central Europe.

*Assoc. Prof. Stanislav Gobec, Ph.D.
Dean of the Faculty of Pharmacy*

2. PRESENTATION OF THE FACULTY OF PHARMACY

“FROM THE BEGINNING OF PHARMACY IN SLOVENIA TO THE MODERN PHARMACEUTICAL PROFESSION AND SCIENCE”

Drugs and curing diseases have accompanied man throughout his existence. The area of Slovenia saw the education of pharmacists and introduction of the doctrine of quality work in the pharmaceutical profession in as early as the 17th and 18th centuries, with the 1710 introduction of the Pharmaceutical code for the Duchy of Carniola. In the 19th century, most pharmacists from the area of present-day Slovenia studied at the universities of Vienna, Graz and Padova, and later also at the faculty of Zagreb. The history of undergraduate pharmaceutical education in Ljubljana began in 1946. The study programme in pharmacy was carried out in the first purpose-built building, which was designed by architect Plečnik in 1921. After the reorganisation of study programmes, the comprehensive study programme in pharmacy was introduced in 1960 at the Faculty of Natural Sciences. In 1995, after the reorganisation of the Faculty of Natural Sciences and Technology, the independent Faculty of Pharmacy was founded. In 1999, the Faculty of Pharmacy saw the completion of a new wing, enabling modern pedagogical, scientific and professional work.

The development of the undergraduate study of pharmacy and higher professional study of laboratory biomedicine is based on the connection between scientific research work and practical applications in all fields of pharmaceutical profession and science. Both study programmes have been modernised several times since their inception because staying abreast of modern developments and knowledge in pharmacy is essential for successful pedagogical, scientific and professional work.

The mission of the Faculty of Pharmacy:

1. Development, planning and implementation of undergraduate, higher and postgraduate education, training of future professionals for conducting the most demanding scientific, development and professional work in the fields of pharmacy and clinical biochemistry.
2. Planning and implementation of scientific research work in the broader context of pharmacy, clinical biochemistry and natural sciences.
3. Care for professional activities in the fields of health and healthcare within the context of pharmaceutical activity, carrying out professional and development tasks for the needs of the pharmaceutical industry and government institutions, and promotion of the pharmaceutical profession in the Republic of Slovenia and abroad.

The primary objective of the Faculty of Pharmacy is to develop scientifically and professionally-qualified, high-quality graduates familiar with ethical principles, who independently carry out demanding tasks in pharmacies, pharmaceutical industry, hospital pharmacies, clinical biochemical laboratories, in laboratories for control and analyses, research institutions, educational organisations, state bodies, representative offices of foreign pharmaceutical companies, and wherever the work and presence of a pharmacist is required to increase health safety. We strive to ensure that the graduates of pharmacy and laboratory biomedicine, who have successfully completed their studies at the Faculty of Pharmacy, have equal qualifications to those of graduates of other modern, prominent European faculties of pharmacy.

ORGANISATION OF THE FACULTY OF PHARMACY

The Faculty of Pharmacy is made up of six chairs. All chairs participate in the pedagogical process and are involved in the formation and discovery of new active substances or drug forms within their research work.

Active substance or drugs can be developed in many ways: By isolation of the substance from natural sources, mostly medicinal herbs or parts of animal tissues; by means of the latest biotechnological methods where the knowledge of molecular genetics and recombinant DNA technology are used; or by synthesis of new substances.

The Chair of Pharmaceutical Chemistry

At the Chair of Pharmaceutical Chemistry, molecules of new active substances are prepared on the basis of validated targets. New molecules are designed by using modern computer-assisted methods based on the structure of their binding site. This is followed by a multi-stage chemical synthesis, which yields the desired compounds. We are currently preparing new enzyme inhibitors that are involved in the process of blood coagulation, compounds that inhibit the biosynthesis of a bacterial cell wall and compound with antitumour action. The prepared molecules are biologically evaluated and their properties are optimised on the basis of the relation between their structure and action.

The Chair of Pharmaceutical Biology

The Chair of Pharmaceutical Biology is engaged in the research of drugs of natural origin. It develops methods of analysis and quality verification of medicinal herbs and determines how to grow and where to gather top-quality medicinal herbs. By studying biological efficacy of active substances in herbs and fungi that are not yet used for therapeutic purposes, it also searches for promising new drugs.

With the development of the techniques of genetic engineering came better possibilities for acquiring new active substances of recombinant origin. For the investigation of medicinal herbs as well as for recombinant drugs, i.e. proteins that are completely identical to human ones even though they were produced in fermentors, we use modern techniques of pharmaceutical biotechnology. Molecular biological techniques, such as biological combinatorial libraries are used for searching new chemical structures with a desired therapeutic effect. Using the methods of molecular and cellular biology we also research the molecular mechanisms of the development and progression of cancer, antitumour immune response, atherosclerosis, obesity, neurodegenerative and other diseases, to identify the most important targets for therapeutic and diagnostic interventions.

For successful identification of diseases it is essential to know the cause. This is the subject of research at the Chair of Clinical Biochemistry. Clinical Biochemistry determines the causes and consequences of the changed values of substances in the body essential for the organism to function properly. The increased or decreased values predict a change of the physiological condition of the body, which often leads to disease. We study changes in gene structure and expression, which cause the emergence of different proteins or changed quantities of

individual proteins and lead towards the development of disease. Once the cause has been determined, we can start a targeted search for new and more efficient drugs or choose the most suitable drug among existing ones. Knowledge of genes that are involved in pathophysiological mechanisms forms the basis for the development of potential genetic drugs.

Changes in genes are also responsible for different reactions of patients to a certain drug, so the investigation of these changes has become an important part of the treatment tailored to the individual.

The Chair also works in pharmacogenomics. This is a field where genome-related knowledge is used in different segments of pharmaceutical science. In tumorigenesis and apoptosis, we use genetic technologies to search for answers to questions as to why a certain cell becomes malign, and which of the molecules in the process of transformation into a tumour cell could be the target for a new drug. A great deal of our work focuses on the research of molecular mechanisms of cell death.

Our research activity is also carried out backwards, i.e., from a known drug to the human being. We can predict how a patient will accept a drug by means of genetic code analysis.

Laboratory diagnostics of immune-mediated diseases and hypersensitivity is the link between clinical biochemistry and immunology, which is taught at the Chair, while research in this field focuses on molecular bases of autoimmunity.

The Chair of Biopharmacy and Pharmacokinetics

When a biologically active molecule (substance) is developed, it does not mean that a drug was found. The substance must be delivered with a proper dosage and speed to the site of action of the body (tissue, organ, organ system), where the connection to the enzyme or receptor activates the effect (for example a fall in blood pressure, a fall in cholesterol, prevention of an asthmatic attack). For this purpose the substance is built into the delivery system with which we control the speed of processes that are responsible for the start, the intensity and the duration of the effect. If there is a delivery system, for example an oral sustained-release tablet, we must ensure that the process of the release in the alimentary canal enables the highest level of absorption into the main blood system. The substance should undergo minimal decomposition along the way so that most of it reaches the site of action from where it would be released as slowly as possible. For this purpose we have developed laboratory techniques by means of which we:

- Build substances into delivery systems such as microcapsules, microspheres,
- Research the release of substances from delivery systems,
- Research the absorption of substances from the alimentary canal, and
- Research the distribution and decomposition of substances in the body.

Research at the level of laboratory experiments is urgently needed, since it is the only way to define the effect of biological and technological factors on the above mentioned processes.

When enough data is gathered, we mathematically describe the above mentioned processes and with computer-aided methods predict the concentration and effects of substances in different organs. The latter depend on the dosage, type of delivery system, delivery method (e.g., ingestion, vein injection, inhalation into the lungs), genetic predispositions and the

function of secretory organs such as kidneys and liver. In this way, less burden is placed on test animals and humans in different phases of drug development and testing, final results are more quickly reached and we also get directions for performing new laboratory experiments.

Our research is the key to the transformation of a substance into a drug, which must provide the best action with minimum side effects.

The Chair of Pharmaceutical Technology

The Chair of Pharmaceutical Technology carries out pedagogical and research work in the field of design, production and evaluation of dosage forms. This field deals with building a synthesised substance with known pharmacodynamic properties into a dosage form. By choosing appropriate excipients and technological procedure we produce a dosage form with desired properties.

Specifically, at the Chair of Pharmaceutical Technology we study physical and chemical properties of substances and excipients, develop solid dosage forms (granules, pellets, tablets), semi-solid and liquid pharmaceutical dispersion systems (macro- and micro-emulsions; gels) and new dosage forms with sustained release for targeted treatment (liposomes, nanoparticles and nanocapsules). Nanotechnology techniques are the main new additions to the Chair.

The Chair of Social Pharmacy

At the Chair of Social Pharmacy, we study the effect of substances on modern man and society. We mainly deal with drug control after drugs are placed on the market or reach the patient. We use research methods of natural sciences, which are often intertwined with sociological ones. In pharmacoepidemiology we monitor drug safety and efficacy on a large number of people—in a certain population, and in pharmacoconomics we examine the costs of drug use. We are particularly interested in the research of pharmaceutical activities in pharmacies. With so-called pharmaceutical care programmes, which are first evaluated by our research teams, we try to improve the quality of patient's life. To do this, we use modern information communication methods. At the Chair of Social Pharmacy, we also study the characteristics of national and international laws that regulate drugs and the pharmaceutical profession. In this way, we actively contribute to the creation of new legislation and introduction of the highest standards in everyday practice.

The Faculty of Pharmacy therefore combines the most modern approaches of pedagogical and scientific research work. The new developments, which high-tech, modern faculties introduce in higher education institutions and top research laboratories, are reflected in the development strategy of the Faculty of Pharmacy in Ljubljana. We believe that the work of the Faculty of Pharmacy is an important factor in the creation of new knowledge and education of modern experts in the field of pharmacy, industrial pharmacy, regulatory bodies, in distribution systems and representation offices of foreign pharmaceutical companies as well as in basic and application-oriented research and education. The work and achievements of the Faculty of Pharmacy at the University of Ljubljana over the last years put us on a par with the most modern higher education institutions in the European Community and wider region. "Let science win—Scientia vincet!"

3. THE FACULTY OF PHARMACY IN 2007

The Faculty of Pharmacy educates future experts qualified for work and management of sustainable development in the fields of pharmacy and clinical biochemistry. It is registered for the following activities:

- Education at undergraduate and postgraduate levels,
- Basic, application-oriented and developmental research in the field of natural science and technology,
- Professional participation, technical testing, analysis, technical support, etc.

The faculty is headquartered at Askerceva cesta 7, telephone: 01 47 69 500, fax: 01 42 58 031, e-mail of the Secretariat: tajnistvo@ffa.uni-lj.si, registration number: 1626973, and VAT number: SI 11690682.

A member of the University of Ljubljana, the Faculty of Pharmacy has its official web site at: <http://www.ffa.uni-lj.si>.

THE GOVERNANCE OF THE FACULTY

Dean:

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Vice-Dean for Education:

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Governance secretary:

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Chair of Pharmaceutical Biology:

Head of Chair: Prof. Borut Štrukelj, Ph.D., tel.: 01 47 69 586
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Chair of Pharmaceutical Chemistry:

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Chair of Pharmaceutical Technology

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Chair of Clinical Biochemistry

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Chair of Social Pharmacy

Head of Chair: Assoc. Prof. Vojko Kmetec, Ph.D., tel.: 01 47 69 649

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THE BODIES OF THE FACULTY

Senate of the Faculty of Pharmacy Chairman: Assoc. Prof. Stanislav Gobec, Ph.D.

Boards and Commissions:

Administrative Board	Chairman:	Prof. Janko Kos, Ph.D.
Habilitation Board	Chairwoman:	Assoc. Prof. Marija Bogataj, Ph.D.
Construction Board	Chairwoman:	Prof. Julijana Kristl, Ph.D.
Equipment Commission	Chairman:	Prof. Janko Kos, Ph.D.
Committee for Prešeren Awards for students	Chairman:	Prof. Borut Štrukelj, Ph.D.
Education Commission	Chairman:	Assoc. Prof. Borut Božič, Ph.D.
Scientific Research Committee	Chairman:	Prof. Janko Kos, Ph.D.
Quality Committee	Chairman:	Assoc. Prof. Vojko Kmetec, Ph.D.
Study Programmes Reform Board	Chairwoman:	Assoc. Prof. Mirjana Gašperlin, Ph.D.
Computer Commission	Chairman:	Boštjan Kalamar, M. Pharm.

STUDY PROGRAMMES

In the academic year 2006/07, the Faculty of Pharmacy introduced:

a) Undergraduate study programmes

- Undergraduate study programme in Pharmacy
- Higher professional study programme in Laboratory Biomedicine;

b) Postgraduate study programmes

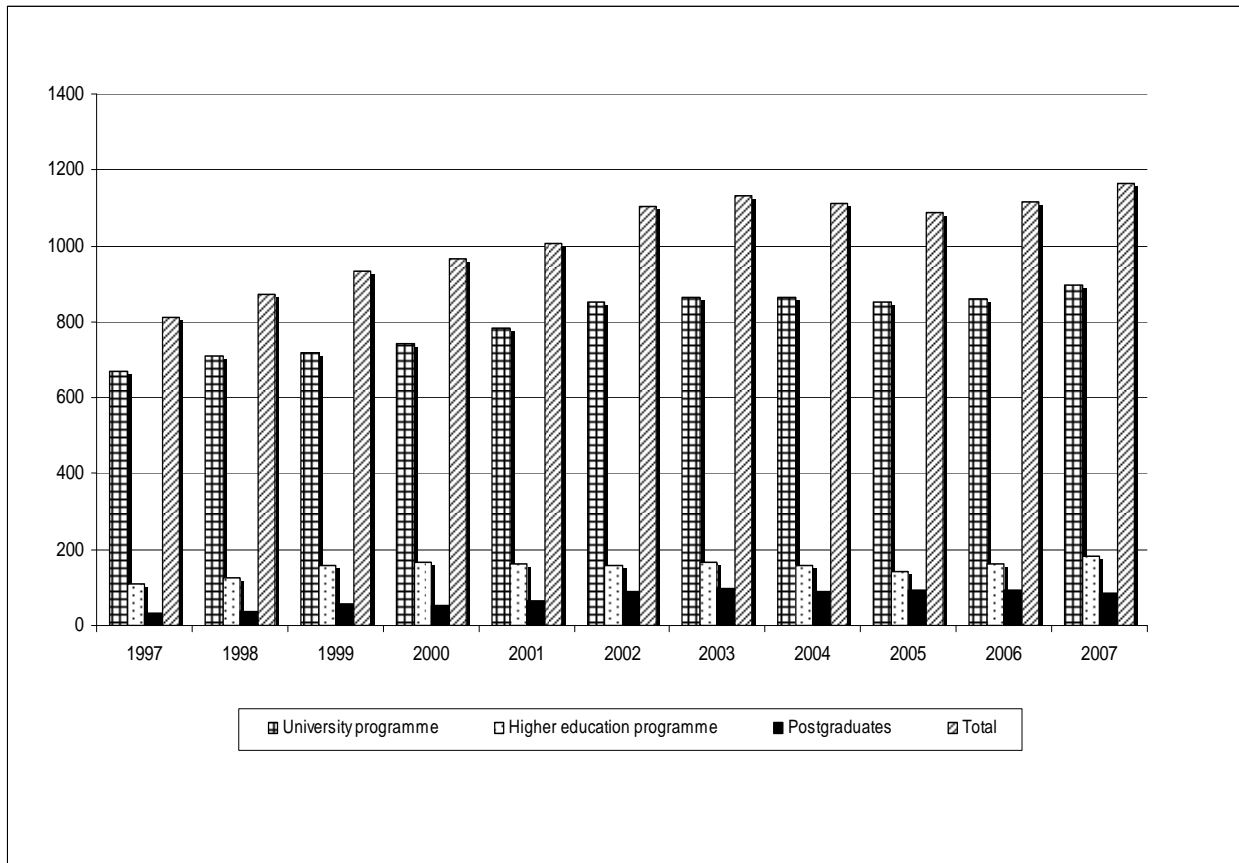
- Postgraduate programme to receive the title Master of Science in Pharmacy or postgraduate programme to receive the title Doctor of Philosophy in the fields of Pharmacy and Clinical Biochemistry.
- Specialist postgraduate study in the field of pharmacy together with the Chamber of Pharmacy and the Ministry of Health of the Republic of Slovenia.
- Specialist study of medical biochemistry.

The study programmes are interdisciplinary. They are implemented by teachers and other employees of the Faculty of Pharmacy, together with teachers from other faculties of the University of Ljubljana: Faculty of Chemistry and Chemical Technology, Faculty of Medicine, and Faculty of Mathematics and Physics as specified in the lectures list for the academic year 2006/07. In economy-related subjects, economy experts participate in the programme as visiting lecturers. A part of the Drug Analysis curriculum involves habilitation assistants from the Public Agency for Medicinal Products and Medical Devices of the Republic of Slovenia; in Pharmaceutical Administration we work with Prof. Wertheimer, Ph.D., a teacher at Temple University (USA).

In the academic year 2006/07, there were 1,024 students enrolled in the undergraduate programme, 862 in the undergraduate study programme in pharmacy, 162 in the higher education study programme in laboratory medicine, and 92 in postgraduate study. The number of enrolled students in all the programmes totalled 1,116.

In the academic year 2007/08, there were more students enrolled in the undergraduate programme, 896 in the undergraduate study programme in pharmacy, 183 in the higher education study programme in laboratory medicine, and 85 in postgraduate study. The total number of enrolled students, in all the programmes, is 1,164. The number of students enrolled from 1995 to 2007 is shown in Figure 1.

Based on the analysis of average duration of study (6.6 years in USP and 5.6 years in HESP), we can see that most students took advantage of their legal right to repeat one year of study.



Number of students in university undergraduate study of Pharmacy, higher education undergraduate study of Laboratory biomedicine and in postgraduate study of Biomedicine from 1995 to 2007

BOLOGNA REFORM OF STUDY PROGRAMMES AT THE FFA

The FFA has devoted its recent attention to the renewal and preparation (independently or in collaboration with other faculties at the University of Ljubljana) of 7 study programmes in line with European directives and Bologna guidelines.

- *Uniform master study of Pharmacy*
- *Higher professional study of Laboratory Biomedicine*
- *University programme in Cosmetology (1st cycle)*
- *Master's in Industrial Pharmacy (2nd cycle)*
- *Master's programme in Laboratory Biomedicine (2nd cycle)*
- *Doctoral study programme in Biomedicine*
- *Master's programme in Toxicology.*

UNIVERSITY PROGRAMME IN PHARMACY & UNIFORM MASTER'S PROGRAMME IN PHARMACY

In recent years, the university programme in Pharmacy faced two major changes—harmonisation and the Bologna reform.

As Slovenia became a member of the EU on 1 May 2004 and one of the accession requirements was to uniform the study of regulated professions—the pharmacist profession being one of them—the FFA had to harmonise the study programme in pharmacy in compliance with the requirements of the industry directive 2005/36/EC (formerly 85/432/EEC). The main change is that the study has been extended from 9 to 10 semesters due to the inclusion of a 6-month practical training in the curriculum, which substitutes the existing traineeship. At the same time, the list of existing electives was extended: Hospital pharmacy, Biopharmaceutical evaluation of dosage forms, Molecular and cellular diagnostics with pharmacogenetics, Selected chapters from pharmaceutical analysis, Pharmacogenomics and genetic drugs, Immunology in pharmacy, and together with the FCCT, Chemistry of cancer development and progression. In 2007, the following subjects were added to the list of electives: Food supplements, Toxicogenic substances and drug abuse, Dosage forms with advanced drug delivery system, Pharmacoeconomics, and Drugs in alternative medicine. **Harmonised university programme in Pharmacy** is being carried out and in 2008/09 the first generation of students will already have access to practical training within the framework of the study.

At the same time, the programme was being adjusted to the Bologna reform guidelines. Following many discussions within the profession, we came to a uniform decision that the only acceptable model of study for the pharmacist profession with qualifications in the EU is 5 + 0. This means that the undergraduate and master's degrees will merge into a uniform programme that corresponds to 300 ECTS, which will enable direct enrolment in doctoral study. In 2007, the programme was checked and accredited by the Council for Higher Education as the **uniform master study programme in Pharmacy**, and the FFA launched the first-time enrolment procedure in the academic year 2008/09.

The programme has the right combination of pharmaceutical, natural science, medical and other subjects to generate students that are qualified to perform professional jobs and tasks in any pharmaceutical segment; at the same time it forms a solid footing for doctoral study and is open to lifelong professional training.

HIGHER PROFESSIONAL PROGRAMME IN LABORATORY BIOMEDICINE & UNIVERSITY PROGRAMME IN LABORATORY BIOMEDICINE

After 12 years, the **Higher education study programme in Laboratory Biomedicine** has been revised according to the Bologna reform. Adjusted to the 2nd cycle study, the programme includes the possibility of electives and offers a high degree of cohesion among individual subjects. The program was revised in line with the following concept: 3-year 1st cycle study and 2-year 2nd cycle study (Master's).

On the one hand the new **1st cycle university programme in Laboratory Medicine** combines a high-level orientation towards practical technological knowledge and skills, and on the other hand it enables students to learn about scientific research and biomedicine. Our goal is to increase the prospects for these university graduates to find employment in biomedical research institutions. Such research is very common and because of increased concern for our health and higher quality of life we expect there to be even more. At the same time we wish to enable top students to easily continue their education at second and third cycles and specialisation.

Following accreditation of the 1st cycle university programme in Laboratory Medicine by the Council for Higher Education, the FFA launched the first-time enrolment procedure in the academic year 2008/09.

MASTER'S PROGRAMME IN INDUSTRIAL PHARMACY

The 2nd cycle master study of Industrial Pharmacy is a completely new 2-year (4 semesters) study programme corresponding to 120 credit points. The professional title received by graduates is Master in Industrial Pharmacy. The main objective of the master's programme is that graduates of natural science (chemical, biotechnical, biotechnological, etc.) and technical programmes (mechanical engineering, electrotechnology, etc.) receive proper 2nd cycle education after the finished 1st cycle of the Bologna programme for work in the pharmaceutical industry, in the field of drug production.

Postgraduate master's programme and the curriculum were both developed on the basis of working experience in Slovenia and abroad and projected development of national and international pharmaceutical industries. The programme includes lectures by Slovenian and foreign professors and industry experts, case studies, individual and team work, e-work with the help of information technology, and innovative solutions to cases in question. All of this should enable students after graduation to be able to analyse, synthesise and solve complex problems in the field of pharmaceutical industry.

The 2nd cycle master's programme in Industrial Pharmacy was accredited by the Council for Higher Education, and the FFA launched the first-time enrolment procedure in the academic year 2008/09.

UNIVERSITY UNDERGRADUATE STUDY PROGRAMME IN COSMETOLOGY

The 1st cycle university programme in Cosmetology is a brand new 3-year programme, with 180 ECTS credits. The proposed study programme in cosmetology is the first of its kind in Slovenia. Its main aim is to train experts in the field of cosmetology science. In addition to

basic knowledge of natural science, the programme also offers in-depth knowledge of professional science of cosmetology; knowledge of organic and synthesis materials as ingredients of cosmetic products, active cosmetic ingredients, their desired, harmful and toxic effects, types of cosmetic products, their design, formation and development, approaches to security and efficiency evaluation, use of proper analytical methods, control, marketing and advertising of cosmetic products. With a multitude of electives the programme expands the knowledge of natural science and professional science of cosmetology, complements service activities in the sense of care and keeping the body healthy, way of living and diet as the cosmetic profession dictates and offers additional skills of sociological science that go hand in hand with the cosmetic profession such as communication science, foreign language, psychology of perception, marketing and advertising aspects, etc. The programme creates experts qualified to work in the cosmetic industry, regulatory and inspection services, in representation offices for cosmetic companies as well as consulting and marketing of cosmetic products in different institutions.

The FFA and UL confirmed the programme in 2007 and it is now in the process of accreditation at the Council for Higher Education. First-time enrolment is expected in the academic year 2009/2010.

MASTER'S PROGRAMME IN LABORATORY BIOMEDICINE

The 2nd cycle university programme in Laboratory Biomedicine is a completely new 2-year study program, with 120 ECTS credits. It is divided into modules, which should enable the programme to be carried out in the form of lifelong learning. The programme's main objective is to educate top-quality experts in different fields of laboratory medicine, who will be able to quickly adapt to many changes and new challenges in the field of medical diagnostics of human biological material. After finishing the master's study, students will be qualified for individual professional work in medical laboratories and will fill the existing gap in medical professions of the existing university education. They will at the same time be qualified for material research and will be able to critically monitor the use of new technologies in practice. In the field of biomedicine, the largest staff shortage is among the specialists of medical biochemistry; master's students of the 2nd cycle study of Laboratory Biomedicine will be able to enrol in the specialist study, which will form an upgrade to the formal education, not the basic education that applies to the graduates of other programmes.

The programme was confirmed by the FFA Senate and is now pending accreditation. First-time enrolment is expected in the academic year 2009/2010.

POSTGRADUATE STUDY PROGRAMME IN BIOMEDICINE & DOCTORAL STUDY OF BIOMEDICINE

The undergraduate study programme in Biomedicine has been renewed in compliance with the Bologna guidelines. It is now a 3-year programme and corresponds to 180 ECTS. It only includes the doctoral study, as the master study of Biomedicine no longer exists. **The 3rd cycle doctoral study programme in Biomedicine** was introduced in the academic year 2007/2008. It is implemented within the UL, the FFA is responsible for the fields of Pharmacy, Clinical Biochemistry and Laboratory Biomedicine and Toxicology.

FFA PERSONNEL AND PREMISES IN 2007

As at 1 January 2007, the Faculty of Pharmacy employed 77 permanent pedagogical and scientific staff (4 with 1/5 employment) or professional secretarial and technical staff, 30 young researchers and assistants employed for the duration of their training or study to obtain a master's or doctor's degree, carrying out assistant work with a part-time norm, and 5 researchers with a fixed-term employment on research projects. The permanent staff includes:

- 21 university teachers (8 Full Prof., 9 Assoc. Prof. and 4 Assist. Prof.),
- 3 university teachers with 1/5 employment,
- 1 research advisor
- 1 senior scientific worker (Assoc. Prof.) with a 10% employment,
- 1 scientific employee (Assist. Prof.) with a 10% employment,
- 3 researchers/assistants
- 1 PE teacher,
- 18 assistants (1 as a substitute), 3 of them with the title Assistant Professor,
- 1 assistant with 1/5 employment,
- Technical staff (13),
- 1 librarian,
- 9 professional and secretarial staff, and
- 4 technical staff (maintenance workers and reception staff).

The number of students at the FFA (1,116 in the academic year 2006/07) increases each year. In addition, we will start implementing new study programmes in the following years. In 2000, the FFA expanded its premises with the construction of the new south wing and now covers over 5,600 square metres. The results of the FFA premises inspection, conducted by PROPLUS, d. o. o., show that the faculty needs another 6 small lecture rooms, one large tiered lecture hall, 14 laboratories, 39 cabinets and additional space for the library. This means that the faculty lacks around 45% of required space.

4. SOME SIGNIFICANT EVENTS IN 2007

THE NEW GOVERNANCE OF THE FACULTY OF PHARMACY

The official handover of the dean position took place on Monday, 8 October 2007. Former dean Prof. Albin Kristl, Ph.D., took off his gown, removed the ceremonial dean's neck chain and handed it over to the new dean of the Faculty of Pharmacy, Assoc. Prof. Stanislav Gobec, Ph.D., who was elected the new dean at the 22nd meeting of the UL FFA Senate on 22 June 2007. Assoc. Prof. Stanislav Gobec, Ph.D., chose Assoc. Prof. Borut Božič, Ph.D., as the vice-dean for education and Prof. Janko Kos, Ph.D., as the vice-dean for scientific research.



The new FFA governance

Left to right: Prof. Janko Kos, Ph.D., Assoc. Prof. Stanislav Gobec, Ph.D., and Assoc. Prof. Borut Božič, Ph.D.

PROFESSIONAL TRAINING AT THE FFA IN 2007

Immunity measurement—from molecule to patient

In 2007, the Faculty of Pharmacy has, like in previous years, organised a postgraduate training aimed at experts in the field of laboratory medicine and biochemistry. The one - day “*Immunity measurement - from molecule to patient*“ seminar was held twice, in January and September, attracting 80 students. The main topic was immunology. The competence of the FFA in this field was confirmed by top - quality performance.

The immune system has a double role in the organism. On the one hand it protects against viruses, bacteria, multi-cellular parasites and cancer cells, and on the other hand it can attack tissue and cells of its own organism, causing serious autoimmune diseases. Immunity as a state of an organism or a property of the immune system is a very important indicator of the patient’s medical condition with numerous diseases. For this reason immunology - as a science that studies the immune system and its function - overlaps with many fields. Because of that it is sometimes overlooked.

Immunity measurement is as complex as the immune system itself, which includes organs, tissues, cells and individual molecules. The immunity measurement is particularly interesting for its extent, variety and intertwinement of different approaches and involvement of different experts: Immunologists - “serologists” or “cell experts”, biochemists, microbiologists, hematologists, transfusionists, allergists, oncologists, cytologists ... All three work approaches - basic, application-oriented and clinical - provide each other professional support or inspiration for research.

The content of the seminar was a reflection of the heterogeneity and simultaneous intertwinement of immunology both as a science and profession in Slovenia. To all who have made their contribution to the seminar, no matter what their core profession, immunology is a very special challenge.



Invitation to professional training

Pharmacoeconomics course at the Faculty of Pharmacy

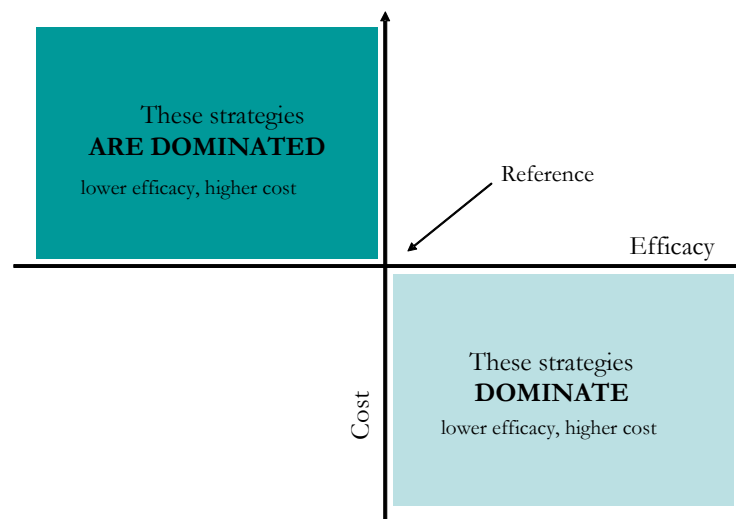
After the successfully carried out first pharmacoeconomics course, the second course was successfully held within the Chair of Social Pharmacy in 2007 with the title “4 - day evening course on an interesting topic in the form of workshops with a smaller number of participants.”

All healthcare systems try to find out how to make the most out of the means that are available at a given time and place. Slovenia is no exception. While proper healthcare is the most important thing for patients, insurance companies work to ensure more health for a given budget, and pharmaceutical companies to prove that their drugs are cost-effective and to introduce them to treatments and various drug lists.

The course held by Prof. Aleš Mrhar, Ph.D., Assist. Mitja Kos, Ph.D., and Marko Obradović, with organisation support by Mihaela Kolarev, was attended by 11 employees of pharmaceutical companies, the Public Agency for Medicinal Products and Medical Devices of the Republic of Slovenia and the Ministry of Health. Given the number of participants (maximum number of participants is 14), the course allowed maximum interaction among participants as well as participants and moderators. The main focus of the course was on the meaning and the role of pharmacoeconomics, the bases of pharmacoeconomics, decision analysis on practical cases and principles of decision making on the basis of pharmacoeconomics research results.

The pharmacoeconomics course is held in a time when there is a lot of discussion on drugs, their efficacy and the ability of the healthcare system to cover the costs of drugs. The Faculty of Pharmacy has been dealing with pedagogical and research pharmacoeconomics since 1996. We believe that it is time to make pharmacoeconomics not only an academic discipline but also an integral and rational part of medical practice.

The figure shows the basic principle for comparing drug treatment strategies.



Extract from the course

Modern phytotherapy

One-day professional course for pharmacy technicians (Ljubljana, Izola, Maribor; February and March 2007)

One-day professional course for doctors (Ljubljana, September 2007)


In the last decades the research of medicinal herbs made a major breakthrough. Clinical research is without doubt the most important; however, the development would not be possible without pharmacological and phytochemical research. Training on this subject matter was organised for pharmacists in 2003. However, we have also detected the need for such organised trainings for pharmacy technicians who sell non-prescription medicinal products in pharmacies and for doctors who become familiar with the subject only during their regular undergraduate study.

The course for pharmacy technicians was held three times in Ljubljana, Izola and Maribor. It was attended by 160 participants in all.

The course for doctors was held once. It was attended by 50 doctors and 60 pharmacists.

The course included 8 lectures, where the medicinal herbs, the function of which is confirmed by clinical studies, were presented according to the indication groups (malfunction of the central nervous system, respiratory system, immune system, cardiovascular system, gastrointestinal system, urogenital tract and skin and mucous membrane). Traditionally used medicinal herbs, the function of which is confirmed only by preclinical research, have also been touched upon. There was also a presentation of the evidence criteria for efficacy, safety and quality that the drug must comply with to be granted a marketing authorisation, same goes for drugs of plant origin. Most of the lecturers were members of the Chair of Pharmaceutical Biology, Faculty of Pharmacy, however the lectures were also given by guests from the Agency for Medicinal Products and Medical Devices, Maribor pharmacies and from abroad. Both courses were organised with the help of the Farmedica company, however, the training for doctors was organised also with the help of the Family medicine association, Slovenian Medical Society.

SZD – Zdravljenje z zdravilni
dravilne rastline



Enodnevno strokovno izobraževanje za
zdravnike

Sodobna fitoterapija

Ljubljana, 21.9.2007, Fakulteta za farmacijo, Aškerčeva 7, Ljubljana
Predavalnica P1

Sportovani!

Alli šifofarmak deluje in če, kakšen je učinek? Je varen? Ga lahko uporabilo sočasno z drugim zdravilom?


Takšna in številna podobna vprašanja nam dnevno zastavljajo vse bolj informiran uporabljeni zdravi rastlinskega izvora. Pačka je, da se večina zdravi rastlinskega izvora uporablja za samozdravljenje. Glede na indikacije, ki potrebujejo natančno diagnozo ter potencialne zdravilne ali interakcije, pa bi bilo v mnogih primerih bolj primerno, da bi se štoterapija izvajala pod strokovnim nadzorom zdravnika.

V zadnjih desetletjih so raziskave zdravilnih rastlin naredile veliki korak naprej. Pri tem so seveda najbolj dosegone klinične raziskave, napovedi, pa ne bi bil mogoč brez farmakoloških in fitokemijskih raziskav.

V pogovoru z zdravniki, ki se andričubno trudijo slediti temu napredku, smo zaznali potrebo po tovrstnem organiziranem izobraževanju, zato smo za vas pripravili celoviti izobraževalni seminar v področju sodobne štoterapije. Seminar je namenjen predvsem zdravnikom, dohodnosti pa je seveda vsaki strokovni delavec, ki ga področje uporabe zdravi rastlinskega izvora zanima oz. ga le-ta spremlja pri vsakodnevnem delu.


Na izobraževanju bodo po indikacijskih skupinah predstavljene zdravilne rastline, katerih delovanje je potrjeno s kliničnimi študijami. Omenjene bodo tudi rastline, ki se tradicionalno uporabljajo, vendar je njihovo delovanje potrjeno le s predkliničnimi raziskavami. Predstavljene bodo tudi kriteriji dokazovanja učinkovitosti, varnosti in kvalitete, ki jih mora izpolniti zdravilo, tudi tisto rastlinskega izvora, da lahko dobi dovoljenje za promet. Predavali bodo ugledni domaći in tuji predavatelji iz Fakultete za farmacijo, Agencije za zdravila in lekarni. V razpravi bomo z vselej prihodnosti tudi omemrili uveljavitev.

Izobraževanje pripravila SZD – Zdravljenje z zdravilni dravilne rastline. Izobraževanje se tečaja v skladu s pravilnikom Zdravniške zbornice Slovenije.


 farmedica

Sodobna fitoterapija
Program izobraževanja

<p>0900 doc. dr. Jasna Krenak: Zdravljenje s šifofarmakom dravilna rastlina prof. dr. Sano Križ: Fitoliteza za farmacijo UL Robert Trčelj: - Skovinar, Farmacia d.o.o.</p> <p>0915 mag. Barbara Rastger: Agencija ZD za zdravila in medicinske pripomočke</p> <p>0945 dr. Albi Kliment: Javna zavod Interherba Mizana</p> <p>1030 predavatelj podjetja Lela d.d.</p> <p>1035</p> <p>1055 prof. dr. Sano Križ: Fitoliteza za farmacijo UL</p> <p>1140 andy Sotter: medicinski učitelj, študentica A11 Susa</p> <p>1200 prof. dr. Boris Brnčak: Fitoliteza za farmacijo UL</p> <p>1245</p> <p>1415 predavatelj podjetja Lela d.d.</p> <p>1420 predavatelj podjetja Farmacia</p> <p>1430 predavatelj podjetja Polmed</p> <p>1450 prof. dr. Erikasud Link: Head of International Laboratory, Schapercliff-Gruppe GmbH & Co. KG</p> <p>1500 doc. dr. Andrej Učak: Fitoliteza za farmacijo UL</p> <p>1510 Maja Lunder: Fitoliteza za farmacijo UL</p> <p>1530</p> <p>1610 dr. Bojan Djalak: Fitoliteza za farmacijo UL</p> <p>1630 Nisa Križar: Fitoliteza za farmacijo UL</p> <p>1715 Drazen Jančič: Fitoliteza za farmacijo UL</p> <p>1730</p>	<p><i>Predavateljska komisija organizatorji</i></p> <p><i>Zdravila uporabni zdravniško raziskava strokovnjaki</i></p> <p><i>Zdravilna rastlina za zdravljenje motenj v delovanju centralnega živčnega sistema</i></p> <p><i>Najbolje raziskane zdravila Lela d.d.</i></p> <p><i>Obnova</i></p> <p><i>Zdravilna rastlina pri gripi in prehladu</i></p> <p><i>Farmakološka uporaba avstralskega olivnega (predavanja v angleščini)</i></p> <p><i>Zdravilna rastlina za zdravljenje belušne prehladi</i></p> <p><i>Zdravila</i></p> <p><i>Zdravila Perena in obdelovanje strova</i></p> <p><i>Predstavitev cilinskih zdravil raziskovalne znanosti</i></p> <p><i>Predstavitev cilinskih zdravil raziskovalne znanosti</i></p> <p><i>Učinkovitost zdravila evellia (Cissampelos cumsonii) pri migreni (predavanja v angleščini)</i></p> <p><i>Zdravilna rastlina pri ledvični in presnetni mestuvalni belušni</i></p> <p><i>Rastlinski izvori in vnosni izdelki</i></p> <p><i>Obnova</i></p> <p><i>Zdravilna rastlina pri ledvični bolezni in zdravljenju</i></p> <p><i>Zdravilna rastlina za ledvično zdravljenje</i></p> <p><i>Zdravilna rastlina v zdravljenju nevarnosti</i></p> <p><i>Razprava</i></p> <p><i>V primeru zdravstvenih pritožb, bo organizatorji brezplačno avtorizirani prevoz v obe smeri iz Maribora, Celja, Brezice, Novo mesto, Vipava in Postopek</i></p> <p><i>Indikacije, ki vključujejo uveljavitev na izobraževanju, prične gradivo, v omenjeni karto in priložnost, ki bodo pripravili 2 udeležence ali več, se prima 10 % popusta. Kontaktirajte se pisno v zvezi s temi po prejeto računa, ki ga bo po končanem izobraževanju izdal fakulteta za farmacijo.</i></p> <p><i>Za vse informacije in pomoč se lahko obrnete na: Ga. Barbara Kržar, Farmacia d.o.o., Leskovača 12, 1000 Ljubljana; Tel: 01 524 0 213 Fax: 01 524 0 214 E-mail: barbara@farmacia.si</i></p>
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druva vijolica
Viola tricolor



druva vijolica
Viola tricolor

Invitation to professional training

ORGANISATION OF INTERNATIONAL SCIENTIFIC MEETINGS

JOINT MEETING ON MEDICINAL CHEMISTRY (JMMC2007)



European Federation
for Medicinal Chemistry



The 5th Austrian–German–Polish–Hungarian–Italian–Slovene *Joint Meeting on Medicinal Chemistry* (JMMC2007) was organised by the Section for Medicinal Chemistry of the Slovenian Pharmaceutical Society, sponsored by the *European Federation for Medicinal Chemistry* (EFMC). The symposium took place in Portorož in late June. JMMC2007 continued the tradition of the previous four joint meetings, which took place in Taormini 1999, Budapest 2001, Krakow 2003 and Vienna 2005. The symposium was attended by 327 participants from 29 countries. The scientific part of the symposium comprised 7 plenary lectures, 20 keynote lectures, 15 oral communications and 172 poster presentations.

The symposium focused on the new developments in the field of anti-infectives, drugs for cardiovascular and metabolic disorders, enzymes and receptors as targets for new drugs, computer-aided drug design, emerging strategies in drug design and discovery, successful development of new drugs. The research of new antibacterial drugs and drugs for cardiovascular disorders is also the main focus of research at the Chair of Pharmaceutical Chemistry at the FFA.

It was a great pleasure for us to host a Nobel prize - winner from Germany, Prof. Robert Huber, Ph.D. At the opening lecture entitled *Proteins and Their Structures in Basic Science and Medicine*, he presented the complex role of proteins in living organisms, their dynamic nature and the role of X-ray crystallography in the identification of 3D structure of macromolecules. The development of a new thrombin inhibitor *dabigatran* was presented at the symposium. Recently registered in Europe, it is an important milestone in the treatment of cardiovascular diseases, number one cause of death in developed countries. The lecture on the new multiple kinase inhibitor *sorafenib* was given by his inventor, Bernd Riedl, Ph.D. Since

last year, Sorafenib has also been available to Slovene patients undergoing kidney cancer treatment. An important topic discussed at the symposium was the development of new antibacterial drugs, as the bacteria are increasingly resistant to them, which presents a major problem for humankind. In this context, Assoc. Prof. Stanislav Gobec, Ph.D., presented results of the INTAFAR project (Inhibition of New Targets for Fighting Antibiotic Resistance), one of the major projects in the 6th EU framework programme focusing on the struggle against bacterial resistance and the search for new antibacterial substances that would effect the new targets at an early stage of bacterial cell wall biosynthesis. Prof. Ian Chopra, a leading researcher of antimicrobial substances and co-inventor of the new antibiotic *tigecycline*, concluded his lecture in Portorož by dramatically calling on the pharmaceutical industry and all researchers to expand research into new antimicrobial substances because of growing bacterial resistance.

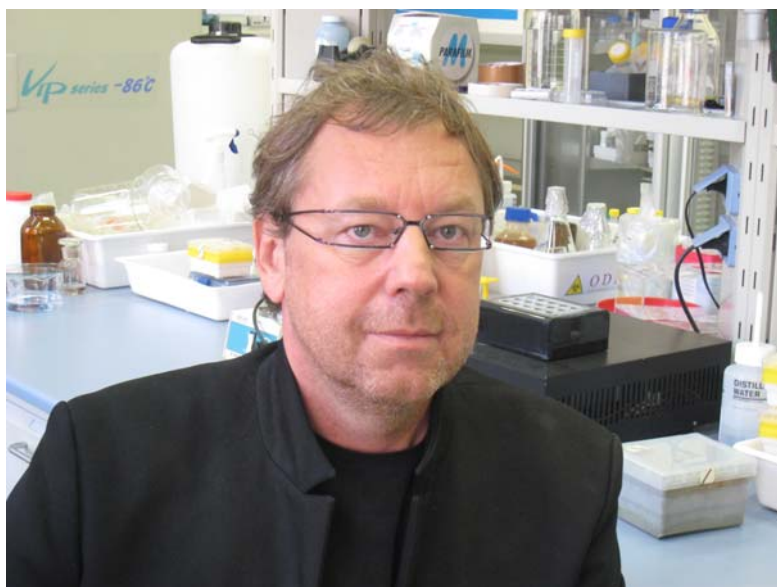
The 5th symposium on medicinal chemistry (JMMC2007) was a very important scientific event for us, a great opportunity to make new contacts and become better known and renowned within the European Research Area (<http://www.jmmc2007.si>).

AWARDS AND THE ACKNOWLEDGEMENTS TO CO-WORKERS

The Zois Award for special achievements in pharmaceutical biotechnology went to Prof. Borut Štrukelj, Ph.D.

Borut Štrukelj, Ph.D., is a full professor of pharmaceutical biotechnology and plant biochemistry at the Faculty of Pharmacy at the University of Ljubljana. Also working with the Jožef Stefan Institute, he is one of the pioneers of genetic engineering in Slovenia. Working with his team, he succeeded in determining the structure, or nucleotide sequence, of many animal, plant and fungus genes. Some foreign genes were successfully introduced into the bacterial and yeast genome to form foreign proteins. In cooperation with the Wageningen University, he developed a transgenic potato plant resistant to the Colorado beetle, which was internationally patented. He also studied ways to use plants as bioreactors for the production of important biological active substances, for example steroid hormones. The research group of Prof. Štrukelj, backed by the Lek-Sandoz pharmaceutical company, has recently been working on developing a special method for discovering new biological active substances through bacteriophage display, and the production of exogenic sweet protein in the lactic acid bacteria is also very interesting from the economic point of view. Such sweet protein, a new sweetener, could take beet sugar's place in the food industry.

Borut Štrukelj is an internationally recognised scientist, a great teacher with excellent organisation skills. He is an esteemed expert in many international and Slovenian professional institutions dealing with pharmacy and healthcare, for example the European Medicines Agency, London.



Prof. Borut Štrukelj, Ph.D., 2007 Zois Award winner.

THE WEEK OF THE UNIVERSITY OF LJUBLJANA AT THE FFA

**PRESENTATION OF THE FACULTY PREŠEREN AWARDS,
ACKNOWLEDGEMENTS AND COMMENDATIONS TO STUDENTS FOR THEIR
SUCCESSFUL STUDY**



Dean's opening speech at the Presentation of the Faculty Prešeren Awards, acknowledgments and commendations

The “Week of the University of Ljubljana” events at the Faculty of Pharmacy on Wednesday, 6 December 2007:

- Presentation of the Faculty Prešeren Awards,
- Presentation of acknowledgments and commendations to students for their successful study,
- Lecture of the 2007 Zois Award winner, Prof. Borut Štrukelj, Ph.D.



PODELITEV FAKULTETNIH PREŠERNOVIH NAGRAD TER PRIZNANJ IN POHVAL ŠTUDENTOM ZA USPEŠEN ŠTUDIJ

Vljudno Vas vabimo na prireditev v okviru
»Tedna Univerze v Ljubljani«, ki bo

v četrtek, 6. decembra 2007 ob 14.00 uri v predavalnici P1 na
UL – Fakulteti za farmacijo, Aškerčeva 7 v Ljubljani.

Po podelitvi nagrad in priznanj Vas vljudno vabimo na srečanje
z nagrajenci.

izr. prof. dr. Stanislav Gobec
Dekan Fakultete za farmacijo

Program:

Pozdravne besede
Prof. dr. S. Gobec, dekan Fakultete za farmacijo

Slavnostni nagovor
Prof. dr. B. Štrukelj, Fakulteta za farmacijo, prejemnik Zoisovega priznanja 2007

Poročilo Odbora za Prešernove in druge nagrade
Doc. dr. Saša Baumgartner

Podelitev fakultetnih Prešernovih nagrad

Podelitev priznanj in pohval študentom FFA za uspešen študij

*Invitation to the Presentation of Faculty Prešeren Awards, acknowledgements and commendations
to students for their successful study*

2007 PREŠEREN AWARD WINNERS AT THE UNIVERSITY OF LJUBLJANA: PETRA EKAR and MATEVŽ PRIJATELJ

The 2007 Prešeren Awards of the University of Ljubljana were presented to two graduates of the Faculty of Pharmacy: PETRA EKAR for her paper “Optimisation of high-affinity phage clones selection from the peptide-display library”, which was written under the supervision of Assoc. Prof. Samo Kreft, Ph.D., and co-supervision of Assist. Mojca Lunder; and MATEVŽ PRIJATELJ for his paper “Use of fluorescence microscopy for determining the cellular processing of recombinant proteins,” which was written under the supervision of Assoc. Prof. Irena Mlinarič Raščan, Ph.D.

Petra Ekar, M. Pharm.

Presentation of the University Prešeren Award

Petra Ekar, M.Pharm., born in 1982 in Kranj, attended primary school in Lesce and finished high school in 2001 as pharmacy technician. She graduated in 2007 at the Faculty of Pharmacy, Chair of Pharmaceutical Biology, under the supervision of Prof. Samo Kreft, Ph.D., and Co-Supervisor Assist. Mojca Lunder. That same year, she took up traineeship at Lekarna Ljubljana Pharmacy, successfully completing it by passing the proficiency examination at the Ministry of Health. She currently works at the Lekarna Ljubljana Pharmacy.

Optimisation of high-affinity phage clones selection from the peptide-display library.

Bacteriophage peptide-display libraries are used for searching for new drugs that form a bond with the desired target. The award winner picked out selections from these libraries with the help of a model target, streptavidine, which bonds well with the peptides that include the amino acid sequence HPQ. When a specific ligand for the displacement of phages from the target is not available, we use nonspecific elution. She discovered that not even extremely strong nonspecific elution (pH 2.2), which is usually used in bacteriophage display technology, removes the strongest phage bonds. She introduced a new method of nonspecific elution that combines the use of a buffer with a low pH and sonication. The new method is very successful in the elimination of the strongest bacteriophage clone bonds by breaking the interaction between the phage and the target, or by removing both the target and the phage from the hard surface. In combination with extensive preliminary washing of phages with weak bonds and no bonds, this new method enables the selection of the proper phage with a strong affinity to the target in as little as one selection level.

Matevž Prijatelj, M.Pharm.
Presentation of the University Prešeren Award

Matevž Prijatelj, M.Pharm., was born on 16 April 1982. After finishing primary school and Želimlje high school (1996–2000), he went on to study pharmacy, graduating in 2007 under the supervision of Assoc. Prof. Irena Mlinarič-Raščan. In addition to being a successful student, he very actively participated in student and professional organisations. In 2007, he finished his traineeship in a pharmacy and passed the proficiency examination at the Ministry of Health. He is currently employed at the Faculty of Pharmacy, University of Ljubljana. In the academic year 2007/08, he enrolled in the uniform doctoral study of Biomedicine, majoring in Clinical Biochemistry and Laboratory Biomedicine.

Use of fluorescence microscopy for determining the cellular processing of recombinant proteins

Award winner Matevž Prijatelj carried out his research work (USE OF FLUORESCENCE MICROSCOPY FOR DETERMINING THE CELLULAR PROCESSING OF RECOMBINANT PROTEINS) at the Faculty of Pharmacy in cooperation with the pharmaceutical company Lek, d. d., Department of Recombinant Substances Development, under the supervision of Assoc. Prof. Irena Mlinarič-Raščan, Ph.D.

The purpose of the research paper was to contribute to the solution of the complex issue of posttranslation modification and cellular processing of the new recombinant protein in the pharmaceutical industry.

With the use of cutting-edge cell biology technologies, such as fluorescence microscopy, the author was able to prove subcellular localisation and accumulation of individual recombinant protein subunits in real time.

This research is a prime example of how to use cutting-edge technologies in Slovenia, it is application-oriented and contributes to the active cooperation of the university and the industry.

FACULTY PREŠEREN AWARDS FOR THE YEAR 2007

Bukovec Polona (supervisor: Vrečer Franc, co-supervisor: Krošelj Vesna): The study of thermoplastic pelletization in a highshear mixer, COBISS-ID: 2258801.

Ekar Petra (supervisor: Kreft Samo, co-supervisor: Lunder Mojca): Optimisation of high-affinity phage clones selection from the peptide-display library, COBISS.SI-ID: 2261873.

Gostič Katja (supervisor: Janja Marc, co-supervisor: Tea Lanišnik Rižner): Detection of protein AKR1C3 in ovarian cyst samples from female patients with ovarian endometriosis, COBISS-ID: 2258289.

Herman Jana (supervisor: Borut Štrukelj, co-supervisor: Maja Kenig): Determination of polymeric impurities in traces in recombinant substances in bacteria *Escherichia coli*, COBISS-ID: 2258545.

Horvat Nejc (supervisor: Aleš Mrhar, co-supervisor: Mitja Kos): Construction of a questionnaire measuring patient satisfaction with pharmaceutical services, COBISS-ID: 2259057.

Levstik Tomaž (supervisor: Janja Marc, co-supervisor: Barbara Mlinar): Association between three polymorphisms in PPAR γ gene and polycystic ovary, COBISS-ID: 2259313.

Prijatelj Matevž (supervisor: Irena Mlinarič Raščan): Use of fluorescence microscopy for determining the cellular processing of recombinant proteins, COBISS-ID: 2266993.

ACKNOWLEDGEMENTS OF THE FACULTY OF PHARMACY

The 7th presentation of acknowledgements of the Faculty of Pharmacy took place in 2007.

FACULTY ACKNOWLEDGEMENTS are given to students with an uninterrupted course of study and an average mark of 8.5 or higher in all study requirements (excluding dissertation) in the period of one year after completing the regular study programme. Failing marks are also calculated in the average mark. The faculty acknowledgement comprises a diploma (plaque) and a material prize.

Acknowledgements were awarded to:

UNIVERSITY STUDY OF PHARMACY:

Blažič Petra
Brvar Matjaž
Erjavec Jasmina
Godec Špela
Jožef Maj
Kralj Eva
Rupnik Irena
Sabotin Martina
Trdan Tina
Žagar Ana

COMMENDATIONS OF THE FACULTY OF PHARMACY

In 2007, the Faculty of Pharmacy held the 7th presentation of commendations.

FACULTY COMMENDATIONS are awarded to the best students of the year, excluding the 9th semester of the University Programme in Pharmacy. Eligibility criteria are uninterrupted course of study and an average mark of 8.5 or higher for all study requirements in a given year, regardless of the requirements for proceeding to the next year. Any failing marks are also calculated in the average mark. The faculty commendation is presented in the form of a diploma (plaque).

Commendations were awarded to:

UNIVERSITY STUDY OF PHARMACY:

1st Year University Programme in Pharmacy

Adamič Tanja
Ahačič Nataša
Brajkovec Melita
Darovic Simona
Dular Aleša
Ferjanc Blaž
Gramec Darja
Janžovnik Tatjana
Jurinčič Valentina
Kodela Jaka
Korasa Klemen
Lamut Andraž
Lemovec Ana
Lumpert Mateja
Marđetko Nika
Novak Maša
Okoliš Katja
Pibernik Nežka
Pihler Brigita
Pipan Nadja
Ravnikar Mateja
Rijavec Nika
Rugelj Neža
Snoj Tina
Starkl Katarina
Svoljšak Katja
Šantej Marko
Šoštarič Sabina
Šteger Katja
Urlep Žiga
Vidak Marko
Virant Leon
Žvar Sandra

2nd Year University Programme in Pharmacy

Bartol Maja
Blagovič Nina
Božnar Polona
Brezovnik Urška
Čurič Mateja
Ekar Tjaša
Emeršič Andreja
Fortuna Andreja
Grdešič Peter
Grujić Nadja
Grželj Jasna
Holc Matej
Kežzar Anja
Meško Jasna
Mlinarič Barbara
Planinc Nina
Šajn Polona
Tomc Ana
Trček Janja
Trošt Nuša
Udir Tjaša
Zaletel Anja

3rd Year University Programme in Pharmacy

Benček Marija
Beranič Nataša
Bratuž Borut
Brezovar Teja
Cvikl Maja
Eržen Janja
Košir Darjan
Kranjc Eva
Lorbek Gregor
Natlačen Tjaša
Peterec Andreja
Rajh Tjaša
Rošic Romana
Trobec Katja
Urnaut Sara

4th Year University Programme in Pharmacy

Molek Peter
Podergajs Neža

HIGHER PROFESSIONAL STUDY OF LABORATORY BIOMEDICINE:

2nd Year Higher Professional Study of Laboratory Biomedicine

Cunk Anita
Kulovec Primož
Šturm Andrej

3rd Year Higher Professional Study of Laboratory Biomedicine

Lužar Polona

KRKA AWARDS FOR FFA STUDENTS IN 2007

Krka Awards for independent work were awarded to:

Kralj Slavko

Use of microcalorimetry and liquid chromatography in preformulation studies of ramipril

Supervisor: Kmetec Vojko

Co-supervisor: Roškar Robert

Trontelj Jurij

Study of raloxifene metabolism by experimental models with increasing complexity

Supervisor: Mrhar Aleš

Mravljak Janez

Interactions of spin-labeled derivatives of perifosine and miltefosine with model and cell membranes

Supervisor: Pečar Slavko



Assist. Janez Mravljak, Ph.D., giving a lecture at the Krka Award ceremony

INTERNATIONAL COOPERATION

The internationalisation of higher education and science, with the simultaneous harmonisation of study programmes and implementation of the Bologna Declaration, enables the development of a uniform European Higher Education. In a bid to contribute to the accessibility and competitiveness of higher education, one of the priorities of the Faculty of Pharmacy is to reinforce international activities. In the context of achieving objectives of the University of Ljubljana, to strengthen international cooperation, the FFA posted a vacancy for the position of international cooperation coordinator. The internal call for applications was won by Assoc. Prof. Irena Mlinarič-Raščan, Ph.D.

VISION of International Cooperation

The main tool for achieving our objectives is to promote mobility of students, higher education teachers and secretarial staff, and to provide high-quality higher education programmes. The primary objective behind the strengthening of international cooperation is to increase the number of exchanges in undergraduate study programmes and exchanges of teachers, which calls for a larger number of formalised forms of cooperation of the FFA with partner institutions. Meanwhile, the faculty, primarily as a professional and scientific cooperation partner, is already involved in numerous successful programmes.

Objectives

1. To become an internationally recognised institute of education and research in the field of pharmacy and laboratory biomedicine.
2. To create a network of formal partner contacts in the fields of exchanges and joint educational programmes.
3. To discover and learn about trends in research and education from international contacts and to include them in the FFA guidelines for education and research.
4. To create conditions for an open and creative education environment that will stimulate mobility of students, teachers and secretarial staff and increase the number of exchanges to and from the faculty.

Priorities

1. Increasing mobility

The first priority of the strengthening of international cooperation will be to increase the number of teacher exchanges. With their new contacts, they will become active international promoters of the faculty. Increasing of the number of student and teacher exchanges will be based on strengthening the existing forms of cooperation, i.e. ERASMUS and CEEPUS and Marie Curie and other EU mobility programmes.

2. Development of contacts and preparation of mutual contracts with related universities, faculties and institutions abroad.

The objective of this multilateral cooperation is to connect the interested faculties of pharmacy in order to implement joint education programmes (for example joint study programme Erasmus Mundus), evaluation of practical workshops or summer schools with credit points, and cooperation in the 7th framework programme.

3. Create favourable conditions for foreign visiting professors and students.

In line with examples of good practice at other related European institutions, we will create models for possible inclusions of visiting professors and students, for example a parallel elective in a foreign language, methodological subjects, one-rotation practice in a foreign language, summer schools and workshops.

4. Participation in European infrastructural projects and technological platforms

Campaigns for the development of a technological platform for Innovative drugs, and major infrastructure projects, such as the Infrastructure network for clinical testing, are already underway in the EU.

5. Support actions

To set up an interactive and up-to-date web site, which will be a useful tool for all faculty partners, Slovenian and foreign professors, teachers and researchers.

REPORT on activities for international cooperation in 2007

Strengthening and intensification of international cooperation in education

The Faculty of Pharmacy runs student and teacher exchanges on the basis of programmes, for example Lifelong learning (LL), i.e. ERASMUS, CEEPUS (The Central European Exchange Programme), bilateral agreements, etc. Student practical trainings are also well organised by FFA students under the auspices of the International Pharmaceutical Students' Federation (IPSF).

Erasmus

Erasmus, one of the programmes in the Lifelong Learning umbrella programme, meets the needs for education of all formal higher education programme participants, from students to teachers and other staff. **The goal of the Erasmus programme** is to contribute to the formation of the European higher education area and increase the academic sphere's contribution to innovative processes.

The main tool for achieving these goals is the organisation of student, teacher and staff exchanges according to the formal stages of study, which means that the students can finish a part of their regular study or practical student training in one of the institutions with which the faculty has signed a cooperation agreement.

CEEPUS International Exchange Programme

In 2007, the Faculty of Pharmacy renewed 20 bilateral contracts and concluded 7 new ones. By signing agreements with 27 partner universities, we secured 48 vacancies for student and teacher exchanges (Table 1). In the academic year 2007/08, 13 students from our faculty finished a part of their study requirements abroad through the Erasmus exchange programme: Karlo Lovrič (Graz), Mojca Dobaja and Boštjan Čeh (Lisbon), Katja Mihovc and Petra Kos (Regensburg), Klara Megušar (**Prague**), Maja Natek (Berlin), Petra Šegina (Urbino), Ivana Dukovčić and Janja Klemenčič (Braunschweig), Tanja Tomšič (London), Sara Urnaut and Nina Šmid (Bonn).

16 exchange students studied at the Faculty of Pharmacy as part of the ERASMUS exchange programme: Ana Theresa Coutinho and Daniela Silva (Coimbra), Ana Claudia Correia, Sandra Coelho, Jose Ferreira, Reis Hugo (Lisbon), Gelgec Eray, Kolukisa Sada and Ibas

Aycaolus (Izmir), Genna Audrey, Elenonore Dubois and Laura Delpich (Lyon), Gregory Hoareau (Paris-Süd), Stephanie Hennen (Bonn), Inaki Fernandez and Xiana Fernandez (Santiago de Compostela).

In the academic year 2007/08, 23 students from abroad joined the undergraduate programme and 6 the postgraduate programmes at the FFA.

Assoc. Prof. Samo Kreft and Assoc. Prof. Irena Mlinarič-Raščan were in charge of the 2007 student exchange at the Faculty of Pharmacy within the Socrates/Erasmus programme. They promoted student exchange by talking to individual students and by addressing a large student audience.

The Faculty of Pharmacy has been for 10 years involved in the CII-HR-0045 Network entitled *New technologies in undergraduate and postgraduate education of medical biochemistry*, which is led by Prof. Karmela Barišič, Ph.D., from the University of Zagreb. In 2007, Assoc. Prof. Janja Marc, Chair of Clinical Biochemistry, served as the FFA coordinator.

The Faculty of Pharmacy was given a total of 12 months for hosting foreign students in Slovenia and a total of 15 months for our students and teachers abroad. We have successfully completed seven visits to foreign universities for a total period of 9 months: Universities of Zagreb and Rijeka, Croatia, and Pecs, Hungary. The FFA hosted 4 students from the University of Zagreb and a professor from the University of Rijeka for a total period of 5 months.

GALENOS Network

The GALENOS Network (www.galenos.net), whose member is also the University of Ljubljana – The Faculty of Pharmacy, was founded in 1995 in cooperation with various European Academic Institutions within the ERASMUS/SOCRATES programme of the European Commission in order to improve the education and research work of young researchers in pharmaceutical sciences in Europe. The main objective of this network is to set up a new uniform European Academic Education, which can be regarded as a facultative and complementary addition to the obtained Doctor of Philosophy title at the national level. This additional education is synonymous with the European Ph.D. in the field of advanced drug delivery systems entitled “Euro-PhD in Advanced Drug Delivery”. A special focus is given to student training for interdisciplinary work and international operations. For this purpose two foreign students, Roman Egle from Germany and Carla Cadeo from Italy, have been doing research work as part of the the Marie-Curie 6 FP EU project to receive a Ph.D. at the Faculty of Pharmacy in Ljubljana in 2007. Miha Homar, our Ph.D. student, studied at the faculty in Nancy, France. All three of them have successfully fulfilled their study requirements, finished the doctoral study and now work in the commercial sector. Proactive operations of the network and research results contribute to the increased recognition of the Faculty of Pharmacy in the wider European area.

IPSF Student Exchange Programme

Students' Section of the Slovenian Pharmaceutical Society and the Pharmaceutical Students' Association join Slovenian students of pharmacy who engage in numerous activities and projects in Slovenia as well as abroad. One of the most recognised projects abroad is the IPSF

Student Exchange Programme (also known as SEP, Student Exchange Programme), coordinated by Vesna Terbuc at the Faculty of Pharmacy.

The international professional training programme within the IPSF (International Pharmaceutical Students' Federation) enables pharmacy students to finish professional training abroad. Practical training usually takes 1 month, however, it can also extend over a period of 2 or even 3 months. Practical training can take place in a pharmacy, hospital pharmacy, industry, at the faculty or in other institutions that are somehow related to pharmacy.

In the academic year 2006/2007 (the summer of 2007), 23 students from abroad (Serbia, Portugal, Spain, Hungary, Australia, Poland, Latvia, Germany, The Czech Republic and Macedonia) did their practical training in Slovenia. The practical training took place in Ljubljana, Maribor and Kranj from the end of June to the end of September. Most of the students stayed in student dormitories. Eight of them completed their practical training at the Faculty of Pharmacy. In 2007, twenty-six Slovenian students completed their practical training abroad: in Poland (2), Turkey (1), Portugal (2), The Czech Republic (1), Serbia (1), Estonia (1), France (1), Egypt (6), Ghana (3), Spain (2), Hungary (1), Latvia (1), Finland (1), Great Britain (1), Peru (1), Armenia (1).

European Association of Faculties of Pharmacy

The European Association of Faculties of Pharmacy (EAFP) was founded in November 1992 in Paris and brings together 55 members of 180 faculties of pharmacy in the EU. The purpose of annual EAFP meetings is to discuss and exchange views on teaching and learning, on the role of pharmacists in the healthcare system and prospects of the pharmaceutical profession in the future. The annual conference of the European Association of Faculties of Pharmacy (EAFP), organised by Prof. Benita del Castillo, Dean of the Faculty of Pharmacy, Complutense University of Madrid, was held between 20–22 September 2007.

The conference focused on advancing the pedagogical process from subject orientation to goals and objectives. In plenary sections and workshops, we discussed different approaches to the implementation of the Bologna Process, different views on the content and organisation of education programmes in order to satisfy the need for knowledge in all the fields of hospital and clinical pharmacy, pharmaceutical services, industrial pharmacy and development of research potential.

Special emphasis was given to the need for increased volume and improvement of mobility schemes. The participants of the discussion suggested that the EAFP serve as a focal point to post relevant needs and exchange vacancies. Most of the participants agreed that the ECTS system enables the comparison of curricula in principle, but that the content of individual subjects should be more clearly defined. They held a firm position that the volume of project and practical work should be increased.

Table 1 – List of universities with which we have signed bilateral ERASMUS exchange agreements

	UNIVERSITY		NO. OF VACANCIES
1	A - University of Graz	http://www.uni-graz.at	1
2	B - Free University Brussels	http://www.vub.ac.be	2

3	CH - University of Basel	http://www.pharma.unibas.ch	2
4	CZ - Charles University in Prague	http://www.cuni.cz	1
5	CZ - University of Veterinary and Pharmaceutical Sciences Brno	http://www.vfu.cz	2
6	D - Friderich - Wilhelms University of Bonn	http://www.uni-bonn.de	2
7	D - Carolo - Wilhelmina Technical University of Braunschweig	http://www.tu-bs.de	2
8	D - University of Berlin	http://www.fu-berlin.de	1
9	D - University of Regensburg	http://www.uni-regensburg.de http://mail.ffa.uni-lj.si/exchweb/bin/redir.asp?URL=http://www.tu-bs.de/	1
10	EE - University of Tartu	http://www.ut.ee	2
11	ES - Complutense University of Madrid	http://www.ucm.es	2
12	ES - University of Barcelona	http://www.ub.es	2
13	ES - University of Santiago de Compostela	http://www.usc.es	1
14	F - Faculty of Pharmacy, University of Nancy	http://www.pharma.uhp-nancy.fr	2
15	F - University of Paris - Sud (Paris XI)	http://www.u-psud.fr	2
16	F - University of Limoges	http://www.unilim.fr	1
17	F - Claude Bernard University of Lyon 1	http://www.univ_lyon1.fr	2
18	HU - University of Szeged	http://www.u-szeged.hu	2
19	I - Institute of Pharmacology, Sapienza University of Rome	http://www.farmacia.uniroma1.it	2
20	I - University of Pavia	http://www.unipv.it	1
21	I - University of Pavia	http://www.uniurb.it/it/index.php	2
22	I - University of Trieste	http://www.univ.trieste.it	2
23	P - University of Lisboa	http://www.ul.pt	2
24	P - Polytechnical Institute of Coimbra	http://www.ipc.pt	2
25	TR - Ege University, Izmir	http://www.ege.edu.tr/en	2
26	TR - Hacettepe University, Ankara	http://www.hacettepe.edu.tr	3
27	UK - University of London	http://www.lon.ac.uk	2
			Total: 48

LINKING UP WITH FOREIGN HIGHER EDUCATION INSTITUTIONS OR ORGANISATIONS

1. University of Zagreb, Faculty of Pharmacy and Biochemistry: CEEPUS programme
2. Universitaet des Saarlandes, Saarbruecken, Germany/European Community: GALENOS Network
3. University of Bern, Institute of Pathology and University Hospital Basel, Switzerland;
4. Università degli Studi di Trieste, Dipartimento di Scienze Farmaceutiche, Trieste, Italia.
5. National University of Pharmacy, Kharkov, Ukraine.

VISITING PROFESSORS AND RESEARCHERS AT THE FFA

1. Prof. Peter Matyus, Ph.D., Faculty of Pharmacy, Semmelweis University, Budapest, Hungary,
2. Prof. Klara Pyntye Hod, Ph.D., Faculty of Pharmacy, Szeged, Hungary,
3. Prof. Hans E. Junginger, Ph.D., Universiteit Leiden, The Netherlands,
4. Assist. Prof. Radojka Pantović, Ph.D., University of Rijeka, Croatia,
5. Prof. Andreas Zimmer, Ph.D., Institute of Pharmaceutical Technology, Graz, Austria,
6. Prof. Ian Chopra, Ph.D., Antimicrobial Research Centre, University of Leeds, Great Britain,
7. Prof. Albert I. Wertheimer, Ph.D., School of Pharmacy, Temple University, Philadelphia, USA,
8. Prof. Françoise Bressolle, Ph.D., University of Montpellier, France.
9. Helene Barreteau, Ph.D., Enveloppes Bactériennes et Antibiotiques IBBMC, Université de Paris-Süd, France,
10. Audrey Boniface, Ph.D., Enveloppes Bactériennes et Antibiotiques IBBMC, Université de Paris-Süd, France

VISITING FFA PROFESSORS (ON TRAINING) ABROAD

a) Professors

1. Prof. Marija Sollner Dolenc, Ph.D.: Laboratory of Toxicology, Department of Pharmacological Sciences, Milan, Italy,
2. Assoc. Prof. Stanislav Gobec, Ph.D.: Université de Paris-Sud, Enveloppes Bactériennes et Antibiotiques, Orsay, France,
3. Assoc. Prof. Borut Božič, Ph.D.: Kings College, University of London, Great Britain,
4. Assoc. Prof. Janja Marc, Ph.D.: Several visits (Croatia, Hungary, Poland) within the Ceeplus programme.
5. Assoc. Prof. Irena Mlinarič-Raščan, Ph.D.: Institute of molecular pathology in Vienna, Austria and University of Vienna, Austria, Assist. Prof. Marko Anderluh, Ph.D.,: Università di Milano, Dipartimento di Chimica Organica e Industriale, Milan, Italy,
6. Assist. Prof. Anamarija Zega, Ph.D.: Laboratoire de Recherche Moleculaire sur les Antibiotiques, Centre de Recherces Biomedicales des Cordelier, Universite Paris, France

b) Researchers

1. Branka Rozman (Lyon, France)
2. Tihomir Tomašić (Marburg, Germany)
3. Andreja Kovač (Leeds, Great Britain)
4. Alenka Zvonar (Lyon, France)
5. Ilija Ilić (Szeged, Hungary)
6. Roman Šink (Paris, France)
7. Simona Mencej (Edinburgh, Great Britain)

Visits and lectures of foreign professors at the FFA in 2007:

1. Prof. Jože Delic, Ph.D., CEA, Laboratory for onco-hematology, France: “Leukemogenesis during B chronic Lymphocytic leukaemia”;
2. Prof. Alexander T.Florence, Ph.D., School of Pharmacy, University of London, GB: “Pharmaceutical application of nanotechnology” and “Technology of nanosystems”;
3. Helene Barreteau, Ph.D., Université de Paris-Sud, Orsay, France: “HPCL determination of the pool levels of undecaprenyl phosphate and its derivatives in bacterial membranes”;
4. Dominique Mengin-Lecreulx, Ph.D., Université de Paris-Sud, Orsay, France: “Investigations of the metabolism of undecaprenyl phosphate, a carrier lipid essential for bacterial cell wall biosynthesis”;
5. Prof. Hans E.Junginger, Ph.D., Leiden/Amsterdam Center for Drug Research, University of Leiden, The Netherlands: “Vesicles in Cosmetics: Science between reality and wishful thinking” and “New Drug Delivery Systems: Promises to the Patient”;
6. Prof. Andreas Zimmer, Ph.D., Institut of Pharmaceutical Technology, Graz, Austria,: “Electrical Double Layer and its importance in the stabilization of colloid dispersions” and “Eye preparations”.

International activities of the FFA—teacher and student exchanges in 2007:

1. *Teacher exchanges*

1. a)	Number of visiting FFA teachers and cooperators abroad:	14
1. b)	Number of visiting teachers and cooperators at the FFA:	19

2. *Student exchanges*

2.1 *Socrates/Erasmus exchanges:*

2.1. a)	Number of FFA exchange students abroad:	8
2.1. b)	Number of foreign students at the FFA:	9

2.2 *Ceepus exchanges:*

2.2. a)	Number of FFA exchange teachers abroad:	2
2.2. b)	Number of foreign teachers at the FFA:	2
2.2. c)	Number of FFA exchange students abroad:	/
2.2. d)	Number of foreign students at the FFA:	/

2.3. *Galenos exchanges:*

2.3. a)	Number of FFA exchange students abroad:	1
2.3. b)	Number of foreign students at the FFA:	2

SCIENTIFIC, RESEARCH AND PROFESSIONAL ACTIVITIES OF THE FFA

Research work of the faculty is divided into three programme groups:

Pharmaceutical technology (code 501), headed by Prof. Aleš Mrhar, Ph.D., combines the Chair of Biopharmacy and Pharmacokinetics, the Chair of Pharmaceutical Technology and the Chair of Social Pharmacy.

Pharmaceutical chemistry (code 502), headed by Prof. Danijel Kikelj, Ph.D., combines the following chairs: Chair of Pharmaceutical Chemistry, Chair of Clinical Biochemistry and Chair of Pharmaceutical Biology.

Pharmaceutical biotechnology (code 503), headed by Prof. Janko Kos, Ph.D., combines: The Chair of Pharmaceutical biology, the Chair of Clinical Biochemistry and the Department of Biotechnology at Jožef Stefan Institute.

Research work of groups consists of basic and applied research projects, research within the national research programmes, research for direct clients from the national and foreign pharmaceutical and chemical industry, and work on projects financed by the European Union.

Many basic research projects and one applied and targeted research programme (TRP) were carried out at the faculty in 2007.

Basic research projects:

- *Proteomics as a tool for monitoring biosynthesis processes* (Prof. Janko Kos, Ph.D.).
- *Thiopurine pharmacogenetics—novel diagnostics and individualized therapy* (Prof. Irena Mlinarič Raščan, Ph.D.).
- *Lectins as modulators of antitumour immune response* (Prof. Janko Kos, Ph.D.).
- *Use of inorganic particles for particle design and their potential application in systems with modified release* (the project is run at the Institute of Chemistry, together with Prof. Stane Srčič, Ph.D.).
- *Genetic factors of women's reproductive health* (the project is run at the University Clinical Centre, together with Assoc. Prof. Irena Mlinarič Raščan).
- *JKR—Nondestructive method for study and monitoring of polymorphisms in heterogeneous pharmaceutical systems* (the project is conducted by the University of Ljubljana, the Jožef Stefan Institute and the Jožef Stefan Postgraduate School)

Applied research projects:

- *Role of the proteolytic systems in the malignancy of brain tumour stem cells* (the project is run at the International Institute of Biology, together with prof. Janko Kos, Ph.D.)

Targeted research programme (Science for peace and security):

- *Food supplements for optimal diet in extreme conditions* (Assoc. Prof. Samo Kreft, Ph.D.).

CENTRE OF EXCELLENCE

The FFA applied to a call for applications for EU ESSR Structural Funds and received the Centre of Excellence (CE) “Biotechnology with pharmacy”. The CE comprises two projects: RR1 and RR2. The RR1 “Development of new drugs and biochips” project is run at the Faculty of Pharmacy, headed by Prof. Borut Štrukelj, Ph.D.

Integrated EU project of the 6th framework programme EUR-INTAFAR

In 2005, the first year of the EUR-INTAFAR project (Inhibition of New Targets for Fighting Antibiotic Resistance) was completed. The project is carried out in cooperation with the Chair of Pharmaceutical Chemistry. There are 16 partners from 6 European countries involved in the project that started in January 2005 and will be running for 5 years: Belgium, France, The Netherlands, Great Britain, Germany and Slovenia. The total value of the project is EUR 11.3 million. The integrated project coordinator is Prof. Jean-Marie Frère, Ph.D., from the University of Liege, the head of the project at the Faculty of Pharmacy is Assoc. Prof. Stanislav Gobec, Ph.D.

Development of bacterial strains that are resistant to one or more antibiotics is becoming a major global health problem. So discovering new antibacterial substances is one of the most important tasks of pharmacy and related biosciences. In the scope of the EUR-INTAFAR project, we are looking into bacterial peptidoglycan that uses its strength to protect bacteria against outside conditions, helping them to survive. Many known antibiotics, such as penicillins and cephalosporins, already act in the way that they prevent the biosynthesis of bacterial peptidoglycan. The peptidoglycan synthesis includes intracellular, membrane and extracellular enzymes, which represent new and so far unused target sites. With the help of modern medicinal chemistry we are designing compounds that act on these new targets and prevent the biosynthesis of peptidoglycan, causing the destruction of bacteria.

By participating in an important project within the 6th framework programme, the Faculty of Pharmacy is part of the cutting-edge scientific research area in Europe.

Integrated EU project of the 6th framework programme CANCERDEGRADOME

The Cancerdegradome project studies the role of proteolytic enzymes in the development and progression of cancer and searches for new innovative methods for better diagnosis and treatment of cancer. The project group is made up of 41 researchers from 13 European countries. The project manager is Prof. Janko Kos, Ph.D. The Faculty of Pharmacy, University of Ljubljana, cooperates with Krka, d. d., and the National Institute of Biology. The project, to run from 2004 to 2008, will be co-financed by the EU in the amount of EUR 10.6 million. The project group research focuses primarily on breast, prostate, intestinal and skin cancer. Researchers are trying to get the best results by combining the knowledge and experiences in the fields of genomics, proteomics, bioinformatics, molecular diagnostics and pathology, animal models with inactivated genes, synthesis chemistry, protein structure, tumour markers and development of new drugs. The contribution of the research group at the Faculty of Pharmacy is oriented mostly towards the preparation and evaluation of new serum indicators for the prognosis and diagnosis of malignant diseases.

Cooperation of the UL – the FFA in the bodies of the Agency for Medicinal Products and Medical Devices of the Republic of Slovenia

The professors of the Faculty of Pharmacy sit on the following committees:

Drug committee:

Prof. Danijel Kikelj, Ph.D.

Prof. Aleš Mrhar, Ph.D.

Prof. Joško Osredkar, Ph.D.

Prof. Borut Štrukelj, Ph.D.

Assoc. Prof. Mirjana Gašperlin, Ph.D.

Assoc. Prof. Samo Kreft, Ph.D.

Assist. Prof. Andrej Umek, Ph.D.

Veterinary committee:

Prof. Slavko Pečar, Ph.D.

Prof. Stanko Srčič, Ph.D.

Clinical Trials Committee:

Prof. Aleš Mrhar, Ph.D.

Commission for Registration of Medical Devices:

Prof. Julijana Kristl, Ph.D.

Pharmacopoeia Committee:

Prof. Jelka Šmid-Korbar, Ph.D.

Prof. Borut Štrukelj, Ph.D.

Commission for Preparing Formularium Slovenicum within the European Pharmacopoeia:

Prof. Jelka Šmid-Korbar, Ph.D.

Assoc. Prof. Mirjana Gašperlin, Ph.D.

Assoc. Prof. Franc Vrečer, Ph.D.

Assist. Prof. Aleš Obreza

Committee on Herbal Medicinal Products, EMEA:

Assoc. Prof. Samo Kreft, Ph.D.

Working Group for Biotechnology Drugs, EMEA:

Prof. Borut Štrukelj, Ph.D.

Committee for Medicinal Products for Veterinary Use, EMEA:

Prof. Stanko Srčič, Ph.D.

Pathobiology group of the European Organisation for Research and Treatment of Cancer (EORTC):

Prof. Janko Kos, Ph.D.

Cooperation of the UL – the FFA in the bodies of the Ministry of Health

Health Council:

Prof. Aleš Mrhar, Ph.D.

Expanded Professional Board of Pharmaceutical Services:

Prof. Aleš Mrhar, Ph.D.

Prof. Slavko Pečar, Ph.D.

Assoc. Prof. Vojko Kmetec, Ph.D.

Expanded Professional Board of Laboratory Diagnostics:

Prof. Jana Lukač Bajalo, Ph.D.

Assoc. Prof. Janja Marc, Ph.D.

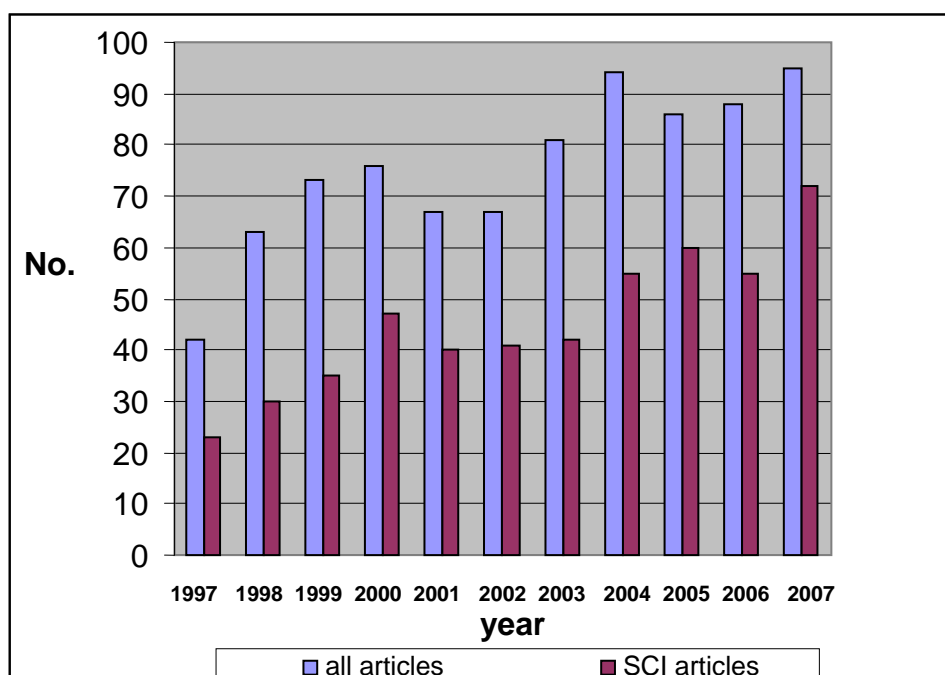
Assoc. Prof. Borut Božič

Chemicals Bureau:

Assist. Bojan Doljak, Ph.D.

REVIEW OF PUBLISHED WORKS

Scientific and professional achievements are expressed as a number of publications, i.e. a cumulative number of reviewed national and foreign publications, and as a number of publications in journals with the SCI impact factor. The researchers of the Faculty of Pharmacy have published a total of 95 articles, 72 in journals with an impact factor. The number of publications has—despite the heavy pedagogical and professional workload of the faculty workers—increased in comparison to the previous years. The number of articles in journals with an impact factor has increased the most in comparison to the previous years, which indicates an above-average improvement of research quality.



Number dynamics of all reviewed publications in SCI journals in the period from 1997 to 2007

The number of citations from published works also represents a relevant research benchmark. In the last decade, researchers of the Faculty of Pharmacy recorded over 3,000 direct citations, the number of citations in 2007 has increased by 10.5% compared to the previous year.

On the basis of Article 18 of the Rules on Conditions and Methodology of Choosing and Financing Projects of the Ministry of Education, Science and Sport, which stipulates the requirement for appropriate research work and the basis for getting a research project or supervision of a young researcher (at least one article as the sole author in the last 3 years or an appropriate number of articles as the co-author), we can see that all the FFA Chairs meet the minimum requirements.

5. STUDENT PROGRESS REPORT FOR 2007

Pharmacist Month

The 4th Pharmacist Month took place at the beginning of the academic year 2007/08. In October and November, we welcomed first-year students and made their first days of study interesting.

Many dynamic and intensive activities took place as part of the project. At the faculty hall there was an information stand, a book fair took place (new and second-hand books) and all students became familiarised with extracurricular activities (flyers and presentation). Also held was the so-called Mobility day. Students were presented with possibilities for study, exchanges and practical training abroad, and many other international events. The Opportunity Fair, where the students were presented with possibilities after finishing their study, also registered a good turnout. The Pharmacist Month also included the following activities:

- Distribution of information folders with various materials (Spatula, introduction of extracurricular activities at the FFA, Ffarmakopeja, old term papers and exams, important information, etc.);
- Incentive weekend;
- Working weekend;
- Evening panel discussions;
- Issuing of Ffarmakopeja;
- Issuing of the Spatula newsletter;
- Professional and entertaining trip to Bratislava;
- Bowling;
- Paintball;
- Welcome parties.

Evening panel discussions

Students, the faculty, sponsors and other professional workers have expressed the need for evening panel discussions on different topics. The discussions all have one thing in common: they represent additional extracurricular education familiarising students with lifelong learning, which is particularly important in the pharmaceutical profession.

In 2007, we held evening panel discussions on the following topics:

- Pain
- Diabetes—modern approach to treatment and interactions
- Cloning: Danger or an opportunity for pharmacy and medicine?
- Doping
- Smoking
- High cholesterol level
- Osteoporosis

We kept track of the attendance at evening panel discussions, just like in the previous year. At the end of an academic year, students with sufficient attendance percentage receive a certificate for year-round additional extracurricular education.

Spatula—Nos. 38, 39, 40, 41,

Spatula is a periodical and the only gazette of the students of pharmacy. Articles are generally published in the Slovenian language, but if written by foreigners, they are published in English. Spatula is published 4 times a year.

Regular gazette sections are:

- Editorial
- Professional articles
- Evening panel discussions
- Presentation of an FFA chair
- Our assistants
- Travelogue
- Programme of events
- International events
- Hot topics
- Photography contest
- Humour
- Sports
- Report on extracurricular activities
- Supplement

Patient consultation

The project is recognised among pharmacy students as well as in the wider pharmaceutical sphere. An individual competition is divided into two stages. The first consists of a lecture about a disease and a lecture about a drug. The second part is a competition and takes place directly at the pharmacy. The competition involved treatment of an imaginary patient. Practical application of theory, performance, communication with the patient and general impression were graded. This competition is therefore suitable for freshmen and final-year students alike.

The project was carried out in three stages: two semi-finals and the finals. The first four competitors from each qualifying round met in the finals to compete for attractive prizes such as participation in the international summer camp of pharmacists and the IPSF convention.

For every competition a booklet with abstracts of lectures and instructions for the competition was published. Two copies of the booklets are kept at the FFA library.

Medical team - Diabetes

This is a project that follows modern guidelines of clinical practice and enables students of medical professions (pharmacy, medicine, nursing) to take up additional professional training in a certain field and become familiarised with team and interdisciplinary work. It is based on cooperation of future medical workers in resolving real-life clinical cases, familiarising with hospital work and improvement of communication skills.

The project consists of two parts: Theoretical part, where students learn about different aspects of clinical problem treatment (medical, pharmaceutical and psychological, etc.), and practical workshops, where students under professional supervision test the acquired knowledge and search for an optimal overall solution by analysing live patients at the Ljubljana Medical Centre.

Leciklarna

In April, students organised a campaign called “Leciklarna” to collect drugs past their expiry date. The collecting was carried out on all the Saturdays of the month in the central region of Slovenia—collection stations were set up in Ljubljana, Kamnik, Grosuplje, Domžale and Vrhnika. The collecting also took place at the Faculty of Pharmacy. Thanks to good media coverage among others, the response of the public exceeded our expectations. We have collected 17,795 items of unused drugs, of which almost 15,000 were past the expiry date. At the same time we provided advice about proper use and disposal of drugs, and drew attention to the weak legislation in this area.

12th International Pharmaceutical Summer Camp

- Lectures and workshops on hypertension;
- Presentation of the pharmaceutical profession in Slovenia,
- Mobility of students;
- Raising awareness of the role of a pharmacist in the treatment of hypertension, comparison with foreign higher education institutions;
- Public awareness campaign on high blood pressure and blood pressure monitoring among inhabitants of Mežica, Prevalje and Ravne na Koroškem;
- Intercultural learning;
- Preparation of lecture and workshop abstracts in the form of a poster, to be put up at the EPSA and IPSF conventions;
- Knowledge of activities, projects and associations of students of other faculties; exchange of views and experiences in this field;
- Learning about the Slovenian pharmaceutical industry (visit to the LEK factory in Prevalje),
- Reinforcing international reputation of the Faculty of Pharmacy, University of Ljubljana;
- Professional exchange of knowledge and views;
- Compilation of lecture and workshop abstracts;
- Cooperation with foreign higher education institutions;
- Rich social programme: Picnic, photo-orienteeing, tour of a mine, one-day excursion, swimming, juggling workshop, astronomy workshop, body painting, quiz show, theme parties.

THREEEN Slovenia–Greece–Romania

Like in previous years, students have been very active on the international scene. In March, we organised a trilateral exchange of pharmacy students on the topic “Problems of sexuality and sexually transmitted diseases among the youth of Europe”, the first of three parts of the exchange.

The project included expert lectures on the problems of sexuality and sexually transmitted diseases (STD) among the youth, presentation of student groups’ work related to the main theme of the exchange: sexuality, sexual orientation, sexually transmitted diseases, social discrimination of the infected, birth control, teenage pregnancy, the role of pharmacists, etc. During the exchange, students drew parallels between STD incidence and sexual activity of the youth in the three countries. Field workshops have also been organised. Information brochures and other material on sexually transmitted diseases were handed out in Ljubljana, Koper, Portorož, Piran and Izola. The program was accompanied by a rich social programme,

which included the traditional pharmacist party, guided tour of Ljubljana and Piran, tour of the Faculty of Pharmacy, trip to Bled, visit to Postojna Cave, a traditional Slovenian dinner with wine tasting, bowling and party with students in the Reception programme of the International Office of the Student Organisation of the University of Ljubljana.

Volunteer work at the Faculty of Pharmacy

Student volunteers have been active for almost the whole year. The Humanitarian Working Group was founded in March, when a few students, as future pharmacists, teamed up in a bid to help other people. We immediately started collecting children's toys and picture books, which we then donated to charity organisations. Already the first collection campaign earned an impressive response of students and employees of the faculty, so we decided to continue with our work. We first officially introduced ourselves at the Slovenian Pharmaceutical Society symposium, where we raised money by selling toys. With this money we were able to buy sleeping bags and donate them to the Day Centre for the Homeless. The new academic year in October gave birth to new ideas and new wishes. We collected warm clothing at the faculty, which was then donated to families that contacted us through our advert in the newspaper. Our very successful bazaar, together with the Christmas ceremony, followed in December. The ceremony programme included a presentation of our past work at the faculty, along with a travelogue on India, and an auction of gifts made by students themselves. With the money raised we bought educational toys and gave them as Christmas gifts to the children from the Asylum Home in Ljubljana.

World Diabetes Day

14 November is the World Diabetes Day, as declared by the World Health Organisation (WHO). In 2007, we were actively involved, for the second time, in the organisation and staging of diabetes-related events that take place across Slovenia on this day.

In the week from 12 to 16 November, a flyer with basic information on diabetes was available for students of the faculty. We helped check blood glucose levels in pharmacies across the Gorenjska region between 13 and 15 November. In addition, we assisted visitors in measuring blood pressure and body weight, underscoring the importance of a healthy lifestyle.

On Wednesday 14 November, the World Diabetes Day, Ljubljana's Kongresni trg was very busy. Students were promoting a healthy lifestyle by handing out flyers, and later many of them participated in the March against diabetes across Ljubljana, which started at 5 p.m.

The day ended with an evening lecture on interactions and modern approach to diabetes treatment. The lecture broadened our knowledge about diabetes.

IPSF Student Exchange Programme

Thanks to quality professional training (very good cooperation with the faculty, pharmaceutical industry, research institutes and pharmacies) and rich social programme (Reception, ŠOU, IO), Slovenia is one of the most popular destinations. In Slovenia, students can complete their professional training in pharmacies, the industry, at the faculty... However, a lot of Slovenian students take their practical training abroad.

Other projects in 2007

- ***Ffarmakopeja***

This monthly information bulletin, with a print run of 700 copies, is aimed at informing the FFA students about faculty activities.

- ***Mailing lists***

For up-to-date information on faculty activities for FFA students.

- ***Posters, information flyers about projects underway***

- ***Web site***

Web sites are very diverse and dynamic, offering students up-to-date information about activities at the FFA as well as study literature. We take great pride in the fact that our web site recorded more than 450,000 visits in one year alone.

- ***Professional and entertaining trips***

Two short trips abroad (November, April) for sightseeing and fun, and a visit to the representation offices of Slovenia's pharmaceutical industry or pharmaceutical museums. The primary purpose is to promote student mobility and socialising with colleagues.

- ***Christmas trip to Trieste***

Like last year, we went on a trip to a large nearby city around Christmas. We visited the Trieste faculty and met with the city's association representatives, visited the local sights and the Christmas Fair.

- ***Skiing on Kanin***

The skiing weekend on Kanin attracted 61 students of the Faculty of Pharmacy and 50 colleagues from the Faculty of Mechanical Engineering.

- ***Night sledding at Ljubelj***

- ***Hiking to Krn***

- ***Bowling and go-cart competitions***

- ***Paintball***

- ***Collaboration on projects "Aware, not stoned", "Teddy Bear Hospital" and "Virus" (Slovenian Medical Students' International Committee)***

Participation in projects

- ***30th EPSA Annual Convention (The Netherlands, April 2007)***

The convention of the European Pharmaceutical Students' Association is a legislative, professional and social event. EPSA requires that its member organisations delegate two official delegates to the General Assembly. Their role is to establish contacts with organisations and represent the views of the Slovenian pharmacy students. They present the

association's activities in the past year, often also our system of study, to colleagues from Europe.

Other participants of the convention are engaged in the professional part of the programme, where a topical subject is discussed, this year "Pharmacist's role in society". Attendance at lectures represents a part of the requirement a student must fulfil to receive the Lifelong Learning Certificate (LLC). The convention also includes dynamic social activities.

- ***4th EPSA Autumn Assembly (Turkey, October 2007)***

The EPSA Autumn Assembly is also a legislative, professional and social event. It includes the EPSA General Assembly (compulsory attendance of two delegates) and a professional programme, which is organised in cooperation with the ESCP (European Society of Clinical Pharmacy).

The purpose of the meeting is to educate students about the projects run under the auspices of EPSA and to speed up their implementation in the member states, set the guidelines for future work and increase student mobility.

- ***8th EPSA Summer University (Malta, July 2007)***

The EPSA Summer University is the first opportunity for newly elected leaders of EPSA working groups to meet (*EPSA Working Committee Directors*). Members of the EPSA committees and subcommittees convene throughout the year to develop new ideas and define guidelines for the future. This year, three members of the Slovenian Pharmaceutical Students' Association sat on the committees.

The event is also a professional and social gathering, giving students a chance to learn more about the chosen topic and make new contacts with foreign professors and colleagues. The Summer University is yet another EPSA event aiming to increase mobility and expand the knowledge of pharmacy students.

- ***52nd IPSF Convention (Taiwan, July 2007)***

The annual convention is a legislative meeting of the IPSF Federation and attendance is compulsory for all its members. By attending general assemblies, workshops about strategic planning and regional meetings, the Slovenian Pharmaceutical Students' Association is involved in the decision-making process regarding the federation's activities, supporting the views and interests of the Slovenian pharmacy students.

The convention is also an opportunity for us to communicate with the IPSF executive committee and present the association's activities. The most interesting projects are presented at the meeting of representatives, which is part of the convention programme.

The convention programme also includes a meeting of student exchange programme coordinators, promotion of professional training in Slovenia, and establishing personal contact with the coordinators, which will facilitate the organisation of practical training in the year to come.

Because of the duration limit of the convention and parallel programme of workshops, the convention requires the attendance of two official delegates. One takes the role of a contact person and the other of a practical training coordinator.

- ***WHSS - World Healthcare Students' Symposium (Portugal, November 2007)***

This is a joint project of the European and the International Associations of Pharmacy Students (EPSA and IPSF), Medical Students (EMSA and IMFSA) and Nursing Students (ENSA and INSA). The purpose of the project is to bring the students of pharmacy, medicine

and other health sciences closer and reach a higher level of awareness, cooperation and better patient treatment.

The symposium featured lectures and workshops of renowned speakers from all over the world. The emphasis was on promoting interdisciplinary cooperation between individual professions.

- ***QUATRINO Slovenia–Greece–Romania–Spain***

It is a multilateral pharmacy student exchange: the return THREEEN exchange with Greece and Romania, also featuring pharmacy students from Spain. The exchange on Drug Abuse took place in December in Romania. By participating in the exchange, we joined the EPSA TWINNET project, which involves planning exchanges on the same topic all over Europe for research purposes, comparing results and providing an overview at the European level.

The project included the presentation of results of individual student group research work on the basic theme, and field workshops and distribution of information material about the dangers of drug abuse.

- ***EPSA Executive Meetings***

The EPSA Executive Committee convenes at obligatory meetings every year. They make current working decisions for EPSA to ensure continuity of work and completion of the EPSA mission.

Boštjan Čeh, Slovenian student and member of the Slovenian Pharmaceutical Students' Association, in the function of Mobility Officer, is also a member of the European Association Executive Committee this year. Two members of the Slovenian Pharmaceutical Students' Association, Nanča Čebren Lipovec ("Public Health" group leader) and Tijana Markovič ("Mobility" group leader), have served as EPSA Working Committee Directors in the past year.

6. THE GRADUATES IN 2007

6.1 GRADUATES IN LABORATORY BIOMEDICINE

Baruca Urška (supervisor: Mlakar Uroš, co-supervisor: Pajič Tadej): Določanje katalitične aktivnosti glutamat-dehidrogenaze v limfocitih pri zdravih in pri bolnikih z infekcijsko mononukleozo = The determination of catalytical activity of glutamate-dehydrogenase in lymphocytes at healthy people and at patients with infectious mononucleosis, COBISS.SI-ID: 2099569.

Bijec Neja (supervisor: Mlakar Uroš, co-supervisor: Podgornik Helena): FISH preiskava na odtisnjencih kostnega mozga = FISH analysis on bone marrow aspirate smears, COBISS.SI-ID: 2173553.

Cverlin Romana (supervisor: Černe Darko): Merjenje koncentracije končnih produktov napredovanje glikacije pri bolnikih na kontinuirani ambulantni peritonealni dializi = Measurement of glucose degradation products in patients on continuous ambulatory peritoneal dialysis, COBISS.SI-ID: 2076017.

Čarga Jana (supervisor: Osredkar Joško, co-supervisor: Jerin Aleš): Vpliv ogljikohidratnega napitka na zmanjšano občutljivost na inzulin po operacijah debelega črevesa = The effect of oral carbohydrate-containing fluid on postoperative insulin resistance after colonic surgery, COBISS.SI-ID: 2047857.

Črnjavič Anja (supervisor: Skitek Milan, co-supervisor: Krnjak Ljuba): Proučevanje celic granulocitne vrste z uporabo pretočne hemocitometrije in optičnega mikroskopa = Study granulocytes types of cells using flow cytometry and optical microscope, COBISS.SI-ID: 2142577.

Farkaš Maja (supervisor: Osredkar Joško): Primerjava elektroluminiscenčne in fluorescentne metode za določanje biokemičnih označevalcev v prvem trimesečju nosečnosti = Comparison between electroluminiscent and fluorescent method to determine biochemical marks in first trimester of pregnancy, COBISS.SI-ID: 2116977.

Farkaš Petra (supervisor: Sollner Dolenc Marija): Spremljanje tehnoloških odpadnih vod, ki se odvajajo na čistilno napravo Ljutomer = Industrial waste water monitoring, drained to the treatment plant Ljutomer, COBISS.SI-ID: 2167665.

Filipović Goran (supervisor: Marc Janja, co-supervisor: Furlan Danijela): Uporabnost retikulocitnih parametrov pri spremljanju anemije bolnikov na hemodializi = Clinical utility of reticulocytes indexes at monitoring of anemia in hemodialysis patients, COBISS.SI-ID: 2093169.

Garb Valerija (supervisor: Mlinarič-Raščan Irena): Izdelava fluorescenčno označenih trdnih lipidnih nanodelcev in proučevanje njihove lokalizacije v celicah = Preparation of fluorescently labeled solid lipid nanoparticles and investigation of their localization in the cells, COBISS.SI-ID: 2127217.

Gorenc Marko (supervisor: Osredkar Joško, co-supervisor: Milić Radoje): Vloga in uporabnost topnega transferinskega receptorja za oceno zaloga železa pri populaciji športno aktivnih žensk = The role and use of serum soluble transferrin receptor in estimating the level of iron in the population of sportswomen, COBISS.SI-ID: 2078065.

Gros Karolina (supervisor: Osredkar Joško): Primerjava radioimunološke in fluorescenčne metode za določanje celotnega testosterona v serumu = Comparison of radioimmunoassay and fluorescentic method for definition of complete testosterone in serum, COBISS.SI-ID: 2116721.

Hohler Petra (supervisor: Sollner Dolenc Marija, co-supervisor: Nadrah Kristina): Vpliv testnih pogojev na merjenje IC50 antagonistov fibrinogenega receptorja v in vitro testih = The effects of test conditions on fibrinogen receptor antagonists IC50 in in vitro tests, COBISS.SI-ID: 2199409.

Ivković Urška (supervisor: Osredkar Joško): Klinični pomen določanja tumorskega označevalca antigena nuklearnega mitotičnega proteina pri raku sečnega mehurja = Clinical application of nuclear matrix protein 22 in the management of bladder cancer, COBISS.SI-ID: 2143089.

Klemenčič Urška (supervisor: Osredkar Joško): Primerjava različnih imunokemijskih metod za določanje paratiroidnega hormona v serumu = Comparison of different immunochemistry methods for determination of parathyroid hormone in serum, COBISS.SI-ID: 2197105.

Kocić Aleksandra (supervisor: Skitek Milan, co-supervisor: Krnjak Ljuba): Primerjava antikoagulantov K2 EDTA in K3EDTA za oceno hematoloških parametrov na hematološkem analizatorju GEN-S = Comparison of anticoagulants K2EDTA and K3EDTA for complete blood counts on hematology analyzer GEN-S, COBISS.SI-ID: 2120561.

Konovšek Vesna (supervisor: Lukač-Bajalo Jana, co-supervisor: Krivec Štefka): Vrednotenje deleža transferina z zmanjšano vsebnostjo ogljikovih hidratov (CDT) pri sindromu odvisnosti od alkohola = Evaluation of carbohydrate - deficient transferrin (CDT) in the alcohol dependence syndrome, COBISS.SI-ID: 2095729.

Koželj Mateja (supervisor: Božič Borut, co-supervisor: Sodin-Šemrl Snežna): Primerjava izražanja tkivnega faktorja v različnih tipih humanih endotelijskih celic = Comparison of tissue factor expression in different types of human endothelial cells, COBISS.SI-ID: 2180209.

Kuzman Jasna (supervisor: Božič Borut, co-supervisor: Gobec Lidija): Protein S-100 kot biokemični serumski označevalec pri bolnikih s poškodbo glave = Protein S-100 as biochemical serum marker of traumatic brain injury, COBISS.SI-ID: 2227569.

Mikuž Janja (supervisor: Sollner Dolenc Marija, co-supervisor: Kočevar Jasna): Določanje koncentracije proteinov z metodo po Kjeldahlu in biuretom = Determination of protein by Kjeldahl and biuret method, COBISS.SI-ID: 2163057.

Pišec Natalija (supervisor: Božič Borut, co-supervisor: Vidan-Jeras Blanka): Vpeljava encimsko-immunske metode za določanje topnega antigena CD30 v serumu = Introduction of enzyme-immune method for determination of soluble antigen CD30 in serum, COBISS.SI-ID: 2092913.

Poljašević Plavša Vesna (supervisor: Skitek Milan): Proučevanje pretočne citometrije v osnovni urinski analizi = Research of flow cytometry in basic urine analysis, COBISS.SI-ID: 2071409.

Purnat Mateja (supervisor: Božič Borut). Vpliv seruma na elektrooksidacijo imunoglobulinov razreda G = The influence of serum on electro-oxidation of G class immunoglobulins, COBISS.SI-ID: 2065777.

Remiaš Nike (supervisor: Sollner Dolenc Marija, co-supervisor: Roškar Robert): Uporaba LC-MS pri identifikaciji benzodiazepinov = The use of LC-MS in identification of benzodiazepines, COBISS.SI-ID: 2168177.

Robič Katja (supervisor: Božič Borut, co-supervisor: Gorenjak Maksimiljan): Optimizacija metode za določanje fruktozamina na avtomatskem analizatorju = Optimization of fructosamine defining method on automatic analyzer, COBISS.SI-ID: 2133105.

Romih Petra (supervisor: Marc Janja, co-supervisor: Gorenjak Maksimiljan): Uporabnost pretočne citometrije pri ugotavljanju okužbe sečil = Utility of a flow cytometry to find out of urinary tract infections, COBISS.SI-ID: 2234737.

Smrekar Suzana (supervisor: Lukač-Bajalo Jana, co-supervisor: Furlan Danijela): Pogostost predanalitskih napak v diagnostičnem laboratoriju in korektivni ukrepi = Frequency of preanalytical errors in diagnostic laboratory and corrections, COBISS.SI-ID: 2142833.

Šporar Elena (supervisor: Mlakar Uroš, co-supervisor: Podgornik Helena): Določanje retikuliranih trombocitov s pretočno citometrijo = Reticulated platelets determination by flow cytometry, COBISS.SI-ID: 2185073.

Šuštar Martina Tina (supervisor: Skitek Milan): Uporaba mikrovalovne pečice pri razklopu polne krvi za analizo živega srebra = Whole blood microwave digestion in mercury analysis COBISS.SI-ID : 2216305.

Ulčar Barbara (supervisor: Božič Borut, co-supervisor: Bilač-Krašnja Mojca): Preverjanje ustreznosti priporočenih referenčnih vrednosti za ščitnične hormone = Verification of appropriateness of recommended reference values for thyroid hormones in serum, COBISS.SI-ID: 2133361.

6.2 MASTERS OF PHARMACY

Abrahamsberg Jana (supervisor: Gobec Stanislav, co-supervisor: Lanišnik-Rižner Tea): Derivati antranilne kisline kot inhibitorji človeške hidroksisteroid-dehidrogenaze AKR1C1 = Derivatives of anthranilic acid as inhibitors of human hydroxysteroid dehydrogenase AKR1C1, COBISS.SI-ID: 2141553.

Ajd Martina (supervisor: Gobec Stanislav, co-supervisor: Kovač Andreja): Sinteza in vrednotenje hidroksimetilkarbonilnih analogov prehodnega stanja kot potencialnih inhibitorjev D-alanil-D-alanin ligaze = Synthesis and evaluation of hydroxymethylcarbonyl transition-state analogs as potential inhibitors of D-alanyl-D-alanine ligase, COBISS.SI-ID: 2112625.

Avbar Alenka (supervisor: Osredkar Joško, co-supervisor: Kosmač Nina): Pomen koncentracije srčnega troponina I pri operacijah premostitve zožitev venčnih arterij = The role of cardiac troponin I concentration in coronary artery bypass surgery, COBISS.SI-ID: 2050417.

Bajc Aleksander (supervisor: Grabnar Iztok, co-supervisor: Tušar Livija): Validacija aplikacije SAS za statistično analizo bioekvivalenčnih raziskav = Validation of SAS application for statistical analysis of bioequivalency study, COBISS.SI-ID: 2132593.

Balorda Ana (supervisor: Štrukelj Borut, co-supervisor: Bratkovič Tomaž): Priprava in uporaba bakteriofagne predstavitvene knjižnice v iskanju peptidnih ligandov esencialnega bakterijskega encima = Phage display library amplification and its use in search of peptide ligands that bind to an essential bacterial enzyme, COBISS.SI-ID: 2179185.

Barič Miha (supervisor: Zega Anamarija): Načrtovanje in sinteza substituiranih hidrazidov s potencialnim protibakterijskim delovanjem = Design and synthesis of substituted hydrazides with potential antibacterial activity, COBISS.SI-ID: 2050673.

Baroš Mirjana (supervisor: Zega Anamarija, co-supervisor: Peterlin-Mašič Lucija): Načrtovanje, sinteza in vrednotenje potencialnih inhibitorjev encimov MurC in MurD s hidrazidnim skeletom = Design, synthesis and evaluation of potential inhibitors of enzymes MurC and MurD with a hydrazide scaffold, COBISS.SI-ID: 2055793.

Batagelj Maja (supervisor: Božič Borut, co-supervisor: Sodin-Šemrl Snežna): Kultiviranje in stimulacija humanih umbilikalnih venskih endotelijskih celic = Cultivation and stimulation of human umbilical vein endothelial cells, COBISS.SI-ID: 22972377.

Benedik Marjan (supervisor: Srčič Stanko, co-supervisor: Dreu Rok): Proučevanje stisljivosti praškov z instrumentalno tabletirko Kilian SP300 = Compressibility study of powders using instrumented tablet press Kilian, COBISS.SI-ID: 2063729.

Bevk Alenka (supervisor: Gobec Stanislav, co-supervisor: Lanišnik-Rižner Tea): Derivati ciklopentana, ftalimida in pirimidina kot inhibitorji človeške hidroksisteroid-dehidrogenaze AKR1C1 = Derivatives of cyclopentane, phthalimide and pyridine as inhibitors of human hydroxysteroid dehydrogenase AKR1C1, COBISS.SI-ID: 2106225.

Blažič Petra (supervisor: Obreza Aleš): Novi piperidinski inhibitorji Mur ligaz = New piperidine inhibitors of Mur ligases, COBISS.SI-ID: 2095473.

Borštnar Tina (supervisor: Kikelj Danijel, co-supervisor: Ilaš Janez): Sinteza analogov novih antitrombotičnih učinkovin z benzoksazinskim skeletom = Synthesis of new antithrombotic compounds with benzoxazine scaffold, COBISS.SI-ID: 2121585.

Brvar Matjaž (supervisor: Peterlin-Mašič Lucija, co-supervisor: Kikelj Danijel): Sinteza novih heterocikličnih potencialnih inhibitorjev encimov MurC in MurD = Synthesis of new heterocyclic potential inhibitors of MurC and MurD anzymes, COBISS.SI-ID: 2163569.

Brvar Nina (supervisor: Bogataj Marija): Vpliv sestave medija in hitrosti mešanja na sproščanje tramadolijevega klorida iz farmaceutskih oblik s podaljšanim sproščanjem = The influence of composition of medium and stirring rate on the release of tramadol hydrochloride from prolonged release dosage forms, COBISS.SI-ID: 2112369.

Brvar Tanja (supervisor: Bogataj Marija): Vpliv hitrosti mešanja in ionske moči medija na sproščanje natrijevega diklofenaka iz farmaceutskih oblik s podaljšanim sproščanjem = The influence of stirring rate and ionic strength of medium on the release of diclofenac sodium from prolonged release dosage, COBISS.SI-ID: 2112113.

Bukovec Polona (supervisor: Vrečer Franc, co-supervisor: Krošelj Vesna): Študij procesa termoplastičnega peletiranja v hitrem mešalniku = The study of thermoplastic pelletization in a highshear mixer, COBISS.SI-ID: 2070897.

Cafuta Eva (supervisor: Gašperlin Mirjana): Optimizacija feritiocitane metode in njena uporaba za določanje antioksidativne učinkovitosti vitaminov E in C ter njihovih derivatov = Optimisation of ferric thiocyanate and its application for determination of antioxidative efficiency of vitamins E and C and their derivatives, COBISS.SI-ID: 2088305.

Cevzar Tatjana (supervisor: Kristl Julijana): Načrtovanje nanodelcev za dostavljanje učinkovin v zobno tkivo = Design of nanoparticles for drug delivery to periodontal tissue, COBISS.SI-ID: 2099825.

Demšar Peter (supervisor: Grabnar Iztok): Uporaba metod populacijske farmakokinetike za analizo pojavnosti neželenih učinkov nitrendipina in metotreksata = A population pharmacokinetic analysis of adverse effects with nitrendipine and methotrexate, COBISS.SI-ID: 2099313.

Derča Darja (supervisor: Obreza Aleš, co-supervisor: Frlan Rok): Sinteza levcinhidrazidnih inhibitorjev Mur-ligaz = Synthesis of leucinhydrazide inhibitors of Mur-ligases, COBISS.SI-ID: 2167409.

Dolinar Alja (supervisor: Osredkar Joško, co-supervisor: Stibilj Vekoslava): Ugotavljanje selen v arterijski, venski in celokupni popkovni krvi in njihovih frakcijah = Determining of selenium levels, venous and total umbilical cord blood and their fractions, COBISS.SI-ID: 2232945.

Eberl Andreja (supervisor: Obreza Aleš): Novi sulfonohidrazonski inhibitorji Mur ligaz = New sulfonohydrazone inhibitors of Mur ligases, COBISS.SI-ID: 2064753.

Eiselt Miklavž (supervisor: Planinšek Odon, co-supervisor: Vgrajevanje diklofenaka in ketoprofena v placebo tablete s kapilarno absorpcijo = Diclofenac and ketoprofen loading into placebo pills with capillar absorption, COBISS.SI-ID: 2094961.

Ekar Petra (supervisor: Kreft Samo, co-supervisor: Lunder Mojca): Optimizacija selekcije visokoafinitetnih fagnih klonov iz peptidno predstavivne knjižnice = Optimizing selection of phage display peptide library in the search for high affinity binding clones, COBISS.SI-ID: 2039153.

El Shawish Tanja (supervisor: Kreft Samo, co-supervisor: Lunder Mojca): Optimizacija metode bakteriofagnega prikaza in iskanje peptidnih ligandov 17 β -hidroksisteroid dehidrogenaze = Optimizing the phage display method and searching formpeptide ligands of 17 β -hydroxysteroid dehydrogenase, COBISS.SI-ID: 2218353.

Erčulj Matic (supervisor: Sollner Dolenc Marija): Sinteza tetrazolskih mimetikov nekaterih aminokislin = Synthesis of tetrazole mimetics of some amino, COBISS.SI-ID: 2186353.

Esih Eva (supervisor: Mrhar Aleš, co-supervisor: Brank Martina): Farmakoekonomski učinki uvedbe medsebojne zamenljivosti bistveno podobnih zdravil na gibanje stroškov za zdravila na recept v Sloveniji = Pharmacoeconomic impact of generic substitution on costs of prescribed drugs in Slovenia, COBISS.SI-ID: 2172785.

Furčič Ivna (supervisor: Grabnar Iztok, co-supervisor: Cerkvjenik Flajs Vesna): Farmakokinetična analiza prehoda antiparazitikov v mleko ovac na primeru strukturno podobnih makrocikličnih laktonov = Pharmacokinetics analysis of antiparasitic drug permeation in sheep's milk in series of structurally similar macrocyclic lactones, COBISS.SI-ID: 2222961.

Godec Aljaž (supervisor: Srčič Stanko, co-supervisor: Gaberšček Miran): Vpliv prostorske restrikcije na nastanek in stabilnost polimorfnih in amorfnih oblik = The influence of space restriction on the formation and stability of polymorphic and amorphous forms, COBISS.SI-ID: 2164337.

Godec Špela (supervisor: Mrhar Aleš, co-supervisor: Wong Ian): Pojavnost umrljivosti med otroci in mladostniki, ki so jim bili predpisani antiepileptiki v Združenem kraljestvu = Incidence of mortality in children and adolescents prescribed antiepileptic drugs within the United Kingdom, COBISS.SI-ID: 2186865.

Gosenca Mirjam (supervisor: Gašperlin Mirjana, co-supervisor: Obreza Aleš): Vpliv oksima OMG 12 na stabilnost askorbilpalmitata v mikroemulzijah = Influence of oxime OMG 12 on stability of ascorbyl palmitate in microemulsions, COBISS.SI-ID: 2168689.

Gostič Katja (supervisor: Marc Janja, co-supervisor: Lanišnik-Rišner Tea): Ugotavljanje prisotnosti proteina AKR1C3 v vzorcih ovarijskih cist bolnic z ovarijsko endometriozo = Detection of protein AKR1C3 in ovarian cyst samples from female patients with ovarian endometriosis, COBISS.SI-ID: 2163825.

Gravnar Nataša (supervisor: Lukač-Bajalo Jana, co-supervisor: Karas Kuželički Nataša): Iskanje novih mutacij v genu GALT pri bolnikih z idiopatsko katarakto = New mutations in the GALT gene in patients with idiopathic presenile cataracts, COBISS.SI-ID: 2210929.

Gyurica Marina (supervisor: Grabnar Iztok, co-supervisor: Locatelli Igor): Razvoj enantioselektivne analizne metode za določanje plazemskih koncentracij risperidona in 9-hidroksirisperidona = Development of enantioselective analytical method for determination of risperidon and 9-hydroxyrisperidon in plasma, COBISS.SI-ID: 2210417.

Herman Jana (supervisor: Štrukelj Borut, co-supervisor: Kenig Maja): Določevanje sledov polimernih nečistot v rekombinantnih učinkovinah, pridobljenih iz bakterije Escherichia coli = Determination of polymeric impurities in traces in recombinant substances in bacteria Escherichia coli, COBISS.SI-ID: 2173041.

Hočevar Klavdija (supervisor: Baumgartner Saša, co-supervisor: Sedmak Gregor): Uporabnost načrtovanja eksperimentov za razvoj tablet s podaljšanim sproščanjem = Applicability of the design of experiments for development of extended release tablets, COBISS.SI-ID: 2218097.

Hohler Manja (supervisor: Obreza Aleš): Novi 4-substituirani anilinski inhibitorji biosinteze celične stene = New 4-substituted aniline's inhibitors of the bacterial cell-wall biosynthesis, COBISS.SI-ID: 2095217.

Horvat Nejc (supervisor: Mrhar Aleš, co-supervisor: Kos Mitja): Razvoj vprašalnika za vrednotenje zadovoljstva z lekarniškimi storitvami = Construction of a questionnaire measuring patient satisfaction with pharmaceutical services, COBISS.SI-ID: 2117233.

Horvat Štefka (supervisor: Kmetec Vojko, co-supervisor: Bezec Bürgermeister Smiljana): Izdelava novih ovojnin in navodil za uporabo za galenske izdelke v skladu z novim pravilnikom = Preparation of new packaging and patient information leaflets for galenic products according to new regulations, COBISS.SI-ID: 2212977.

Hudovornik Grega (supervisor: Vrečer Franc, co-supervisor: Zajc Natalija): Študij gastrorezistentnih lastnosti oblog s hidroksipropil acetat sukcinatom = The study of hypromellose acetate succinate enteric coating, COBISS.SI-ID: 2067057.

Ivanovič Anja (supervisor: Planinšek Odon): Proučevanje lastnosti tablet, izdelanih s kapilarno absorpcijo raztopine ketoprofena ali hidroklorotiazida = Study of tablets, made with capillar absorption of ketoprofen or hydrochlorothiazide solution, COBISS.SI-ID: 2227313.

Kalamar Boštjan (supervisor: Umek Andrej, co-supervisor: Janeš Damjan): Izolacija pirolizidinskih alkaloidov iz korenin navadnega gabeza (Symphytum officinale L.) = Isolation of pyrrolizidine alkaloids from roots of comfrey plant (Symphytum officinale L.), COBISS.SI-ID: 2075249.

Kandić Lara (supervisor: Štrukelj Borut, co-supervisor: Brzin Jože): Insekticidno delovanje proteinov izbranih gob in rastlin na modelu vinske mušice = Insecticidal activity of proteins from selected species of fungi and plants on fruit fly model insect, COBISS.SI-ID: 2075761.

Kladnik Jure (supervisor: Kikelj Danijel): Sinteza novih heterocikličnih potencialnih inhibitorjev Mur-ligaz = Synthesis of novel heterocyclic potential inhibitors of Mur-ligases, COBISS.SI-ID: 2106481.

Klavž Janez (supervisor: Osredkar Joško, co-supervisor: Heath Ester): Vsebnost polikloriranih bifenilov v ribah s slovenskega tržišča = Levels of polychlorinated biphenyls in commercial fish species in Slovenia, COBISS.SI-ID: 2233713.

Klinc Igor (supervisor: Božič Borut, co-supervisor: Čučnik Saša): Optimizacija izolacije β 2-glikoproteina I z nizkotlačnim kromatografskim postopkom = Optimization of purification of β 2-glycoprotein I with low pressure chromatography procedure, COBISS.SI-ID: 2089329.

Kocjančič Marjetka (supervisor: Mrhar Aleš, co-supervisor: Meh Duška): Učinek statinov na delovanje somatskih tankih živčnih vlaken pri bolnikih s heterozigotno družinsko hiperholesterolemijo = The effect of statins on somatic small nerve fibre function in patients with heterozygous familial hypercholesterolemia, COBISS.SI-ID: 2199665.

Koder Barbara (supervisor: Mrhar Aleš, co-supervisor: Mavsar Brigita): Analiza učinkovitosti in varnosti zdravljenja z vankomicinom = Vancomycin treatment: analysis of safety and efficacy, COBISS.SI-ID: 2063473.

Kodrič Andreja (supervisor: Osredkar Joško): Določanje asimetričnega dimetilarginina (ADMA) pri preeklampsiji = The determining of asymmetric dimethylarginine (ADMA) serum level at preeclampsy, COBISS.SI-ID: 2144369.

Kolenc Nea (supervisor: Lukač-Bajalo Jana, co-supervisor: Skitek Milan): Ocena ledvične funkcije pri odraslih na podlagi merjenja različnih parametrov = Assessment of kidney function at adults based on measuring of different parameters, COBISS.SI-ID: 2145137.

Kološnjaj Tabi Jelena (supervisor: Bogataj Marija, co-supervisor: Moussa Fathi): Preučevanje toksičnosti ogljikovih nanocevk na miših = Carbon nanotubes' toxicity study on mice, COBISS.SI-ID: 2216817.

Kotolenko Aljoša (supervisor: Gašperlin Mirjana): Ekstrakti rožmarina kot kozmetično aktivne učinkovine = Extracts of rosemary as cosmetic active ingredients, COBISS.SI-ID: 2196849.

Kovačič Borut (supervisor: Srčič Stanko): Proučevanje površinske energije, močljivosti in dinamike močenja tabletnih jeder s polimerno suspenzijo za oblaganje = Research on surface energy, wettability and wetting dynamics of tablet cores with polymer coating suspension, COBISS.SI-ID: 2092145.

Kozjek Marjetka (supervisor: Baumgartner Saša): Proučevanje sproščanja vodotopne učinkovine iz hidrofilnih in lipofilnih ogrodnih tablet = The release study of water soluble drug from hydrophilic and lipophilic matrix tablets, COBISS.SI-ID: 2047601.

Krajnc Urban (supervisor: Baumgartner Saša): Načrtovanje, izdelava in vrednotenje plavajočih tablet na osnovi ksantana = Designing, formulation and evaluation of floating tablets based on xanthan gum, COBISS.SI-ID: 2227057.

Kralj Slavko (supervisor: Kmetec Vojko, co-supervisor: Roškar Robert): Uporaba mikrokolorimetrije in tekočinske kromatografije v predformulacijskih študijah stabilnosti ramiprila = Use of microcalorimetry and liquid chromatography in preformulation studies of stability of ramipril, COBISS.SI-ID: 2162545.

Krošelj Marko (supervisor: Gašperlin Mirjana, co-supervisor: Stopar Tanja): Ugotavljanje vpliva geometrije vira sevanja na meritev radioaktivnosti radiofarmakov = Influence of radiation source geometry on determination of radioactivity of radiopharmaceuticals, COBISS.SI-ID: 2063217.

Levstik Tomaž (supervisor: Marc Janja, co-supervisor: Mlinar Barbara): Ugotavljanje povezanosti treh polimorfizmov v genu PPAR γ s sindromom policističnih jajčnikov = Association between three polymorphisms in PPAR γ gene and polycystic ovary syndrome, COBISS.SI-ID: 2132081.

Lindtner Tjaša (supervisor: Božič Borut): co-supervisor: Kveder Tanja): Postopek pridobitve dovoljenja za delo medicinskega laboratorija = Process of acquiring license to work for medical laboratory, COBISS.SI-ID: 2089585.

Lobnikar Katarina (supervisor: Kmetec Vojko): Uporaba mikrokolorimetrije in tekočinske kromatografije v predformulacijskih študijah stabilnosti cilazaprila = Use of microcalorimetry and liquid chromatography in preformulation studies of stability of cilazapril, COBISS.SI-ID: 2144881.

Luštrik Matevž (supervisor: Srčič Stanko, co-supervisor: Dreu Rok): Razvoj in izdelava pelet s suhimi emulzijami z uporabo tehnologije z vrtnčenjem = Development and production of pellets containing dry emulsions with application of fluid-bed technology, COBISS.SI-ID: 2147953.

Martinčič Mateja (supervisor: Božič Borut, co-supervisor: Sodin-Šemrl Snežna): Vpliv rastnega hormona β 1 na izločanje interleukina 6 in izražanje 8 v aktiviranih endotelijskih celicah = Influence of transforming growth factor β 1 on secretion of interleukin 6 and expression of interleukin 8 in activated endothelial, COBISS.SI-ID: 2071153.

Martinec Selan Tina (supervisor: Osredkar Joško, co-supervisor: Petrovič Danijel): Znotraj celična adhezijska molekula-1 (ICAM-1) kot biokemični označevalec diabetične retinopatije pri diabetikih tipa II = Intracellular adhesion molecule-1 (ICAM-1) as biochemical marker of diabetic retinopathy in type 2 diabetic patients, COBISS.SI-ID: 2233201.

Martinuzzi Iztok (supervisor: Kmetec Vojko, co-supervisor: Frankič Darja): Razvoj elementov farmacevtske skrbi pri debelosti = The elements development of pharmaceutical care in obesity, COBISS.SI-ID: 2167921.

Matjaž Tilen (supervisor: Kikelj Danijel, co-supervisor: Ilaš Janez): Sinteza novih antitrombotičnih učinkovin z 2-benzil-in 2-benziliden-2H-1,4-benzoksazin-3-onkim skeletom = Synthesis of novel antithrombotic agents with 2-benzyl- and 2-benzyliden-2H-1,4-benzoxazin-3-one scaffold, COBISS.SI-ID: 2141809.

Maver Uroš (supervisor: Srčič Stanko, co-supervisor: Bele Marjan): Nov hibridni kserogel silike za stabilizacijo in kontrolirano sproščanje učinkovin = Novel hybrid silica xerogels for stabilization and controlled release of drug, COBISS.SI-ID: 2173297.

Medved Marta (supervisor: Baumgartner Saša): Priprava polimernih kompleksov med ksantanom in hitosanom = Preparation of polymer complexes between xanthan and chitosan, COBISS.SI-ID: 2144625.

Mirković Bojana (supervisor: Kos Janko, co-supervisor: Premzl Aleš): Priprava Fab fragmentov 2A2 monoklonskih protiteles proti katepsinu B in njihova karakterizacija = Preparation of Fab fragments from 2A2 monoclonal antibodies against cathepsin B and their characterization, COBISS.SI-ID: 2065521.

Mivšek Milena (supervisor: Baumgartner Saša): Izdelava in vrednotenje alginatnih oblog za vlažno celjenje ran = Preparation and evaluation of alginate dressings for moist wound healing, COBISS.SI-ID: 2131825.

Mozetič Maja (supervisor: Bogataj Marija): Analiza navajanj interakcij simvastatin s fenofibratom v različnih literarnih virih = Analysis of drug interactions citations between simvastatin and fenofibrate in different literature sources, COBISS.SI-ID: 2184817.

Mrakič Primož (supervisor: Zega Anamarija): Načrtovanje in sinteza karbohidrazidnih in benzensulfonamidnih inhibitorjev Mur ligaz = Design and synthesis of carbohydrazide and benzensulfonamide inhibitors of Mur ligases, COBISS.SI-ID: 2111601.

Oblak Erika (supervisor: Mrhar Aleš, co-supervisor: Košnik Mitja). Optimizacija zdravljenja z metildigoksinom v bolnišnici Golnik = Optimisation of methyl digoxin therapy in Golnik Hospital, COBISS.SI-ID: 2189169.

Oderlap Maja (supervisor: Bogataj Marija). Vpliv mehanskih obremenitev na sproščanje teofilina iz cilindričnih farmacevtskih oblik = Influence of mechanical stress on release of theophylline from cylindrical pharmaceutical forms, COBISS.SI-ID: 2148209.

Ogrinc Katarina (supervisor: Gašperlin Mirjana, co-supervisor: Drogenik Polonca). Predlog možnih izboljšav pri delu s citostatiki za zdravstveno in drugo osebje Splošne bolnišnice Maribor = Proposal of potential improvements for medical and other personnel dealing with cytostatics at Splošna bolnišnica Maribor, COBISS.SI-ID: 2168433.

Papuga Tatjana (supervisor: Osredkar Joško, co-supervisor: Horvat Milena). Optimizacija in določanja monometil živega srebra v lasih z metodo plinske kromatografije = Optimization of isolation and determination of monomethylmercury in hair by gas chromatography, COBISS.SI-ID: 2111857.

Pavšič Alenka (supervisor: Planinšek Odon). Vpliv relativne vlažnosti na temperaturo steklastega prehoda gastrorezistentnih polimerov = The influence of relative humidity on glass transition temperature of gastroresistant polymers, COBISS.SI-ID: 2210161.

Pegam Andraž (supervisor: Gobec Stanislav, co-supervisor: Humljan Jan). Sinteza novih naftalensulfonamidov kot potencialnih inhibitorjev UDP-N-acetilmuramolil-L-alanin: D-glutamat ligaze (MurD) = Synthesis of new naphthalenesulfonamides as potential UDP-N-acetylmuramoyl-L-alanine: D-glutamate ligase (MurD) inhibitors, COBISS.SI-ID: 2179953.

Penca Neža (supervisor: Kreft Samo, co-supervisor: Baffone Wally). Antimicrobial activity of propolis against bacterium *Campylobacter jejuni* = Antimikrobno delovanje propolisa proti bakteriji *Campylobacter jejuni*, COBISS.SI-ID: 2187377.

Pešec Miran (supervisor: Bogataj Marija, co-supervisor: Kerec Mojca): Adhezija nekaterih celuloznih derivatov v prisotnosti natrijvega, kalcijevega in magnezijevega klorida na sluznico prašičjega sečnega mehurja = Bioadhesion of some cellulose derivatives on pig vesical mucosa in the presence of sodium, calcium and magnesium chloride, COBISS.SI-ID: 2126961.

Petek Marko (supervisor: Mlinarič-Raščan Irena, co-supervisor: Kuzman Drago): Uporaba metabolnih mrež pri globalni analizi transkriptoma bakterije *Staphylococcus aureus* = Use of metabolic networks in global transcriptome analysis of bacteria *Staphylococcus aureus*, COBISS.SI-ID: 2162289.

Pislak Mateja (supervisor: Kreft Samo, co-supervisor: Kočever Nina). Karakterizacija palmitoiliranega cistatina s peptidnim kartiranjem = Characterization of palmitoylated cycstatin by peptide mapping, COBISS.SI-ID: 2181745.

Plementaš Valerija (supervisor: Gašperlin Mirjana, co-supervisor: Homar Miha): Izdelava mikrokapsul s celekoksibom na osnovi samomikroemulgirajočih sistemov = Production of celecoxib loaded microcapsules with self-microemulsifying core, COBISS.SI-ID: 2132337.

Podgrajšek Mitja (supervisor: Baumgartner Saša). Izdelava in vrednotenje tablet s podaljšanim sproščanjem na osnovi karagenanov in primerjava s tabletami iz HPMC = Formulation and evaluation of prolonged release tablets on carageenans and comparison with tablets from HPMC, COBISS.SI-ID: 2222705.

Poljašević Plavša Vesna (supervisor: Skitek Milan): Proučevanje pretočne citometrije v osnovni urinski analizi = Research of flow cytometry in basic urine analysis, COBISS.SI-ID: 2071409.

Prijatelj Matevž (supervisor: Mlinarič-Raščan Irena): Uporaba fluorescenčne mikroskopije za ugotavljanje rekombinantnih proteinov = Determination of the cellular processing of recombinant proteins by fluorescence microscopy, COBISS.SI-ID: 2065009.

Ribič Larisa (supervisor: Kos Janko, co-supervisor: Grčman Marija): Študij fizikalne stabilnosti hidratne oblike K-0502 = Study of physical stability of hydrate form K-0502, COBISS.SI-ID: 2146929.

Rupnik Irena (supervisor: Osredkar Joško, co-supervisor: Horvat Milena): Ugotavljanje vsebnosti celokupnega in metil živega srebra v lasih in popkovni krvi = Determining of total and methyl mercury levels in hair and umbilical cord blood, COBISS.SI-ID: 2143601.

Rusić Dušan (supervisor: Štrukelj Borut): Varnostni vidiki izdelave in uporabe biotehniških zdravil = Safety aspects of production and usage of biopharmaceuticals, COBISS.SI-ID: 2078321.

Sitar Uroš (supervisor: Bogataj Marija, co-supervisor: Mohar Milojka): Vplivi različnih medijev in pogojev testiranja na hitrost raztapljanja slabo topne učinkovine iz suspenzije = Influence of different media and testing conditions on dissolution rate of a poorly soluble drug from suspension, COBISS.SI-ID: 2089073.

Skubin Simon (supervisor: Srčič Stanko): Vrednotenje fizikalnih lastnosti granulotov in suhih zmesi ter njihov vpliv na proces tabletiranja = Evaluation of physical properties of powders and granules and their influence on compressing process, COBISS.SI-ID: 2053489.

Souvan Maja (supervisor: Štrukelj Borut): Biološko primerljiva zdravila: razvoj in registracija v Evropski Uniji = Similar biological medicinal products: development and registration in European Union, COBISS.SI-ID: 2056049.

Sovič Jasmina (supervisor: Planinšek Odon): Vgrajevanje in proučevanje modelnih anorganskih nanodelcev v tabletah = Incorporation and study of model anorganic nanoparticles in tablets, COBISS.SI-ID: 2209905.

Starič Rok (supervisor: Kerč Janez, co-supervisor: Legen Igor): Razvoj in vrednotenje novega dostavnega sistema na osnovi suhih mikroemulzij = Development and evaluation of new dry microemulsion based drug delivery system, COBISS.SI-ID: 2092401.

Stiplovšek Tina (supervisor: Osredkar Joško): Vezavni protein prostih maščobnih kislin (h-FABP) kot biokemični označevalec miokardnega infarkta = Heart-type fatty acid-binding protein as an biochemical marker of myocardial injury in early detection of acute myocardial infarction, COBISS.SI-ID: 2091889.

Šaula Jelena (supervisor: Mlinarič-Raščan Irena, co-supervisor: Toplak Nataša): Ugotavljanje denomske mikrosatelitske nestabilnosti pri bolnikih s karcinomom prostate = Evaluation of genomic microsatellite instability in patients with prostate cancer, COBISS.SI-ID: 2055537.

Šibanc Rok (supervisor: Srčič Stanko, co-supervisor: Dreu Rok): Numerično modeliranje dvokanalne šobe in dvofaznega toka v Wursterjevi komori = CFD modelling of binary nozzle and two-phase flow in Wurster chamber, COBISS.SI-ID: 2188657.

Šiško Fanina (supervisor: Lukač-Bajalo Jana, co-supervisor: Arko Barbara): Polimorfizem (TA)n ponovitev v genu UGT1A1 pri novorojenčkih s hiperbilirubinemijo = UGT1A1(TA)n promoter polymorphism and neonatal hyperbilirubinemia, COBISS.SI-ID: 2105969.

Šmid Metka (supervisor: Kreft Samo, co-supervisor: Janeš Damjan): Identifikacija za vonj pomembnih spojin v kisli frakciji izvlečka ajdove kaše = Identification of flavour compounds in the acidic fraction of buckwheat groats extract, COBISS.SI-ID: 2132849.

Šparakl Janja (supervisor: Grabnar Iztok, co-supervisor: Vovk Tomaž): Razvoj metode HPLC za vrednotenje lipidne peroksidacije z določanjem malondialdehida v plazmi = Development of HPLC method for quantification of lipid peroxidation by measuring malondialdehyde in plasma, COBISS.SI-ID: 2099057.

Šporar Irma (supervisor: Sollner Dolenc Marija, co-supervisor: Roškar Robert): Razvoj LC/MS-MS analizne metode za določanje hidrolizatov benzodiazepinov v urinu = Development of LC/MS-MS analytical method for the determination of benzodiazepine hydrolysis in human urine, COBISS.SI-ID: 2196593.

Šuštar Martina Tina (supervisor: Skitek Milan). Uporaba mikrovalovne pečice pri razklopu polne krvi za analizo živega srebra = Whole blood microwave digestion in mercury analysis, COBISS.SI-ID: 2216305.

Tekavčič Petra (supervisor: Osredkar Joško): Klinični pomen določanja humanega placentalnega rastnega hormona pri preeklampsiji = Clinical significance of determining human placental growth hormone in preeclampsia, COBISS.SI-ID: 2179697.

Toni Janez (supervisor: Mlinarič-Raščan Irena): Kloniranje gena za tiopurin-s-metiltransferazo rekombinantnega proteina = Cloning of thiopurin-s-methyltransferase gene and expression of recombinant protein, COBISS.SI-ID: 2065265.

Turk Samo (supervisor: Gobec Stanislav): Iskanje inhibitorjev Mur ligaz z virtualnim rešanjem bank spojin = Discovery of new inhibitors of Mur ligases by structure-based virtual screening, COBISS.SI-ID: 2186609.

Utroša Urša (supervisor: Osredkar Joško): Določanje proteina S-100B in nevron specifične enolaze pri izoliranih poškodbah glave = Determination of protein S-100B and neuron specific enolase in patients with isolated head injuries, COBISS.SI-ID: 2179441.

Vidmar Alenka (supervisor: Jeras Matjaž). Ugotavljanje vplivov izbranih učinkovin iz skupine nesteroidnih antirevmatikov na proces zorenja človeških dendritičnih celic in vitro = influences of selected non-steroidal antirheumatic drugs on in vitro human dendritic cell maturation, COBISS.SI-ID: 2210673.

Vidmar Anja (supervisor: Grabnar Iztok, co-supervisor: Vovk Tomaž). Razvoj in validacija metode HPLC za določanje presnovkov biogenih aminov v plazmi = Development and validation of HPLC method for quantification of biogenic amines metabolites in plasma, COBISS.SI-ID: 2226801.

Vidmar Blaž (supervisor: Gobec Stanislav, co-supervisor: Sova Matej). Sinteza in vrednotenje hidroksietilaminskih analogov prehodnega stanja kot potencialnih inhibitorjev D-alanil-D-alanin ligaze = Synthesis and evaluation of hydroxymethylamine transition-state analogs as potential inhibitors of D-alanine: D-alanine ligase, COBISS.SI-ID: 2187121.

Vilč Luka (supervisor: Srčič Stanko, co-supervisor: Dreu Rok): Mikrokapulacija tekočega in suhega ekstrakta iz lesa pravega kostanja = Microcapsulation of liquid and dry extract of chestnut tree, COBISS.SI-ID: 2233457.

Vincek Tadeja (supervisor: Lipnik-Štangelj Metoda): Zastrupitve z zdravili toksikomanogenimi in biološkimi snovmi v republiki Sloveniji med leti 2001 in 2005 = Poisoning by medicaments, drugs and biological substances in the republic of Slovenia between 2001 and 2005, COBISS.SI-ID: 2178929.

Vivod Timotej (supervisor: Kreft Samo): Razvoj in validacija analiznih metod za merjenje triterpenskimi glikozidov v grozdnati svetilki (Cimicifuga racemosa) = Development and validation of analytical methods for measurement of triterpen glycosides in black cohosh (Cimicifuga racemosa), COBISS.SI-ID: 2199921.

Zahirović Skender (supervisor: Kristl Albin): Primerjava fizikalno-kemijskih lastnosti učinkovine T2B = Comparison of physicochemical properties of active substance T2B, COBISS.SI-ID: 2234993.

Zaloker Urška (supervisor: Kos Janko, co-supervisor: Doljak Bojan): Vrednotenje monoklonskih protiteles proti človešlim citokeratinom = Evaluation of monoclonal antibody raised against human cytokeratines, COBISS.SI-ID: 2142065.

Zelenc Tina (supervisor: Osredkar Joško, co-supervisor: Milić Radoje). Povezanost antropometričnih parametrov, lipograma in vrednosti SHBG v serumu vrhunskih športnikov = Relations between antropometric parameters, lipidogram and the value of the SHBG in the serum of the top athletes, COBISS.SI-ID: 2223473.

Zorko Karmen (supervisor: Gobec Stanislav, co-supervisor: Lanišnik-Rižner Tea): Sinteza nefiziološkega substrata in iskanje inhibitorjev glivne trihidroksinaftalen-reduktaze = Synthesis of nonphysiological substrate and searching for inhibitors of fungal trihydroxynaphthalene reductase, COBISS.SI-ID: 2143857.

Zorman Zupančič Tina (supervisor: Lukač-Bajalo Jana, co-supervisor: Černe Darko): Primerjava koncentracija izvencelične DNA v peritonealnih izpirkih različnih dializnih raztopin = Comparison of cell-free DNA concentration in peritoneal fluid according to different dialysis solutions, COBISS.SI-ID: 2066801.

Zupan Alenka (supervisor: Kristl Julijana, co-supervisor: Ahlin Grabnar Pegi). Vpliv sestave polimernih nanodelcev na učinkovitost vgrajevanja hidrofobne zdravilne učinkovine = Influence of polymeric nanoparticle composition of entrapment efficiency of hydrophobic drug, COBISS.SI-ID: 2088561.

Žager Urška (supervisor: Mlinarič-Raščan Irena, co-supervisor: Karas Kuželički Nataša): Farmakogenetska analiza polimorfizma 677 C>T v genu za 5,10-metilentetrahidrofolatno reduktazo pri otrocih z akutno limfoblastno levkemijo = Pharmacogenetic analysis of polymorphism 677 C>T in 5,10-methylenetetrahydrofolate reductase gene in children with acute lymphoblastic leukemia, COBISS.SI-ID: 2144113.

Žajdela Blaž (supervisor: Anderluh Marko): Sinteza analogov prehodnega stanja encima MurD z 2-amino-5-alkilidentiazol-4-onskim ogrodjem = Synthesis of MurD transition state analogues with 2-amino-5-alkylidenethiazol-4-one scaffold, COBISS.SI-ID: 2216049.

Žalik Pavla (supervisor: Jeras Matjaž): Vpliv amnijske membrane na gojenje človeških kožnih celic in vitro = The influence of amniotic membrane on in vitro cultivation of human skin cells, COBISS.SI-ID: 2213233.

Žiberna Lovro (supervisor: Ferjan Ilonka, co-supervisor: Drevenšek Gorazd): Vpliv diazepama na odzivnost izolirane podganje aorte = Isolated rat aorta responsiveness on diazepam, COBISS.SI-ID: 2163313.

6.3 MASTERS OF SCIENCE

Bilač-Krašnja Mojca (supervisor: Černe Darko): Proučevanje aktivnosti lipoproteinske lipaze v rakavem pljučnem tkivu = Investigation of lipoprotein lipase in cancerous pulmonary tissue, COBISS.SI-ID: 2155633

Rihtaršič Bojana (supervisor: Srčič Stanko, co-supervisor: Kerč Janez): Vrednotenje sposobnosti procesa granulacije z analizo enakomernosti vsebnosti zdravilne učinkovine v tabletah = Evaluation of process capability of granulation with content uniformity testing, COBISS.SI-ID: 2156145.

Razinger Mihovec Barbara (supervisor: Lipnik-Štangelj Metoda, co-supervisor: Krbavčič Aleš): Vpliv socialno-demografskih značilnosti in zdravstvenega stanja populacije na uporabo zdravil rastlinskega izvora v Sloveniji = The influence of socio-demographic characteristics and health status of the population on the use of herbal medicines in Slovenia, COBISS.SI-ID: 2232689.

Ručigaj Simona (supervisor: Mrhar Aleš, co-supervisor: Drinovec Jože): Farmakoeekonomska analiza zmanjševanja srčno-žilnih zapletov pri sladkorni bolezni tipa 2 = Pharmacoeconomic analysis of cardiovascular complications reduction in diabetes type 2, COBISS.SI-ID: 2143345.

Šmit Renata (supervisor: Mrhar Aleš, co-supervisor: Drinovec Jože): Družbeno breme shizofrenije = Burden of schizophrenia, COBISS.SI-ID: 2213745.

6.4 SPECIALISTS

Ključevšek Mirjam (supervisor: Mrhar Aleš): Vrednotenje dela v slovenskih lekarnah in načini vrednotenja v EU = Evaluation of work in slovene pharmacies and modes of evaluation in EU, COBISS.SI-ID: 2048881.

Mitrovič Simona (supervisor: Srčič Stanko, co-supervisor: Miharija-Gala Tajda): Vloga farmacevta pri farmakoterapiji očesnih bolezni in preprečevanju mikrobiološke kontaminacije = Role of pharmacist by the eye diseases pharmacotherapy and by the prevention of microbiological contamination, COBISS.SI-ID: 2100593.

Novak Cvirn Matejka (supervisor: Mrhar Aleš): Obravnavanje prekomerne telesne mase in debelosti v lekarni = Treatment of overweight and obesity in community pharmacy , COBISS.SI-ID: 2113137.

6.5 Ph.D. GRADUATES

Bratkovič Tomaž (supervisor: Urleb Uroš, co-supervisor: Štrukelj Borut): Razvoj novih peptidnih inhibitorjev cisteinskih proteaz in Mur-ligaz z metodo prikaza na bakteriofagu = Development of peptide inhibitors of cysteine proteases and Mur ligases through phage display technology, COBISS.SI-ID: 2168945.

Homar Miha (supervisor: Gašperlin Mirjana, co-supervisor: Kerč Janez): Uporaba novih tehnologij za izdelavo mikropelcev težko topnih zdravilnih učinkovin = New technologies for microparticles preparation for oral delivery of poorly soluble drugs, COBISS.SI-ID: 2076273.

Humljan Jan (supervisor: Gobec Stanislav): Načrtovanje, sinteza in vrednotenje novih sulfonamidnih inhibitorjev Mur ligaz = Design, synthesis and characterization of new sulfonamide inhibitors of Mur ligases, COBISS.SI-ID: 2226289.

Janeš Damjan (supervisor: Umek Andrej, co-supervisor: Kreft Samo): Raziskave gliv kot virov novih protimikrobnih učinkovin = The research of fungi as sources of new antimicrobial compounds COBISS.SI-ID: 2169201.

Japelj Boštjan (supervisor: Jerala Roman, co-supervisor: Štrukelj Borut): Strukturne in biofizikalne lastnosti antimikrobnih peptidov = Structural and biophysical properties of antimicrobial peptides, COBISS.SI-ID: 2112881.

Kenig Maja (supervisor: Menart Viktor, co-supervisor: Štrukelj Borut): Razvoj metod afinitetne kromatografije za izolacijo rekombinantnih proteinov iz bakterije Escherichia coli = Development of affinity chromatography methods for isolation of recombinant proteins from Escherichia coli, COBISS.SI-ID: 2048113.

Korošec Tina (supervisor: Urleb Uroš): Načrtovanje in sinteza novih inhibitorjev biosinteze holesterola = Design and synthesis of novel cholesterol biosynthesis inhibitors, COBISS.SI-ID: 2181233.

Kotnik Miha (supervisor: Šolmajer Tomaž): Računalniško in strukturno podprto načrtovanje novih zaviralcev Mur ligaz = Computer-aided and structure-based design of novel inhibitors of Mur ligases, COBISS.SI-ID: 2092657.

Kranjc Andreja (supervisor: Kikelj Danijel): Načrtovanje in sinteza novih piridonskih in pirazinonskih inhibitorjev trombina = Design and synthesis of novel pyridinone and pyrazinone thrombin inhibitors, COBISS.SI-ID: 2062961.

Kravos Matej (supervisor: Malešič Ivan): Glutamat-dehidrogenaza kot označevalec sindroma odvisnosti od alkohola = Glutamate dehydrogenase activity as a marker of alcohol dependency syndrome, COBISS.SI-ID: 2037105.

Kristl Jernej (supervisor: Štrukelj Borut): Diferencialno izražanje genov v človeških keratinocitih po dodatku kalcipotriola = Differential expression of genes in human keratinocytes after treatment with calcipotriol, COBISS.SI-ID: 236537344.

Mravljak Janez (supervisor: Pečar Slavko): Interakcije spinsko označenih derivatov perifosina in milefosina z modelnimi in celičnimi membranami = Interactions of spin-labeled derivatives of perifosine and miletefosine with model and cell membranes, COBISS.SI-ID: 2127473.

Silič Anja (supervisor: Kozjek Franc): co-supervisor: Janež Andrej): Proučevanje mehanizmov nastanka insulinske rezistence pri bolnikih, okuženih z virusom HIV = Investigation of insulin resistance in HIV infected patients, COBISS.SI-ID: 236537088.

Trontelj Jurij (supervisor: Mrhar Aleš): Raziskave metabolizma raloksifena z eksperimentalnimi modeli naraščajoče kompleksnosti = Study of raloxifene metabolism by experimental models with increasing complexity, COBISS.SI-ID: 2148465.

Vrbinc Miha (supervisor: Vrečer Franc): Študij fizikalnih oblik donepezilijevega klorida in njihovih pretvorb pod vplivom farmacevtsko-tehnoloških procesov = The study of physical forms of donepezil hydrochloride and their transformation under the influence of pharmaceutical-technologies processes, COBISS.SI-ID: 2089841.

7. SCIENTIFICS AND RESEARCH ACTIVITIES

7.1 CHAIR OF BIOPHARMACY AND PHARMACOKINETICS

SCIENTIFICS AND PROFESSIONAL ARTICLES

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7.2 CHAIR OF PHARMACEUTICAL BIOLOGY

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