5TH CONGRESS OF PHARMACY OF MACEDONIA
WITH INTERNATIONAL PARTICIPATION

SCIENCE AND PRACTICE FOR HEALTH BENEFIT
21-25.09.2011
OHRID, R. MACEDONIA

FINAL PROGRAM

Sponsored by:
ALKALOID
SKOPJE
Health above all
www.alkaloid.com.mk
Dear Honored Guests, Invited Speakers, Delegates and Students,

On behalf of the Scientific and Organizing Committee it is a pleasure to welcome you to Ohrid for the 5th Congress of Pharmacy in Macedonia with International Participation. The congress is organized as a joint activity of the Macedonian Pharmaceutical Association and Faculty of Pharmacy - Skopje as a quadrennial event since 1995.

This year’s conference promises to be our most exciting and rewarding one yet, since more than 800 Pharmacist, among them scientists, educators, policy makers, professionals and the student community will be presenting and discussing some of the major opportunities and challenges affecting the pharmaceutical profession, today.

A great number of oral sessions and poster presentations will give both young and established scientists the opportunity to present their work and share ideas with colleagues on different topics. The opening lecture and the interdisciplinary plenary lectures presented by opinion leaders in particular fields are designed to create starting point for a fruitful congress for researchers, pharmacists and other health professionals. The scientific sessions that follow will start with opening lectures from a leading scientists in a particular field and will cover: I. Pharmaceutical Analysis / Quality Assurance / Regulatory Affairs, II. Pharmaceutical technology and biopharmacy, III. Pharmacoeconomy / Social Pharmacy, IV. Clinical biochemistry / Toxicology / Food and nutrition, V. Medicinal aromatic plants, VI. Clinical pharmacy, VII. Pharmaceutical chemistry / Biomolecular sciences. New trends in academia and education will be discussed during the half day Academic session. Two Workshops organized within the Congress, one on modern analytical techniques and one that will promote Regional ISPOR Chapter Macedonia will further enrich the activities planned for health professionals and scientists interested in those fields. The student session has a goal to introduce our students and other students from the region to experienced pharmaceutical and medical professionals, educators and scientists.

Best oral and poster presentations, selected by a Special Congress Award Committee will be awarded with prizes donated by our general sponsor.

You are invited to submit extended papers for publishing in Macedonian Pharmaceutical Bulletin immediately after the Congress.

We are especially grateful to the dedication of the entire faculty and all other colleagues and collaborators and our sponsors that have accepted to be a part of the Congress activities to ensure that this event is a success.

We wish you a successful Congress in Ohrid!

Regards

Chair of the Organizing committee
Prof. Suzana Trajkovic Jolevska

Chair of the Scientific committee
Prof. Katerina Goracinova
Your hosts
Macedonian Pharmaceutical Association
Faculty of Pharmacy - Skopje

Organizing Committee
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Nikola Simonovski
/ Secretary

Rumenka Petkovska
Marija Glavas-Dodov
Liljana Ugrinova
Merjem Hadzihamza
Djordje Stojadinovic
Angelka Belazelkoska

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Katerina Karljikovic Rajic, Serbia
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Rumenka Petkovska, Macedonia
Sasha Baumgartner, Slovenia
Sema Calis, Turkey
Slobodan Apostolski, Serbia
Suzana Trajkovic - Jolevska, Macedonia
Svetlana Kulevanova, Macedonia
Svjetlana Lutteroti, Croatia
Tatjana Kadifkova - Panovska, Macedonia
Vasja Bankova, Bulgaria
Zoran Kavratovski, Macedonia
Zorica Djuric, Serbia
### Wednesday, September 21st, 2011

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<td>Hotel Metropol: Registration</td>
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<td>18.00-19.30</td>
<td>Biljana Hall: OPENING CEREMONY &amp; WELCOME ADDRESS</td>
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<td><strong>Opening lecture:</strong> Finn KRISTENSEN BORLUM</td>
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<td>EUnetHTA, Denmark</td>
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<tr>
<td></td>
<td><em>Current trends and future prospects of pharmacoeconomic and outcomes research - with special reference to health technology assessment</em></td>
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<td>20.30</td>
<td>Hotel Bellevue: Welcome drink</td>
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<td><strong>CONGRESS PLENARY LECTURES</strong></td>
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<td>Biljana Hall:</td>
<td>Chair: Dominique DUCHENE, Atila HINCAL</td>
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<td>09.00-09.45</td>
<td><strong>Gunilla SJÖLIN-FORSBERG</strong></td>
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<td><em>World Health Organization, Geneva, Switzerland</em></td>
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<td><em>Perspectives of European and Global Pharmacovigilance</em></td>
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<td>09.45-10.30</td>
<td><strong>Werner KNÖSS</strong></td>
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<td><em>Committee on Herbal Medicinal Plants, EMA, London</em></td>
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<td><em>European Legislation on Traditional Herbal Medicinal Products</em></td>
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<td>10.45-11.30</td>
<td><strong>Sergio TISIMINETSKY</strong></td>
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<td><em>Biotechnology Development Group, Italy</em></td>
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<td><em>Biosimilars/biogenerics – an overview</em></td>
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<td>11.30-12.15</td>
<td><strong>Susan JONES</strong></td>
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<td><em>King’s College, London</em></td>
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<td><em>Patients bridging the gap between clinical theory and practical care</em></td>
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<td>13.00-15.00</td>
<td><strong>SPONSORED SYMPOSIUM</strong></td>
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<td>Biljana Hall:</td>
<td><strong>ALKALOID</strong></td>
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<td><em>75 years unobstructed dialogue with life</em></td>
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<td><strong>Dejan DOKIC</strong></td>
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<td><em>University Clinic of Pulmology and Allergy, Skopje</em></td>
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<td><em>Symptomatic therapy in cold &amp; flu</em></td>
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<td><em>The role of the pharmacist in OTC products, much more than a patient’s choice</em></td>
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15.30-17.00  
Biljana Hall: ACADEMIC SECTION  
Chair: Sasa BAUMGARTNER, Filiz HINCAL, Susan JONES  
15.30-15.50  
Jeffrey ATKINSON  
Nancy University, France  
PHARMINE - Pharmacy education in Europe  
15.50-16.10  
Irena MLINARIC RASCAN  
Faculty of Pharmacy, University of Ljubljana  
Harmonization and reformation of the Master in Pharmacy study programme at the Faculty of Pharmacy, University of Ljubljana  
16.10-16.30  
Aleksandar J. DIMOVSKI, Kristina MLADENOVSKA  
Faculty of Pharmacy, University “Ss Cyril and Methodius”  
The science and practice in the study curricula of the Faculty of Pharmacy at the University “Ss Cyril and Methodius”

Friday, September 23rd, 2011

09.00-13.00  
Biljana Hall: PHARMACEUTICAL ANALYSIS/QUALITY ASSURANCE/REGULATORY AFFAIRS  
Chair: Aneta DIMITROVSKA, Rumenka PETKOVSKA, Biljana TOCILI  
09.00-09.40  
Sebastian KUJUNDZIC  
DSP Chromatography  
New LC/MS/MS techniques in pharmaceutical analysis  
Break  
10.00-10.20  
Liljana UGRINOVA  
Faculty of Pharmacy, University “Ss Cyril and Methodius”  
Challenges of Quality Management in Analytical Laboratories  
10.20-10.40  
Ana POCEVA PANOVSKA  
Faculty of Pharmacy, University “Ss Cyril and Methodius”  
Equipment qualification for quality assurance in analytical laboratory  
10.40-11.00  
Jasmina TONIC RIBARSKA  
Faculty of Pharmacy, University “Ss Cyril and Methodius”  
Qualification and re-qualification of analysts
11.00-11.20  Katerina BREZOVSKA  
Faculty of Pharmacy, University “Ss Cyril and Methodius”  
Review, evaluation and reporting of analytical results

11.20-11.40  Jelena ACEVSKA  
Faculty of Pharmacy, University “Ss Cyril and Methodius”  
Management of Proficiency Testing Scheme (PTS)

09.00-14.00 Car Samuil Hall:  PHARMACOECONOMY/SOCIAL PHARMACY/PHARMACOINFORMATICS

Chair:  Ljubica SUTURKOVA, Rubin ZARESKI

09.00-09.20  Marcin CZECH  
Department of Pharmacoeconomics, Medical University of Warsaw  
Health Economic Aspects of Diabetes

09.20-09.40  Dinko VITEZIC  
Faculty of Medicine, Rijeka  
Health technology assessment and pharmacoeconomics today

09.40-10.00  Monika SZKULTECKA-DEBEK  
Roche, Poland  
Pharmacoeconomy and outcome research: an industry perspective

Break

Chair:  Rubin ZARESKI, Zoran STERJEV

10.20-10.35  Renata SLAVESKA RAICKI  
Faculty of Pharmacy, University “Ss Cyril and Methodius”  
Developing the national framework for good governance in the public pharmaceutical sector

10.35-10.50  Besiana BEZHANI  
Hygeia Hospital, Tirana  
Cost analisys of the management of diabetes in Albania

10.50-11.05  Tonci BUBLE  
Belupo, Croatia  
Adjustment and implementation of Croatian P&R model in Macedonia

11.05-11.20  Kristina HRISTOVA  
Health Insurance Fund of Macedonia  
Consumption of the prescription drugs covered by the health insurance fund: Drugs from group C, J and N by ATC classification

11.20-11.35  Sasa ZEZELIC  
Croatian Agency for Medicinal Products and Medical Devices  
Drug consumption in Croatia 2007-2009 compared to Norway and Denmark
11.35-11.50  Marija GULIJA  
Dr. Panovski  
*Diagnosis related groups (DRG) payment model in hospitals and the issue of expensive drugs*

Break

12.10-12.25  Marina PETRIC  
Faculty of Pharmacy, University of Belgrade  
*Rational Antibiotic Use in Treatment of Respiratory Infections in Children Under Five Years of Age*

12.25-12.40  Stevce ACEVSKI  
PharmaSwiss  
*Research of brand management on Macedonian pharmaceutical market*

12.40-12.55  Hristina LEBANOVA  
Medical University - Sofia, Faculty of Pharmacy  
*Internet infovigilance – practical approach in Bulgaria*

12.55-13.10  Tajda GALA  
University Medical Centre Ljubljana  
*Activities of hospital pharmacists association on European level*

09.00-14.00  Biznis Hall:  
**CLINICAL BIOCHEMISTRY/TOXICOLOGY/ FOOD AND NUTRITION**  
Chair:  
Lidija PETRUSEVSKA-TOZI, Tatjana KADIFKOVA-PANOVSKA

09.00-09.30  Rade INJAC  
Faculty of Pharmacy, Ljubljana  
Fullerenol: Magic bullet or cell killer

09.30-10.00  Katarina KARLJIKOVIC-RAJIC  
Faculty of Pharmacy, University of Belgrade  
*Derivative spectrophotometry in environmental, food and clinical samples analyses - Evaluation of EP7 monograph*

10.00-10.30  Tanja PETRESKA IVANOVSKA  
Faculty of Pharmacy, University “Ss Cyril and Methodius”  
*Viability of L.casei in symbiotic carrot juice during fermentation and storage*

Break

10.50-11.05  Shaun BILSBOROUGH  
Agilent Technologies  
*Targeted and non-targeted LCMS methods for detection and identification of toxicologically relevant compounds*
11.05-11.20  Milena SPASOVSKA  
Pharmacy “Prima” Ohrid  
Myeloperoxidase - risk factor for cardiovascular disease

11.20-11.35  Zoran KAVRAKOVSKI  
Faculty of Pharmacy, University “Ss Cyril and Methodius”  
Science as a tool for protecting the working environment: drug and alcohol abuse in the workplace

11.35-11.50  Darinka GJORGIEVA  
Faculty of Medical Sciences, University "Goce Delcev"  
New trends in biomonitoring: application of RAPD-PCR and Plant Model Systems to Genetic Ecotoxicology

11.50-12.05  Ksenija MICKOVA DIMITROVA  
Promedika  
Fingerprint based prediction of genotoxicity of thiophenes

12.05-12.20  Katerina STOJKOVSKA  
Public Health Center, Bitola  
Monitoring of persistent organochlorine pesticides in surface water of the Prespa region

12.20-12.35  Marija HILJADNIKOVA BAJRO  
Faculty of Pharmacy, University “Ss Cyril and Methodius”  
Laboratory Biomarkers in Cardiovascular Medicine

13.00-15.00  Ohrid and Kaneo Halls  
POSTER SESSION 1  
PP-1 to PP-90  
Authors of the posters should be present by their posters from 14.00 to 15.00

15.00-17.30  Biznis Hall:  
WORKSHOP  
Organized by:  
Agilent/Pharmachem  
Moderators:  
Marjonka VELJANOVSKA, Darko STEVANOV-PAVLOVIC  
Freek VAROSSIEAU  
Senior Product Specialist LabInformatics, Agilent Technologies  
Agilent OpenLab: bringing instruments, data and people together  
Sebastian KUJUNDZIC, Darko STEVANOV-PAVLOVIC  
Customer and Field Engineer, DSP Chromatography/General Manager  
Agilent Chromatography Tips and Tricks
15.00-16.00  
**Agilent OpenLab:**  
*bringing instruments, data and people together*

16.00-16.30  
**Break**

16.30-17.30  
**Tips and Tricks of fast GC and Troubleshooting the GC system**

15.30-17.30  
**STUDENTS SECTION**

**Chair:**  
Gjose STEFKOV, Jasmina TONIC RIBARSKA

**Physical stability analysis of total parenteral nutrition admixture**  
M. Pavlovic, M. Antunovic, D. Mirkovic, A. Petrovic

**Design and synthesis of new sulphonamide compound with potential for biological activity**  
E. Veljanova, E. Popovski, A. Poceva Panovska, K. Mladenovska

**Design and synthesis of new coumarine compound with potential for biological activity**  
E. Stanojevska, E. Popovski, A. Poceva Panovska, K. Mladenovska

**Influence of formulation variables on particle size distribution of L. casei loaded whey protein-alginate microparticles**  
J. Hadzieva, K. Smilkov, T. Petreska Ivanovska, R. Petkovska, L. Petrusevska Tozi, K. Mladenovska

**Techniques for the preparation of biological samples: theoretical aspects of SPE**  
S. Petrovski, J. Tonic-Ribarska, S. Trajkovic-Jolevska

**In vivo biodistribution of amphiphilic nanoparticles: influence of physico-chemical properties**  
D. Kuneski, M. Simonoska Crcarevska, S. Kuzmanovska, K. Goracinova

**Hybrid silica particles for local colon delivery of Budesonide**  
O. Memed, N. Geskovski, M. Glavas Dodov

**Examination of phenol antioxidants in berries and needles of Juniperus species from R. Macedonia**  
I. Spasovska, D. Stojanovski, A. Grozdanovska, M. Grozdanovska, M. Karapandzova, T. Kadifkova Panovska, G. Stefkov, S. Kulevanova

**Macedonian Pine: potential natural source of antioxidants**
G. Petrovska, I. Josifovska, V. Filipovski, A. Maslarova, M. Karapandzova, G. Stefkov, T. Kadikova Panovska, S. Kulevanova
*Representatives of genus Sideritis in R. Macedonia: pharmacognostic aspects*

B. Petrushevski, A. Mishevska, M. Jovanovska, M. Karapandzova, G. Stefkov, S. Kulevanova
*Polifenol and antioxidant capacity of Mountain tea (Sideritis scardica and Sideritis raeseri, Lamiaceae) from R. Macedonia*

V. Apostolovska, B. Petrovska, M. Matovska, E. Kralevska, M. Karapandzova, G. Stefkov, T. Kadikova Panovska, S. Kulevanova

**13.00-16.45**
*SPONSORED SYMPOSIUMS*

**Biljana Hall:**

**13.00-14.00**
*EUROFARM*

**Marija GLAVAS DODOV,**
Faculty of Pharmacy, University “Ss Cyril and Methodius”
*Modernization and efficiency of pharmaceutical service - a guide to good pharmaceutical practice and pharmaceutical care*

**Kristina MIRONSKA,**
University Clinic of Pediatrics, Skopje
*Use of medicines to support the immune system in childhood*

**Break**

**15.00-16.00**
*PHOENIX PHARMA*

**Branimir NESTOROVIC,**
University Clinic of Pediatrics, Belgrade
*Pharmacological and non-pharmacological treatment of cough*

**Zlata JANIC,**
Clinic of Plastic and Reconstructive Surgery, Novi Sad
*Modern and efficient treatment of scars*

**16.15-16.45**
*BELUPO*

**Agron STAROVA,**
Clinic of Dermatovenerology
*Therapy of superficial fungal skin infections*

**Lidija ARSOSKA,**
Belupo, Skopje
*Tetinax and Sona - new products in dermatology from Belupo*
Saturday, September 24th, 2011

09.00-13.00  
Biljana Hall: MEDICINAL AND AROMATIC PLANTS  
Chair: Svetlana KULEVANOVA, Tatjana KADIFKOVA-PANOVSKA  
09.00-09.20  
Slobodan MILOSAVLJEVIC  
Faculty of Chemistry, University of Belgrade  
Application of Nuclear Magnetic Resonance (NMR) methods for structure elucidation of natural products  
09.20-09.40  
Nebojsa MENKOVIC  
Institute of medicinal and aromatic plants “D-r Josif Pancic”, Belgrade  
The survey of species, belonging to Gentianaceae family of Central Balkans, pharmacognostically interesting  
09.40-10.00  
Gjose STEFKOV  
Faculty of Pharmacy, University “Ss Cyril and Methodius”  
Approaches in pharmacognosy research  
Break  
Chair: Svetlana KULEVANOVA, Gjose STEFKOV  
10.30-10.50  
Tanja PANOVSKA KADIFKOVA  
Faculty of Pharmacy, University “Ss Cyril and Methodius”  
Toxicological risks of herbal medicines  
10.50-11.10  
Marica MEDIC-SARIC  
Faculty of Pharmacy and Biochemistry, Zagreb  
Antiggregatory Effect Of Flavonoids  
11.10-11.30  
Marija KARAPANDZHOVA  
Faculty of Pharmacy, University “Ss Cyril and Methodius”  
Antimicrobial activity of Pinus peuce essential oil  
11.30-11.50  
Ivana CVETKOVIC  
Mediterranean Agronomic Institute of Chania, Crete  
Improving yeast strains, using recyclable integration cassettes and development of molecular tool for increased production of plant terpenoids  
11.50-12.10  
Jana KLOPCESKA  
Faculty of Technology and metallurgy, University “Ss Cyril and Methodius”  
Tools for experimental design and analysis of extraction process for plant matrices
09.00-14.00
Car Samuil Hall: PHARMACEUTICAL TECHNOLOGY AND BIOPHARMACY

Chair: Dominique DUCHENE, Atila HINCAL

09.00-09.30  Sema CALIS
Department of Pharmaceutical Technology, Faculty of Pharmacy, Hacettepe University, Ankara
*Medical Device / Drug Combination Products: A Perfect Mix for Biotherapeutics*

09.30-10.00  Christo TSVETANOV
Institute of Polymers, Bulgarian Academy of Sciences, Sofia
*From Hollow Polymeric Nanoparticles to Entrapped DNA*

10.00-10.30  Sasa BAUMGARTNER
Faculty of Pharmacy, University of Ljubljana
*How well do we understand the behaviour of polymer matrix tablets?*

10.30-11.00  Renata JACHOWICZ
Jagiellonian University Medical College, Cracow
*Current perspectives on disintegration evaluation of ODT*

Break

Chair: Sema CALIS, Christo TSVETANOV

11.20-11.35  Gjorgji PETRUSEVSKI
Alkaloid AD, Skopje
*Identification of different solid-state modifications of atorvastatin calcium in film-coated tablets by derivative FT-IR spectroscopy*

11.35-11.50  Janos CANADI
Faculty of Sciences, University of Novi Sad
*Molecular interactions between selected sodium salts of bile acids and morphine hydrochloride*

11.50-12.05  Bojan CALIJA
Faculty of Pharmacy, University of Belgrade
*Swelling and drug release properties of naproxen-loaded Ca-alginate microparticles reinforced with chitosan oligosaccharide*

12.05-12.20  Suncica JORDANOSKA
Alkaloid AD, Skopje
*Comparison of characteristics of granules and tablets produced in low shear and high shear granulator*
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<th>Institution</th>
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<td>12.20-12.35</td>
<td>Maja SIMONOSKA CRCAREVSKA</td>
<td>Faculty of Pharmacy, University “Ss Cyril and Methodius”</td>
<td>Physico-chemical properties of PLGA amphipilic nanoparticles and solid tumor targeting</td>
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<td>12.35-12.50</td>
<td>Nikola GESKOVSKI</td>
<td>Faculty of Pharmacy, University “Ss Cyril and Methodius”</td>
<td>99mTc radiolabeling methods of nanoparticles for biodistribution and efficacy studies</td>
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<td>09.00-11.20</td>
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<td>CLINICAL PHARMACY</td>
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<td>09.00-09.30</td>
<td>Slobodan APOSTOLSKI</td>
<td>Outpatient Neurological Clinic, Belgrade</td>
<td>Intravenous immunoglobulin in the treatment of neurological diseases</td>
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<td>09.30-10.00</td>
<td>Gordana KITEVA TRENCEVSKA</td>
<td>University Clinic of Neurology, Faculty of Medicine, Skopje</td>
<td>Congenital malformations and pharmacological treatment of epilepsy in pregnancy</td>
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<td>10.20-10.35</td>
<td>Ana POCEVA PANOVSKA</td>
<td>Faculty of Pharmacy, University “Ss Cyril and Methodius”</td>
<td>Optimization of ELISA method for determination of serum anti-GM1 antibodies</td>
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<td>10.35-10.50</td>
<td>Katerina BREZOVSKA</td>
<td>Faculty of Pharmacy, University “Ss Cyril and Methodius”</td>
<td>Characterization of glycoproteins isolated from human peripheral nerve and two Campylobacter jejuni O:19 isolates: enteritis and GBS associated</td>
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<td>10.50-11.05</td>
<td>Aleksandra GROZDANOVA</td>
<td>Faculty of Pharmacy, University “Ss Cyril and Methodius”</td>
<td>Induction of anti-ganglioside antibodies in Guillain-Barre Syndrome animal model</td>
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<td>11.05-11.20</td>
<td>Zoran STERJEV</td>
<td>Faculty of Pharmacy, University “Ss Cyril and Methodius”</td>
<td>Individualized epilepsy treatment with Carbamazepine and Valproic acid</td>
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11.30-14.00  
Biznis Hall: PHARMACEUTICAL CHEMISTRY/BIOMOLECULAR SCIENCIES  
Chair: Ljubica SUTURKOVA, Unsal CALIS  

11.30-11.45  
Arzum ERDEM  
Faculty of Pharmacy, Ege University, Izmir  
*Electrochemical monitoring of anti-cancer drugs – DNA interactions by single-use sensor platforms*  

11.45-12.00  
Emil POPOVSKI  
Institute of Chemistry, Faculty of Natural Sciences, University “Ss Cyril and Methodius”  
*(Benzamidomethyl)triethylammonium Chloride: A Mild and Versatile Reagent for Benzamidomethylation*  

12.00-12.15  
Jelena SAVIC  
Faculty of Pharmacy, University of Belgrade  
*Antiflammatory activity and docking studies of some β-hydroxy-β-aryl propanoic acids*  

12.15-12.30  
Zorica NAUMOSKA  
Faculty of Pharmacy, University “Ss Cyril and Methodius”  
*Phenylalanine derivates, new selective ligands for ampa- and kainate receptor subunits of ionotropic glutamate receptors*  

13.00-15.00  
Ohrid and Kaneo Halls  
POSTER SESSION 2  
PP-91 to PP-182  
*Authors of the posters should be present by their posters from 14.00 to 15.00*  

15.00-17.30  
Biznis Hall: WORKSHOP  
Organized by: Agilent/Pharmachem  
Moderators: Marjonka VELJANOVSKA, Darko STEVANOV-PAVLOVIC, Freek VAROSSIEAU  
Senior Product Specialist LabInformatics, Agilent Technologies  
*Agilent OpenLab: bringing instruments, data and people together*
Sebastian KUJUNDZIC, Darko STEVANOV-PAVLOVIC
Customer and Field Engineer,
DSP Chromatography/General Manager
Agilent Chromatography Tips and Tricks
15.00-16.00 Agilent OpenLab: bringing instruments, data and people together
16.00-16.30 Coffee break
16.30-17.30 Tips and Tricks for UHPLC analysis in optimization and the NEW ISET from Agilent

15.00-17.30 Car Samuil Hall: WORKSHOP
Organized by: ISPOR
Moderators: Ljubica SUTURKOVA, Aleksandar J. DIMOVSKI
ISPOR experiences
Speakers: Marcin CZECH, Dinko VITEZIC, Monika SZKULTECKA-DEBEK, Vladimir ZAH

13.00-16.15
13.00-13.30 Biljana Hall: SPONSORED SYMPOSIUMS
PLIVA
Marija ANTOVSKA
PLIVA 90 years of Tradition and quality
Nikola LABACEVSKI
ANDOL 100 – our past, present and future
Break
15.00-15.30 TOSAMA
Mojca SIMNIC-SOLINC,
Tosama DD Domzale, Slovenia
Honey in modern treatment of wounds

18.00-19.00 Biljana Hall: CLOSING CEREMONY
21.00 Hotel Bellevue: Farewell party
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го олеснува искашувањето и дишењето

Се препорачува кај деца и кај возрасни при:
- Заболувања на респираторниот систем кои се проследени со обилен секрет
- Воспаление на средното уво
- Воспаление на синусите

Пред употреба, внимателно да се прочита упатството!
За сите дополнителни информации, консултирајте се со Вашиот лекар или фармацевт.
PHARMACEUTICAL ANALYSIS/QUALITY ASSURANCE/REGULATORY AFFAIRS

PP-1  An RP-HPLC Study for the pKa Determination of Rizatriptan and its Impurities
Biljana Otašević, Mira Zečević, Zorica Vujić and Vesna Kuntić

PP-2  Solid-Phase Extraction of Ibuprofen from Pharmaceutical Cream
Slavica Sunaric, Milica Petkovic and Marko Denic

PP-3  Determination of Doxycycline in Pharmaceutical Samples by HPLC with UV detection
Slavica Sunaric, Sandra Stojanovic, Snezana Mitic

PP-4  Determination of ketoconazole in pharmaceutical formulations
Biljana Gjorgjeska

PP-5  Validation and quantification of Bacterial endotoxins in Solutions for haemodialysis AMINAL-100B and AMINAL-100K
Elizabeta Popovska, Hristina Babunovska, Silvana Illoska-Zlatanovic, Maja Simjanovska, Biserka Simonovska

PP-6  Development of an HPLC method for related and degradation products in Losartan film coated tablets
Marija Spasevska, Gordana Evgenievskas, Mena Ivanovska, Tatjana Bogovska, Hristina Babunovska

PP-7  Product Quality Review
Verce Jovanovska Jankovska, Jasminka Veleska Ivanovska, Sonja Sterjevska, Miroslava Ilievksa

PP-8  Five year experience in special quality control in the Croatian agency for medicinal products and medical devices
Mikučić D., Pipić-Kosanović M., Truban Žulj R., Tomić S.

PP-9  Analysis of purity in amlodipine tablets in Croatia
G. Benković, M. Sokolić, B. Ćudina, R. Truban Žulj, S. Tomić

PP-10  HPLC methods comparison for related and degradation products in Skopryl (Lisinopril) tablets
Cveta Dolikoska, Dafinka Damcevska, Blagica Samarova-Stoev, Ana Aleksandric, Hristina Babunovska

PP-11  HPLC method for determination of related and degradation substances in Amlodipine alkaloid® tablets
M. Dobrkvic, V. Dubrova-Koceva, S. Naumovska, N. Stojanovska, H. Babunovska

PP-12  HPLC method vs. UPLC method for quantitative determination of related substances in Metadon Chloride oral solution 10mg/ml
Sanja Despotovska, Mena Ivanoska, Milena Strezovska, Petranka Petruseva, Hristina Babunovska

PP-13  HPLC method vs. UPLC method for quantitative determination of related substances in Cefaclor capsules 500mg
Milosh Todorovski, Ana Giceva, Tasika Kovacević, Slavica Janeva, Hristina Babunovska
| PP-14 | The role of temperature dependence of chromatographic retention coefficient in separation of bile acids into congeneric groups  
Ana Pilipović, Mihaj Poša, Mladen Lalić |
| PP-15 | Validation of Cleaning process for equipment for wet granulation  
Gordana Evgenevska, Ana Giceva, Miona Manasova, Vasilka Dubrova, Hristina Babunovska |
| PP-16 | The quantitative structure-retention relationship (QSRR) analysis of some centrally acting antihypertensives and diuretics in cyclodextrin-mediated capillary electrophoresis  
Slavica Filipić, Katariна Nikolić, Irena Vovk, Mitja Krizman, Danica Agbaba |
| PP-17 | The effect of pH of the medium on dissolution of Omeprazol in Omezol cps.20mg  
Dragana Kafedziska, Sonja Naumovska, Blagica Samarova Stoev, Hristina Babunovska |
| PP-18 | Quality of glass surfaces cleaning products  
Olga Ortakova, Agim Ameti, Maja Shishovska, Dejan Stefanovski, Katerina Starkoska |
| PP-19 | Determination of Ferulic acid with RP-HPLC method in oral solution containing extract of Ferula assafoetida L. and Viscum album L.  
Jasmina Slavkovska, Maja Shishovska, Dragica Doneva, Zorica Arsova –Sarafinovska, Katerina Starkoska |
| PP-20 | Salting-out effects in the ether extraction of paracetamol  
| PP-21 | Saliva as an alternative matrix for TDM of AEDs: HPLC determination of Carbamazepine and Valproic acid in saliva of epileptic patients  
| PP-22 | Optimization of MELC Analysis of Pramipexole and Its Impurities  
A. Malenović, A. Vemić, N. Kostić, T. Rakić, B. Jančić-Stojanović |
| PP-23 | Central composition design in separation of ramipril and hydrochlorothiazide  
B. Jančić-Stojanović, B. Marković, A. Malenović, T. Rakić, A. Vemić, N. Kostić |
| PP-24 | Simultaneous analysis of taxifolin (dihydroquercetin) and Vitamin C by derivative UV spectroscopy and UPLC method  
Nada Pavicic, Ivan Velkinac, Ljiljana Milovanović |
| PP-25 | Approaching EU - a closer look into European procedures for registration of medicinal products: MRP and DCP  
Zorica Pejić, Tanja Nedjić |
| PP-26 | Which one is counterfeit drug?  
Golocorbin-Kon S., Mikov M. |
PP-27  Determination of all-rac-alpha-tocopherol and all-rac-alpha-tocopheryl acetate (synthetic vitamin E) in cosmetic preparations
Biljana Nasto, Sandra Atanasovska, Dragica Doneva, Zorica Arsova–Sarafinoska

PP-28  Degradation of Mycophenolate mofetil under oxidative stress conditions
Ana Protic, Ljiljana Zivanovic, Marina Radišić, Mila Laušević

PP-29  Validated HPLC method for determination of sildenafil in pharmaceutical dosage forms

PP-30  Effect of hydrodynamics on the dissolution test of BCS class II active component formulated as solid dosage form with immediate release
Irena Brašnarska, Nataša Karalić, Suzan Memed-Sejfulah, Sanja Simeonovska, Gjorgji Petruševski, Emi Kikovska-Stojanovska, Biljana Šapkareva, Sonja Ugarkovic

PP-31  HPLC method for determination of Diclofenac sodium and its impurities using “core-shell” technology

PP-32  Headspace gas chromatography method for determination of propylene glycol
M. Hadzieva, A. Poceva Panovska, K. Brézovska, L. Ugrinova, J. Tonic Ribarska, A. Dimitrovska

PP-33  Techniques for the preparation of biological samples: theoretical aspects of SPE
S. Petrovski, J. Tonic-Ribarska, S. Trajkovic-Jolevska

PP-34  Forced degradation study on Clopidogrel 75 mg film coated tablets as useful tool during analytical method development
Ksenija Brzilova, Ana Georgieva, Elena Kazandzievska, Gjorgji Petruševski, Suzan Memed-Sejfulah, Sanja Simeonovska, Biljana Šapkareva, Sonja Ugarkovic

PP-35  Development and optimization of a HPLC method for determination of clopidogrel-carboxilic acid, inactive metabolite of clopidogrel, in human plasma

PP-36  Optimization of method for determination of ACE inhibitors in human plasma based on enzyme-inhibitor binding assay followed by RP-HPLC
L.Bogdanovska, N.Nakov, V. Karcev, A. Dimitrovska, R. Petkovska

PP-37  Comparison of the hydrodynamic effects on the dissolution rate in the paddle apparatus and its design modifications
Blagica Debarlieva, Irena Brasnarska, Ema Kikovska-Stojanovska, Biljana Šapkareva, Sonja Ugarkovic

PP-38  Comparison of ion-pair HPLC and HILIC method for determination of cetylpiridinium chloride in pharmaceutical preparation
N.Nakov, L.Bogdanovska, L.Ugrinova, M.Hadzieva, R.Petkovska, A.Dimitrovska
PP-39  Experimental design of stress testing study for double active component system in drug product
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PP-40  Comparation of extraction efficiency of different organic solvents for simplification of Dimenhydranate components quantification
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PP-41  Adolor Gripo C as Cold Medicine Preparation – A Real and Permanent Analytical Challenge
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PP-42  Azithromycine HPLC Quantification Method – Concepts and Testing of Experimental Variables
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PP-43  Trimetazidine HPLC Method Optimization – Influence of Solubility Prescribed Medium on the Selection of Organic Modifier on Mobile Phase Composition
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PP-44  New bylaw on variations of marketing authorizations for medicinal products in the Republic of Macedonia, harmonization with the latest EU regulation
Vesna Nasteska-Nedanovska, Ilcho Zahariev, Marija Trajchuleski, Rajna Kostoska

PP-45  Classification of medicines as regards their supply, prerequisite for public health protection
Merjem Hadjihamza

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Mirjana Đermanović, Slobodan Stanic, Saša Marić

PP-47  Retail and reference prices of twenty most used medicines from the Positive list after the introduction of the reference pricing system in the Republic of Macedonia
Bistra Angelovska, Verica Ivanovska, Slavica Maleska Stojadinovik

PP-48  Analysis of the Consumption of Magistral and Galenic Medicines from 2001 to 2010 in the Public General Hospital Ohrid
Slavica Maleska Stojadinovik, Bistra Angelovska, Verica Ivanovska

PP-49  Cost – effectiveness analysis of antimicrobial drugs used in the treatment of acute exacerbations of chronic bronchitis and chronic obstructive pulmonary disease
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PP-50  Pharmaeconomic analysis of rivaroxaban for prevention of VTE in patients undergoing elective hip and knee replacement surgery
PP-51  Assessment report of adverse drug reaction received by healthcare professionals
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PP-53  Some issues in procurement of pharmaceuticals in Macedonia Wholesalers’ prospective
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PP-54  Evaluation of patient from different aged groups about their satisfaction with pharmaceutical community services in R.Macedonia

PP-55  The importance of Braille alphabet application on drugs packaging
Qendro Gentiana, Malaj Ledjan, Hoti Ela

PP-56  The role of pharmacists in decreasing antimicrobial resistance
Marija Nadaždin, Lela Radakovic, Martika Ivkovic

PP-57  E-Marketing – new routes to approach physicians and patients
Hristina Lebanova, D.K.Manolov, I. N. Getov

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Roland Antonić, Sandra Vezmar-Kovačević, Snežana Lukić

PP-59  Rational antibiotic therapy: what do our patients know?
Milica Pešić, Roland Antonić, Gorana Krstić, Gordana Stanisavljević, Snežana Mitić

PP-60  Identification of medical needs from primary health care databases in Albania
N. Kellici, M. Fida, A. Dibra, M. Miraci, S. Kellici

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PP-62  Determination of Aflatoxins in granular food with Charm II Analyzer
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PP-63  GSTP1, GSTM1 and GSTT1 genotypes and serum GST in male COPD
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PP-64  Characteristics of the water in Lake Ohrid and Biljana springs
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PP-65  Determination of Aluminum content in Drinking Waters by GFAAS
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| PP-67 | Assessment of Genotoxicity of Xenobiotics by RAPD-PCR | Darinka Gjorgieva, Tatjana Kadifkova-Panovska, Saša Mitrev, Emilija Kostadinovska, Biljana Kovacevik |
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| PP-69 | Oxidative damage of proteins in plasma of rats exposed to acute oral or intraperitoneal treatment with cadmium | Aleksandra Buha, Jelena Kotur-Stevuljevic, Zorica Bulat, Danijela Djukic-Cosic, Jasmina Ivanišević, Vesna Matović |
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| PP-71 | Trace elements levels in patients on treatment with atypical antipsychotics | Bojana Vidović, Brižita Đorđević, Zorica Bulat |
| PP-72 | Serum immune response for IgA and IgG antibodies of Helicobacter pylori from patients with gastric difficulties | Biserka Simonovska, Elizabeta Popovska, Nikola Simonovski, Slavko Kostoski |
| PP-73 | IgA and IgG antibodies - response in diagnosis of Helicobacter pylori infection in patients with gastric symptoms | Biserka Simonovska, Elizabeta Popovska, Nikola Simonovski |
| PP-74 | CLA-containing food supplements on Bulgarian market | Assena Stoimenova, Lili Peykova, Maria Kostova, Stefka Pankova, Kosta Todorov, Lidia Stoycheva, Danka Obreshkova |
| PP-75 | Healing of duodenal ulcer after eradication of Helicobacter pylori | S. Efremova, D. Efremova |
| PP-76 | Examination of glutathione protective role in acute intoxicity by lead and cadmium via activity of the liver endonucleases | R.S. Nikolić, J.M. Jovanović, N.S. Krsćić, M.N. Stanković, G.M. Kocić |
| PP-77 | Quality and safety of additives in meat products | Jakimova D., Angelova S., Kadikova Panovska T. |
| PP-78 | Enhanced Health Benefits of Macedonian Red Wines Associated to Color Characteristics, Anthocyanins and Total Polyphenols | Maja Dimitrovska, Mirjana Bocevska, Igor Spiroski |
| PP-79 | Determination of Coenzyme Q10 Content in Dietary Supplements and Raw Materials using HPLC-DAD | Maja Dimitrovska, Biljana Culeva, Anita Najdenkoska |
| PP-80 | Justification of the use of fungi in nutrition | Mileva Elena, Stefanoska Anita, Biljana Bauer Petrovska |
PP-81 Biochemical composition of the beverage produced by Japanese crystals
Biljana Bauer Petrovska, Svetlana Cekovska, Ljiljana Ugrinova, Biljana Chuleva, Gordana Jankoska

PP-82 Levels of some trace elements in some Macedonian Thymus spp.
Biljana Bauer Petrovska, Olga Kirovska Cigulevska

PP-83 Protective role of salivaric urea in cariogenic processes
D. Efremova, M. Spasovska, S. Neshova, T. Kadifkova Panovska

PP-84 Creatin Kinaza - MB (CK-MB) isoensyme, AMI evaluation marker
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PP-88 Oxidative stress status in children with pyelonephritis
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Natalija Krušarovska, Jane Bogdanov

PP-90 Validated HPLC-PDA method for determination of tramadol in human serum
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PP-92 Evaluation of spontane and cultivated flora of ”Brigade Palace” park
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PP-93 Fagopyrum esculentum-abiotic elicitation
Tůmová L., Martin J.
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75 years
unobstructed dialogue
with life

Our passion for perfection brought us where we stand today. The capability to remain on the top lies in our competence of finding the most quality approach that would satisfy the most sophisticated tastes and the most meticulous demands. To keep this advantage, we have invested our vigour, knowledge and experience thinking of those who need us the most. We are eager and ambitious to face every challenge... for better future... for everyone...