

FINAL PROGRAM



Congress of PHARMACY

**in North Macedonia
with international participation**

Ohrid, 5-9 October, 2022

MODERN TRENDS IN PHARMACY:

OPPORTUNITIES AND CHALLENGES

Distinguished scientists, researchers and practitioners in the field of pharmacy and other related fields

On behalf of the Scientific and Organizing Committees, it is our great pleasure to invite scientists, researchers and practitioners of pharmacy and other related professionals to participate in the **7th Congress of Pharmacy in North Macedonia with international participation** which will be held on October 5-9, 2022 in Ohrid. The hosts of the Congress are Macedonian Pharmaceutical Association and Faculty of Pharmacy, Ss. Cyril and Methodius University in Skopje.

We believe that scientific program including plenary lectures, oral presentations and poster sessions will result in enrichment of knowledge and exchange of experience among scientists, researchers and practitioners. The Congress will cover new challenges in all fields of pharmaceutical science and professional practice. It will provide an excellent opportunity for young scientists and researchers as well as renowned researches and practitioners to exchange opinions, introduce ground-breaking ideas and acquire new practical knowledge.

The exhibition of pharmaceutical companies and other companies belonging to the chain of suppliers of drugs and medicinal products will be an integral part of the Congress.

The attractive and rich social program will create a perfect atmosphere for connecting with longtime fellows, building long-lasting friendships and memorable friendly gatherings.

We look forward to welcoming you in Ohrid in October 2022, the beautiful Macedonian pearl, situated along the coast of Ohrid Lake.

Chair of Scientific Committee



Prof. Marija Glavas Dodov

Chair of Organizing Committee



Prof. Rumenka Petkovska

YOUR HOSTS

Macedonian Pharmaceutical Association



Faculty of Pharmacy Ss. Cyril and Methodius University in Skopje

FOR ALL INFORMATION REGARDING THE CONGRESS
PLEASE VISIT THE CONGRESS OFFICIAL WEB-PAGE

<http://congress.mfd.org.mk/en/home/>

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Wednesday, October 5th, 2022

10:00 – 18:00 Registration

HALL BILJANA (HALL 1)

18:00 – 19:30 Opening ceremony

Welcome address

President of Organizing Committee – Rumenka Petkovska

Dean of Faculty of Pharmacy, Ss. Cyril and Methodius University in Skopje –

Zoran Sterjev

President of Scientific Committee – Marija Glavas Dodov

Opening lecture:

Drug discovery and bioexploration of nature: toxins, friend or foe?

Jan Tytgat, Faculty of Pharmaceutical Sciences, Catholic University of Leuven,
Belgium

HALL BELLEVUE

20:00-22:00 Welcome cocktail

HALL BILJANA (HALL 1)

9:00 – 12:00 PLENARY SESSION

Chair persons: Svetlana Kulevanova, Ales Mrhar

9:00-9:30 *Family pharmacist: a Belgian view on the future role of the pharmacist*

Hendrik De Rocker, Pharmacist – Secretary General (Dutch), APB, Brussels, Belgium

9:30 – 10:00 *Searching for bioactive compounds against SARS-CoV-2 from traditional Chinese medicines*

Yang Ye, Deputy Director of Shanghai Institute of Materia Medica, Shanghai, PR China

10:00 – 10:30 *Mini-tablets for drug delivery in individual therapy*

Janina Lulek, Chair of Department of Pharmaceutical Technology, Poznan University of Medical Sciences, Poland

10:30-11:00 COFFEE BREAK

11:00-11:30 *Targeting cell fitness competition to induce beta-cell regeneration in diabetes – on the route from scientific to drug discovery*

Slavica Tudzarova, Endocrinology/Medicine and Jonsson Comprehensive Cancer Center, University of California, Los Angeles, USA

11:30-12:00 *Bacteriophage therapy for infectious diseases*

Hari Polenakovik, MD FACP FIDSA, Professor of Medicine, Boonshoft School of Medicine – Wright State University, Dayton VAMC, USA

Thursday, October 6th, 2022

HALL BILJANA (HALL 1)

Professional Symposiums (sponsored)

12:30-14:00 ALKALOID AD, Skopje



14:30-15:00 SALVEO dooel, Skopje,



HALL BILJANA (HALL 1)

15:30 – 18:30 Session: PHARMACOECONOMY/DRUG INFORMATION

Chair persons: Ljubica Suturkova, Zoran Sterjev

15:30-15:50 *The increasing role of health economics in the HTA of COVID19-vaccines* – Maarten Postma

15:50-16:10 *The National Medicines Policy 2018-22 in Poland. From creation to implementation* – Marcin Czech

16:10-16:30 *Pharmacoeconomics and safety; What is the economic and health impact of reducing inappropriate inhaled corticosteroids use in patients with chronic obstructive pulmonary disease?* – Tanja Fens

16:30-16:50 *Meeting the affordability challenges in the access of drugs for rare disease in the RN Macedonia* - Aleksandra Kapedanovska Nestorovska

16:50-17:10 COFFEE BREAK

17:10-17:25 *Changes in the R&D process and consequences on drug pricing* – Rubin Zareski

17:25-17:40 *Management of national pricing policy of medicines* - Kristina Hristov

17:40-17:55 *Comparison of Parallel Trade in North Macedonia and Parallel Import in EU* – Bojana Danilovska Brashnarska

17:55-18:10 *Monitoring and reporting of off-label use of drugs through pharmacovigilance system* – Jehona Aliju Shakiri, Zorica Naumovska

18:10-18:30 Discussion

Thursday, October 6th, 2022

HALL CAR SAMOIL (HALL 2)

15:30 – 18:30 Session: CARREER OPPORTUNITIES/STUDENTS' ORAL PRESENTATIONS

Chair person: Jasmina Tonic Ribarska

15:30-15:50 Alkaloid's young talents program - Tane Murgoski

15:50-16:00 Regulatory procedures - Semra Bejtovic

16:00-16:10 Development of new generic drug formulation and process - Biljana Temelkovska

16:10-16:20 Discussion

BUSINESS HALL (HOTEL Metropol)

12:30-14:30 Poster sessions/Exhibition

HALL CAR SAMOIL (HALL 2)

15:30 – 18:30 Session: CAREER OPPORTUNITIES/STUDENTS' ORAL PRESENTATIONS

Chair persons: Natalija Nakov, Nikola Geskovski

16:20-16:30 *Pharmacy students' experience during the Covid-19 pandemic and its impact on their health, academic endeavors and overall perceptions-a study* – Metodi Naumoski

16:30-16:40 *Evaluation of antioxidant properties of Hypericum perforatum and Calendula officinalis extracts as well as CBD oil for the treatment of chronic wound* - Anastazija Cenova

16:40-16:50 *Formulation and characterization of snail slime-chitosan microparticles with herbal extracts intended for treatment of chronic wounds* - Martina Nestorovska

16:50-17:10 COFFEE BREAK

17:10-17:20 *Image analysis of surface colour of film-coated tablets* – Iskra Velevska

17:20-17:30 *Drug abuse and misuse: Core knowledge, attitudes and opinions of pharmacy students and community pharmacists in Republic of North Macedonia* – Meni Stevanovska

17:30-17:40 *Correlation of Vitamin D and Zinc concentration with therapy outcome in epilepsy patients from Republic of North Macedonia* – Damjan Georgievski

17:40-17:50 *Resource assessment of bilberries on Kozuf Mtn., R.N. Macedonia* – Filip Todorov

17:50-18:00 *COVID-19 vaccine acceptance among university students in Republic of North Macedonia* – Mateja Stojceva

18:00-18:10 *Stereomicroscopy as a potent analytical method for detection of glass micro-particles generated during snap-opening of ampoules* – Margarita Taneva

18:10-18:20 *Evaluation of patient-centered counselling in Macedonian community pharmacies* – Magdalena Radovikj

18:20-18:30 *Individual variability of the cannabinoids' content in outdoor cultivated Bubba Kush x OG Kush Cannabis strain* – Andrea Belazelkoska

HALL BILJANA (HALL 1)

9:00 – 12:00 Session: PHARMACEUTICAL CHEMISTRY/BIOMOLECULAR SCIENCES AND CLINICAL PHARMACY

Chair persons: Ljubica Suturkova, Aleksandar Dimovski

9:00-9:20 Clinical Pharmacist – Psychopharmaca: from Pharmacokinetics to Clinical Outcomes – Ales Mrhar

9:20-9:40 Next generation therapeutic biodrugs - Slavica Tudzarova

9:40-10:00 Pharmacological applications of modulators of oxidative stress – Luciano Saso

10:00-10:20 Acylcarnitines in health and disease: biomarkers and drug targets – Maija Dambrova

10:20-10:40 COFFEE BREAK

10:40-11:00 Short synthetic oligonucleotides as therapeutic or diagnostic tools – Marija Taskova

11:00--11:10 COVID-19 vaccination in rituximab-treated patients with rheumatic disorders – Evgenija Mihajloska

11:10--11:20 Concomitant influence of CYP2D6 phenotype and ABCB1 overall haplotype/genotype on pharmacokinetics of risperidone and 9-hydroxyrisperidone in healthy volunteers – Aleksandar Dimkovski

11:20-11:30 Targeting the oxidative stress in neurodegenerative disorders with multifunctional benzimidazole and indole hybrids – Neda Anastassova

11:30-11:40 Antioxidant properties of a novel triazole ligand – Lozan Todorov

11:40-11:50 A new series of chalcones endowed with potent anticancer activity towards A549 cells – Ahmet Özdemir

11:50-12:00 Discussion

HALL BILJANA (HALL 1)

Professional Symposiums (sponsored)

12:30-13:30 PLIVA-TEVA dooel, Skopje



PLIVA



14:00-15:00 KRKA-FARMA dooel, Skopje



15:30-16:30 Novo Nordisk Farma dooel, Skopje

17:00-17:30 Galenika dooel, Skopje



Galenika

17:40-18:10 LEK SKOPJE dooel

HALL CAR SAMOIL (HALL 2)

9:00 – 12:00 Session: PHARMACEUTICAL TECHNOLOGY AND BIOTECHNOLOGY/BIOPHARMACY AND COSMETOLOGY

Chair persons: Katerina Goracinova, Maja Simonoska Crcarevska, Rok Dreu, Nikola Geskovski

9:00-9:25 Nanotechnology in medicine – our experiences – Katerina Goracinova

9:25-9:50 Accurate and controlled coating of particles and tablets – Rok Dreu

9:50-10:15 Orally Disintegrating Tablets (ODTs): An innovative approach to tablet formulations – Tansel Comoglu

10:20-10:40 COFFEE BREAK

10:40-10:55 Lipid nano-carriers with herbal extracts for targeted brain delivery and treatment of CNS disorders – Dushko Shalabalija

10:55-11:10 Insight into the efficacy of lipid nano-systems for brain delivery - uptake and internalization pathways in different cell culture lines – Ljubica Mihailova

11:10-11:25 Improvement of content uniformity in low-dose powder blends: critical formulation and process variables – Liljana Makraduli

11:25-11:40 Applicability of Expert system for drug development as a tool for co-processed excipients formulation development – Ivana Vasiljevic

11:40-12:00 Discussion

HALL OHRID (HALL 3)

9:00 – 12:00 Session: SOCIAL PHARMACY/PHARMACEUTICAL LAW

Chair persons: Aleksandra Grozdanova, Katerina Ancevska Netkovska

9:00-9:30 *The travails of health policy making: from planning to implementation* - Husein Reka

9:30-10:00 *The role of the pharmacist in patient-centered medicine practices: current perspectives* - Jelena Micik

10:00-10:20 *Impact of the SARS-CoV-2 pandemic on routine immunization of the population in the Republic of North Macedonia* - Zana Mustafa

10:20-10:40 COFFEE BREAK

10:40-11:00 *"Skinny labelling" pathway: an instrument for circumventing second medical use patents by generic companies* - Marija Mitkovska

11:00-11:20 *Self-reported anxiety levels in a cluster of Albanian University students: a comparative study* - Suela Kellici

11:20-11:40 *Intellectual property rights and advertising of cosmetic products in Republic of North Macedonia* - Biljana Nestorovska

11:40-12:00 Discussion

BUSINESS HALL (HOTEL Metropol)

12:30-14:30 Poster sessions/Exhibition

HALL BILJANA (HALL 1)

9:00 – 12:00 Session: COMMUNITY PHARMACY/HOSPITAL PHARMACY

Chair persons: Aleksandra Kapedanovska Nestorovska, Maja Simonoska Crcarevska

9:00-9:20 Polish community pharmacies – new solutions and changes step by step – Mikołaj Konstanty

9:20-9:40 Hospital Pharmacists' Preparedness in Times of Crisis – Nenad Miljkovic

9:40-10:00 The role of hospital pharmacists during Covid-19 pandemic in the Republic of North Macedonia - Zorica Naumovska

10:00-10:20 How to integrate the Pharmacy Game in your Pharmacy Curriculum? - Tanja Fens

10:20-10:40 COFFEE BREAK

10:40-10:50 Building a draft national strategy for implementation of pharmaceutical care in patients with chronic diseases in Republic of North Macedonia - Donka Pankov

10:50-11:00 Regulatory aspects of introducing new health services in the community pharmacies in RN Macedonia – Jasminka Patcheva

11:00-11:10 The ethical dilemmas in community pharmacy practice: quantitative study in Macedonia – Kiril Georgiev

11:10-11:20 Pharmaceutical care in COPD patients: experience and expectations – Biljana Bozhinovska

11:20-12:00 Discussion

HALL BILJANA (HALL 1)

Professional Symposiums (sponsored)

12:30-13:30 EUROFARM dooel, Bitola



14:00-15:00 REPLEK AD, Skopje



15:30-16:30 SEPTIMA dooel, Skopje



HALL CAR SAMOIL (HALL 2)

9:00 – 12:00 Session: PHARMACEUTICAL ANALYSIS/QUALITY ASSURANCE/REGULATORY AFFAIRS

Chair persons: Aneta Dimitrovska, Suzana Trajkovikj Jolevska

9:00-9:20 Cannabis for Medicinal purposes – Quality control criteria and methods – Luis Meirinhos-Soares

9:20-9:40 Contribution of Raman chemical imaging for the analysis of falsified and substandard medical products – Hervé Rebiere

9:40-9:55 The GEONs API-fingerprint program: tackling falsifications of APIs – Eric Deconinck

9:55-10:10 Static and dynamic quantum mechanical methods for exact interpretation of infrared multiple photon dissociation spectra: current state and development perspectives – Blagoj Achevski

10:10-10:20 Discussion

10:20-10:40 COFFEE BREAK

10:40-10:55 A regulatory perspective: Examples from microbiological quality control of non-sterile medicinal products – Sanja Milovanovic

10:55-11:10 Determination of nitrosamines in different pharmaceutical forms – John Upton

11:10-11:25 Possibilities and challenges of “green” chromatographic solutions – Natalija Nakov

11:25-11:40 Scientific approach and implementation of a measurement uncertainty in mass balance determination - Maja Hadzieva Gigovska

11:40-12:00 Discussion

HALL OHRID (HALL 3)

9:00 – 12:00 Session: CLINICAL BIOCHEMISTRY/TOXICOLOGY/FOOD AND NUTRITION

Chair persons: Tatjana Kadifkova Panovska, Marija Hiljadnikova Bajro, Tanja Petreska Ivanovska

9:00-9:20 *The Medical Biochemistry and Laboratory Medicine are important diagnostic branches -*
Snezana Jovicic

9:20-9:40 *Better understanding of dietary fats – a path to better health -* Sladjana Sobajic

9:40-9:55 *Relevance of dietary and lifestyle patterns in metabolic syndrome management -* Tanja Petreska Ivanovska

9:55-10:10 *Toxicity assessment of weight loss supplements and possible interaction risk with lipid-lowering and antihypertensive drugs in HepG2 cell line -* Zoran Zivic

10:20-10:40 COFFEE BREAK

10:40-10:55 *The importance of AKR1D1 enzyme in drug metabolism –* Kristina Shutevska

10:55-11:10 *Influence of the nitrification stage of biological treatment to the levels of nitrogen compounds in wastewater treatment -* Aleksandra Mitevska

11:10-11:25 *Alcohol involvement in fatal traffic accidents -* Marija Bujaroska

11:25-11:40 *Genetic alterations landscape of lung cancer patients and their therapeutic value: an overview -* Milka Ljonceva

11:40-12:00 Discussion

BUSINESS HALL (HOTEL Metropol)

12:30-14:30 Poster sessions/Exhibition

HOTEL GRANIT

18:00-19:00 CLOSING REWARDS

AND

BEST STUDENT'S ORAL/POSTER PRESENTATION AWARD CEREMONY



Venue Location

The Congress will be held in **Metropol Lake Resort**, Ohrid, Republic of North Macedonia

Location: Settlement Konjsko, Ohrid 6000

Phone: +389 46 203 000

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JOINED EVENT:

11th Conference of Medicinal and Aromatic Plants of Southeast European Countries (CMAPESEC)

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