

# SCIENTIFIC PROGRAM

**FRIDAY, 3.09.2021**

**15.00 – 17.00 Registration Hotel Victoria**

**17.00 – 17.10 Opening Ceremony**

**17.10 – 18.10 Inaugural Lecture (IL) Hotel Victoria**

**Rector of the Medical University of Lublin**

**Professor, MD, PhD Wojciech Załuska**

**18.10 Concert**

**19.00 Welcome reception**

**SATURDAY, 4.09.2021 Hotel Victoria**

**9.30 – 10.15 Lectures L1 (45')**

**10.15 – 11.15 Communications C1 – C3 (20')**

*Session moderators: Jadwiga Handzlik & Dariusz Matosiuk*

**L1**

*Lhassane Ismaili, Neurosciences EA, University Bourgogne Franche-Comté*

*„Environmentally friendly development of Multi-Target-Directed Ligands for Alzheimer’s Disease”*

**C1**

*Dawid Panek, Jagiellonian University Medical College, Cracow, Poland*

*„Modulation of cholinergic and GABAergic neurotransmissions as a new strategy in Alzheimer’s disease treatment”*

**C2**

*Tomasz Wichur, Jagiellonian University Medical College, Cracow, Poland*

*„Translating efficacy of combination therapy with 5-HT6R antagonist and cholinesterase inhibitor into novel multifunctional ligands against Alzheimer’s disease”*

**C3**

*Katarzyna Szczepańska, Jagiellonian University Medical College, Cracow, Poland*

*„Dual histamine H3 and sigma-1 receptor ligands as novel pharmacological tools in the treatment of central nervous system disorders with the focus on neuropathic pain”*

**11.15 – 11.45 Coffee break**

**11.45 – 13.25 Communications C4 – C8 (20')**

*Session moderators: Katarzyna Kieć-Kononowicz & Lucjusz Zaprutko*

**C4**

*Wojciech Płaziński, Jerzy Haber Institute of Catalysis and Surface Chemistry*

*Polish Academy of Sciences, Cracow, Poland*

*„Chirality-related effects in biomolecular systems: methodologies for calculating the relative free energies by molecular dynamics simulations”*

**C5**

*Wojciech Pietruś, Maj Institute of Pharmacology, Polish Academy of Sciences, Cracow, Poland*

*„The role and significance of fluorine in medicinal chemistry - a review of in silico research”*

**C6**

*Beata Kolesińska, Lodz University of Technology, Poland*

*„Hybrid polysaccharide-peptide materials useful in the treatment of difficult-to-heal wounds”*

**C7**

*Michał Marszał, Nicolaus Copernicus University in Torun, Collegium Medicum in Bydgoszcz, Poland*

*„Implementation of medical and pharmaceutical research to clinical practice”*

**C8**

*Katarzyna Wójcik-Pszczola, Jagiellonian University Medical College, Cracow, Poland*

*„Novel 8-alkoxy- and 8-aminopurine-2,6-dione-based phosphodiesterase inhibitors as promising anti-asthmatic agents”*

**13.25 – 15.00 Lunch**

**15.00 – 16.30 Lecture L2 & L3 (45')**

*Session moderators: Barbara Malawska & Paweł Zajdel*

**L-2**

*David Nichols, Purdue University College of Pharmacy, West Lafayette,*

*LA, USA*

*„Overview of Medicinal Chemistry Research on Psychedelics”*

**L-3**

*Steffen Pockes, Institute of Pharmacy, University of Regensburg*

*„Development of selective caspase-2 inhibitors for the treatment of neurodegenerative disease”*

**16.30 – 17.00 Coffee break**

**17.00 – 18.10 Poster oral presentations PP1 – PP7 (10')**

*Session moderators: Zofia Mazerska & Marcin Mączyński*

**PP1**

*Michał Kosno, Gdansk University of Technology, Poland*

*„Unique physicochemical properties of the unsymmetrical bisacridines and their importance”*

**PP2**

*Tomasz M. Wróbel, University of Copenhagen, Denmark; Medical University of Lublin, Poland*

*„Non-steroidal CYP17A1 inhibitors”*

**PP3**

*Marek Jamrozik, Jagiellonian University Medical College, Cracow, Poland*

*„Molecular modeling of carbonyl reductase 1 and aldo-keto reductase 1C3 as new molecular targets in supporting cancer therapy”*

**PP4**

*Aleksandra Czerchawy, Lodz University of Technology, Poland*

*„Searching of biologically active fragments of hACE2 protein able to interact with S1 protein subunit of the SARS-CoV-2 virus”*

**PP5**

*Natalia Kocot, Collegium Medicum in Bydgoszcz, Nicolaus Copernicus University in Torun, Poland*

*„Application of immobilized lipases on Octyl-Sepharose CL-4B carrier as potential biocatalysts in obtaining pure enantiomers of NSAIDs”*

**PP6**

*Paweł Nowak, Nicolaus Copernicus University in Torun, Poland*

*„Interaction of HSA immobilized on magnetic nanoparticles with ketoprofen under artificially induced oxidative stress conditions”*

**PP7**

*Magdalena Dziurzyńska, Cracow University of Technology, Poland*

*„Activation of the dopamine D4 receptor – theoretical study”*

**17.30 – 18.30 Poster session**

**20.00 – 24.00 Get-together Party (Hotel Victoria)**

**SUNDAY, 5.09.2021 Hotel Victoria**

**9.15 – 10.35 Communications C9 – C12 (20’)**

*Session moderators: Dorota Piotrowska & Tomasz Gośliński*

**C9**

*Paweł Kafarski, Wroclaw University of Science and Technology, Poland*

*„Phosphonic acid analogues of phenylalanine as inhibitors of amino peptidases”*

**C10**

*Wojciech Szymanowski, Medical University of Bialystok, Poland*

*„Mucin 1 as a molecular target of a novel diisoquinoline derivative combined with anti-MUC1 antibody in MCF-7 breast cancer cells and AGS gastric cancer cells”*

**C11**

*Anna Szymanowska, Medical University of Bialystok, Poland*

*„Synthesis of novel sulfonamide pyrazolo[4,3-e]tetrazolo-[4,5-b][1,2,4]triazine derivatives and their proapoptotic effect on colon cancer cell lines DLD-1 and HT-29”*

**C12**

*Kamila Buzun, Medical University of Bialystok, Poland*

*„Anticancer activity of a new 2-thioxo-4-thiazolidinone derivative Les-3331 against MDA-MB-231 cancer cell line”*

**10.35 – 11.05 Coffee break**

**11.05 – 12.45 Communications C13 – C17 (20’)**

*Session moderators: Anna Bielawska & Krzysztof Bielawski*

**C13**

*Tomasz Koczorowski, Poznan University of Medical Sciences, Poland*

*„The power of a conjugated macrocyclic system and a metal ion complexation - porphyrazines as catalysts”*

**C14**

*Jacek Dulęba, Collegium Medicum in Bydgoszcz, Nicolaus Copernicus University in Torun, Poland*

*„The application of lipase Amano PS from Burkholderia cepacia as the potential biocatalyst in the reactions with pharmaceutical significance”*

**C15**

*Aleksandra Murzyn, Jagiellonian University, Cracow, Poland*

*„Multi-module pancreatic cancer therapy with the novel gold nanorod-based nanotherapeutic”*

**C16**

*Marek Staszewski, Medical University of Lodz, Poland*

*„Guanidine derivatives: From Broadened Bio-activity Profiling of Histamine H3R Antagonists to the Discovery of Potent Muscarinic M2R/M4R Antagonists”*

**C17**

*Przemysław Kołodziej, Medical University of Lublin, Poland*

*„Assessment of the nematocidal effect of some newly synthesized triazole derivatives”*

**13.00 – 14.30 Lunch**

**14.30 – 15.30 Communications C18 – C20 (20’)**

*Session moderators: Beata Morak-Młodawska & Łukasz Popiołek*

**C18**

*Kinga Mylkie, Academia Scientiarum Thoruniensis, Doctoral School of Exact and Natural Sciences, Poland*

*„Magnetic nanoparticles coated with modified starch for protein immobilization”*

**C19**

*Tomasz Laskowski, Gdansk University of Technology, Poland*

*„NMR studies on the antitumor acridine derivatives and their interactions with nucleic acids”*

**C20**

*Prezentacja firmy ABL&E-JASCO Polska Sp. z o.o., sponsora Konwersatorium*

**15.30 – 16.00 Coffee break**

**16.00 – 17.00 Poster oral presentations PP8 – PP13 (10')**

*Session moderators: Monika Wujec & Roman Lesyk*

**PP8**

*Łukasz Balewski, Medical University of Gdansk, Poland*

*„Synthesis, structure and cytotoxic evaluation of novel imidazo[2,1-c][1,2,4]triazole derivatives”*

**PP9**

*Tadeusz Karcz, National Institute of Environmental Health Sciences, NIH, Research Triangle Park, North Carolina, USA; Jagiellonian University Medical College, Krakow, Poland*

*„Identification of purinergic receptor P2Y<sub>14</sub> as a potential therapeutic target in allergic asthma”*

**PP10**

*Piotr Stępnicki, Medical University of Lublin, Lublin, Poland*

*„Synthesis and affinity studies of novel piperazine-based compounds as potential antipsychotics”*

**PP11**

*Damian Kułaga, Cracow University of Technology, Poland*

*„Design and synthesis of new potent 5-HT<sub>7</sub> receptor ligands as a candidates for the treatment of central nervous system diseases”*

**PP12**

*Justyna Górską, Gdansk University of Technology, Poland*

*„Aromatic analogues of amphotericin B. How to isolate this promising agents for antifungal therapy?”*

**PP13**

*Valery Lutsyk, Jerzy Haber Institute of Catalysis and Surface Chemistry*

*Polish Academy of Sciences, Cracow, Poland*

*„Conformational properties of glycosaminoglycan building blocks: molecular dynamics simulations”*

**16.00 – 17.00 Poster session**

**17.00 Closing of the conference**