

SCIENTIFIC PROGRAM

THURSDAY 14.09.2023

15.00 – 17.00 Registration Hotel Victoria

17.00 – 17.10 Opening Ceremony

17.10 – 18.10 Inaugural Lecture (IL) Hotel Victoria

Marco L. Lolli, University of Turin, Turin, Italy

“Human dihydroorotate dehydrogenase (hDHODH) as drug target: who is going to win the hDHODH golden rush?”

18.10 – 18.40 Memories of the Professor Franciszek Sączewski

Anita Kornicka, Medical University of Gdańsk

18.40 Concert

19.30 Welcome reception

FRIDAY, 15.09.2023 Hotel Victoria

9.30 – 10.15 Lectures L1 (45')

10.15 – 11.30 Communications C1 – C3 (20')

Session moderators: Katarzyna Kieć-Kononowicz & Dariusz Matosiuk

L1

Manuela Jörg, Monash University, Melbourne, Victoria, Australia

„Development of novel bivalent chemical probes to interrogate human biology”

C1

Katarzyna J. Malawska, The University of Tokyo, Tokyo, Japan

„Bioconjugation of Au₂₅ Nanocluster to Monoclonal Antibody at Tryptophan”

C2

Vittorio Canale, Jagiellonian University Medical College, Kraków, Poland

„Medicinal mechanochemistry, an emerging strategy for a sustainable synthesis of biologically active compounds”

C3

Mirosław Danch, ABL&E-JASCO Polska Sp. z o.o.

11.30 – 12.00 Coffee break

12.00 – 14.00 Communications C4 – C8 (20')

Session moderators: Barbara Malawska & Tomasz Gośliński

C4

Bartłomiej Rogalewicz, Lodz University of Technology, Łódź, Poland

„Physicochemical characterization and anticancer activity of the new imipramine based Co(II), Pd(II) and Mn(II) compounds”

C5

Agnese C. Pippione, University of Turin, Turin, Italy

„New AKR1C3 inhibitors to target prostate cancer”

C6

Magdalena Wujak, Collegium Medicum in Bydgoszcz, Nicolaus Copernicus University in Toruń, Poland

„Uncovering new anti-tumor mechanisms of different generation tyrosine kinase inhibitors: focus on ATP-adenosine pathway in lung cancer”

C7

Greta Klejborowska, University of Antwerp, Wilrijk, Belgium

„Inhibiting ferroptosis: design, synthesis and biological evaluation of novel lipophilic radical traps”

C8

Andrzej Polski, Ryvu Therapeutics S.A., Kraków, Poland

„Formulations for Preclinical Studies: An Introduction and Case Studies”

14.00 – 15.30 Lunch

15.30 – 16.00 Poster oral presentations PP1 – PP5 (10')

Session moderators: Jadwiga Handzlik & Paweł Zajdel

PP1

Kamil Piska, Jagiellonian University Medical College, Kraków, Poland

„The Role of Carbonyl Reduction of Anthracyclines in Cancer Resistance”

PP2

Łukasz Popiołek, Medical University of Lublin, Lublin, Poland

„Substituted benzenesulfonyl hydrazones: synthesis and in vitro bioactivity study”

PP3

Michał Jastrzębski, Medical University of Lublin, Lublin, Poland

„Deciphering the multi-target mechanism of action of D2AAK1 for potential treatment of neurodegenerative diseases”

PP4

Przemysław Zaręba, Cracow University of Technology, Kraków, Poland

„Sulfonamide derivatives of cyclic arylguanidines as a new scaffold for 5-HT₆R ligand design”

PP5

Angelika Grudzińska, Medical University of Lublin, Lublin, Poland
 „D2AAK5 and its derivatives as ligands for serotonin receptors”

16.00 – 17.30 Poster session

SATURDAY, 16.09.2023 Hotel Victoria

9.00-10.30 Communications C9 – C12 (20')

Session moderators: Anna Bielawska & Krzysztof Bielawski

C9

Liwia Lebelt, Medical University of Lodz, Łódź, Poland

„The phosphonate analogues of amino (hydroxy) carboxylic acid with potential biological activity”

C10

Aleksandra Trocha, Medical University of Lodz, Łódź, Poland

„New aminoalkylphosphonates with potential biological activity”

C11

Damian Kułaga, Cracow University of Technology, Kraków, Poland

„The impact of structural modifications of the compound DK-PR6 on its affinity to the 5-HT₇ receptor and the evaluation of metabolic stability using mouse liver microsomes”

C12

Anita Płazińska, Medical University of Lublin, Lublin, Poland

„Understanding the pharmacology of the β 2-adrenergic receptor: Comprehensive toxicological and molecular docking analyses of beta-mimetics and beta-blockers in zebrafish”

10.30-11.30 Lecture L2

Session moderators: Monika Wujec & Marcin Mączyński

Roman Lesyk, Danylo Halytsky Lviv National Medical University, Lviv, Ukraine

„Thiazole/thiazolidinone-based derivatives. 20-year experience in the search for new biologically active molecules”

11.30 – 12.10 Coffee break

12.10 – 14.00 Communications C13 – C17 (20')

Session moderators: Dorota Piotrowska & Marcin Kołaczkowski

C13

Dorota Chelminiak-Dutkiewicz, Nicolaus Copernicus University of Toruń, Toruń, Poland

„New materials based on polysaccharides with natural active substances for potential wound dressing applications”

C14

Angelika Becht, Lodz University of Technology, Łódź, Poland

„Selection of protein fragments important in the regeneration of hard-to-heal wounds (DFU)”

C15

Krzyszimir Ciura, Medical University of Gdansk, Gdańsk, Poland

„Application of bio-chromatographic methods to evaluate drug candidates”

C16

Sylvia Mroszczyk, Medical University of Lublin, Lublin, Poland

„Facts and myths about italian Dolce - Vita - interdisciplinary about coffee”

C17

Paweł Śliwa, Cracow University of Technology, Kraków, Poland

„Dynamics and binding energy of antagonists and agonists to the dopamine D4 receptor”

14.00 – 15.30 Lunch

15.30 – 17.00 Communication C18 and Poster oral presentations PP6 – PP10 (10')

Session moderators: Beata Morak-Młodawska & Łukasz Popiołek

C18

Zbigniew Leśniowski, Institute of Medical Biology PAS, Łódź, Poland

„National Library of Chemical Compounds”

PP6

Kinga Mylkie, Nicolaus Copernicus University of Toruń, Toruń, Poland

„Magnetic nanoparticles coated with chitosan with free dihydroxyboryl groups for fast binding of glycoproteins”

PP7

Aleksander Smolarkiewicz-Wyczachowski, Nicolaus Copernicus University of Toruń, Toruń, Poland

„Hemoglobin-based nanomaterials as potential drug carriers in Photodynamic Therapy (PDT)”

PP8

Sara Janowska, Medical University of Lublin, Lublin, Poland

“Synthesis and Antimicrobial Activity of New Mannich Bases”

PP9

Krzysztof Romaniuk, Lodz University of Technology, Łódź, Poland

„Synthesis and characterization of substrates for the preparation of long-acting insulin analogs. Triazine condensing reagents in the synthesis of insulin analogs”

PP10

Monika Pitucha, Medical University of Lublin, Lublin, Poland

„Application of HPLC and FTIR methods to evaluate immobilization of a new antimicrobial substance on a biomaterial”

17.00 Closing of the conference and award ceremony

20.00 – 24.00 Get-together Party (Hotel Victoria)