

SCIENTIFIC PROGRAM

THURSDAY, 15.09.2016 Collegium Maius ul. Jaczewskiego 4

15.00 – 17.00 Registration

17.00 – 17.10 Opening Ceremony

17.10 – 18.10 Inaugural Lecture (IL)

Muñoz-Torrero Diego, University of Barcelona, Spain

„Novel multitarget drug candidates that are effective in an animal model of Alzheimer’s disease”

18.10 Concert

19.00 Welcome reception

FRIDAY, 16.09.2016 Collegium Maius ul. Jaczewskiego 4

9.00 – 10.30 Lectures L1 & L2 (45’)

Session moderators: Turło Jadwiga & Matosiuk Dariusz

L1

Pages Jean-Marie, UMR-MD1, Aix Marseille Université/IRBA, Marseille, France

„Membrane barrier and drug translocation: A permeability challenge to combat bacterial resistance”

L2

Dawidowski Maciej, (1) Helmholtz Zentrum München, Neuherberg, Germany, (2) Technische Universität München, Garching, Germany

„Disrupting the PEX14-PEX5 interaction by small molecules provides a novel therapeutic strategy for treatment of Trypanosoma infections“

10.30 – 11.30 Communications C1 – C3 (20’)

Session moderators: Turło Jadwiga & Matosiuk Dariusz

C1

Szafrański Przemysław, Jagiellonian University, Cracow, Poland

„The application of Click chemistry methods in search of cannabinoid activity”

C2

Płaziński Wojciech, Polish Academy of Sciences, Cracow, Poland

„Ring inversion properties of hexopyranoses: from force field parametrization to the interplay between ring shape and glycosidic linkage conformation”

C3

Pándy-Szekeres Gáspár, University of Copenhagen, Denmark

„GPCRdb homology models – „Less model & more crystal””

11.30 – 12.10 Coffee break

12.10 – 13.50 Communications C4 – C8 (20')

Session moderators: Kieć-Kononowicz Katarzyna & Ryng Stanisław

C4

Mazerski Jan, Gdańsk University of Technology, Poland

„How to describe physicochemical interactions between dsDNA and possible chemotherapeutics”

C5

Sączewski Jarosław, Medical University of Gdańsk, Poland

„Synthesis and biological activity of fluorescently-labeled quinolones”

C6

Kurczab Rafał, Polish Academy of Sciences, Cracow, Poland

„The potential of halogen bonding in class A of GPCRs: application of XB hot spots for rational design of 5-HT₇R ligands”

C7

Więckowska Anna, Jagiellonian University, Cracow, Poland

„Novel multi-target-directed ligands for Alzheimer's disease: combining cholinesterase inhibitors and 5-HT₆ receptor antagonists. Design, synthesis and biological evaluation”

C8

Waszkielewicz Anna M., Jagiellonian University, Cracow, Poland

„Anticonvulsant activity of some new N-[phenoxyalkyl]- and N-[2-(phenoxyethoxy)ethyl]aminoalkanol”

13.50 – 15.40 Lunch

15.40 – 16.25 Lecture L3 (45')

Session moderators: Paneth Agata & Mazerski Jan

L3

Kamiński Krzysztof, Jagiellonian University, Cracow, Poland

„New hybrid anticonvulsants derived from the pyrrolidine-2,5-dione scaffold with broad spectrum of activity in the preclinical studies”

16.25 – 17.05 Communications C9 & C10 (20')

Session moderators: Paneth Agata & Mazerski Jan

C9

Struga Marta, Medical University of Warsaw, Poland

„Biological activity of thiourea derivatives”

C10

Szcześniak-Sięga Berenika, Wrocław Medical University, Poland

„Synthesis and properties of new 1,2-benzothiazine derivatives as potential multitarget drugs with chemopreventive and analgesic activity”

17.05 – 17.40 Coffee break

17.40 – 19.10 Norwegian session

Session moderators: Handzlik Jadwiga & Bojarski Andrzej

Sylte Ingebrigt, UiT The Arctic University of Norway, Tromsø, Norway

„Screening for GABAB receptor compounds

Freyd Thibaud, UiT The Arctic University of Norway, Tromsø, Norway

„Allosteric modulation of the human GABAB receptor”

Hogendorf Adam S., (1) Institute of Pharmacology, Polish Academy of Sciences, Krakow, Poland

(2) Jagiellonian University, Krakow, Poland,

„Low-basicity agonists of 5-HT₇ receptor synthesized by van Leusen multicomponent reaction”

Linn Mari Evenseth, UiT - The Arctic University of Norway, Tromsø, Norway

„Screening for novel GABA_B orthosteric ligands”

Jarosław Walory, National Medicines Institute, Warszawa, Poland

„Neuroprotective and proapoptotic activity of serotonin transporter inhibitors and serotonin receptor ligands”

SATURDAY, 17.09.2015 Collegium Maius ul. Jaczewskiego 4

9.00 – 9.45 Lecture L4 (45')

Session moderators: Malawska Barbara & Cegła Marek

L4

Kołaczkowski Marcin, (1) Jagiellonian University, Cracow, Poland, (2) Adamed Ltd., Pieńków, Poland

„New directions in the search for therapies of behavioral and psychological symptoms of dementia”

9.45 – 11.25 Communications C11 – C15 (20')

Session moderators: Malawska Barbara & Cegła Marek

C11

Gobis Katarzyna, Medical University of Gdańsk, Poland

„Synthesis and activity of the salicylic acid ester of bakuchiol in psoriasisform keratinocytes and skin substitutes”

C12

Śniecikowska Joanna, Jagiellonian University, Cracow, Poland

„Novel, selective 5-HT_{1A} biased agonists as new pharmacological tools in the development of treatment of psychiatric and neurodegenerative disorders”

C13

Mazerska Zofia, Gdańsk University of Technology, Poland

„Glucuronidation of antitumor agents: the way to drug resistance?”

C14

Wierzchowski Marcin, Poznan University of Medical Sciences, Poland
„Porphyrinoids functionalized with 1,4,7-trioxanonyl and imidazole moieties as promising photosensitizers”

C15

Pogorzelska Aneta, Medical University of Gdańsk, Poland
„Novel 2-(2-alkylthiobenzenesulfonyl)-3-(phenylprop-2-ynylideneamino)guanidine derivatives - synthesis and QSAR studies of compounds with prominent anticancer activity”

11.25 – 12.00 Coffee break

12.00 – 12.45 Lecture L5 (45')

Session moderators: Bielawska Anna & Bielawski Krzysztof

L5

Zawilska Jolanta, Medical University of Lodz, Poland
„Novel psychoactive substances („dopalacze”) – from structure to clinical symptoms

12.45 – 13.45 Communications (C16, C17)

Session moderators: Bielawska Anna & Bielawski Krzysztof

C16

Piotrowska Dorota G., Medical University of Lodz, Poland
„β-Lactam- and isoxazolidine-conjugates of quinazoline-2,4-diones”

C17

Bogucka-Kocka Anna, Medical University of Lublin, Poland
„Modulation of multidrug resistance genes expression by coumarin derivatives in multidrug resistance human leukemic cells”

13.45 – 15.15 Lunch

15.15 – 16.00 Lecture L6 (45')

Session moderators: Mazerska Zofia & Sławiński Jarosław

L6

Turło Jadwiga, Medical University of Warsaw, Poland
„Structural characterization of immunoactive polysaccharides - methodological problems”

16.00 – 17.00 Communications C18 – C20 (20')

Session moderators: Mazerska Zofia & Sławiński Jarosław

C18

Morak-Młodawska Beata, Medical University of Silesia, Sosnowiec, Poland
„New derivatives of dipyridothiazines - synthesis, structural properties and anticancer activities”

C19

*Koczurkiewicz Paulina, Jagiellonian University, Cracow, Poland
„Piperlongumine as a multifunctional agent modulating doxorubicin activity”*

C20

*Marciniec Krzysztof, Medical University of Silesia, Sosnowiec, Poland
„Synthesis and in vitro antiproliferative activity of acetylenic quinoline derivatives”*

17.00 – 17.30 Coffee break

17.00 – 20.00 Poster session

17.30 – 20.00 Poster oral presentations PP1 – PP18 (7’)

Session moderators: Wujec Monika & Zajdel Pawel

PP1

Kaczor Aneta, Jagiellonian University, Cracow, Poland „Dimroth rearrangement in the search for new agents effective in the battle against MDR bacteria”

PP2

*Grosicki Marek, Jagiellonian University, Cracow, Poland
„Histamine H4 receptor ligands - their in vitro study on eosinophils adhesion to endothelium”*

PP3

*Szafrański Krzysztof, Medical University of Gdańsk, Poland
„Novel 5-(1,3,4-oxadiazol-2-yl)benzenesulfonamide derivatives: synthesis and in vitro anticancer studies”*

PP4

*Szymanowski Wojciech, Medical University of Białystok, Poland
„Biological studies of novel piperazine derivatives in MCF-7 and MDA-MB-231 breast cancer cells”*

PP5

*Pawłowska Natalia, Medical University of Białystok, Poland
„The cytotoxic activity of novel isoquinoline derivatives in human breast cancer cells”*

PP6

*Czajkowska Anna, Medical University of Białystok, Poland
„The cytotoxic efficacy of Nigella sativa seed extract in CRL-1739 human gastric adenocarcinoma cells”*

PP7

Trimen Chemicals

PP8

Tarczykowska Agata, Collegium Medicum in Bydgoszcz, Poland

„Enantioselective acetylation of racemic atenolol with the use of lipases in native form”

PP9

Węgrzynowska-Drzymalska Katarzyna, Nicolaus Copernicus University in Toruń, Poland

„Synthesis of magnetic nanoparticles with surface modified with chitosan and poly(acrylic acid) blends for biomedical application”

PP10

Sikora Adam, Collegium Medicum in Bydgoszcz, Nicolaus Copernicus University in Toruń, Poland

*„The use of *Candida rugosa* lipase immobilized onto magnetic nanoparticles in enantioselective acetylation of (R,S)-atenolol”*

PP11

Płazińska Anita, Medical University of Lublin, Poland

„Activation of the toggle switch and dynamic network of the β_2 -adrenergic receptor”

PP12

Grynda Jakub, Gdańsk University of Technology, Poland

„Model free quantitative analysis of three component equilibria”

PP13

Laskowski Tomasz, Gdańsk University of Technology, Poland

„NMR and MD studies on the stereochemistry of the intercalation complexes of imidazoacridinone C-1311 (Symadex), a potential anticancer drug, with short fragments of dsDNA”

PP14

Canale Vittorio, Jagiellonian University, Cracow, Poland

„Towards metabolically stable arylsulfonamide derivatives of (aryloxy)ethyl piperidines as potent and selective 5-HT₇ receptor antagonists with antidepressant and anxiolytic properties”

PP15

Lubelska Annamaria, Jagiellonian University, Cracow, Poland

„Characterization of permeability and hepatotoxicity of the selective serotonin 5-HT₇ receptor ligands in vitro”

PP16

ABL&E–JASCO Polska Sp. z o.o.

PP17

Marciniak Monika, Medical University of Warsaw, Poland

„Synthesis of new pyrrolidine-2,5-dione derivatives with a long-chain arylpiperazine moiety, ligands of 5-HT_{1A} receptor”

PP18

Kalinowska-Tłuścik Justyna, Jagiellonian University, Cracow, Poland
„Non-basic antagonists of the 5-HT₆ receptor - a structure-activity relationship study”

PP19

Grychowska Katarzyna, Jagiellonian University, Cracow, Poland
„Novel 1H-pyrrolo[3,2-c]quinoline derivatives as 5-HT₆ receptor antagonists with procognitive properties”

20.30 – 24.00 Open air event, ul. Krochmalna 13C, Lawendowy Dworek