

2nd CENTRAL EUROPEAN BIOMEDICAL CONGRESS

Kraków, 15-18 June, 2016

CEBC program

WEDNESDAY, 15 June 2016

Venue: Manggha Museum of Japanese Art and Technology Europe - Far East Gallery

Time	Event
18.00-19.00	Registration
19.00	Welcome addresses Chairs: CEBC Organizers
19.30-20.15	Inaugural lecture (PL. 1, Plenary lecture 1) Chair: Joanna Pera (Poland) <i>Personalized therapies for CNS diseases: needs and approaches</i> Kaplana M. Merchant (Indiana University-Purdue University, USA)
20.30-21.00	Music performance by Marcin Wyrostek
21.00-22.30	Welcome reception

THURSDAY, 16 June 2016

Venue: Auditorium Maximum

Time	Event
8.45-10.45	Session 1 (Medium Hall A): Looking for new targets for medicinal chemistry-academic perspective Chairs: Kenneth A. Jacobson (USA) & Katarzyna Kieć-Kononowicz (Poland) S.01-1 Kenneth A. Jacobson (NIDDK, NIH, USA) <i>G Protein-coupled receptors (GPCRs) for nucleosides and nucleotides: Structure-based ligand design and therapeutic potential</i> S.01-2 Christa E. Müller (University of Bonn, Germany) <i>A2A and A2B: closely related adenosine receptor subtypes with striking differences</i> S.01-3 Marcin Drąg (Wroclaw University of Technology, Wroclaw, Poland) <i>Design of specific chemical tools for investigation of proteolytic enzymes using unnatural amino acids</i>
	Session 2 (Medium Hall B): From lipids to serotonin: Advancing toward novel therapeutics for addictive disorders Chairs: Kathryn A. Cunningham (USA) & Małgorzata Frankowska (Poland) S.02-1 Christian P. Muller (University Clinic, Friedrich-Alexander-University Erlangen-Nuremberg, Germany) <i>Sphingolipids and the transition from depression to alcoholism</i> S.02-2 Kathryn A. Cunningham (University of Texas Medical Branch, Galveston, USA) <i>Integrating serotonergic strategies into therapeutics for cocaine use disorder</i> S.02-3 Umberto Spampinato (Inserm, Université de Bordeaux, France) <i>Impact of serotonin₂ receptor subtypes on cocaine-induced dopamine release in the medial prefrontal cortex: implications in the control of cocaine behavioral responses</i> S.02-4 Magdalena Zaniewska (Institute of Pharmacology PAS, Krakow, Poland) <i>Defining the mechanism regulating the role of serotonin in the development of ethanol addiction in animals</i>
	Session 3 (Small Hall): Nanomedicine Chairs: Vladimir P. Torchilin (USA) & Piotr Warszyński (Poland) S.03-1 Vladimir P. Torchilin (Northeastern University, USA)

	<p><i>Advances in nanosystems for drug delivery</i> S.03-2 Krzysztof Szczepanowicz (Jerzy Haber Institute of Catalysis and Surface Chemistry, PAS, Krakow, Poland) <i>Synthesis and properties of polyelectrolyte-coated nanocapsules</i> S.03-3 Ewa Błasiak (Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Krakow, Poland) <i>Biocompatible polymeric nanoparticles as promising candidates for drug delivery</i> S.03-4 Danuta Jantas (Institute of Pharmacology PAS, Krakow, Poland) <i>Neuroprotective activity of (bio)polyelectrolyte-coated nanocapsules containing curcumin</i> S.03-5 Joanna Ślusarczyk (Institute of Pharmacology PAS, Krakow, Poland) <i>Evaluation of protective action of polydatin, free form and in nanocapsules, in the hippocampal organotypic cultures treated with lipopolysaccharide</i></p>
	<p>Session 4 (Seminar Room): Young Scientist Presentation (Ph.D. students) Chairs: Joanna Pera (Poland) & Jan Rodriguez (Poland)</p> <p>S.04-1 Katarzyna Kamińska (Institute of Pharmacology PAS, Krakow, Poland) <i>The effect of co-treatment with risperidone and escitalopram on dopamine and serotonin level in the rat frontal cortex</i> S.04-2 Joanna Jastrzębska (Institute of Pharmacology PAS, Krakow, Poland) <i>Modeling co-existence of depression and cocaine addiction in rats: the effects of N-acetylcysteine-amide (AD4) on cocaine reward, extinction and seeking behavior in bulbectomized rats</i> S.04-3 Paweł Konieczny (Jagiellonian University Medical College, Krakow, Poland) <i>The role of AMP-activated kinase (AMPK) in epithelial-mesenchymal transition (EMT)</i> S.04-4 Bogna Badyra (Jagiellonian University Medical College, Krakow, Poland) <i>Characterization of bone marrow-derived mesenchymal stem cells obtained from children diagnosed with hypoxic-ischemic encephalopathy</i> S.04-5 Sabina Lichołai (Jagiellonian University, Krakow, Poland) <i>Serum miR-29c as a potential biomarker for abdominal aortic aneurysm</i> S.04-6 Beata Sienkiewicz (Wrocław Medical University, Poland) <i>Hepatotoxicity of posaconazole oral formulation in relation to ABCB1 polymorphism among children with haematological malignances</i> S.04-7 Marta Napierała (University of Medical Sciences, Poznań, Poland) <i>The impact of prenatal tobacco exposure on the cerebral mass of the neonate</i></p>
10.45-11.15	Coffee break
11.15-12.00	<p>(PL. 2) Plenary lecture 2 (Medium Hall): Chair: Marek Sanak (Poland)</p>

	<p>Hereditary breast and ovarian cancers Jan Lubiński (Pomeranian Medical University , Szczecin, Poland)</p>
12.00-13.30	Lunch break
13.00-14.30	Poster session I (Exhibition Room)
14.30-15.15	<p>(PL. 3) Plenary lecture 3 (Medium Hall): Chair: Władysław Lasoń, Poland</p> <p>Personalizing treatment of the schizophrenia spectrum through endophenotypes, rational pharmacology, and pharmacogenomics Herbert Y. Meltzer (Northwestern University, Chicago, USA)</p>
15.15-15.35	<p>(SP.1) Sponsor presentation (Medium Hall) <i>Clinical and prophylactic whole genome sequencing as the most important step towards personalised medicine</i> Anna Boguszewska – Chachulska (Genomed, Poland)</p>
15.35-16.00	Coffee break
16.00-18.00	<p>Session 5 (Medium Hall A): Neuroimmunological aspect of pain Chair: Joanna Mika (Poland)</p> <p>S.05-1 cancelled S.05-2 Katarzyna Starowicz (Institute of Pharmacology PAS, Krakow, Poland) <i>Molecular basis of OA to guide the identification of new therapeutic targets</i> S.05-3 Michaela Kress (Medical University of Innsbruck, Austria) <i>Interleukin-6 and signal transducer gp130 as important regulators of neuroimmune interactions in the pain pathway</i> S.05-4 Joanna Mika (Institute of Pharmacology PAS, Krakow, Poland) <i>Pharmacological modulation of intracellular signaling pathways in microglia can attenuate neuropathic pain symptoms and enhance opioid effectiveness</i></p> <p>Session 6 (Medium Hall B): Novel mechanisms and mediators in allergic inflammation Chair: Marek Sanak (Poland)</p> <p>S.06-1 Joshua Boyce (Harvard Medical School, USA) <i>Molecular pathophysiology of aspirin exacerbated respiratory disease</i> S.06-2 Masami Taniguchi (Sagamihara National Hospital, Japan)</p>

	<p><i>Eicosanoid imbalance in aspirin exacerbated respiratory disease</i> S.06-3 Hae-Sim Park (Ajou University School of Medicine, South Korea) <i>Leukotriene overproduction and platelet activation in AERD</i> S.06-4 Krzysztof Kowal (Medical University of Bialystok, Poland) <i>Concentration of selected eicosanoids in exhaled breath condensate during allergen-induced early asthmatic response</i></p>
	<p>Session 7 (Small Hall): Personalized medicine Chairs: Zbigniew Gaciong (Poland) & Tomasz Grodzicki (Poland)</p> <p>S.07-1 Zbigniew Gaciong (Medical University of Warsaw, Poland) <i>Personalized or precision medicine?</i> S.07-2 Anna Wójcicka & Krystin Jażdżewski (Medical University of Warsaw, Poland) <i>Genome studies and the risk of cancer</i> S.07-3 Karol Kamiński (Medical University of Bialystok, Poland) <i>One treatment for all? A case of cardiovascular patient</i></p>
	<p>Session 8 (Seminar Room): Society of Neurotoxicity - Processes and Mechanisms Associated with Parkinson's Disease Chairs: Richard M. Kostrzewa (USA) & Elaine Del Bel Guimaraes (Brasil)</p> <p>S.08-1 Rita Raisman-Vozari (INSERM, Brain and Spine Institute, Paris, France) <i>Role of antibiotics on neuroprotection and neuroinflammation</i> S.08-2 María-Trinidad Herrero Ezquerro (School of Medicine, University of Murcia, Murcia, Spain) <i>Matrix metalloproteinases and neurodegenerative progression in Parkinsonism</i> S.08-3 Richard M. Kostrzewa (East Tennessee State University, Johnson City, USA) <i>L-DOPA effect on hydroxyl radical in a Parkinsonian rat</i> S.08-4 Elaine Del Bel Guimaraes (University of Sao Paulo, Brasil) <i>NO and glutamate interaction in treatment of L-DOPA-induced dyskinesia</i></p>
19.30	Gala Dinner

FRIDAY, 17 June 2016

Venue: Auditorium Maximum

Time	Event
8.45-10.45	Session 9 (Seminar Room): S.09 Workshop for Polish young scientists - National Science Centre, Poland Chairs: Marcin Liana (Poland) & Magdalena Kowalczyk (Poland) Tips for writing a successful grant proposal
	Session 10 (Medium Hall A): Diabetes Chair: Maciej Matecki (Poland) S.10-1 Benjamin Glaser (Hadassah-Hebrew University Medical Center, Israel) <i>Non-invasive detection of cell death in diabetes and other pathologists</i> S.10-2 Maciej Matecki (Jagiellonian University Medical College, Krakow, Poland) <i>The deadly duo of obesity and type 2 diabetes - can new drugs treat both?</i> S.10-3 Leszek Czupryniak (Medical University of Warsaw, Poland) <i>Vascular complications of diabetes – completely avoidable at last?</i> S.10-4 Irina Kowalska (Medical University of Białystok, Poland) <i>Insulin resistance - does it play a role in pathogenesis of chronic complications and treatment of diabetes?</i>
	Session 11 (Medium Hall B): Neurodegenerative diseases Chair: Jacek Kuźnicki (Poland) S.11-1 Axel Methner (University Medical Center Mainz, Mainz, Germany) <i>Analysis and recovery of neuronal microcircuit activity in Huntington's disease using two-photon microscopy and optogenetics</i> S.11-2 Urszula Fiszer (Medical Centre of Postgraduate Training, Warsaw, Poland) <i>Biomarkers in Parkinson's disease</i> S.11-3 Piotr Lewczuk (Universitätsklinikum Erlangen & Friedrich-Alexander Universität Erlangen-Nürnberg, Germany) <i>CSF biomarkers of Alzheimer's disease</i> S.11-4 Urszula Wojda (Nencki Institute of Experimental Biology, Warsaw, Poland) & Jacek Kuźnicki (International Institute of Molecular and Cell Biology, Warsaw, Poland) <i>Blood biomarkers of Alzheimer's disease</i>
	Session 12 (Small Hall): Young Scientist Presentation (Ph.D. students)

	<p>Chair: Christa E. Müller (Germany)</p> <p>S.12-1 Stefan Mordalski (Institute of Pharmacology PAS, Krakow, Poland) <i>Molecular mechanism of activity of non-basic ligands of 5-HT₆ receptors</i></p> <p>S.12-2 Agnieszka Olejarz (Jagiellonian University Medical College, Krakow, Poland) <i>Monoamine oxidase B activity of novel xanthine derivatives</i></p> <p>S.12-3 Dawid Warszycki (Institute of Pharmacology PAS, Krakow, Poland) <i>Pharmacophore modeling of UDP-N-acetylmuramoylalanine glutamate ligase inhibitors – methodology and application for virtual screening procedure</i></p> <p>S.12-4 Joanna Laskowska (Nicolaus Copernicus University, Toruń, Poland) <i>Genomic and transcriptomic determinants of resistance in anthracycline therapy in pediatric acute leukemias</i></p> <p>S.12-5 Sonia Trojan (Jagiellonian University Medical College, Krakow, Poland) <i>Methylation of CD146 (MCAM) gene promoter as a cause of CD146 silencing level in breast cancer cell lines</i></p> <p>S.12-6 Katarzyna Ciągła (Jagiellonian University Medical College, Krakow, Poland) <i>TRAIL-producing Lactococcus lactis bacteria as a vehicle for induction of colorectal cancer cell apoptosis</i></p> <p>S.12-7 Ana Semeano (Universidade de São Paulo, São Paulo, Brazil) <i>The impact of magnetic field on ion influx of the neuronal cells</i></p> <p>S.12-8 Magda Zychowska (Institute of Pharmacology PAS, Krakow, Poland) <i>The influence of BoNT/A administration on IL-1 family members in rat neuropathic pain model – in vivo and in vitro evidences</i></p>
10.45-11.15	Coffee break
11.15-12.00	<p>(PL. 4) Plenary lecture 4 (Medium Hall): Chair: Krzysztof Wędzony (Poland)</p> <p>Structural insights into G protein coupled receptor activation Brian S. Kobilka - Nobel Prize laureate 2012 (Stanford University, USA)</p>
12.00-13.30	Lunch break
13.00-14.30	Poster session II (Exhibition Room)
14.30-15.15	<p>(PL. 5) Plenary lecture 5 (Medium Hall): Chair: Irena Nalepa (Poland)</p> <p>How novel should the new drug targets be? Industry perspective Anton Bespalov (Partnership for Assessment and Accreditation of Scientific Practice, Germany)</p>
15.15-15.30	(SP.2) Sponsor presentation (Medium Hall)

	<p><i>Precision molecular profiling of cancer using droplet Digital™ PCR</i> Eddy van Colleburg (Bio-Rad, Poland)</p>
15.30-16.00	Coffee break
16.00-18.00	<p>Session 13 (Medium Hall A): Learning the emotions with the help of the amygdala Chairs: Ewelina Knapska (Poland) & Leszek Kaczmarek (Poland)</p> <p>S.13-1 Leszek Kaczmarek (Nencki Institute of Experimental Biology PAS, Warsaw, Poland) <i>MMP-9, extracellular protease – a culprit of aberrant synaptic plasticity</i></p> <p>S.13-2 Norbert Hajos (Institute of Experimental Medicine, Hungarian Academy of Sciences, Hungary) <i>Functional organization of perisomatic inhibition in the basolateral amygdala</i></p> <p>S.13-3 Ewelina Knapska (Nencki Institute of Experimental Biology PAS, Warsaw, Poland) <i>Neuronal circuits in the central amygdala underlying socially transferred fear</i></p> <p>S.13-4 Cyril Herry & Cyril Dejean (INSERM, Neurocentre Magendie & University of Bordeaux, France) <i>Neuronal circuits and mechanisms of fear behaviour</i></p> <hr/> <p>Session 14 (Medium Hall B): Cerebrovascular diseases Chairs: Jerzy Krupinski (Spain) & Agnieszka Słowik (Poland)</p> <p>S.14-1 Jerzy Krupiński (Healthcare Science Research Institute, Manchester Metropolitan University & Hospital Universitari Mútua de Terrassa, Spain) <i>Circulating miRNAs as future biomarkers for a cerebrovascular immune-inflammatory atherosclerotic diseases</i></p> <p>S.14-2 Agnieszka Słowik (Jagiellonian University Medical College, Krakow, Poland) <i>Contemporary approach to acute stroke treatment</i></p> <p>S.14-3 Joanna Pera (Jagiellonian University Medical College, Krakow, Poland) <i>Patients stratification in stroke management</i></p> <p>S.14-4 Adam Dénes (Institute of Experimental Medicine, Hungarian Academy of Sciences, Hungary) <i>Central and systemic inflammatory mechanisms in cerebral ischemia</i></p> <hr/> <p>Session 15 (Seminar Room): Environmental conditions and neuropsychiatric disorders Chairs: Anni-Maija Linden (Finland) & Marzena Maćkowiak (Poland)</p> <p>S.15-1 Juan Nacher (Universitat de Valencia, Spain)</p>

	<p><i>Interneuronal plasticity and psychiatric disorders</i> S.15-2 Agnieszka Chocyk (Institute of Pharmacology PAS, Krakow, Poland) <i>Early-life stress and dysfunction of the medial prefrontal cortex as risk factors for mental disorders</i> S.15-3 Anni-Maija Linden (University of Helsinki, Finland) <i>Neuroinflammation in alcohol addiction</i> S.15-4 Marzena Maćkowiak (Institute of Pharmacology PAS, Krakow, Poland) <i>Enriched environment and development of schizophrenia-like abnormalities</i></p>
	<p>Session 16 (Small Room): Structure-based drug design Chair: Andrzej Bojarski (Poland)</p> <p>S.16-1 David E. Gloriam (Department of Drug Design and Pharmacology, University of Copenhagen, Denmark) <i>Identification of endogenous and surrogate ligands for orphan GPCRs</i> S.16-2 Sławomir Filipek (Biological and Chemical Research Centre, University of Warsaw, Poland) <i>Differences of agonist and antagonist binding to GPCRs</i> S.16-3 György M. Keserű (Research Centre for Natural Sciences, Hungarian Academy of Sciences, Hungary) <i>Exploiting secondary binding pockets in aminergic GPCRs</i> S.16-4 Peter Kolb (Department of Pharmaceutical Chemistry, Philipps-Universität Marburg, Germany) <i>In silico exploration of chemical and GPCR ligand space</i></p>
19.30	Congress Dinner

SATURDAY, 18 June 2016

Venue: Auditorium Maximum

Time	Event
9.00-9.45	<p>(PL. 6) Plenary lecture 6 (Medium Hall): Chair: Edmund Przegaliński (Poland)</p> <p>Heteroreceptor complexes and their allosteric receptor-receptor interactions as a novel biological principle for integration of communication in the CNS: targets for drug development in mental and neurological disorders Kjell Fuxe (Karolinska Institutet, Sweden)</p>
9.45-10.15	Coffee break
10.15-12.15	<p>Session 17 (Small Hall): Chair: Małgorzata Filip (Poland)</p> <p>Property-based drug design (pharmaceutical companies' point of view) S.17-1 Udo Lange(AbbVie Deutschland GmbH & Co. KG, Ludwigshafen, Germany) <i>Competitive GlyT1 Inhibitors</i> S.17-2 Charles Henry Fabritius (Selvita S.A., Poland) <i>Analysis of Selvita's library: generation of high quality hit compounds for our early discovery programs</i> S.17-3 Aleksandra Stańczak (CelonPharma, Poland) <i>Knowledge-based design of a novel selective pan-FGFR kinase inhibitor - CELONKO project</i></p> <p>Session 18 (Medium Hall A): Recent advances in the clinical applications of stem cells Chairs: Yang D. Teng (USA) & Marcin Majka (Poland)</p> <p>S.18-1 Henning Ulrich (University of São Paulo, Brazil) <i>Oscillations of intracellular calcium concentration and neural transcription factor expression coding for neural fate determination of embryonic stem cells</i> S.18-2 Yang D. Teng (Harvard Medical School & Veterans Affairs Boston Healthcare System, USA) <i>Scaffolding for hMSC delivery: Defining recovery neurobiology of injured spinal cord</i> S.18-3 Boguslaw Machaliński (Pomeranian Medical University, Szczecin, Poland) <i>Neuroprotective activity of hematopoietic stem/progenitor cells</i></p>

<p>S.18-4 Piotr Musiałek (Jagiellonian University Medical College & John Paul II Hospital, Krakow, Poland) <i>Progenitor cell imaging in cardiovascular regeneration: A need or a fancy?</i></p>
<p>Session 19 (Medium Hall B): Chairs: Vincenzo Cestari (Italy) & Irena Nalepa (Poland)</p> <p>Potential therapeutic targets suggested by animal models of brain diseases</p> <p>S.19-1 Vincenzo Cestari (Cell Biology and Neurobiology Institute & Sapienza University, Italy) <i>Aversive memory and its modulation in an animal model of stressor-related disorder</i></p> <p>S.19-2 Agnieszka Zelek-Molik (Institute of Pharmacology PAS, Krakow, Poland) <i>Molecular adaptations of signaling pathways in animal models of addiction</i></p> <p>S.19-3 Grzegorz Kreiner (Institute of Pharmacology PAS, Krakow, Poland) <i>Compensatory mechanisms as possible targets of pharmacotherapy in neurodegenerative diseases - study on transgenic models</i></p> <p>S.19-4 Piotr Chmielarz (Institute of Biotechnology, University of Helsinki, Finland) <i>MicroRNAs biogenesis in Parkinson's disease - targeting DICER activity in dopamine neurons</i></p> <p>S.19-5 Mikko Airavara (Institute of Biotechnology, University of Helsinki, Finland) <i>CDNF/MANF-family of neurotrophic factors: biology and therapeutic potential</i></p>
<p>Session 20 (Seminar Room): Chairs: Marzena Maćkowiak (Poland) & Umberto Spampinato (France)</p> <p>Young Scientist Presentation (Ph.D. fellows)</p> <p>S.20-1 Artur Wnorowski (Medical University of Lublin, Poland) <i>R,R'-4'-methoxy-1-naphthylfenoterol acts as bitopic, GPR55 + 62-adrenergic receptor, ligand in various tumor cell lines</i></p> <p>S.20-2 Ewa Żurawska-Płaksej (Wrocław Medical University, Poland) <i>The alterations in blood plasma chitotriosidase immunoblotting pattern and O-glycans expression are associated with type 2 diabetes?</i></p> <p>S.20-3 Marta Rusek (Medical University of Lublin, Poland) <i>The impact of incretin-based drugs on some non-traditional risk factors for cardiovascular disease (CVD) in rats with fructose-induced metabolic syndrome</i></p> <p>S.20-4 Marta Rysz (Institute of Pharmacology PAS, Krakow, Poland) <i>Brain serotonin regulates the expression of cytochrome liver P450 via neuroendocrine pathways involving the paraventricular and arcuate nuclei of the hypothalamus</i></p> <p>S.20-5 Aneta Stachowicz (Jagiellonian University Medical College, Krakow, Poland) <i>Proteomic analysis of mitochondria isolated from the frontal cortex and hippocampus of apolipoprotein E knockout mice treated with</i></p>

	<p><i>Alda-1, an activator of mitochondrial aldehyde dehydrogenase (ALDH2)</i></p> <p>S.20-6 Emilia Gąsińska (Medical University of Warsaw, Poland)</p> <p><i>Influence of dehydroepiandrosterone on pain threshold and monoamines concentration in STZ-induced neuropathic pain model</i></p> <p>S.20-7 Barbara Pijet (Institute of Experimental Biology PAS, Warsaw, Poland)</p> <p><i>MMP-9 activity: friend or enemy of traumatic brain injury?</i></p> <p>S.20-8 Katarzyna Głombik (Institute of Pharmacology PAS, Krakow, Poland)</p> <p><i>Imipramine attenuates mitochondrial disturbances in frontal cortex- study in animal model of depression</i></p>
12.15-13.30	Lunch break
13.30-14.00	Closing and Award Ceremony (Medium Hall)