

4th Central European Biomedical Congress, Kraków, Poland, May 19-22, 2020

"Impact of bioinformatics and omics on biology and medicine"



Date	Time	Venue	Event	Chair
May 19, 2020	8.00 a.m. - 5.00 p.m.	Auditorium Maximum, 33 Krupnicza Street, Krakow, Poland	Registration and welcome coffee	Professor Andrzej Bojarski, PhD
	9.30 - 11.30 a.m.		Session 1 - Medium Hall <i>Chem- and bioinformatics in drug design</i> S.01-1 Didier Rognan Université de Strasbourg, Strasbourg, France <i>Designing a truly unbiased dataset for machine learning and virtual screening</i> S.01-2 Johannes Kirchmair University of Vienna, Vienna, Austria <i>Computational methods for flagging compounds likely to cause false outcomes in biological assays</i> S.01-3 Tomasz Rzymiski Ryvu Therapeutics, Kraków, Poland <i>Identification of Actionable Protein Targets for Cancer Therapy by Integrated Analysis of Next-Generation Sequencing Data and High-Content Genomic Interrogation Screens</i> S.01-4 Anna Karawajczyk Selvita S.A., Kraków, Poland	
	11.30 - 11.45 a.m.		Sponsor presentation - Medium Hall	
	11.45 a.m. - 1.15 p.m.		Lunch break - Exhibition Room	

May 19, 2020	1.15 - 3.15 p.m.	<p>Session 2 - Medium Hall</p> <p style="text-align: center;"><i>Endocannabinoid signaling in health and disease</i></p> <p>S.02-1 Vincenzo Di Marzo Université Laval, Canada, Italy <i>Bidirectional interaction between the gut microbiome and the endocannabinoidome</i></p> <p>S.02-2 Andrew Scheyer Mediterranean Institute of Neurobiology, Marseille, France <i>Lifetime Consequences of Perinatal Cannabinoid Exposure</i></p> <p>S.02-3 Martin Kaczocha Stony Brook University, NY, USA <i>FABP5 as a Trans-Synaptic Carrier for Endocannabinoids</i></p> <p>S.02-4 Beat Lutz University Medical Center of the Johannes Gutenberg, University Mainz, Mainz, Germany <i>Anandamide Signaling in Stress Coping: For Good or Bad?</i></p>	Katarzyna Starowicz - Bubak, PhD
	3.15 - 3.45 p.m.	Coffee break - Exhibition Room	
	3.45 - 4.00 p.m.	Welcome ceremony	Chairs: Honorary Committee & Organizing Committee
	4.00 - 4.45 p.m.	<p>Inaugural lecture - Large hall</p> <p>(PL. 1, Plenary lecture 1) Francesco Pavone University of Florence, Florence, Italy <i>Human brain optical mapping</i></p>	Professor Władysław Lasoń, PhD
	4.45 - 5.00 p.m.	Film about Kraków and the Maj Institute of Pharmacology Polish Academy of Sciences - Large hall	
	5.00 - 6.00 p.m.	Music performance - Large hall	
	6.00 - 9.00 p.m.	Welcome party - Exhibition Room	

Date	Time	Venue	Event	Chair
May 20, 2020	8.00 a.m.-5.00 p.m.	Auditorium Maximum, 33 Krupnicza Street, Krakow, Poland	Registration	Professor Piotr Popik, PhD Agnieszka Nikiforuk, PhD
	9.00 - 11.00 a.m.		<p>Session 3 - Medium Hall A <i>The role of serotonin in neurodevelopmental disorders</i></p> <p>S.03-1 Judith Homberg Radboud University, Nijmegen Medical Centre, Nijmegen, the Netherlands <i>The role of serotonin in brain development and behaviour: the SSRI and efavirenz cases</i></p> <p>S.03-2 Francesca Calabrese University of Milan, Milan, Italy <i>Stress exposure as a risk factor for the development of psychiatric disorders: a role for the serotonergic system</i></p> <p>S.03-3 Natalia Alenina Max Delbrück Center for Molecular Medicine, Berlin, Germany <i>Maternal and central serotonin: contribution to the early development in rodents</i></p> <p>S.03-4 Markus Wöhr Philipps-University of Marburg, Marburg, Germany <i>Affective communication in rodents: serotonin and its modulating role in ultrasonic vocalizations</i></p>	
			<p>Session 4 - Medium Hall B <i>Biological context of bipolar disorder</i></p> <p>S.04-1 Dominika Dudek Jagiellonian University Medical College, Krakow, Poland <i>Chronobiology and social rhythms in bipolar disorders</i></p> <p>S.04-2 Janusz Rybakowski Poznan University of Medical Sciences, Poznan, Poland <i>Lithium: mechanisms of action in association with BD neurobiology</i></p>	Professor Dominika Dudek, MD

May 20, 2020		<p>S.04-3 Marcin Siwek Jagiellonian University Medical College, Krakow, Poland <i>Biomarkers of staging in BD</i></p> <p>S.04-4 Adrian Chrobak Jagiellonian University Medical College, Krakow, Poland <i>Neurocognitive and motor deficits in BD – neuroimaging and clinical studies</i></p>	
	11.00 - 11.30 a.m.	Coffee break - Exhibition Room	
	11.30 a.m. - 12.15 p.m.	<p>Plenary lecture 2 - Medium Hall</p> <p>(PL. 2, Plenary lecture 2) - Medium Hall</p> <p>David E. Nichols Purdue University College of Pharmacy, West Lafayette, LA, USA <i>Psychedelic Research in the 21st Century</i></p>	Professor Krystyna Gołębiewska, PhD
	12.15 - 1.45 p.m.	<p>Lunch break - Exhibition Room</p> <p>Poster session 1 - Exhibition Room</p>	
	1.45 - 3.45 p.m.	<p>Session 5 - Medium Hall A</p> <p style="text-align: center;"><i>Neuroimaging – beyond the structure</i></p> <p>S.05-1 Bogdan Draganski University of Lausanne, Lausanne, Switzerland <i>MRI-based in vivo histology - myth or reality</i></p> <p>S.05-2 Adrian Chrobak Jagiellonian University Medical College, Krakow, Poland <i>Time-frequency dynamics of resting state in euthymic bipolar disorder patients - a preliminary fMRI study</i></p> <p>S.05-3 Anna Ceglarek Jagiellonian University, Krakow, Poland <i>Reduced regional homogeneity after intraocular lens (IOL) implantation - resting-state fMRI study</i></p>	Professor Joanna Pera, PhD, Professor Tadeusz Marek

May 20, 2020		<p>S.05-4 Anna Sobczak Jagiellonian University, Krakow, Poland <i>Functional connectivity differences in Salient Network among euthymic bipolar disorder patients in regard to suicide risk; a preliminary fMRI study</i></p>	
		<p>Session 6 - Medium Hall B <i>Perspectives for therapy of treatment-resistant depression</i></p> <p>S.06-1 Wiesław J. Cubala Medical University of Gdansk, Poland <i>New developments in understanding mechanisms of drug resistance in the treatment of depression</i></p> <p>S.06-2 Łukasz Świącicki Institute of Psychiatry and Neurology, Warsaw, Poland <i>Somatic therapies for treatment-resistant depression: ECT, TMS, VNS, DBS</i></p> <p>S.06-3 Paul Willner Swansea University, Swansea, UK <i>Pharmacological and optogenetic studies on mechanisms of resistance to antidepressant drugs in animal models of treatment-resistant depression</i></p> <p>S.06-4 Adrian Newman-Tancredi Neurolix Inc., Wilmington, DE 19808, USA <i>Cortical 5-HT_{1A} receptor biased agonism - a novel mechanism for effective therapy of treatment-resistant depression</i></p>	Professor Mariusz Papp, PhD
	3.45 - 4.15 p.m.	Coffee break	
	4.15 - 6.15 p.m.	<p>Session 7 - Medium Hall A <i>Genes affect your risk for addiction</i></p> <p>S.07-1 Lucia Caffino Università degli Studi di Milano, Milano, Italy <i>Effects of cocaine self-administration on neuroplastic mechanisms: evidence from rats lacking the serotonin transporter</i></p>	Małgorzata Frankowska, PhD Irena Smaga-Maślanka, PhD

		<p>S.07-2 Judith Homberg Radboud University Medical Center, Nijmegen, The Netherlands <i>The neural mechanisms driving the transition from regular to compulsive cocaine intake in rats lacking the serotonin transporter</i></p> <p>S.07-3 Liubov Kalinichenko University Clinic, Friedrich-Alexander-University of Erlangen-Nuremberg, Erlangen, Germany <i>Sphingolipids in depression-induced alcoholism</i></p> <p>S.07-4 Giuseppe Giannotti University of Colorado Denver, Aurora, CO, USA <i>Paraventricular thalamic control of opioid withdrawal and relapse</i></p>	
		<p>Session 8 - Medium Hall B</p> <p style="text-align: center;"><i>Clinical genomics</i></p> <p>S.08-1 Rafał Płoski Medical University of Warsaw, Warsaw, Poland <i>Whole exome and genome sequencing for discovery of novel human diseases</i></p> <p>S.08-2 Maciej Giefing Institute of Human Genetics Polish Academy of Sciences, Poznan, Poland <i>New (epi)genetic diagnostic tools for cancer - liquid biopsy and beyond</i></p> <p>S.08-3 Maria M. Sasiadek Wroclaw Medical University, Wrocław, Poland <i>Multigene panel testing in oncology clinical practice - pros and cons</i></p> <p>S.08-4 Arkadiusz Piotrowski Medical University of Gdańsk, Gdańsk, Poland <i>Somatic driver mutations in normal mammary tissue from breast cancer patients – incidental or causal?</i></p>	<p>Michał Korostyński, PhD Michał Dąbrowski, PhD</p>

Date	Time	Venue	Event	Chair
May 21, 2020	8.00 a.m. - 5.00 p.m.	Auditorium Maximum, Krupnicza Street	Registration	
	9.00 - 11.00 a.m.		<p data-bbox="748 193 1877 233">Session 9 - Medium Hall A</p> <p data-bbox="748 233 1877 272" style="text-align: center;"><i>Novel views on psychoactive and addictive drugs</i></p> <p data-bbox="748 272 1877 312">S.09-1</p> <p data-bbox="748 312 1877 352">Katrin A. Cunningham</p> <p data-bbox="748 352 1877 392">University of Texas Medical Branch, Galveston, USA</p> <p data-bbox="748 392 1877 432"><i>Defining and Mining Therapeutic Targets in Psychostimulant Use Disorders</i></p> <p data-bbox="748 432 1877 472">S.09-2</p> <p data-bbox="748 472 1877 512">Nicola Simola</p> <p data-bbox="748 512 1877 552">University of Cagliari, Cagliari, Italy</p> <p data-bbox="748 552 1877 624"><i>The novel psychoactive substance methoxetamine induces persistent behavioral abnormalities and neurotoxicity: a study in rats</i></p> <p data-bbox="748 624 1877 663">S.09-3</p> <p data-bbox="748 663 1877 703">Nicholas Pintori</p> <p data-bbox="748 703 1877 743">University of Verone, Verona, Italy</p> <p data-bbox="748 743 1877 815"><i>Dopamine system dysregulation, glial cells alteration, and behavioral correlates after repeated exposure to the synthetic cannabinoid receptor agonist JWH-018</i></p> <p data-bbox="748 815 1877 855">S.09-4</p> <p data-bbox="748 855 1877 895">Giulia Costa</p> <p data-bbox="748 895 1877 935">University of Cagliari, Cagliari, Italy</p> <p data-bbox="748 935 1877 1027"><i>Mechanisms and neurotransmitter systems involved in the neurotoxic effects of 3,4-methylenedioxymethamphetamine (MDMA) administration during adolescence</i></p>	Professor Krystyna Gołombiowska, PhD Professor Kathryn A. Cunningham, PhD
			<p data-bbox="748 1027 1877 1067">Session 10 - Medium Hall B</p> <p data-bbox="748 1067 1877 1107" style="text-align: center;"><i>Biomarkers discovery in mental disorders</i></p> <p data-bbox="748 1107 1877 1147">S.10-1</p> <p data-bbox="748 1147 1877 1187">Nela Pivac</p> <p data-bbox="748 1187 1877 1227">Institute Rudjer Bošković, Zagreb, Croatia</p> <p data-bbox="748 1227 1877 1267"><i>Biomarkers of schizophrenia</i></p> <p data-bbox="748 1267 1877 1307">S.10-2</p> <p data-bbox="748 1307 1877 1347">Rebecca Strawbridge</p> <p data-bbox="748 1347 1877 1386">King's College London, London, UK</p> <p data-bbox="748 1386 1877 1437"><i>What's the use of biomarkers for depression?</i></p>	Bernadeta Szewczyk, PhD Andreas Grabrucker, PhD

		<p>S.10-3 Andreas Grabrucker University of Limerick, Limerick, Ireland <i>Zinc deficiency and affected signalling networks as biomarkers and causative factors of Autism Spectrum Disorders</i></p>	
11.00 - 11.30 a.m.		Coffee break - Exhibition Room	
11.30 - 11.45 a.m.		Sponsor presentation - Medium Hall	
11.45 a.m. - 12.30 p.m.		<p>Plenary lecture 3 - Medium Hall (PL. 3, Plenary lecture 3) - Medium Hall</p> <p>Professor Francesco Battaglia Radboud University, Nijmegen, The Netherlands <i>The lifetime of memories: processing and reprocessing of information in the brain</i></p>	<p>Professor Małgorzata Filip, PhD</p>
12.30 - 2.00 p.m.		<p>Lunch break - Exhibition Room Poster session 2 - Exhibition Room</p>	
2.00 - 4.00 p.m.		<p>Session 11 - Medium Hall</p> <p style="text-align: center;"><i>Presentations from ERC grant awardees</i></p> <p>S.11-1 Maja Jagodic Karolinska Institutet, Stockholm, Sweden <i>Applied epigenomics: insights into the pathogenesis of Multiple Sclerosis</i></p> <p>S.11-2 Jan Gründemann University of Basel, Basel, Switzerland <i>Imaging deep: Sensory and state coding in subcortical circuits</i></p> <p>S.11-3 Ewelina Knapska Nencki Institute of Experimental Biology of Polish Academy of Sciences, Warsaw, Poland <i>Neuronal circuits for social and non-social motivation</i></p>	<p>Jan Manuel Rodriguez Parkitna, PhD</p>
4.00 - 4.30 p.m.		Coffee break - Exhibition Room	
4.30 - 6.30 p.m.		<p>Workshop - Seminar Room, Conference Room Due to the limited availability of seats, registration is strongly recommended and will be provided until April 27, 2020.</p>	
8.00 - 11.00 p.m.		Congress dinner - Kościuszko Mound in Kraków, 1 Washington Avenue	

Date	Time	Venue	Event	Chair
May 22, 2020	8.00 – 11.00 a.m.	Auditorium Maximum, Krupnicza Street	Registration	
	9.00 - 11.00 a.m.		Session 12 - Medium Hall <i>Computational personalised medicine</i> S.12-1 Marian Bubak Sano Centre for Computational Medicine, Krakow and AGH University of Science and Technology, Krakow, Poland S.12-2 S.12-3 Róża Szweda Lukaszewicz Research Network –PORT, Polish Centre of Technology Development, Wrocław, Poland <i>Sequence-defined polymers – a next generation data storage medium</i> S.12-4 Zbigniew Szewczuk University of Wrocław, Wrocław, Poland <i>Using markers in targeted diagnostics</i>	Marian Bubak, PhD
	11.00 a.m. - 11.30 a.m.		Coffee break - Exhibition Room	
	11.30 a.m. - 12.15 p.m.		Plenary lecture 4 - Medium Hall (PL. 4, Plenary lecture 4) - Medium Hall Jacek R. Wiśniewski Max Planck Institute of Biochemistry, Martinsried, Germany <i>Large scale proteomics for understanding biological systems</i>	
	12.15 - 1.15 p.m.		Session 13 - Medium Hall <i>Young scientific investigators' session</i> S.13-1-10	Rafał Ryguła, PhD Karolina Noworyta-Sokołowska, PhD
	1.15 - 2.15 p.m.		Lunch break - Exhibition Room	
	2.15 - 3.00 p.m.		Closing & Award ceremony - Medium Hall	Professor Małgorzata Filip, PhD Professor Joanna Pera, PhD