

4th Central European Biomedical Congress

entitled *Impact of bioinformatics and omics on biology and medicine* - May 19-22, 2020



Date	Time	Venue	Event	Chair
May 19, 2020	8.00 a.m.- 5.00 p.m.	Auditorium Maximum, 33 Krupnicza Street, Krakow, Poland	Registration	Honorary Committee Professor Andrzej Bojarski, PhD
	9.15 -9.30 a.m.		The Opening of the 4 th CEBC	
	9.30-11.30 a.m.		Session 1 - Medium Hall <i>Chem- and bioinformatics in drug design</i> S.11-1 S.11-2 S.11-3 Tomasz Rzymiski Ryvu Therapeutics, Kraków, Poland S 11-4	
	11.30-12.30 a.m		(PL. 1, Plenary lecture 1) - Medium Hall David E. Nichols Purdue University College of Pharmacy, West Lafayette, LA, USA <i>Psychedelic Research in the 21st Century</i>	
	12.30-12.45 a.m.		Sponsor presentation - Medium Hall	
	12.45-2.00 p.m		Lunch break - Exhibition Room	

	2.00-4.00 p.m.	<p>Session 2 - Medium Hall A</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 Institut de Neurobiologie de la Méditerranée, Institut National de la Santé et de la Recherche Médicale, Marseille, France <i>Lifetime Consequences of Perinatal Cannabinoid Exposure</i></p> <p>S.02-3 Ruth Ross University of Toronto, Toronto, Canada <i>Novel CB1 Receptor Negative Allosteric Modulators with Potential for the Treatment of Psychosis</i></p> <p>S.02-4 Martin Kaczocho Stony Brook University, NY, USA <i>FABP5 as a Trans-Synaptic Carrier for Endocannabinoids</i></p> <p>S.02-5 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
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		<p>Session 3 - Medium Hall B</p> <p style="text-align: center;"><i>Clinical genomics</i></p> <p>S.03-1 Rafał Płoski Medical University of Warsaw, Warsaw, Poland <i>Whole exome and genome sequencing for discovery of novel human diseases</i></p> <p>S.03-2 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.03-3</p> <p>S.03-4</p>	<p>Michał Korostyński, PhD Michał Dąbrowski, PhD</p>
	4.00-5.00 p.m.	Coffee break - Exhibition Room	
	5.00-5.30	Welcome message	Chairs: Honorary Committee & Organizing Committee
	5.30-6.30 p.m.	<p>Inaugural lecture - Large hall</p> <p>Francesco Pavone University of Florence, Florence, Italy <i>Human brain optical mapping</i></p>	
	6.30-6.45 p.m.	Film about Kraków and the Maj Institute of Pharmacology Polish Academy of Sciences - Large hall	
	6.45-7.30	Music performance - Large hall	
	7.30-9.00 p.m.	Welcome party - Exhibition Room	

Date	Time	Venue	Event	Chair
May 20, 2020	8.00 a.m.-5.00 p.m. 9.15-11.15 a.m.	Auditorium Maximum, 33 Krupnicza Street, Krakow, Poland	<p>Registration</p> <p>Session 4 - Medium Hall A <i>The role of serotonin in neurodevelopmental disorders</i></p> <p>S.04-1 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.04-2 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.04-3 Natalia Alenina Max Delbruck Center for Molecular Medicine, Berlin, Germany <i>Maternal and central serotonin: contribution to the early development in rodents</i></p> <p>S. 04-4 Markus Wöhr Philipps-University of Marburg, Marburg, Germany <i>Affective communication in rodents: serotonin and its modulating role in ultrasonic vocalizations</i></p>	Professor Piotr Popik, PhD Agnieszka Nikiforuk, PhD
			<p>Session 5 - Medium Hall B <i>Biomarkers discovery in mental disorders</i></p> <p>S.05-1 Nela Pivac Institute Ruđer Bošković, Zagreb, Croatia <i>Biomarkers of schizophrenia</i></p> <p>S.05-2 Rebecca Strawbridge King's College London, London, UK <i>What's the use of biomarkers for depression?</i></p>	Bernadeta Szewczyk, PhD Andreas Grabrucker, PhD

		<p>S.05-3 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>	
	11.15-11.45 a.m.	Coffee break - Exhibition Room	
	11.45 -12.45 a.m.	<p>Plenary lecture 2 - Medium Hall PL. 2 Ronald Duman The Yale Department of Psychiatry, Yale School of Medicine, USA <i>Neurobiology of stress, depression, and antidepressants: Remodeling synaptic connections</i></p>	
	12.45 - 2.15 p.m.	Lunch break - Exhibition Room	
	2.15-4.15 p.m.	<p>Poster session 1 - Exhibition Room</p> <p>Session 6 - Medium Hall A <i>Neuroimaging – beyond the structure</i></p> <p>S.06-1</p> <p>S.06-2</p> <p>S.06-3</p> <p>S.06-4</p>	<p>Professor Joanna Pera, PhD</p>

		<p>Session 7 - Medium Hall B <i>Perspectives for therapy of treatment-resistant depression</i></p> <p>S 07-1 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. 07-2 Łukasz Świącicki Institute of Psychiatry and Neurology, Warsaw, Poland <i>Somatic therapies for treatment-resistant depression: ECT, TMS, VNS, DBS</i></p> <p>S. 07-3 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 07-4 Adrian Newman-Tancredi Neurolix Inc., Wilmington, DE 19808, USA <i>Cortical 5-HT1A receptor biased agonism - a novel mechanism for effective therapy of treatment-resistant depression</i></p>	<p>Professor Mariusz Papp, PhD</p>
	<p>4.15-5.00 p.m.</p>	<p>Coffee break</p>	
	<p>4.45-6.45 p.m.</p>	<p>Session 8 - Medium Hall A <i>Genes affect your risk for addiction</i></p> <p>S.08-1 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> <p>S.08-2 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>Małgorzata Frankowska, PhD Irena Smaga-Maślanka, PhD</p>

		<p>S.08-3 Liubov Kalinichenko University Clinic, Friedrich-Alexander-University of Erlangen-Nuremberg, Erlangen, Germany <i>Sphingolipids in depression-induced alcoholism</i></p> <p>S.08-4 Giuseppe Giannotti University of Colorado Denver, Aurora, CO, USA <i>Paraventricular thalamic control of opioid withdrawal and relapse</i></p>	
		<p>Session 9 - Medium Hall B</p> <p style="text-align: center;"><i>Computational personalised medicine</i></p> <p>S.09-1 Marian Bubak AGH University of Science and Technology, Krakow, Poland</p> <p>S.09-2 S.09-3 S.09-4</p>	

Date	Time	Venue	Event	Chair
May 21, 2020	8.00 a.m.-5.00 p.m. 9.00-11.00 a.m.	Auditorium Maximum, Krupnicza Street	<p>Registration</p> <p>Session 10 - Medium Hall A <i>Novel views on psychoactive and addictive drugs</i></p> <p>S 10-1 Katrin A. Cunningham University of Texas Medical Branch, Galveston, USA</p> <p>S.10-2 Nicola Simola University of Cagliari, Cagliari, Italy <i>The novel psychoactive substance methoxetamine induces persistent behavioral abnormalities and neurotoxicity: a study in rats</i></p> <p>S.10-3 Nicholas Pintori University of Verone, Verona, Italy <i>Dopamine system dysregulation, glial cells alteration, and behavioral correlates after repeated exposure to the synthetic cannabinoid receptor agonist JWH-018</i></p> <p>S.10-4 Giulia Costa University of Cagliari, Cagliari, Italy <i>Mechanisms and neurotransmitter systems involved in the neurotoxic effects of 3,4-methylenedioxymethamphetamine (MDMA) administration during adolescence</i></p>	Professor Krystyna Gołtembiowska, PhD Professor Kathryn A. Cunningham, PhD
			<p>Session 11 - Medium Hall B <i>Biological context of bipolar disorder</i></p> <p>S.11-1 Dominika Dudek Jagiellonian University Medical College, Krakow, Poland <i>Chronobiology and social rhythms in bipolar disorders</i></p> <p>S.11-2 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

		<p>S.11-3 Marcin Siwek Jagiellonian University Medical College, Krakow, Poland <i>Biomarkers of staging in BD</i></p> <p>S.11-4 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	
11.30-11.45 a.m.		Expert panel - Medium Hall	
11.45 a.m. -12.45 p.m.		<p>Plenary lecture 3 - Medium Hall PL. 3 Prof. Francesco Battaglia Radboud University, Nijmegen, The Netherlands <i>The lifetime of memories: processing and reprocessing of information in the brain</i></p>	
12.45 p.m.-2.15 p.m.		Lunch break - Exhibition Room	
		Poster session 2 - Exhibition Room	
2.15-4.15 p.m.		<p>Session 12 - Medium Hall</p> <p style="text-align: center;"><i>Presentations from ERC grant awardees</i></p> <p>S.12-1 Maja Jagodic Karolinska Institutet, Stockholm, Sweden</p> <p>S.12-2 Jan Gründemann University of Basel, Basel, Switzerland <i>Imaging deep: Sensory and state coding in subcortical circuits</i></p> <p>S.12-3 Ewelina Knapska Nencki Institute of Experimental Biology of Polish Academy of Sciences, Warsaw, Poland</p>	Jan Manuel Rodriguez Parkitna, PhD
4.15-4.45 p.m.		Coffee break - Exhibition Room	
4.45-6.45 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 a.m.-11 a.m.	Auditorium Maximum, Krupnicza Street	Registration	
	11.00 a.m.-12.00 p.m.		Plenary lecture 4 - Medium Hall PL. 4 Jacek R. Wiśniewski Max Planck Institute of Biochemistry, Martinsried, Germany <i>Large scale proteomics for understanding biological systems</i>	
	12.00 p.m.-1.00 p.m.		Session 13 - Medium Hall <i>Young scientific investigators' session</i> S.12-1-10	Rafał Ryguła, PhD Karolina Noworyta-Sokołowska, PhD
	1.00 – 2.00 p.m.		Lunch break - Exhibition Room	
	2.00 p.m.-4.30 p.m.		Closing & Award ceremony - Medium Hall	Professor Małgorzata Filip, PhD Professor Joanna Pera, PhD