

*Integrating Neuropharmacology and Bioinformatics with AI*

Venue: Auditorium Maximum, 33 Krupnicza Street, Krakow, Poland

| July 22, 2025      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| 9.00 - 10.00 a.m.  | Registration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 10.00 - 11.30 a.m. | <p><b>Session 1: Exploring disease and treatment associations in genome data banks</b><br/>Chair: PhD, Michał Korostyński, PhD<br/>90 min, Medium Hall A</p> <p><b>S. 01-1</b><br/><b>Taras Oleksyk</b><br/>Department of Biological Sciences, Oakland University, Rochester, USA<br/><i>A study of 20 000 Type 1 Diabetes exomes in Eastern Europe</i></p> <p><b>S. 01-2</b><br/><b>Ilse Kratschmer</b><br/>Institute of Science and Technology, Klosterneuburg, Austria<br/>TBA</p> <p><b>S. 01-3</b><br/><b>Tomasz Kościółek</b><br/>Structural and Functional Genomics Group, Sano – Centre for Computational Personalised Medicine, Kraków, Poland<br/>TBA</p> <p><b>S. 01-4</b><br/><b>Ali Jawaid</b><br/>Łukasiewicz Research Network - PORT Polish Center for Technology Development, Wrocław, Poland<br/><i>Interplay between lipid metabolism and microRNAs in the long-term effects and intergenerational transmission of childhood trauma</i></p> | <p><b>Session 2: Mechanisms and modeling of non-communicable diseases</b><br/>Chair: Prof. Józef Dulak, PhD<br/>90 min, Medium Hall B</p> <p><b>S. 02-1</b><br/><b>Judith Sluimer</b><br/>Maastricht University Medical Center, Maastricht, The Netherlands<br/><i>Vascular fibroblast (dys)function as new causal mechanism in vascular ageing and hypertension.</i></p> <p><b>S. 02-2</b><br/><b>Gabriela Kania</b><br/>University Zurich, Switzerland<br/><i>Tale of two tubes exploring mechanisms of failing human heart - focus on cardiac microtissues</i></p> <p><b>S. 02-3</b><br/><b>Przemysław Błyszczuk</b><br/>Jagiellonian University, Kraków, Poland<br/><i>Right heart in single cell RNAseq analysis</i></p> <p><b>S. 02-4</b><br/><b>Agnieszka Jaźwa-Kusior</b><br/>Jagiellonian University, Kraków, Poland<br/><i>Endothelial cell senescence at the crossroads of inflammation and vascular dysfunction</i></p>                                                  |
| 11.30 - 12.00 p.m. | Coffee break '+' - Exhibition Room                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 12.00 - 1.00 p.m.  | <p><b>Opening lecture</b><br/><b>Prof. Andrzej Lewenstam, PhD</b><br/><b>Åbo Akademi University, Turku, Finland, AGH University of Krakow, Poland</b><br/><i>Fast, Automated, and Integrated: Electrochemical Sensors and Algorithms Transforming Blood and Bioliquids Analysis</i><br/>Medium Hall<br/>Chairs: Prof. Robert Filipek, PhD</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 1.00 - 2.30 p.m.   | <p><b>Session 3: Neuroinformatics, computational neuroscience, deep learning: perspectives on computing and the brain</b><br/>Chair: Prof. Krzysztof Tokarski, PhD, Prof. Daniel Wójcik, PhD<br/>90 min, Medium Hall A</p> <p><b>S.03-1</b><br/><b>Daniel Wójcik</b><br/>Nencki Institute of Experimental Biology PAS, Warszawa, Poland<br/><i>Neuroinformatics, computational neuroscience, deep learning - what's in it for me?</i></p> <p><b>S.03-2</b><br/><b>Chaitanya Chintaluri</b><br/>Institute of Science and Technology Austria, Vienna, Austria<br/><i>Can AI open new doors? Ion channels and how to tame them</i></p> <p><b>S.03-3</b><br/><b>Piotr Majka</b><br/>Nencki Institute of Experimental Biology PAS, Warszawa, Poland<br/><i>AI in digital neuroanatomy</i></p> <p><b>S.03-4</b><br/><b>Włodzisław Duch</b><br/>Nicolaus Copernicus University, Toruń, Poland<br/><i>Perspectives from AI on intelligence</i></p>                    | <p><b>Session 4: The Zebrafish Model: A Tool for Advancing Brain Research</b><br/>Chair: Prof. Magdalena Chadzinska, PhD, Prof. Stefan Chlopicki, PhD<br/>90 min, Medium Hall B</p> <p><b>S. 04-1</b><br/><b>Magdalena Chadzińska</b><br/>Jagiellonian University, Kraków, Poland<br/><i>From infection to neurodegeneration - studies on the zebrafish model</i></p> <p><b>S. 04-2</b><br/><b>Kinga Gawel</b><br/>Medical University of Lublin, Poland<br/><i>Panta rhei: the use of zebrafish in epilepsy research</i></p> <p><b>S. 04-3</b><br/><b>Justyna Zmorzynska</b><br/>International Institute of Molecular Mechanisms and Machines, Polish Academy of Sciences, Warszawa, Poland<br/><i>Modeling neuropsychiatric disorders in zebrafish</i></p> <p><b>S. 04-4</b><br/><b>Iga Wasilewska</b><br/>Mossakowski Medical Research Institute Polish Academy of Sciences, Warszawa, Poland<br/><i>Role of Tmbim5 in the mitochondrial Ca2+ transport in zebrafish brain</i></p> |
| 2.30 - 3.15 p.m.   | Coffee break '+' - Exhibition Room                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.15 - 3.45 p.m.   | Sponsor presentation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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| 3.45 - 4.45 p.m.   | <b>Session 5: Presentation of ERC grants</b><br><b>S. 05-1</b><br><b>Janka Matrai</b><br>European Research Council Executive Agency, Brussels, Belgium<br><b>S. 05-2</b><br><b>Sandra Siegert</b><br>Institute of Science and Technology Austria (ISTA), Klosterneuburg, Austria<br><i>Microglia-Neuron Interaction</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4.45 - 5.00 p.m.   | <b>Welcome ceremony</b><br>Film about Kraków and the Maj Institute of Pharmacology Polish Academy of Sciences - Medium Hall<br>Chairs: Honorary Committee & Organizing Committee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 5.00 - 6.00 p.m.   | <b>Inaugural lecture</b><br><b>Prof. Jan Bjaalie, MD, PhD</b><br><b>University of Oslo, Norway, EBRAINS AISBL, Brussels, Belgium</b><br><i>Harnessing Big Data in Neuroscience: Strategic Insights into Data Sharing and Machine Learning Applications</i><br>Medium Hall<br>Chairs: Professor Małgorzata Filip, PhD, Professor Joanna Pera, PhD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 6.00 - 9.00 p.m.   | <b>Welcome party</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| July 23, 2025      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 9.00 - 10.30 a.m.  | <b>Session 6: New models and tools for stem cell research</b><br>Chair: TBA<br>90 min, Medium Hall A<br><b>S.06-1</b><br><b>Małgorzata Borowiak</b><br>Adam Mickiewicz University, Poznań, Poland<br><i>Beta cells and atypical diabetes</i><br><br><b>S.06-2</b><br><b>Agnieszka Rybak-Wolff</b><br>Max Delbrück Center - Berlin Institute for Medical Systems Biology (MDC-BIMSB), Berlin, Germany<br><i>Brain organoids to model human brain diseases</i><br><b>S.06-3</b><br><b>Jonathan Arias</b><br>EMBL, Vilnius University, Vilnius, Lithuania<br><i>Characterization of the HLA class I landscape in the Lithuanian population for regenerative medicine applications</i><br><br><b>S.06-4</b><br><b>Tomasz Kamiński</b><br>Warsaw University, Warszawa, Poland<br><i>Novel droplet microfluidic methods for single-cell assays</i> | <b>Session 7: Research methods and modelling in medical applications</b><br>Chair: Prof. Robert Filipek, PhD<br>90 min, Medium Hall B<br><b>S.07-1</b><br><b>Roman Major</b><br>Institute of Metallurgy and Materials Science, Polish Academy of Science, Kraków, Poland<br><i>Simulations of Life: from Microscale-Organ-on-Chip to Macroscale- Artificial Patient as a Effective Tool for Dynamic Hemocompatibility Assessment</i><br><b>S.07-2</b><br><b>Patrycja Kwiek</b><br>AGH University of Krakow, Poland<br><i>Generative Models in Biomedical Imaging: From Data Scarcity to Data Abundance</i><br><b>S.07-3</b><br><b>Krzysztof Szyszkiewicz-Warzecha</b><br>AGH University of Krakow, Poland<br><i>Modelling Transport of Ions using Nernst-Planck and Poisson Equations in Medical Applications: from Ion Selective Electrodes to Biological Membranes</i><br><b>S.07-4</b><br><b>Patrycja Domalik-Pyzik</b><br>AGH University of Krakow, Poland<br>Gradient Scaffolds for Gradient Tissue - Hydrogel Composites for Regeneration of Osteochondral Defects |
| 10.30 - 11.00 a.m. | Coffee break - Exhibition Room                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 11.00 - 11.30 a.m. | Sponsor presentation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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| 11.30 a.m. - 12.30 p.m. | <b>Plenary lecture 1</b><br><b>Prof. Józef Dulak, PhD</b><br><b>Jagiellonian University, Kraków, Poland</b><br><i>Beyond dystrophin: novel targets for treatment of Duchenne muscular dystrophy</i><br>Medium Hall<br>Chairs: Professor Joanna Pera, PhD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 12.30 - 2.00 p.m.       | <b>Poster session 1</b><br>Lunch break - Exhibition Room                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2.00 - 3.30 p.m.        | <b>Session 8: Targeting Serotonin 5-HT6 Receptor for Neuropsychiatric and Neurological Treatment Strategies</b><br>Chair: Prof. Paweł Zajdel, PhD; Severine Chaumont-Dubel, PhD<br>90 min, Medium Hall A<br><b>S. 08-1</b><br><b>Philippe Marin</b><br>Université de Montpellier, Centre National de la Recherche Scientifique, Institut National de la Santé et de la Recherche Médicale<br><i>Targeting the 5-HT6 receptor-mTOR axis in schizophrenia: from treatment of symptoms to a disease modifying strategy</i><br><b>S. 08-2</b><br><b>Severine Chaumont-Dubel</b><br>Université de Montpellier, Centre National de la Recherche Scientifique, Institut National de la Santé et de la Recherche Médicale, Montpellier, France<br><i>New Insights in ciliary serotonin 5-HT6 receptor signaling</i><br><b>S. 08-3</b><br><b>Natalia Malikowska-Racia</b><br>Maj Institute of Pharmacology Polish Academy of Sciences, Krakow, Poland<br><i>Dual antagonism of 5-HT3 and 5-HT6 receptors as a new strategy for targeting schizophrenia</i><br><b>S. 08-4</b><br><b>Maciej Sałaga</b><br>Faculty of Medicine, Medical University of Lodz, Poland<br><i>Potential therapeutic use of serotonin type 6 receptor ligands in irritable bowel syndrome (IBS): preclinical evidence</i> | <b>Session 9: Materials for medical applications</b><br>Chair: Prof. Aneta Frączek-Szczypta, PhD<br>90 min, Medium Hall B<br><b>S.09-1</b><br><b>Isela Padilla Rosales</b><br>AGH University of Krakow, Poland; Institute of Applied Sciences and Technology of UNAM, Mexico<br><i>The potential of lanthanides upconversion nanoparticles in biomedical applications</i><br><b>S.09-2</b><br><b>Aleksandra Benko</b><br>AGH University of Krakow, Poland<br><br><i>Biofunctional solutions for dynamic cell cultures in vitro</i><br><b>S.09-3</b><br><b>Marta Wojciechowska</b><br>Big Data Institute, University of Oxford, United Kingdom<br><i>From Slides to Signals: AI for Histological and Multi-Omic Insights</i><br><b>S.09-4</b><br><b>Ryszard Wielowski</b><br>AGH University of Krakow, Poland<br>Hybrid carbon composites as materials that can stimulate neural tissue: comparison of pyrolytic carbon and functionalized carbon nanotubes in a simulated environment |
| 3.30 - 4.00 p.m.        | Coffee break - Exhibition Room                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4.00 - 5.30 p.m.        | <b>Session 10: Brain resilience</b><br>Chair: Prof. Jan Manuel Rodriguez Parkitna, PhD<br>90 min, Medium Hall A<br><b>S. 10-1</b><br><b>Sara Xapelli</b><br>Universidade de Lisboa, Lisbon, Portugal<br>GIMM - Gulbenkian Institute for Molecular Medicine, Lisbon, Portugal<br><i>Neurogenesis and Depression: Exploring the Therapeutic Potential of Cannabinoid CB2 Receptors and Physical Exercise</i><br><b>S. 10-2</b><br><b>Muriel Koehl</b><br>University of Bordeaux, Neurocentre Magendie, Bordeaux, France<br><i>Adult neurogenesis and stress resilience</i><br><b>S. 10-3</b><br><b>Solveiga Samulėnaitė</b><br>Vilnius University, Vilnius, Lithuania<br><i>Cravings from Within: Gut Microbiota Drive the Development of Food Addiction</i><br><b>S. 10-4</b><br><b>Anna Solarz-Andrzejewska</b><br>Institute of Physiotherapy and Health Sciences, Academy of Physical Education, Katowice, Poland<br><i>Shaping Brain Resilience to Stress: The Roles of Sex and Blood–Brain Barrier Dynamics</i>                                                                                                                                                                                                                                                                      | <b>Session 11: TBA IP PAS</b><br>Chair: Klaudia Proniewska, PhD<br>90 min, Medium Hall B<br><b>S. 11-1</b><br><b>Klaudia Proniewska</b><br>Center for Digital Medicine and Robotics, Department of Bioinformatics and Telemedicine, Kraków, Poland<br><br><b>TBA</b><br><b>S. 11-2</b><br><b>Jan Kamiński</b><br>Nencki Institute of Experimental Biology PAS, Warszawa, Poland<br><i>Predicting Neuropsychiatric Conditions from EEG Signals Using Large-Scale Data</i><br><b>S. 11-3</b><br><b>TBA</b><br><b>TBA</b><br><b>TBA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| July 24, 2025           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| 9.00 - 10.30 a.m.       | <p><b>Session 12: Novel diagnostics methods in medicine</b></p> <p>Chair: Prof. Artur Rydosz, PhD<br/>90 min, Medium Hall A</p> <p><b>S. 12-1</b><br/><b>Maciej Wielgosz</b><br/>AGH University of Krakow, Poland<br/><i>CyfroVet - AI in veterinary medicine</i></p> <p><b>S. 12-2</b><br/><b>Sandra Zarychta</b><br/>AGH University of Krakow, Poland<br/><i>Pancreatic Segmentation Techniques: Bridging Medical Imaging for Accurate 3D Visualization in Preoperative Planning</i></p> <p><b>S. 12-3</b><br/><b>Dominik Grochala</b><br/>AGH University of Krakow, Poland<br/><i>Exhaled breath analysis as a novel diagnostic tool for daily clinical practice</i></p>                                                                                                                                                     | <p><b>Session 13: Neuroimaging Innovations: Integrating Bioinformatics for Improved Analysis</b></p> <p>Chair: Bartosz Pomierny, PhD<br/>90 min, Medium Hall B</p> <p><b>S. 13-1</b><br/><b>Michel Soares Mesquita</b><br/>Medscoopix, King's College London, UK<br/><i>Optimizing Neuroimaging Pipelines for Enhanced Translational Insights</i></p> <p><b>S. 13-2</b><br/><b>Maria Elisa Serrano (Melisa)</b><br/>King's College London, UK<br/><i>Current analysis methods in preclinical PET: an overview</i></p> <p><b>S. 13-3</b><br/><b>Eugene Kim</b><br/>King's College London, UK<br/><i>Imaging transcriptomics of genetically altered mouse models of brain disorders</i></p> <p><b>S. 13-4</b><br/><b>David Barry</b><br/>Francis Crick Institute, London, UK<br/><i>Reproducibility in Biomedical Research through Image Analysis</i></p> |
| 10.30 - 11.00 a.m.      | Coffee break - Exhibition Room                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 11.00 - 11.30 a.m.      | Sponsor presentation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 11.30 a.m. - 12.30 p.m. | <p><b>Plenary lecture 2</b></p> <p><b>Prof. Steve Williams, PhD</b><br/><b>Institute of Psychiatry, Psychology &amp; Neuroscience, King's College London, London, UK and Centre for Neuroimaging Sciences based at the South London and Maudsley Hospital, London, UK</b><br/><i>Bridging the Gap: Transitioning Brain Imaging Techniques from Lab to Clinic</i><br/>Medium Hall<br/>Chair: Professor Małgorzata Filip, PhD</p>                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 12.30 - 2.00 p.m.       | <p><b>Poster session 2</b></p> <p>Coffee break '+' - Exhibition Room</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2.00 - 3.00 p.m.        | <p><b>Session 14: Personalized medicine-innovative treatments for civilization diseases</b></p> <p>Medium Hall A<br/>Chair: Joanna Wierońska, PhD<br/>90 min, Medium Hall A</p> <p><b>S. 14-1</b><br/><b>Klaudia Kubiak</b><br/>Medical University of Gdansk, Poland<br/><i>OGF and Poplar-Derived Compounds: A Dual Approach to Reprogram PDAC</i></p> <p><b>S. 14-2</b><br/><b>Wawrzyniec Lawrence Dobrucki</b><br/>University of Illinois at Urbana-Champaign, IL, USA<br/><i>The Power of Molecular Targeted Imaging and its Implications for Disease Diagnosis and Personalized Treatment</i></p> <p><b>S. 14-3</b><br/><b>Joanna Wierońska</b><br/>Maj Institute of Pharmacology Polish Academy of Sciences, Krakow, Poland<br/><i>Personalized pharmacotherapy of schizophrenia in relation to observed symptoms</i></p> | <p><b>Session 15: Young investigator session</b></p> <p>Medium Hall B<br/>Chair: Katarzyna Głombik, PhD</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3.00 - 3.30 p.m.        | <p>Closing &amp; Award ceremony - Medium Hall A<br/>Chairs: Professor Małgorzata Filip, PhD, Professor Joanna Pera, PhD</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |