



## *Detailed programme*

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| Wednesday, September 17th, 17.09.2025 |                                                                                                                                                                                                              |                                                                                                                                                                                  |
| 09:00 – 16:00                         | Registration open (at the front of the Collegium Politicum, ul. Uniwersytetu Poznańskiego 5)                                                                                                                 |                                                                                                                                                                                  |
| 10:00 – 11:30                         | Meeting of the Board of the Polish Biochemical Society (Sala Profesorska)                                                                                                                                    |                                                                                                                                                                                  |
| 12:00 – 13:30                         | <b>Congress opening ceremony - Collegium Politicum Aula</b>                                                                                                                                                  |                                                                                                                                                                                  |
|                                       | 12:00 – 12:10                                                                                                                                                                                                | Congress Opening and Welcome Address<br><i>Marek Figlerowicz (Congress Chair and Scientific Committee Chair)</i><br><i>Zbigniew Warkocki (Chair of the Organizing Committee)</i> |
|                                       | 12:10 – 12:13                                                                                                                                                                                                | Welcome by the Dean of the Faculty of Political Science and Journalism AMU<br><i>Szymon Ossowski</i>                                                                             |
|                                       | 12:13 – 12:16                                                                                                                                                                                                | Welcome by the Dean of the Faculty of Biology AMU<br><i>Krzysztof Sobczak</i>                                                                                                    |
|                                       | 12:16 – 12:19                                                                                                                                                                                                | Welcome by the President of the Polish Biochemical Society<br><i>Adam Szewczyk</i>                                                                                               |
|                                       | 12:19 – 12:24                                                                                                                                                                                                | Laudation and presentation of the Honorary PTBioch Member Diploma to Rostyslav Stoika<br><i>Paweł Pomorski, Adam Szewczyk</i>                                                    |
|                                       | 12:24 – 12:30                                                                                                                                                                                                | Laudation and presentation of the 2024 Parnas Award<br><i>Andrzej Legocki, Adam Szewczyk</i>                                                                                     |
|                                       | 12:30 – 13:00                                                                                                                                                                                                | Lecture by the 2024 Parnas Award Winner<br><i>Andrzej Dziembowski</i>                                                                                                            |
|                                       | 13:00 – 13:30                                                                                                                                                                                                | Violin and harp concert<br><i>Barbara Szelągiewicz, Michał Zator</i>                                                                                                             |
| 13:30 – 14:30                         | Lunch – Collegium Biologicum (ul. Uniwersytetu Poznańskiego 6; ground floor)                                                                                                                                 |                                                                                                                                                                                  |
| 14:30 – 15:30                         | <b>Keynote lecture – Virginijus Šikšnys</b> , Collegium Politicum Aula<br>Arms race in microbial world: from antiphage defense to genome editing and beyond<br><i>Chairs: Józef Dulak, Krzysztof Sobczak</i> |                                                                                                                                                                                  |

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| 15:30 – 16:00 | Coffee break – Collegium Politicum                                                                                                                                                                                                                |                                                                                                                                                                                                            |
| 16:00 - 17:00 | <b>Keynote Lecture - Magdalena Źernicka-Goetz</b> , Collegium Politicum Aula<br>Modeling Human Development Beyond Implantation Using Integrated Stem Cell-Derived Models<br><i>Chairs: Maria Anna Ciemerych-Litwinienko, Cecilia Lanny Winata</i> |                                                                                                                                                                                                            |
| 17:00 – 19:00 | Poster session A - Collegium Biologicum ( <i>Poster presenters are requested to hang their posters before the session. Posters should be hanged during the entire session – 2hrs. Posters can remain hanged by 18.9. lunch time.</i> )            |                                                                                                                                                                                                            |
|               | 17:00 – 18:00                                                                                                                                                                                                                                     | Posters 1 – 62;<br>Posters of short talk presenters of sessions:<br>Nucleic Acids Chemistry and Structure, Nucleic Acids Biology<br>Protein Chemistry and Structure<br>Cell Biology, Developmental Biology |
|               | 18:00 – 19:00                                                                                                                                                                                                                                     | Posters 63 – 124;<br>Posters of short talk presenters of sessions:<br>Nucleic Acid Bioinformatics, Genetics and Epigenetics<br>Protein Biology, Proteomics and Metabolomics<br>Neurobiology                |
| 19:00 – 20:00 | Welcome reception - Collegium Biologicum, ground floor                                                                                                                                                                                            |                                                                                                                                                                                                            |

Thursday, September 18<sup>th</sup>, 18.09.2025

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| 08:40 – 16:00 | Registration open – Collegium Politicum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 09:00 – 10:30 | Parallel Sessions 1 – Collegium Politicum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|               | <p>Cell Biology</p> <p>Aula</p> <p>Chairs: <b>Malgorzata Borowiak, Józef Dulak</b></p> <p>09:00-09:30 <b>Malgorzata Borowiak</b> Mechanosignaling in human pancreatic beta cell development and function</p> <p>09:30-09:45 <b>Weronika Szukała</b> MCPIP Proteins as Key Modulators of Skin Cancer Fate</p> <p>09:45-10:00 <b>Magdalena Machowska</b> Mutations in the EMD gene disrupt myogenesis of EDMD1 patients' cells</p> <p>10:00-10:15 <b>Urszula Florczyk-Soluch</b> Context-Dependent Role of miR-378a in Diabetic and Ischemic Heart Disease: Evidence from Multi-Omics and hiPSC-CM Applications</p> <p>10:15-10:30 <b>Olga Wójcicka</b> The role of Cap2</p> | <p>Protein Chemistry and Structure</p> <p>Hall 120, 1<sup>st</sup> floor</p> <p>Chairs: <b>Marcin Nowotny, Miłosz Ruszkowski</b></p> <p>09:00-09:30 <b>Michał R. Szymanski</b> Cardiolipin-Mediated Regulation of Nuclease Activity in the Mitochondrial Repairosome</p> <p>09:30-09:45 <b>Elżbieta Wątor-Wilk</b> Halfway to hypusine. Structural biology of (deoxy)hypusination</p> <p>09:45-10:00 <b>Marek Tchórzewski</b> Phosphorylation of ribosomal P-stalk proteins governs auxiliary factor binding to the ribosome</p> <p>10:00-10:15 <b>Mariusz Jaskolski</b> Mapping the nucleophilic attack in three Classes of L-asparaginases by structural correlations</p> <p>10:15-10:30 <b>Grzegorz Dubin</b> Cargo-Pex5-Pex14</p> | <p>Nucleic Acid Chemistry and Structure</p> <p>Hall 121, 1<sup>st</sup> floor</p> <p>Chairs: <b>Elżbieta Kierzek, Barbara Nawrot</b></p> <p>09:00-09:30 <b>Jacek Jemielity</b> New developments in mRNA technology</p> <p>09:30-09:45 <b>Grażyna Leszczyńska</b> Post-synthetic RNA modifications in focus: what we gain and what we risk</p> <p>09:45-10:00 <b>Rafał M. Dolot</b> First crystal structures of DNA:2'-OMe-RNA and RNA:2'-OMe-RNA heteroduplexes</p> <p>10:00-10:15 <b>Agnieszka Kiliszek</b> Naphthyridine carbamate dimer ligand induces formation of Z-RNA-like fold of disease-related RNA and serves as a molecular glue for crystal lattice formation</p> <p>10:15-10:30 <b>Krzysztof Brzeziński</b> Single-Particle Cryo-EM of SAHresponsive riboswitch</p> | <p>Sponsors' presentations</p> <p>Hall 125, 1<sup>st</sup> floor</p> <p>09:00-09:30</p> <p><b>Bio-rad</b></p> <p><b>Kamil Rolski</b> Customizable SpyTag® Click-Biochemistry in Design and Construction of Therapeutic Antibodies and Peptides; Synthesis, Purification and Biological Activity Assays</p> <p>09:30-10:00</p> <p><b>ThermoFisher Scientific</b></p> <p><b>Sam Satish</b> EVOS Imaging Platforms - Objectively Precise, incredibly easy.</p> <p>10:00-10:30</p> <p><b>Avantor:</b></p> <p><b>Discovery Echo</b></p> <p><b>Polbionica</b></p> | <p>Acta Biochimica Polonica – news and perspectives</p> <p>Hall 126, 1<sup>st</sup> floor</p> <p>Chair: <b>Grzegorz Węgrzyn</b></p> <p>09:00-09:15 <b>Grzegorz Węgrzyn</b> Acta Biochimica Polonica – the journal of Polish Biochemical Society: recent changes and further development</p> <p>09:15-09:30 <b>Izabela Suchojad</b> Acta Biochimica Polonica – editorial overview</p> <p>09:30-10:00 <b>Ślawomir Lasota</b> Award for the best original article published in ABP in 2024 "The role of chemoattractant receptors in the electrotactic response of mouse 3T3 fibroblasts</p> <p>10:00-10:30 <b>Michał Rurek</b> Award for the best review article published in ABP in 2024 "Variability of plant transcriptomic responses under stress acclimation"</p> |

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|               | <i>in the neuromuscular system</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <i>ternary complex for peroxisomal import</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <i>from Pseudomonas aeruginosa: a bumpy road to success</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 10:30 – 11:00 | Coffee break - Collegium Politicum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 11:00 – 11:50 | Merck Life Science - Hodowle komórkowe 3D - o co całe zamieszanie? ( <i>3D Cell culture - what's all the fuzz about?</i> );<br>Yasmine Abouleila, Senior Scientist, HUB Organoids - Collegium Politicum Aula                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 12:00 – 13:30 | Parallel Sessions 2 – Collegium Politicum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
|               | <p>Developmental Biology</p> <p>Aula</p> <p><b>Chairs: Karolina Archacka, Maria Anna Ciemerych-Litwinienko</b></p> <p><b>12:00-12:30 Cecilia Winata</b> Uncovering the role of the noncoding genome in heart development</p> <p><b>12:30-12:45 Zofia Eliza Madeja</b> The role of mitochondria in shaping of bovine embryonic developmental competence – from oocyte maturation to the first cleavage division</p> <p><b>12:45-13:00 Zuzanna Gonera</b> Diet-induced hyperhomocysteinemia impairs mouse oocyte quality and reveals distinct transcriptional alterations at single-cell level</p> | <p>Protein Biology</p> <p>Hall 120, 1<sup>st</sup> floor</p> <p><b>Chairs: Adam Szewczyk, Marek Tchórzewski</b></p> <p><b>12:00-12:30 Marcin J. Suskiewicz</b> Of protein filaments and condensates: the underappreciated world of protein homomultimerisation</p> <p><b>12:30-12:45 Michal Wasilewski</b> OCIAD1, prohibitins and regulation of the TIM23 translocase</p> <p><b>12:45-13:00 Anna Kurzynska-Kokorniak</b> Unexpected ATP hydrolysis activity of human ribonuclease Dicer</p> <p><b>13:00-13:15 Przemysław Paweł Grela</b> The modus operandi of ribosome inactivating proteins at the</p> | <p>Nucleic Acid Biology</p> <p>Hall 121, 1<sup>st</sup> floor</p> <p><b>Chairs: Jolanta Jura, Zbigniew Warkocki</b></p> <p><b>12:00-12:30 Wojciech Branicki</b> DNA profiling in the study of human individuality.</p> <p><b>12:30-12:45 Justyna McIntyre</b> Tightly controlled yet highly mutagenic: exploring the regulation of human DNA polymerase <math>\iota</math></p> <p><b>12:45-13:00 Mikołaj Piotr Zaborowski</b> Detection of extracellular cancer-derived circRNAs</p> <p><b>13:00-13:15 Agata Lichawska-Cieślak</b> Parallel and antagonistic functional roles of MCPIP1 and MCPIP3 ribonucleases in skin homeostasis</p> | <p>Sponsors' presentations</p> <p>Hall 125, 1<sup>st</sup> floor</p> <p><b>12:00-12:30</b></p> <p><b>Analitik Genetyka</b></p> <p><b>Anna Pastyria</b> Discover the era of biology - New advances in spatial applications</p> <p><b>12:30-13:00</b></p> <p><b>I.C. Lab</b></p> <p><b>Christian Isidro</b> Obrazowanie bez granic – od 1 cm<sup>2</sup> (LightSheet) do 3 nm (MinFLux) w jednym mikroskopie Mirava.</p> <p><b>13:00-13:30</b></p> <p><b>Cytiva</b></p> <p><b>Stephan Pötsch</b> Micro purification and analysis of sample purity for CryoEM applications</p> |  |

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|               | <p>13:00-13:15 <b>Joanna Szpotkowska</b> GPX2 and oxidative stress as gatekeepers of pancreatic cell fate</p> <p>13:15-13:30 <b>Patryk Konieczny</b> Dystrophin isoforms DP71 and DP427 determine cell viability during proliferation and myofiber differentiation</p>                                                                                                                                                                                                 | <p>molecular and cellular levels</p> <p>13:15-13:30 <b>Apolonia Anna Witecka</b> Filling the gap: molecular identification and biochemical characterization of mammalian L- fucose dehydrogenase</p>                                                                                                                                                                                                                                                                                                                                            | <p>13:15-13:30 <b>Adam Klosin</b> Transposons regulate stress response by sequestering HSF-1 in condensates.</p>                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 13:30 – 14:30 | Lunch break - Collegium Biologicum, ground floor                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 14:30 – 16:00 | Parallel Sessions 3 – Collegium Politicum                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|               | <p>Neurobiology</p> <p>Aula</p> <p>Chairs: <b>Aleksandra Pękowska, Dariusz Rakus</b></p> <p>14:30-15:00 <b>Aleksandra Pękowska</b> Evolution of foetal astrocyte functions in primates</p> <p>15:00-15:15 <b>Julita Gumna-Mikina</b> Virus-like system of neuronal communication: deciphering the mammalian Arc – RNA interactions.</p> <p>15:15-15:30 <b>Pawel Michal Switonski</b> Transcriptional and nuclear pathology underlying Purkinje cell dysfunction in</p> | <p>Proteomics and Metabolomics</p> <p>Hall 120, 1<sup>st</sup> floor</p> <p>Chairs: <b>Michał Dadlez, Magdalena Łuczak</b></p> <p>14:30-15:00 <b>Maciej Maurycy Lalowski</b> Multi-omics analyses in rare neurodegenerative diseases: lessons to be learned</p> <p>15:00-15:15 <b>Anna Jarzab</b> Meltome Atlas development and its utility in assessing the impact of fever on bacterial infections.</p> <p>15:15-15:30 <b>Ewa Bretes</b> Biphenyl hydrolase-like protein (BPHL) depletion affects neurofilament cytoskeleton organization</p> | <p>Nucleic Acid Bioinformatics</p> <p>Hall 121, 1<sup>st</sup> floor</p> <p>Chairs: <b>Janusz Bujnicki, Marta Szachniuk</b></p> <p>14:30-15:00 <b>Bartek Wilczyński</b> Predicting function of non-coding DNA elements – is AI up to this challenge?</p> <p>15:00-15:15 <b>Eugene Baulin</b> Predicting RNA secondary structure with SQUARNA</p> <p>15:15-15:30 <b>Michał Ignacy Swirski</b> Massive aggregation of ribosome profiling data reveals hidden translational events and regulatory complexity</p> | <p>Sponsors' presentations</p> <p>Hall 125, 1<sup>st</sup> floor</p> <p>14:30-15:00</p> <p><b>Altium</b></p> <p><b>Alicja Martyniak</b></p> <p>A combined approach for comprehensive investigation- high resolution imaging and real-time metabolic analysis of brain tissue</p> <p>15:00-15:15</p> <p><b>TK-Biotech</b></p> <p><b>Agnieszka Ciesielska</b></p> <p>Discover the next level of biological complexity with Aviti24.</p> | <p>Career Development in Academia: Fellowships Opportunities</p> <p>Hall 126, 1<sup>st</sup> floor</p> <p>Chairs: <b>Piotr Laidler, Bogusz Kulawiak</b></p> <p>14:30-14:45 <b>Piotr Laidler</b> FEBS: Wspieranie innowacji i młodych naukowców w dziedzinie nauk o życiu</p> <p>14:45-15:20 <b>Anna Jagusiak, Dawid Wnuk</b> FEBS: Komisja ds. karier młodych uczonych: YSF, ENABLE, Sekcja Młodych Naukowców</p> <p>15:20-15:35 Rozwój kariery naukowej z Fundacją Alexandra von Humboldta</p> |

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|               | <p><i>spinocerebellar ataxia type 7</i></p> <p>15:30-15:45 <b>Michał Turek</b><br/><i>Pathogen threat proximity shapes host extracellular vesicle production in pre-infection response</i></p> <p>15:45-16:00 <b>Medi Patria</b><br/><i>Infrared Spectroscopy Identifies Biomarkers for Non-Invasive Diagnosis of Neurodegeneration in ALS Mouse Models</i></p> | <p><i>and mitochondrial function in mice brain</i></p> <p>15:30-15:45 <b>Monika Pietrowska</b><br/><i>Presence of HPV peptides in small extracellular vesicles released by tumor cells</i></p> <p>15:45-16:00 <b>Jakub Karczmarski</b><br/><i>The Relationship Between Fatty Acid and Bacterial Metabolite Levels in Crohn's Disease: Potential Diagnostic and Prognostic Biomarkers</i></p> | <p>15:30-15:45 <b>Olgierd Ludwiczak</b><br/><i>Quantifying interface accuracy in predicted RNA-protein complexes</i></p> <p>15:45-16:00 <b>Lidia Lipinska-Zubrycka</b><br/><i>Exploring RNA metabolism with custom genome-wide 3' RACE: from yeast models to human cells</i></p> | <p>15:15-16:30<br/><b>Merck – Workshop</b><br/><b>Zuzanna Burzyńska</b><br/><i>Żel do Western Blot w 3 minuty? Poznaj mPAGE® Lux Casting System</i></p> | <p><i>Developing a scientific career with the Alexander von Humboldt Foundation</i></p> <p>15:35-16:00 <i>Oferta stypendialna instytutów Polskiej Akademii Nauk i uczelni</i></p> <p><i>Instytut Biologii Doświadczalnej PAN</i><br/><b>Urszula Dziewulska</b></p> <p><i>Instytut Chemii Bioorganicznej PAN</i><br/><b>Agnieszka Konrad</b></p> <p><i>Śląski Uniwersytet Medyczny</i> <b>Patryk Chudy</b></p> |
| 16:00 – 17:00 | General and voting assembly of the Polish Biochemical Society – Collegium Politicum Aula                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                  |                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                               |
| 17:00 – 19:00 | Poster session B - Collegium Biologicum, 1 <sup>st</sup> floor                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                  |                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                               |
|               | 17:00 – 18:00                                                                                                                                                                                                                                                                                                                                                   | <p>Posters 125 – 187;</p> <p>Posters of short talk presenters of sessions:</p> <p>Genomics and Transcriptomics</p> <p>Molecular Machines and Tools, Transport and Signalling Pathways</p> <p>Innovative Biomedicine, Biotechnology and Microbiology</p> <p>Cellular Motility: Mechanisms and Structures, Applied Biotechnology</p>                                                           |                                                                                                                                                                                                                                                                                  |                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                               |
|               | 18:00 – 19:00                                                                                                                                                                                                                                                                                                                                                   | <p>Posters 188 – 248;</p> <p>Posters of short talk presenters of sessions:</p> <p>Nucleic Acids in Disease and Therapy</p> <p>Bioactive Compounds and Small Molecules</p> <p>Plant Biology</p> <p>Mitochondria and Membranes: Function and Regulation in Cellular Signalling, Flow Cytometry</p>                                                                                             |                                                                                                                                                                                                                                                                                  |                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                               |

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| 19:00 – 21:00                                   | Grill, barbecue & networking - Collegium Biologicum, ground floor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Friday, September 19 <sup>th</sup> , 19.09.2025 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 08:40 – 16:00                                   | Registration open - Collegium Politicum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 09:00 – 10:30                                   | Parallel Sessions 4 – Collegium Politicum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                 | <p>Innovative Biomedicine</p> <p>Aula</p> <p><i>Chairs: <b>Natalia Rozwadowska, Barbara Uszczyńska-Ratajczak</b></i></p> <p><i>09:00-09:30 <b>Piotr Trzonkowski</b> From bench to bedside – T regulatory cells in the treatment of autoimmunity</i></p> <p><i>09:30-09:45 <b>Krzysztof Drabikowski</b> Modelling PACS2 syndrome in the nematode <i>Caenorhabditis elegans</i> for drug repurposing screening</i></p> <p><i>09:45-10:00 <b>Jerzy Kotlinowski</b> Ductular reaction in <i>Mcpip1</i>-deficient mice is alleviated by <i>Lactobacillus rhamnosus</i> treatment via targeting gut-liver axis</i></p> <p><i>10:00-10:15 <b>Tomasz Kolanowski</b> From first clinical-stage CAR-T product developed in Poland to advancements on international biotech</i></p> | <p>Molecular Machines and Tools</p> <p>Hall 120, 1<sup>st</sup> floor</p> <p><i>Chairs: <b>Anna Marusiak, Marta Olejniczak</b></i></p> <p><i>09:00-09:30 <b>Anna Marusiak</b> PROTAC-based approach for selective MLK3 degradation in triple-negative breast cancer</i></p> <p><i>09:30-09:45 <b>Magdalena Dabrowska</b> CRISPRi screen revealed new genes involved in CAG repeat shortening process following endonuclease-induced DNA break</i></p> <p><i>09:45-10:00 <b>Anna Urbanowicz</b> Beyond icosahedral symmetry: Insights into the self-assembly of recombinant virus-like particles derived from icosahedral plant viruses</i></p> <p><i>10:00-10:15 <b>Monika Targońska</b> From Genotype to Function: Tools for Analysis of LDLR (Low-</i></p> | <p>Genetics and Epigenetics</p> <p>Hall 121, 1<sup>st</sup> floor</p> <p><i>Chairs: <b>Agnieszka Żmieńko, Dominik Strapagiel</b></i></p> <p><i>09:00-09:30 <b>Tomasz Kazimierz Wojdacz</b> The increasing significance of epigenetic biomarkers in personalized medicine</i></p> <p><i>09:30-09:45 <b>Bart Krist</b> The role of lamina-associated domains (LADs) and 3D genome architecture in the establishment of epidermal barrier</i></p> <p><i>09:45-10:00 <b>Michał Dmowski</b> Contribution of non-catalytic subunits of the replisome to genetic stability and cell cycle control</i></p> <p><i>10:00-10:15 <b>Maja Szymańska-Lejman</b> Reprogramming meiotic recombination at hotspots in Arabidopsis through</i></p> | <p>Cellular Motility: Mechanisms and Structures</p> <p>Hall 125, 1<sup>st</sup> floor</p> <p><i>Chair: <b>Joanna Moraczewska</b></i></p> <p><i>09:00-09:15 <b>Marta Migocka-Patrzałek</b> How does the reduced availability of an energy source affect skeletal muscles? Zebrafish as a model of human McArdle disease</i></p> <p><i>09:15-09:30 <b>Jakub Ostrowski</b> Myosin VI in <i>Drosophila</i> border cell migration</i></p> <p><i>09:30-09:45 <b>Antonina Joanna Mazur</b> FHOD1 – an actin polymerase – binds to lipid droplets (LDs) and regulates their functioning in human skin melanoma cells</i></p> <p><i>09:45-10:00 <b>Nithin Chandran</b> Computational modeling reveals distinct protein stability and</i></p> | <p>Applied Biotechnology</p> <p>Hall 126, 1<sup>st</sup> floor</p> <p><i>Chair: <b>Jakub Dalibor Rybka</b></i></p> <p><i>09:00-09:15 <b>Adam Aron Mieloch</b> Superparamagnetic Iron Oxide Nanoparticles (SPIONs): A Versatile Platform for Capture and Detection of Biomolecules</i></p> <p><i>09:15-09:30 <b>Marta Anna Białobrzewska</b> Patient-derived induced pluripotent stem cells-based model uncovers cardiomyocyte-specific dystrophin Dp427 preservation and Dp116 expression in Duchenne Muscular Dystrophy caused by atypical splicing of DMD gene</i></p> <p><i>09:30-09:45 <b>Agata Gołqbek-Grenda</b> Targeting the immune response and redox imbalance in endometriosis with</i></p> |

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|               | <p>landscape – summary of FamiCordTx clinical trials and ongoing research.</p> <p>10:15-10:30 <b>Marta Przymuszała</b> 3D cardiac microtissue model reveals vascular, contractile and transcriptomic dysregulation in Duchenne muscular dystrophy</p> | <p>Density Lipoprotein Receptor) Variants</p> <p>10:15-10:30 <b>Witold Szaflarski</b> Mitoxantrone binds the ribosomal exit tunnel: structural and functional explanation for translation inhibition, stress granule formation, and therapeutic relevance in multiple sclerosis</p> | <p>targeted chromatin modification</p> <p>10:15-10:30 <b>Joanna Zeyland</b> Caught in the Act: Natural Hybridization Between <i>Jacobaea vulgaris</i> and <i>J. erucifolia</i> Revealed by Molecular Markers</p> | <p>interaction defects due to pathogenic DNAI1 variants</p> <p>10:00-10:15 <b>Sławomir Lasota</b> Unraveling the biphasic mechanism of electrotaxis</p> <p>10:15-10:30 <b>Weronika Krzeszowiec-Jeleń</b> GLR channels are involved in chloroplast movements in <i>Lemna trisulca</i></p> | <p>resveratrol and its natural analogs</p> <p>09:45-10:00 <b>Areeta Magda Czerwińska</b> A microfluidic model of the blood–brain barrier for electroporation-mediated permeability modulation</p> <p>10:00-10:15 <b>Dawid Stępnik</b> Make Your Data Speak: Simplified Approaches to High-Dimensional Flow Cytometry Analysis</p> <p>10:15-10:30 <b>Katarzyna Blaszczyk</b> Exploiting the properties of human early <math>\beta</math>-cells to boost generation of insulin producing cells in vitro</p> |
| 10:30 – 11:00 | Coffee break - Collegium Politicum                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 11:00 – 12:00 | <p><b>Keynote lecture – Harold E. Varmus</b>; Collegium Politicum Aula</p> <p>Cancer Genetics: Past, Present, and Future</p> <p><i>Chairs: Jan Barciszewski, Zbigniew Warkocki</i></p>                                                                |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 12:15 – 13:45 | Parallel Sessions 5 – Collegium Politicum                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|               | <p><b>Meet the keynote speaker career development session</b> – and Adrian Krainer remote lecture</p> <p>Aula</p>                                                                                                                                     | <p>Transport and Signalling Pathways</p> <p>Hall 120, 1<sup>st</sup> floor</p> <p><i>Chairs: Agnieszka Dobrzyń, Michał Jasiński</i></p>                                                                                                                                             | <p>Genomics and Transcriptomics</p> <p>Hall 121, 1<sup>st</sup> floor</p> <p><i>Chairs: Luiza Handschuh, Piotr Ziolkowski</i></p>                                                                                | <p>Biotechnology and Microbiology</p> <p>Hall 125, 1st floor</p> <p><i>Chairs: Katarzyna Hryniewicz, Grzegorz Węgrzyn</i></p>                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|               | <p>A panel with<br/>Magdalena Żernicka-Goetz<br/>Harold E. Varmus<br/>Virginijus Šikšnys<br/>Nikolaus Rajewsky<br/>Adrian Krainer<br/>Andrzej Dziembowski<br/>and the participants</p> <p><b>Adrian Krainer</b><br/>Antisense<br/>Oligonucleotides for<br/>Diffuse Midline Glioma<br/>13:15 – 13:45</p> | <p>12:15-12:45 <b>Małgorzata Janicka</b> Plant plasma membrane proton pump, its role in transport and signalling.<br/>12:45-13:00 <b>Beata Greb-Markiewicz</b> Localization and functioning of the bHLH family of transcription factors<br/>13:00-13:15 <b>Anna Niedźwiecka</b> Highly polyanionic, intrinsically disordered proteins regulate biomineralization through liquid-liquid phase separation<br/>13:15-13:30 <b>Robert Kleszcz</b> Wnt signaling pathway inhibition as the foundation for combined molecular targeted therapy of head and neck squamous cell carcinoma<br/>13:30-13:45 <b>Katarzyna Piwocka</b> Stroma-driven horizontal transfer of TCA proteins mediates metabolic plasticity and imatinib resistance in leukemia</p> | <p>12:15-12:45 <b>Kinga Kamieniarz-Gdula</b> Proximity of pre-mRNA 3'end cleavage and transcription termination enhances gene expression and compromises colorectal cancer<br/>12:45-13:00 <b>Katarzyna Nowis</b> Isoform switching as a key mechanism in chemotherapy resistance in triple-negative breast cancer<br/>13:00-13:15 <b>Katarzyna Klonowska</b> TSC angiofibroma and ungual fibroma have different mutation signatures, with recurrent mutations in KMT2C<br/>13:15-13:30 <b>Paulina Galka-Marciniak</b> Whole-miRNome Sequencing<br/>13:30-13:45 <b>Marcin Piotr Sajek</b> Unexplored RNA biology of non-model organisms as a source of putative drug targets – polyadenylation signals in Giardia.</p> | <p>12:15-12:45 <b>Paulina Niedźwiedzka-Rystwej</b> Interplay Between Autophagy and Apoptosis in Viral Infections: Insights from Lagovirus europaeus<br/>12:45-13:00 <b>Antonina Naskalska</b> Developing modular virus-like particles as vaccine platforms for challenging pathogens<br/>13:00-13:15 <b>Agnieszka Razim</b> Development of the universal chemically-defined medium for the analysis of „stressed“ bacterial EVs in the context of undernutrition<br/>13:15-13:30 <b>Adrian Augustyniak</b> Optimizing pyocyanin production with nanostimulants<br/>13:30-13:45 <b>Dorota Kostrzewa-Nowak</b> Clinical picture of selected cytokine secretion in pediatric patients with urosepsis caused by E. coli</p> |  |
| 13:45 – 14:00 | Group photo in front of Collegium Biologicum                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 14:00 – 15:00 | Lunch break - Collegium Biologicum                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 15:00 – 16:30 | Parallel Sessions 6 – Collegium Politicum                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |

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| <p>Plant Biology</p> <p>Aula</p> <p>Chairs: <b>Paweł Bednarek, Szymon Świeżewski</b></p> <p>15:00-15:30 <b>Magda Krzymowska</b> How plants sense invaders?</p> <p>15:30-15:45 <b>Michał Rurek</b> The new, comprehensive repository for plant rich-glycine proteins-construction, challenges and perspectives</p> <p>15:45-16:00 <b>Emmanuel Arkorful</b> Exopolysaccharides from <i>Hymenoscyphus fraxineus</i> induce cell wall remodelling and activates immune response in ash and <i>Arabidopsis</i></p> <p>16:00-16:15 <b>Justyna Boniecka</b> The role of the stringent response in the regulation of tomato (<i>Solanum lycopersicum</i> L.) plant development and responses to stress</p> <p>16:15-16:30 <b>Frédéric Marsolais</b> Inhibition of <math>\beta</math>-substituted alanine synthase 4;1 from common bean (<i>Phaseolus vulgaris</i> L.) by benzoic and salicylic acids</p> | <p>Bioactive Compounds and Small Molecules</p> <p>Hall 120, 1<sup>st</sup> floor</p> <p>Chairs: <b>Marcin Drąg, Izabela Sadowska-Bartos</b></p> <p>15:00-15:30 <b>Karolina Pierzynowska</b> The role of peroxisomes in the regulation of autophagy and ferroptosis: a novel mechanism in NBIA pathogenesis.</p> <p>15:30-15:45 <b>Agnieszka Łoboda</b> Therapeutic targeting of hydrogen sulfide in Duchenne muscular dystrophy: functional and molecular benefits of H<sub>2</sub>S donors in dystrophic mouse models</p> <p>15:45-16:00 <b>Lukasz Skalniak</b> Ten years of targeting PD-L1 with small molecules: improving the bioactivity and deciphering the mechanism of action</p> <p>16:00-16:15 <b>Jolanta Kryczka</b> Bis-(di-4-phenyl-benzylaminethiocarbonyl) disulfide Reverses Cisplatin Resistance of ABCC2 and ALDH3A1 Overexpressing Non-Small Cell Lung Cancer Cells</p> <p>16:15-16:30 <b>Aleksandra Majchrzak-Celińska</b></p> | <p>Nucleic Acids in Disease and Therapy</p> <p>Hall 121, 1<sup>st</sup> floor</p> <p>Chairs: <b>Agnieszka Fiszer, Jacek Jemielity</b></p> <p>15:00-15:30 <b>Andrzej Dziembowski</b> Complex metabolic pathways of therapeutic mRNAs in vivo</p> <p>15:30-15:45 <b>Ewa Stępnia-Konieczna</b> Small activating RNA-based therapeutic modulation of MBNL1 transcription in myotonic dystrophy</p> <p>15:45-16:00 <b>Simran Yadav</b> Functional Insights and Validation of Blood-Based miRNA Biomarkers in Alzheimer's Disease Using the 3xTg-AD Model</p> <p>16:00-16:15 <b>Izabella Slezak-Prochazka</b> Dissecting the dual role of LINC00116 in B-cell lymphoma: functional contribution of the lncRNA and its encoded micropeptide Mitoregulin</p> <p>16:15-16:30 <b>Adrian Tiré</b> Cancer mutations turn key miRNAs into broken regulators</p> | <p>Mitochondria and Membranes: Function and Regulation in Cellular Signalling</p> <p>Hall 125, 1<sup>st</sup> floor</p> <p>Chairs: <b>Wiesława Jarmuszkiewicz, Adam Szewczyk, Piotr Koprowski</b></p> <p>15:00-15:30 <b>Piotr Koprowski</b> Pore dewetting as a common mechanism in gating and inhibition of large-conductance calciumactivated potassium (BK<sub>Ca</sub>) channels.</p> <p>15:30-15:45 <b>Kamila Maliszewska-Olejniczak</b> BK<sub>Ca</sub> Channel as a Novel Modulator of DNA Damage Response in Human Bronchial Epithelial Cells Exposed to Particulate Matter</p> <p>15:45-16:00 <b>Lukasz Galgański</b> Mitochondrial adaptations to hypoxia and reoxygenation in human endothelial cells</p> <p>16:00-16:15 <b>Ulrike Topf</b> The cytosolic ribosomal protein Rpl40/eL40 supports mitochondrial function</p> <p>16:15-16:30 <b>Karolina Pytlak</b> The mitoBK Channel as a Player in the</p> | <p>Flow Cytometry: Empowering Discovery</p> <p>Under patronage of BFCS</p> <p>Hall 126, 1<sup>st</sup> floor</p> <p>Chairs: <b>Lidia Gackowska, Paulina Jackowiak</b></p> <p>15:00-15:30 <b>Mariusz Kaczmarek</b> Flow Cytometry – Beyond the Limits of Imagination</p> <p>15:30-15:45 <b>Paulina Jackowiak</b> Identification and profiling of planarian multinucleated cells using imaging flow cytometry</p> <p>15:45-16:00 <b>Wojciech Juzwa</b> Before you proceed with cultivation step: flow cytometry in microbiology uncovered</p> <p>16:00-16:15 <b>Kamil Szeliski</b> Extracellular Vesicle Analysis by Flow Cytometry: Challenges and Opportunities</p> <p>16:15-16:30 <b>Michał Maj</b> Where Science Sharpens Its Edge: Core Labs as Strategic Enablers</p> |
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|               |                                                                                                                                                                            | <i>Sonodynamic therapy with violacein encapsulated in nanoliposomes for melanoma treatment</i> |  | <i>Epithelial Response to Urban Particulate Matter</i> |  |
| 16:30 – 17:00 | Coffee break - Collegium Politicum                                                                                                                                         |                                                                                                |  |                                                        |  |
| 17:00 – 18:00 | <b>FEBS National Lecture - Nikolaus Rajewsky</b> ; Collegium Politicum Aula<br>Predicting disease trajectories<br><i>Chairs: Luiza Handschuh, Marek Figlerowicz</i>        |                                                                                                |  |                                                        |  |
| 18:00 – 18:40 | <b>Congress awards and closing ceremony - Collegium Politicum Aula</b>                                                                                                     |                                                                                                |  |                                                        |  |
|               | 18:00 - 18:10                                                                                                                                                              | Concluding remarks and acknowledgements                                                        |  |                                                        |  |
|               | 18:10 - 18:30                                                                                                                                                              | Short talk and poster Award ceremony, Lottery winners ceremony                                 |  |                                                        |  |
|               | 18:30 - 18:40                                                                                                                                                              | Congress closure                                                                               |  |                                                        |  |
|               |                                                                                                                                                                            |                                                                                                |  |                                                        |  |
| 20:00 – 24:00 | Congress Gala Dinner – Hanka al. Niepodległości 26<br>Featuring Continuo string quartet                                                                                    |                                                                                                |  |                                                        |  |
| 20:00 – 22:00 | Young Scientists’ Activity – Institute of Bioorganic Chemistry PAS, ul. Henryka Wieniawskiego 17/19<br>Catering and Bob Dylan’s songs played and sung by Władysław Węgorek |                                                                                                |  |                                                        |  |

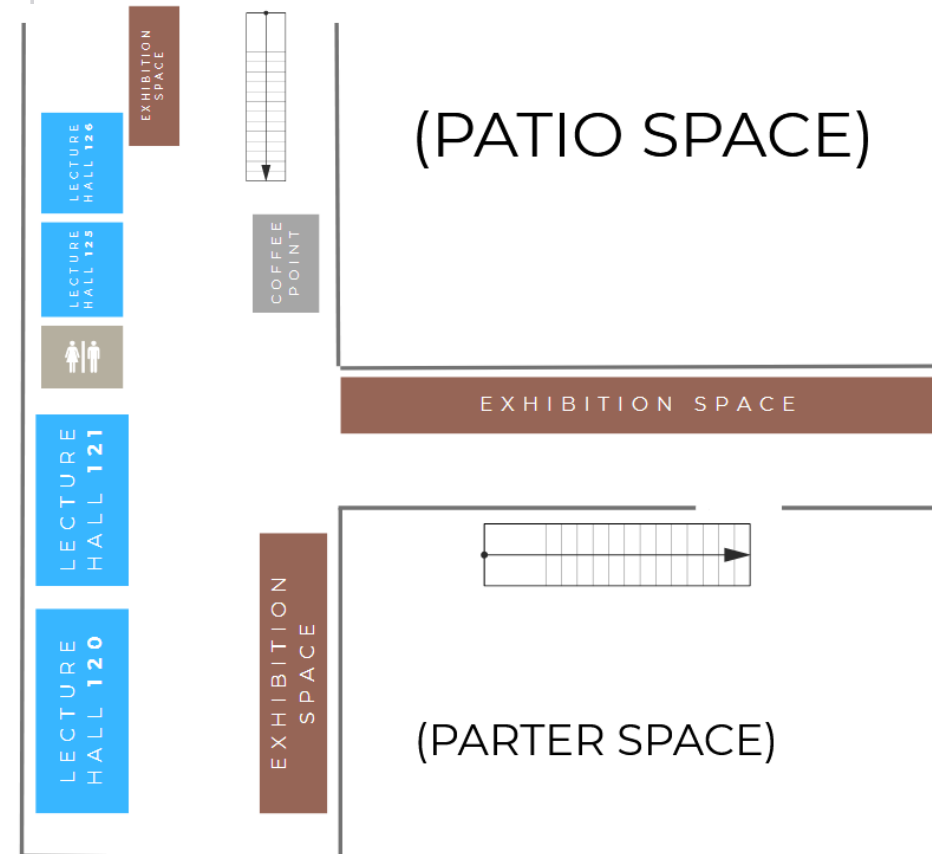
## Saturday, September 20th, 20.09.2025

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| 10:00 – 14:00 | <b>Nauka dla Społeczeństwa</b> – Instytut Chemii Bioorganicznej PAN, ul. Henryka Wieniawskiego 17/19<br>With coffee breaks and sweets |                                                                 |
| 10:00 – 10:45 | Maria Anna Ciemerych-Litwinienko                                                                                                      | <i>Ab ovo</i> - blaski i cienie pluripotencji                   |
| 11:00 – 11:45 | Józef Dulak                                                                                                                           | Komórki macierzyste: zastosowania, perspektywy, nieporozumienia |
| 12:00 – 12:45 | Hanna Kmita                                                                                                                           | Czy drożdże i niesporczaki pomogą nam w podróżach kosmicznych?  |
| 13:00 – 13:45 | Marek Figlerowicz                                                                                                                     | Czy genomika umożliwi poznanie naszej przeszłości?              |
|               |                                                                                                                                       |                                                                 |

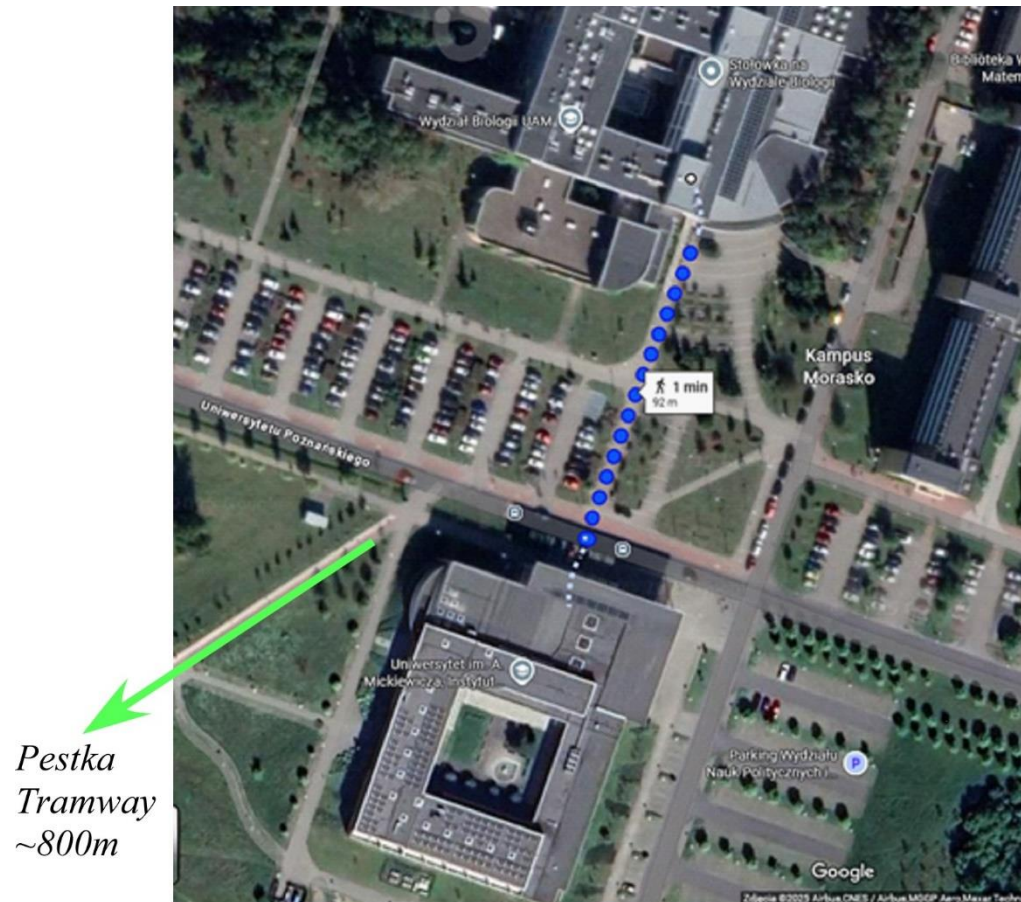
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| 10:00 – 13:00    | Poznan sightseeing with a guide (free upon registration): Poznań Imperial Quarter with Castle and Św. Marcin street, Okrągłak, Plac Wolności, Bazar, Old Market Square, Fara, Chwaliszewo, Cathedral Island |
| 10:00 – 14:30/15 | Excursion to Rogalin (park with the oaks and palace; registration and payment needed)                                                                                                                       |
| 10:00 – 14:30/15 | Excursion to Kórnik (arboretum and castle with the old prints; registration and payment needed)                                                                                                             |



## MAP 1ST FLOOR



*Faculty of Political Sciences and Journalism and the Faculty of Biology located just opposite*



*Lunch & Dinner will be served at the Faculty of Biology at the ground floor.*

*Poster sessions will be held at the Faculty of Biology at the 1st floor. Posters of the short talk presenters of each session will be located each 10 regular posters i.e. Nucleic Acids Chemistry and Structure short talk posters 1-4, followed by posters 1 – 10, followed by Nucleic Acid Biology short talk posters 1-4, followed by posters 11 – 20... There will be volunteers to help and guide you.*