

## CONFERENCE PROGRAMME

<b>May 23 (Tuesday)</b>		
15:30-16:30	Registration	<i>Maironio str. 11</i>
16:30-16:45	Unveiling of the memorial plaque to Jędrzej Sniadecki.	<i>A.Volano str. 2,</i>
17:00-17:15	Photo of all participants.	<i>Ministry of</i>
17:15-17:30	Opening of the conference, welcome	<i>Education,</i>
17:30-18:30	<u>Key lecture.</u> The history of chemistry in Lithuania. <i>Rimantas Vaitkus.</i>	<i>Science and Sport</i>
18:30-20:00	Welcome party	<i>Maironio str. 11</i>
<b>May 24 (Wednesday)</b>		
09:00-11:00	Registration	<i>Saulėtekio av. 7</i>
09:30-10:30	<u>Plenary lecture.</u> Science History Institute lecture: 20 years of scientific heritage in Europe: Trends and perspectives. <i>Marta C. Lourenço</i>	<i>Saulėtekio av. 3</i>
<b>Session: Molecular foundations of life</b> <i>Moderators: Saulius Serva, Marek Figlerowicz</i>		<i>Saulėtekio av. 7 (LSC), Room R106</i>
10:50-11:00	Welcome at Life Sciences Center (LSC). <i>Edita Sužiedėlienė, Daumantas Matulis</i>	
11:00-11:30	<u>Plenary lecture.</u> Chemical epigenetics: from disease mechanisms to diagnostic tools. <i>Saulius Klimašauskas, Vilnius University</i>	
11:30-11:50	Type III CRISPR antiviral defense in bacteria. <i>Gintautas Tamulaitis, Vilnius University</i>	
11:50-12:10	Tackling tumor heterogeneity with scRNA-Seq <i>Linus Mažutis,, Vilnius University</i>	
12:10-12:30	Viruses of bloom-forming cyanobacteria - infection strategies. <i>Dariusz Dziga, Jagiellonian University, Krakow</i>	
12:30-12:45	Understanding and engineering plant-endophyte interactions for improved crop growth and resilience. <i>Danas Baniulis. Lithuanian Research Centre for Agriculture and Forestry</i>	
12:45-13:00	Plant stress response induced by seed exposure to cold plasma and electromagnetic field. <i>Vida Mildažienė, Vytautas Magnus University</i>	
<b>13:00-14:00</b>	<b>Lunch</b>	
<b>Session: Biomedicine</b> <i>Moderators: Vida Mildažienė, Joanna Dulińska-Litewka</i>		
14:00-14:30	<u>Plenary lecture.</u> Mitochondrial potassium channels and cardioprotection. <i>Adam Szewczyk, Nencki Institute of Experimental Biology</i>	
14:30-14:50	Neuronal sialylation in neural circuitry remodelling: insights from a mouse model and human surgical tissue. <i>Urtė Neniškytė, Vilnius University</i>	
14:50-15:10	Insight into cell communication: from apoptotic bodies down to exomeres. <i>Aistė Jekabsone, Lithuanian University of Health Sciences</i>	
15:10-15:30	One step closer to 3D bioprinted meniscus. <i>Jakub Rybka, Adam Mickiewicz University</i>	
<b>15:30-16:00</b>	<b>Coffee break</b>	
<b>Session: Genetic diversity and Systems biology</b> <i>Moderators: Česlovas Venclovas, Jozef Dulak</i>		
16:00-16:30	<u>Plenary lecture.</u> Mechanisms and processes generating genetic variation - genomics and archaeogenomics. <i>Marek Figlerowicz, Institute of Bioorganic Chemistry, Polish Academy of Sciences</i>	
16:30-16:50	Structural variation of baruol biosynthesis gene cluster in Arabidopsis accessions is associated with the climatic gradient. <i>Agnieszka Żmieńko, Institute of Bioorganic Chemistry Polish Academy of Sciences</i>	
16:50-17:10	Genomic characterization of invasive <i>Neisseria meningitidis</i> strains isolated in Lithuania in 2009-2019, <i>Milda Plečkaitytė, Vilnius University</i>	

17:10-17:30	SARS-CoV-2 genomic surveillance: the Lithuanian story. <i>Emilija Vasiliūnaitė, Vilnius University</i>
<b>17:30</b>	<b>Transfer to hotels</b>
<b>18:30-20:00</b>	<b>Conference dinner (for ticket holders only)</b>
<b>May 25 (Thursday)</b>	
<i>LSC, Room R102</i>	
<b>Session Bioinformatics</b>	
<i>Moderators: Justas Dapkūnas, Marek Figlerowicz</i>	
09:30-10:00	<u>Plenary lecture</u> . Application of bioinformatics to study diversity and distribution of bacterial DNA polymerases <i>Česlovas Venclovas, Vilnius University</i>
10:00-10:20	Sharing scientific data: the crystallography experience. <i>Saulius Gražulis, Vilnius University</i>
<b>10:20-11:00</b>	<b>Coffee break</b>
<b>Session Biomedicine and Biotechnology</b>	
<i>Moderators: Milda Plečkaitytė, Dariusz Dziga</i>	
11:00-11:30	<u>Plenary lecture</u> . Induced pluripotent stem cells and gene editing for disease modelling and experimental therapies. <i>Jozef Dulak, Jagiellonian University</i>
11:30-11:50	miRNA and gut microbiota signatures of vulnerability to food addiction in mice and humans. <i>Aurelijus Burokas, Vilnius University</i>
11:50-12:10	The inhibitors and nanoparticles in cancer therapy. <i>Joanna Dulińska-Litewka, Jagiellonian University</i>
12:10-12:25	Design of isozyme-selective inhibitors via engineering of chimeric carbonic anhydrases. <i>Joana Smirnovienė, Vilnius University</i>
12:25-12:40	Development of monoclonal antibodies against human endoplasmic reticulum proteins as a tool for their immunodetection and quantification. <i>Martynas Simanavičius, Vilnius University</i>
<b>12:40-14:00</b>	<b>Lunch</b>
14:00-15:30	Poster session
<b>15:30-16:00</b>	<b>Coffee break</b>
<b>Closing session</b>	
<i>Moderators: Saulius Serva, Adam Szewczyk, Vida Mildažienė</i>	
16:00-16:10	Life Sciences Center – the story of success. <i>Daumantas Matulis, Life Sciences Center</i>
16:10-16:25	Advancing genome editing technologies: An EMBL - Vilnius University partnership. <i>Stephen Knox Jones, EMBL Partnership Institute</i>
16:25-17:30	Panel discussion about the collaboration opportunities between Polish and Lithuanian biochemical societies and research groups
<b>17:30</b>	<b>End of the conference</b>