



FORUM CONFERENCE

15-17 May 2023

15 May 2023

10.00 Inauguration

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Agnieszka Ludwików

10.05 Keynote 1

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Chair: Karolina Lewińska

Martin Hromada *A paradoxical human life strategy: an adaptive strategy for conquering the world*

Jan Piekarczyk *How to recognize plant diseases from space*

Plenary session 1

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chair: Andrzej Pacak

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|-------------|----------------------|--|
| 11.00-11.10 | Wysoczański Wojciech | <i>Discovering fungal endophytes in living fossil Wollemia Pine (Wollemia nobilis), a critically endangered species</i> |
| 11.10-11.20 | Askarova Gulsamal | <i>Does temperature predictability affect the evolution of body size?</i> |
| 11.20-11.30 | Celebias Paulina | <i>Do animal personality impact seed dispersal?</i> |
| 11.30-11.40 | Dompe Claudia | <i>Alternative gene ends: the crosstalk of RNA cleavage and transcription termination</i> |
| 11.40-11.50 | Doran Tansu | <i>The role of 3D genome folding in the establishment of keratinocyte-specific promoter-enhancer network</i> |
| 11.50-12.00 | Fajfer Daniel | <i>Branchiopods - enigmatic ghosts of fading ecosystems</i> |
| 12.00-12.10 | Góral Nikola | <i>Spatial structure and dispersion strategy of an endangered damselfly species in the light of molecular data</i> |
| 12.10-12.20 | Grzanka Aleksandra | <i>The roles and therapeutic potential of distinct dystrophin and utrophin isoforms in the peripheral nervous system</i> |
| 12.20-12.30 | Henschke Agata | <i>Senescent Cells as a Model for NanoBioMedical Research</i> |
| 12.30-12.45 | Discussion | |

Plenary session 2

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chair: Hanna Kmita

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|-------------|---------------------|--|
| 14.00-14.10 | Jaskot Kaja | <i>Detection of cellular senescence using nanoparticles</i> |
| 14.10-14.20 | Jaster Dominika | <i>Reconstruction of climatic conditions in the wine-growing Zielonagóra region from the middle ages to modern times using the method of dendrochronology</i> |
| 14.20-14.30 | Kielich Natalia | <i>More than just leaves: Optimization of protoplast transformation system using leaves of <i>Chelidonium majus</i></i> |
| 14.30-14.40 | Kiełczewski Rafał | <i>Holocene development, functioning and decline of a Central European alkaline fen ecosystem</i> |
| 14.40-14.50 | Kizewska Dorota | <i>In vitro reconstruction of the interactions between mesenchymal and epithelial cells in human pancreatic islets development</i> |
| 14.50-15.00 | Kłęsk Jakub | <i>Colour of selected Neogene fine-grained sediments from the area of the Polish Lowlands in the context of mineralogical studies</i> |
| 15.00-15.10 | Konopińska Natalia | <i>In the search of new insecticides - immunomodulatory role of tachykinin-related peptides</i> |
| 15.10-15.20 | Kortus Klaudia | <i>Efficiency of different methods of isolation of environmental DNA from air</i> |
| 15.20-15.30 | Krakowiak Michalina | <i>In search of the perfect protocol – DNA and protein isolation from the eutardigrade <i>Paramacrobiotus experimentalis</i> Paramacrobiotus experimentalis Kaczmarek et al., 2020</i> |
| 15.30-15.45 | Krupka Tomasz | <i>Morphology of sand grains intended for use in the tracer experimental method</i> |
| 15.45-16.00 | <i>Discussion</i> | |

16.30-19.00 Poster session

chair: Michał Rurek, Małgorzata Pisarska-Jamroży, Elżbieta Czarniewska

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| PO1 | Bartylak Tomasz | <i>Examining effects of KCN on tardigrades</i> |
| PO2 | Bozzhigit kyzy Tolgonai | <i>Cultural and social relevance of geodiversity and geoheritage</i> |
| PO3 | Buda Jakub | <i>Bioaccumulation of radioisotopes in biogeochemical hotspots on glaciers</i> |
| PO4 | Budzińska Adrianna | <i>Bisphosphonates disturb calcium homeostasis in isolated endothelial mitochondria</i> |
| PO5 | Czuchaj Aleksandra | <i>Impact of rainfall intensity on soil erosion based on experimental research</i> |
| PO6 | Guan Yufeng | <i>Aldehyde dehydrogenase as a candidate for NO-dependent modification in <i>Arabidopsis</i></i> |
| PO7 | Jankowiak Grzegorz | <i>The influence of the measurement scale on the categorization of leaf damage caused by the Chestnut Leaf Miner</i> |
| PO8 | Kopczyńska Magda | <i>How does chromatin composition affect transcription termination?</i> |
| PO9 | Łopacinska Natalia | <i>The novel role of STAT1 In Vascular Smooth Muscle Cell–Specific transcriptional responses that reflect onset and progression of atherosclerosis</i> |

PO10	Łuczak Wojciech	<i>Application of extended microsatellite loci analysis in human identification and kinship testing</i>
PO11	Markowska Katarzyna	<i>rangr: a flexible tool for simulating species range dynamics</i>
PO12	Mehdi Syed Muhammad Muntazir	<i>AtBro1, Plasma membrane localized protein regulates growth and abiotic stress responses in Arabidopsis</i>
PO13	Repczyńska-Górczak Helena	<i>Fertility in industrial Poznań. How socio-economic status influence the number of children in family</i>
PO14	Różańska-Wróbel Joanna	<i>Interplay between immunity and infectivity genes: bank vole MHC supertypes and infection with Borrelia afzelii strains carrying polymorphic ospC</i>
PO15	Shcheglova Ekaterina	<i>In silico identification of mesenchymal-endothelial signals influencing differentiation of endocrine progenitors in developing human pancreas</i>
PO16	Stróżewska Weronika	<i>Association of selected mutations of the GHR and IGF1R with the lack of catch-up growth in SGA children</i>
PO17	Woźniak Wenesa	<i>Morphological and histological analysis of bone tissue response to muscle activity using a prehistoric osteological series of archers</i>
PO18	Zwolenkiewicz Joanna	<i>Investigating the role of the ProQ protein in the interactions between non-coding RNAs and their regulated mRNAs in Escherichia coli</i>

16 May 2023

9.15 Keynote 2

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chair: Andrzej Pacak

Savani Anbalagan *Role of glial pituicytes in vertebrate neurovascular morphogenesis*

11.00 Plenary session 3

[Click here to join the meeting](#) chair: Agata Cieśla

11.00-11.10	Lis Natalia	<i>Calibrating insect age at eclosion by size in a gregarious carrion beetle Thanatophilus sinuatus (Staphylinidae: Silphinae)</i>
11.10-11.20	Łaniecki Ronald	<i>Biodiversity of the genus Eupodes – one Holarctic species or a complex of cryptic species?</i>
11.20-11.30	Mahamoud Issa Mathieu	<i>Vocal and other social behaviour of the Yellow-breasted barbet (Trachyphonus margaritatus)</i>
11.30-11.40	Malinowska Katarzyna	<i>How to make virtual species less virtual?</i>
11.40-11.50	Malinowska Bogna	<i>Effects of toxic substances on antipredator behavior of shrews and their food selectivity.</i>
11.50-12.00	Matczak Patryk	<i>Improving mid and long-term predictions of convective hazards with global ensemble forecasting system (GEFS)</i>
12.00-12.10	Morańska Katarzyna	<i>Analysis of the composition of the vaginal, uterine, and anorectal microbiota in patients with endometrial cancer</i>
12.10-12.20	Nedunchezian Naveen	<i>Role of glial pituicytes in neurohypophyseal synaptic morphogenesis</i>

12.20-12.30	Niškiewicz Małgorzata	<i>Structure and functions of song in African wood doves (Turtur sp.).</i>
12.30-12.40	Ostrovskyy Oleksandr	<i>The roles and therapeutic potential of distinct dystrophin and utrophin isoforms in the central nervous system</i>
12.40-12.50	Shcheglova Ekaterina	<i>In silico identification of mesenchymal-endothelial signals influencing differentiation of endocrine progenitors in developing human pancreas</i>
12.50-13,10	Discussion	

Plenary session 4

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chair: Natalia Wojciechowska

14.00-14.10	Pankowski Patryk	<i>Short and long-term biological effects of the 1866 cholera epidemic in Poznań</i>
14.10-14.20	Pham Tan	<i>Genomics of local adaptation in a widespread butterfly</i>
14.20-14.30	Pluskota Mateusz	<i>Potentially pathogenic bacteria in indoor and outdoor air samples</i>
14.30-14.40	Robaczewski Mateusz	<i>History of unsuccessful town foundations in the bog archives of the Zielonka Forest</i>
14.40-14.50	Roy Ankit	<i>Mechanistic Understanding of picd-1 in Transposon Silencing and Genome Maintenance</i>
14.50-15.00	Rudy Elżbieta	<i>Analysis of epigenetic changes accompanying dark-induced senescence of barley leaves</i>
15.00-15.10	Sáez Zárata Esperanza	<i>Fantastic Recombination Modifier Loci and where to find them</i>
15.10-15.20	Shinde Shraddha	<i>Swift or Sluggish: The complexities of RNAPII elongation rate modulation in neurodevelopment.</i>
15.20-15.30	Skop Filip	<i>Dust storm climatology of Poland</i>
15.30-15.40	Sobieraj Kacper	<i>Sources of allergenic pollen in urban environment: detection of plane trees based on machine learning.</i>
15.40-15.50	Afzal Amanullah	<i>Role of DPPIV family Proteases in Transposon Silencing and Genome Maintenance</i>
15.50-16.00	Renu	<i>Identification and characterization of WHIRLY promoters</i>
16.00-16.10	Discussion	

17 May 2023

9.20 Keynote 3

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chair: Mikołaj Olejniczak

Fabio Angeoletto,

Zbigniew Warkocki

Biodiversity conservation and ecology of tropical cities

Identifying the Achilles heel of the human mobile genetic elements

11.00 Plenary session 5

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chair: Mikołaj Olejniczak

11.00-11.10	Szczapiński Adam	<i>Variability in the Occurrence of Tropical and Extratropical Cyclones in the North Atlantic (1970-2019)</i>
11.10-11.20	Świergiel Patrycja	<i>Elucidating the molecular mechanisms underlying the synthesis of sdRNAs mediated by FUS.</i>
11.20-11.30	Tutak Katarzyna	<i>RPS26 a novel RAN translation modifier of RNA harboring expanded CGG repeats in Fragile X-associated syndrome</i>
11.30-11.40	Walczak Anna	<i>Microevolutionary changes of human facial skeleton from medieval to modern times</i>
11.40-11.50	Wesołowska Agnieszka	<i>Detection of microplastic in water using remote sensing techniques</i>
11.50-12.00	Wilanowska Paulina	<i>Relations between immunogenetic variation, microbiome and personalities</i>
12.00-12.10	Winiarska Dominika	<i>“Stay out of my territory” - common cuckoo’s response to playback</i>
12.10-12.20	Wleklík Karolina	<i>Role of vacuolar processing enzymes in the degradation of autophagic bodies in sugar-starved embryonic axes of lupin (<i>Lupinus spp.</i>) germinating seeds</i>
12.30-12.40	Krzysztof Piasecki	<i>The climatology of supercell thunderstorms across Poland based on multisource data</i>
12.40-12.50	Slavomíra Jusková	<i>How family support networks influence the timing of women's first birth: Exploring the role of grandmothers and siblings</i>
12.50-13.00	Doran Tansu	<i>The role of 3D genome folding in the establishment of keratinocyte-specific promoter-enhancer network</i>
13.00-13.05	Discussion	