



FORUM CONFERENCE

19-21 September 2022

19 September

9:00 – 9:15

INAUGURATION – *in person* Mała Aula

chair: prof. Agnieszka Ludwików

On-site & on-line [Click here to join the meeting](#)

9:15 – 10:30

KEYNOTE 1 – *in person* Mała Aula

chair: prof. Agnieszka Ludwików

On-site & on-line [Click here to join the meeting](#)

prof. Marcello Coradini

From Space Scientist to Space Manager

prof. Kelly Cristina Tonello

*Forest-water Interactions in a Tropical Montane Cloud Forest:
Unknown Ways into Rain-fog-tree in Brazil*

10:30-11:00 **TEA & COFFEE BREAK**

PLENARY SESSION 1 – *in person* Mała Aula

chair: dr Agata Cieśla

11:00 – 11:10 Adam Młynarczyk

The Use of NDVI to Assess the Drought Period on the Basis of the Ipanema National Forest (Brazil)

11:10 – 11:20 Jagoda Byszko

Understanding social evolution and communication in primates - introduction

11:20 – 11:30 Robert Pasięka

U7 snRNA or the U7 snRNP complex binds to the lincRNAs containing HDE-like sequences?

11:30 – 11:40 Maria Mamońska

The sequence context of the intrinsic transcription terminator stem affects discrimination between RNAs by Escherichia coli ProQ, Hfq and FinO proteins

11:40 – 11:50 Edyta Urbaniak

The role of FKBP prolyl isomerase 2 in understanding the maturation process of human insulin.

11:50 – 12:00 Jadwiga Waśko

The role of endocan in pancreatic differentiation

12:00 – 12:10 Krzysztof Piasecki

The occurrence of supercell thunderstorms over Poland and the conditions for their development

12:10 – 12:20 Arta Olya

The novel role of STAT1 in Macrophage-specific transcriptional responses that reflect the onset and progression of atherosclerosis

12:20 – 12:40 Discussion

13:00 – 14:00 LUNCH

PLENARY SESSION 1 – *in person* Mała Aula

chair: prof. Mikołaj Olejniczak

- 14:00 – 14:10 Galin Gospodinov *The great taxonomy of the small life. Centuries in the trap of the deceiving morphology of Riccia fluitans s.l.*
- 14:10 – 14:20 Cyprian Kowalczyk *Diatoms (Bacillariophyceae) as indicators of extreme marine inundation events in the sediment record from coastal lakes of Burin Peninsula (Newfoundland, Canada).*
- 14:20 – 14:30 Krzysztof Wójcicki *The effects of statins on the bioenergetic activity of mitochondria isolated from the rat brain*
- 14:30 – 14:40 Dominika Winiarska *The effectiveness of owls' detection in bioacoustic monitoring*
- 14:40 – 14:50 Oliwia Mazur *The antiviral activity of Chelidonium majus latex with the focus on Major Latex Protein (MLP)*
- 14:50 – 15:00 Sara Henry *Specific and common role of ETV1,4 and 5 transcription factors in human pluripotent stem cells*
- 15:00 – 15:10 Wojciech Dzięgielewski *Regulation of H2A.Z acetylation and deposition contributes to the balance between photosynthesis and stress response in Arabidopsis*
- 15:10 – 15:20 Katarzyna Markowska *An rangr: R package for simulating range dynamics of virtual species*
- 15:20 – 15:30 Marta Zimna *Pseudouridine in micro RNA biogenesis - current progress*
- 15:30 – 15:45 Discussion

16:30 – 19:00 Cheese and wine POSTER SESSION – *in person* corridor on the 1st floor

chairs: prof. Karolina Lewińska & prof. Kelly Cristina Tonello

- PO1 Martyna Baranek-Grabińska *Redox-sensitive environmental stress sensor function of VDAC paralogs*
- PO2 Berika Beridze *Threat to survival of sweet chestnut (Castanea sativa Mill.) induced by climate change in the Caucasus region*
- PO3 Tolgonai Bozzhigit Kyzy *Cultural Ecosystem Services in the South parts of the Issyk-Kul basin (Kyrgyzstan)*
- PO4 Adrianna Budzińska *The influence of bisphosphonates used in treatment of osteoporosis on aerobic metabolism of endothelial cells*
- PO5 Katarzyna Burda *Pedigree-based mutation rate estimation in guppy (Poecilia reticulata)*
- PO6 Paulina Celebias *Do animal personality impact seed dispersal?*
- PO7 Krzysztof Dyba *Classification of landforms using machine learning on the example of Poland*
- PO8 Aleksandra Dzięgielewska *Study of lethal and sub-lethal effects of substances from cinnamon bark (Cinnamomum zeylanicum) on mealworm (Tenebrio molitor) and Gammarus pulex larvae.*
- PO9 Weronika Gościńska *New technologies as an opportunity for the development of tourism in the municipalities of Wolin and Międzyzdroje*
- PO10 Wojciech Grabiński *Oxidative stress and yVDAC2 protein level in Saccharomyces cerevisiae mitochondria*

PO11	Yufeng Guan	<i>Aldehyde dehydrogenase (ALDH) as a metabolic sensor of nitroxyl in Arabidopsis thaliana</i>
PO12	Sanaz Hassani	<i>The role of ISRE and GAS composite-containing genes in long term IFN-I and IFN-II responsiveness</i>
PO13	Jakub Buda	<i>Effects of radionuclides on organisms inhabiting glaciers</i>
PO14	Piotr Janiec	<i>Lakes as the geoinicator of the thermokarst landscapes disturbances after the wildfires, Canadian Arctic</i>
PO15	Grzegorz Jankowiak	<i>Application of remote sensing to assess the phytosanitary condition of Horse Chestnut trees (Aesculus hippocastanum L.) in the context of foraging of the Horse Chestnut leaf miner (Cameraria Ohridella)</i>
PO16	Rafał Kielczewski	<i>Environmental changes during Holocene archived in the sediments of the alkaline spring-fed fen in north-eastern Poland</i>
PO17	Magda Kopczyńska	<i>Genome-wide analysis of chromatin composition and dynamics at human transcription termination regions</i>
PO18	Sivakumar Krishnamoorthy	<i>Characterisation of Ubiquitin-protein Ligase UPL4 in ABA signalling and stress response</i>
PO19	Natalia Krupka	<i>Influence of precipitation on the variability of water levels and flows on the example of the Węlna river</i>
PO20	Natalia Łopacińska	<i>The novel role of STAT1 In Vascular Smooth Muscle Cell-Specific transcriptional responses that reflect onset and progression of atherosclerosis.</i>
PO21	Wojciech Łuczak	<i>Analysis of sixty-eight highly polymorphic autosomal microsatellite loci in complex kinship cases</i>
PO22	Kamil Łusiarczyk	<i>Development of post-mining lignite areas - research results of selected adaptation conditions of the post-mining area in the Kleczew commune (Greater Poland Voivodeship)</i>
PO23	Julia Maciorowska	<i>How does the dark stress affect the barley leaf plant memory?</i>
PO24	Katarzyna Malinowska	<i>Making virtual species less virtual by reverse engineering spatiotemporal ecological models</i>
PO25	Kornel Michalak	<i>Phloem protein (P protein) during the development of sieve elements in Populus trichocarpa roots</i>
PO26	Joe Money	<i>How does environmental temperature impact the ability of Daphnia to resist a novel fungal parasite?</i>
PO27	Thi Ngoc Pham	<i>Allergic potential of urban green spaces: ornamental species as a source of pollen allergens and the cause of increased sensitization of city inhabitants</i>
PO28	Neelam Jitendra Porwal	<i>Race against time: Can sexual selection save a species against environmental perturbation?</i>
PO29	Helena Repczyńska	<i>The impact of late parenthood on the biological status of offspring in industrial Poland</i>
PO30	Joanna Różańska-Wróbel	<i>Investigating associations between immunity and infectivity genes: vole MHC vs. Borrelia ospC</i>
PO31	Rafał Sandecki	<i>Nestling growth rate of Crested Lark Galerida cristata breeding in roadside habitats</i>

PO32	Sarah Serafini	<i>How do seed limitation and negative density dependence shape the recruitment of native and invasive tree species?</i>
PO33	Asad Siddiquee	<i>Alternation of allergenic properties of pollen grains (Poaceae, Betula, Artemisia) during its emission, atmospheric transport, and deposition.</i>
PO34	Aleksandra Sierzputowska	<i>Formation of doublet craters on Mars</i>
PO35	Joanna Sokołowska	<i>Application of internal transcribed spacer 2 sequence (ITS2) for species discrimination of the Pinaceae family</i>
PO36	Klaudia Staszak	<i>Old and species-specific retrogenes in warm-blooded vertebrates' cancers</i>
PO37	Weronika Stróżewska	<i>Association of selected mutations of the GH receptor and IGF-1 receptor genes with the lack of catch-up growth in children born small for gestational age.</i>
PO38	Sebastian Szczepański	<i>Genetic relations between related pine species from Błędne Skały in the Sudeten Mountains.</i>
PO39	Sylwia Szewc	<i>Dystrophin/utrophin hybrid proteins in therapy of Duchenne muscular dystrophy – comparison of sequential, structural, and functional properties of dystrophin and utrophin</i>
PO40	Szymon Świątek	<i>Sediments prone to liquefaction – implications from field studies: review</i>
PO41	Katarzyna Tutak	<i>Characterization of new RAN translation modifiers in Fragile X-associated tremor/ataxia syndrome (FXTAS)</i>
PO42	Theophilus Nang Wakai	<i>Physiological and Epigenetic Mechanisms in Soybean Plants Recovered from Metal Stress</i>
PO43	Wenesa Woźniak	<i>Morphological and histological analysis of bone tissue response to muscle activity in the model population of Scythian archers (5th - 2nd century BC)</i>
PO44	Marta Wysocka	<i>Ribosome profiling in bacteria – benchmark of tools used for data analysis.</i>
PO45	Joanna Zwolenkiewicz	<i>Investigating the role of the ProQ, FinO and Hfq proteins in the interactions between non-coding RNAs and their regulated mRNAs in Escherichia coli.</i>
PO46	Aleksandra Zwolska	<i>Changes in the land cover structure and size of the city and their impact on land surface temperature/surface urban heat island</i>
PO47	Szymon Śledź	<i>Evaluation of the influence of processing parameters in Structure-from-Motion software on the quality of digital elevation models and orthomosaics in the context of studies on earth surface dynamics.</i>

20 September

9:00 – 10:00

KEYNOTE 2 – in person Mała Aula

chair: prof. Andrzej Pacak

On-site & on-line [Click here to join the meeting](#)

prof. Karen S. McBride

Mars the Last Frontiers

prof. Łukasz Kaczmarek

Water bears, the toughest animals on Earth. How to survive in extreme environments?

10:00 – 11:00 TEA & COFFEE BREAK

PLENARY SESSION 3 – in person Mała Aula

chair: prof. Michał Rurek

- 11:00 – 11:10 Martyna Górską *Multi-stage evolution of frost-induced microtextures on the surface of quartz grains – experimental study*
- 11:10 – 11:20 Nikola Musiała *Modulation of the endogenous MBNL1 expression via RNAa mechanism as an alternative therapeutic approach towards myotonic dystrophy type 1 (DM1)*
- 11:20 – 11:30 Gilbert Zasoński *Modulation of MBNL1 expression in myotonic dystrophy type 1*
- 11:30 – 11:40 Mariusz Bąk *Development and functioning of Sphagnum peatlands in Pinus sylvestris monoculture in central-eastern Europe*
- 11:40 – 11:50 Joanna Kozłowska-Masłoń *miR-27b-5p: a short non-coding RNA with diagnostic potential in head and neck squamous cell carcinoma*
- 11:50 – 12:00 Aleksandra Czuchaj *Concept of the field research station for surface runoff and flash flood experiments in the Różany Strumień catchment.*
- 12:00 – 12:10 Klaudia Szala *Measuring eggshell pigmentation in the field: do weather and time of day matter?*
- 12:10 – 12:20 Klaudia Samorowska *Long noncoding RNAs in the process of RNA editing (A-to-I) in breast cancer cells*
- 12:20-12:30 Emilia Sokołowska *Interspecific competition of acoustic space in temperate forest birds*
- 12:30-12:40 Oliwia Sęk *Influence of the toxic endophytic fungi on the fitness of herbivorous rodents - pilot study*
- 12:40-13:00 Discussion

13:00 – 14:00 LUNCH

PLENARY SESSION 4 – in person Mała Aula

chair: dr Aleksandra Świda-Barteczka

- 14:00 – 14:10 Marcelina Kempa *Influence of bioink enrichment with hyaluronic acid and multiwalled carbon nanotubes on mesenchymal stem cells proliferation in 3D bioprinted cellular scaffolds*
- 14:10 – 14:20 Agata Henschke *Inducing Cellular Senescence by Doxorubicin Treatment: Future Perspectives In Biomedical Treatment*

14:20 – 14:30	Aneta Łyś	<i>Identification and analysis of 5'-end-extended transcripts of protein-coding genes in human</i>
14:30 – 14:40	Sophia Baldysz	<i>I think, therefore I lyse - exploration of endolysin sequence space assisted by machine learning</i>
14:40 – 14:50	Remigiusz Gębka	<i>Cleavage determinants identification in small non-coding RNAs derived from functional RNAs</i>
14:50 – 15:00	Magdalena Strugała	<i>Factors controlling the occurrence of periphyton community on the algal surface of <i>Cladophora glomerata</i></i>
15:00 – 15:10	Nishita Mandal	<i>Exploring the efficacy of Gaussian accelerated molecular dynamics simulations on rare tunnel dynamics</i>
15:10 – 15:20	Tomasz Bartylak	<i>Examining the resistance of active tardigrades to cyanide poisoning</i>
15:20 – 15:30	Krzysztof Stawrakakis	<i>Efficacy of symbiotic modification of barley <i>Hordeum vulgare</i> and its impact on seedlings' growth</i>
15:30 – 15:40	Magdalena Winkiel	<i>Effects of solanine, chaconine, and tomatine on enzymes of critical metabolic pathways in <i>Tenebrio molitor</i> beetle</i>
15:40 – 16:00	Discussion	



21 September

9:00 – 10:00

KEYNOTE 3 – online

chair: dr Elżbieta Wanowska

dr Evelien Adriaenssens

Bacteriophages in the gut microbiome: opportunity or threat?

LINK [Click here to join the meeting](#)

10:00 – 11:00 TEA & COFFEE BREAK

PLENARY SESSION 5 – in person Mała Aula

chair: dr Elżbieta Wanowska

- 11:00 – 11:10 Mateusz Draga *Can mechanical control methods of invasive aquatic plants have long-lasting effects?*
- 11:10 – 11:20 Elżbieta Rudy *Analysis of epigenetic response during senescence in barley leaves*
- 11:20 – 11:30 Mathieu Mahamoud Issa *All for one and one for all! The Communal displays and between-group interactions in the Yellow-breasted Barbet (*Trachyphonus margaritatus*)*
- 11:30 – 11:40 Sindhuja Sirigeri *Adoption of infants in wild bonnet macaques (*Macaca radiata*)*
- 11:40 – 11:50 Mateusz Zmudziński *“Spike up your hair and...” or the enigmatic mites *Parachyzeria* spp. (*Chyzeridae*) and their unfamiliar behavior unveiled by 100-million-year-old fossils*
- 11:50 – 12:00 Julia Gostyńska *The mechanism of competition between coexisting water taxa on the example of *L. minor* L. and *C. glomerata* (L.) Kutz.*
- 12:00 – 12:10 Anna Bobińska *The importance of the awareness of the society in geographic climate education - theoretical and applied approach.*
- 12:10 – 12:20 Lia Zampa *Potential effect of spatial patterns on acoustic identity in territorial bird species*
- 12:20 – 12:30 Michał Zacharysiewicz *Dead wood's role in shaping mite communities from the suborder Uropodina (*Acari: Mesostigmata*)*
- 12:30 – 12:45 Discussion

13:00 – 14:30 LUNCH

14:00

WORKSHOP – online

dr Evelien Adriaenssens

What it is like to start a career in academia and move internationally

support S. Bałdysz

LINK [Click here to join the meeting](#)

14:00

WORKSHOP – in person

prof. Kelly Cristina Tonello

Rainfall Partitioning in Tropical Forest: How to Work with Indicators

15:30

KEYNOTE 4 – online

chair: prof. Piotr Ziółkowski

prof. Paul Babitzke

Roles of factor-mediated RNA polymerase pausing and intrinsic termination in controlling bacterial gene expression

dr Charles Underwood

To infinity and beyond: cloning plants through seedes by apomixis

LINK [Click here to join the meeting](#)