



Xth Scientific Session of the Institute of Environmental Biology Faculty of Biology AMU

20 May 2022, 10:00 – 20:15

1. Oral presentations by research units (10:00-13:30 and 14:30-15:30)

Dept./Lab	Title	Presenting author
Animal Morphology	Paleoacarology or the cases of mite dramas from before million years ago discovered recently at DAM	Mateusz Zmudziński
Animal Taxonomy and Ecology	Tardigrada: from taxonomy to astrobiology	Łukasz Kaczmarek
Avian Biology & Ecology	Role of rural settlements in the conservation of farmland birds,	Zuzanna Rosin
Behavioural Ecology	Can female guppies learn to like male colours? A test of the role of associative learning in originating sexual preferences	Magdalena Herdegen-Radwan
Evolutionary Biology	Genomic evidence that a sexually selected trait captures genome-wide variation and facilitates the purging of genetic load	Jonathan Parrett
Molecular Techniques	Microsporidian diversity and their ecological relationships in selected hematophagous arthropods	Artur Trzebny
Hydrobiology	About bubbles in the water and what boosts cyanobacterial growth	Sławek Cerbin
Plant Ecology & Environmental Protection	Exploring the speciation continuum – the evolutionary history of peat bog pine (<i>Pinus uliginosa</i> N.)	Bartosz Łabiszak
Systematic Botany	Atmospheric super highway: long distance transport of bioaerosols from the Pannonian Plain to Poland	Łukasz Grewling
	Predicting the onset of <i>Betula pendula</i> flowering in Poznań (Poland) using remote sensing thermal data	Paweł Bogawski
Systematic Zoology	The role of micro and macro-evolutionary processes in determining insect communities on forest trees.	Freerk Molleman
Water Protection	"The dark side of the chemical restoration of lakes"	Michał Rybak
Population Ecology	Evolution of niche breadth	Anna Skoracka

2. Poster session (15:45-17:15)

Jakub Buda (Dept. of Animal Taxonomy and Ecology): „**Effects of bioaccumulation of artificial radionuclides in cryoconite and invertebrates on the supraglacial ecosystems**”

Katarzyna Burda (Evolutionary Biology Group): “**Pedigree-based mutation rate estimation in guppy (*Poecilia reticulata*)**”

Paulina Celebias "Impact of intraspecific variation in yellow-neck mouse (*Apodemus flavicollis*) on common oak (*Quercus robur*) dispersal"

Agnieszka Drewek (Dept. of Water Protection): "Reakcja małży *Anodonta cygnea* i *Unio tumidus* na koagulant żelazowy stosowany w rekultywacji jezior"

Pushpalata Kayastha (Dept. of Animal Taxonomy and Ecology): „Changes in HSPs of *Paramacrobiotus experimentalis* Kaczmarek, Mioduchowska, Poprawa & Roszkowska, 2020 when exposed to high temperature-induced stress”.

Mathieu Mahamoud-Issa (Dept. of Behavioural Ecology): "The Yellow-breasted Barbet (*Trachyphonus margaritas*) introduces vocal duets and choruses with a specific multimodal signal”

Katarzyna Malinowska (Population Ecology Lab) "A process-driven approach to identify causes of population changes"

Hanna Michalska (Dept. of Behavioural Ecology): "Do you actually hear it? The case of audiovisual illusion of temporal match".

Joe Money (Hydrobiology): ‘How has 60 years of exposure to Artificially Heated Lakes affected Parasite Resistance in *Daphnia*? Exploring the effects of temperature on a host-parasite system’

Małgorzata Niśkiewicz (Dept. of Behavioural Ecology): "Interspecific territoriality and species vocal recognition in African Turtur doves"

Ngoc Pham (Dept. of Systematic Botany)"The anti-health nature of urban green spaces: ornamental species as a source of pollen allergens and the cause of increased sensitization of city inhabitants"

Joanna Różańska-Wróbel (Evolutionary Biology Group): “Investigating associations between immunity and infectivity genes: vole MHC vs. *Borrelia* OspC”

Asad Siddiquee (Dept. of Systematic Botany) "Alternation of allergenic properties of pollen grains (*Poaceae*, *Betula*, *Artemisia*) during its emission, atmospheric transport, and deposition."

Krzysztof Stawrakakis (Dept. of Systematic Botany): “Efficacy of symbiotic modification of barley *Hordeum vulgare* and its impact on seedlings’ growth”

Klaudia Szala (Dept. of Avian Biology and Ecology): “How often do red-backed shrikes feed their kids?”

Mateusz Zmudziński (Dept. of Animal Morphology): “Tiny dancer in my hand”... 100-million-year-old case of mite flamboyance”