

PROGRAM

8th Polish Evolutionary Conference

19-21 September 2022

19 September (Monday)

12:00 - 15:00 Registration

15:00 - 15:15 Opening of the conference

Plenary lecture I Chair: *Rafał Zwolak*

15:15 - 16:15 **Elizabeth Crone:** How do host plants limit butterflies in highly fragmented landscapes?

Session 1 Chair: *Krzysztof Kowalski*

16:15 - 16:35 **Martyna Wirowska:** Successful finding of ephemeral food resources is associated with proactive personality in wild tree-dwelling rodent – edible dormouse

16:35 - 16:55 **Rafał Zwolak:** Ectoparasites do not affect seed dispersal behavior of their rodent hosts

16:55 - 17:15 **Aleksandra Wróbel:** The role of granivorous rodents in montane tree recruitment: climate change scenario

17:15 - 17:35 **Gema Trigos Peral:** Effect of urbanization on life history traits of the common garden ant *Lasius niger*

17:35 - 17:55 **Krzysztof Deoniziak:** Plastic not so fantastic: microplastic ingestion by Common Blackbirds and Song Thrushes

17:55 - 18:15 **Sabina Nowak:** Mortality of wolves *Canis lupus* in human-dominated landscapes of Poland

20 September (Tuesday)

8:00 - 8:30 Registration

Plenary lecture II Chair: *Michał Ronikier*

8:30 - 9:30 **Christian Brochmann:** Recent and rapid speciation at the extremes: from the Arctic to tropical alpine Africa

Session 2 Chair: *Krzyszyna Nadachowska-Brzyska*

9:30 - 9:50 **Wiesław Babik:** Coevolution between MHC Class I and Antigen-Processing Genes in salamanders

9:50 – 10:10 **Tomasz Gaczorek:** Adaptive introgression of MHC genes in Podarcis lizards and Triturus newts

10:10 – 10:30 **Jacek Radwan:** Long term patterns of association between MHC and helminth burdens in the bank vole support Red Queen dynamics

10:30 – 11:00 Coffee break

Session 3 Chair: *Aneta Książek*

11:00 – 11:20 **Maciej Ejsmond:** Adaptive immune response selects for increased body size

11:20 – 11:40 **Antoni Żygadło:** Between big and small – how conditions of Temperature-Size Rule performance dictate optimal body size, the case of *Lecane inermis* (Rotifera, Monogononta)

11:40 – 12:00 **Sebastain Chmielewski:** Genomic evidence that a sexually selected trait captures genome-wide variation and facilitates the purging of genetic load

12:00 – 12:20 **Junchen Deng:** Genome comparison reveals inversions and alternative evolutionary history of nutritional endosymbionts in planthoppers (Hemiptera: Fulgoromorpha)

12:20 – 12:40 **Piotr Zieliński:** Inferring species demographic history using inversion rich genomes: the case of the spruce bark beetle

12:40 – 13:00 **Markéta Harazim:** Natural selection in Cetacean immunogenome, and its relation to morbillivirus infection susceptibility

13:00 – 14:00 Lunch break

Plenary lecture III Chair: *Werner Ulrich*

14:00 – 15:00 **Spyros Sfenthourakis:** Darwin in the eastern Mediterranean islands: a science fiction story

Session 4 Chair: *Magdalena Witek*

15:00 – 15:20 **Dominika Wloch-Salamon:** Transition to quiescence as an eco-evolutionary process creating diversity within yeast population

15:20 – 15:40 **Monika Opalek:** How can phenotypic heterogeneity be advantageous in starvation? Studying quiescence in *Saccharomyces cerevisiae* yeast populations

15:40 – 16:00 **Bogna Smug:** Lag phase length as a determinant of microbial fitness. The overview of approaches and a new online tool.

16:00 – 18:30

Poster session

21 September (Wednesday)

8:00 – 8:30 Registration

Plenary lecture IV Chair: *Wiesław Babik*

8:30 – 9:30 **Nicholas Barton:** Genetic analysis of a flower colour hybrid zone in snapdragons

Session 5 Chair: *Andrzej Grzywacz*

9:30 – 9:50 **Katarzyna Malinowska:** Making virtual species less virtual by reverse engineering spatiotemporal ecological models

9:50 – 10:10 **Werner Ulrich:** Identifying the drivers of trait change: Does Price partitioning work?

10:10 – 10:30 **Bogdan Jaroszewicz:** National parks enhance wealth of the surrounding municipalities

10:30 – 11:00 Coffee break

Session 6 Chair: *Edyta Sadowska*

11:00 – 11:20 **Sylwia Buczyńska:** Daily energy expenditures in reproducing laboratory mice selected for high and low basal metabolism rate (BMR)

11:20 – 11:40 **Piotr Minias:** Trade-offs in the evolution of the avian immune system

11:40 – 12:00 **Alaa Hseiky:** Testing the thrifty and spendthrift genotype hypotheses: A pilot study on the adverse effects of Western Diet in bank voles

12:00 – 12:20 **Ireneusz Ruczyński:** From energy constraints to sociality in male bats

12:20 – 12:40 **Viktor Kovalov:** Songbirds adjust oxygen carrying capacity through modulation of the number rather than the size of erythrocytes

12:40 – 13:00 **Marta Grosiak:** Can heat dissipation limit (HDL) theory explain reproductive ageing?

13:00 – 14:00 Lunch break

Session 7 Chair: *Robert Mysłajek*

14:00 – 14:20 **Małgorzata Lipowska:** Testing the hologenome concept: a nature vs nurture experiment on bank voles from a selection experiment

14:20 – 14:40 **Agata Plesnar-Bielak:** Physiological and molecular mechanisms of variation in male reproductive success - a case of 6Pgdh gene

14:40 – 15:00 **Małgorzata Pilot:** Implications of hybridization between wolves and dogs for the evolution of behavioural traits

15:00 – 15:20	Daniel Sánchez García: Short-time evolution in the morphology of the myrmecophilous <i>Maculinea teleius</i> butterfly
15:20 – 15:40	Maciej Szewczyk: Analysis of genetic structure and diversity of grey wolf (<i>Canis lupus</i>) paternal lineages in central and eastern Europe – preliminary results
15:40 – 16:00	Joanna Palka: Repeatability crisis in evolutionary biology – lessons from experimental evolution programme on <i>C. elegans</i>

16:00 – 16:15 Closing of the conference