

Detailed schedule

9th Polish Evolutionary Conference, 18-20.09.2023 Kraków

18th September 2023 (Monday)		
12:00-14:00	<i>Registration</i>	
14:00-14:30	<i>Opening ceremony with awarding the Ludwik Tomiałojć Medal</i>	
session:	Making evolution happen	
<i>organizers:</i>	<i>Ryszard Korona & Paweł Koteja</i>	
Plenary lecture 1	<i>chair: Ryszard Korona</i>	
14:30-15:30	Richard Lenski	Dynamics and Repeatability of Evolution in a Long-Term Experiment with Bacteria
15:30-16:00	Coffee break	
Contributed talks	<i>chair: Ryszard Korona & Paweł Koteja</i>	
16:00-16:15	Szymon Kaczanowski	Adaptations in yeast short-term evolutionary experiments are mainly a result of the appearance of loss-of-function mutations
16:15-16:30	Weronika Antoń	Experimental evolution of reproductive traits in <i>Caenorhabditis elegans</i>
16:30-16:45	Pranav Unnikrishnan	Testing for the mechanisms of balancing selection maintaining 6Pgdh polymorphism in bulb mites
16:45-17:00	Neha Pandey	Density-dependent selection at low food levels leads to the evolution of population stability even without a clear r-K trade-off
17:00-17:15	Paweł Brzęk	The correlation between intraspecific variation in basal metabolic rate (BMR) and in body temperature: are mice selected for high BMR hotter?
17:15-17:30	Paweł Koteja	The molecular background of experimental evolution of physiology and behavior in the bank vole: changes in SNP allele frequencies
17:30-19:00	Welcome Reception	

19th September 2023 (Tuesday)		
08:00-9:00	<i>Registration</i>	
session:	Effects of thermal and oxygen conditions on ectotherms in a changing world	
<i>organizer:</i>	<i>Marcin Czarnołęski</i>	
Plenary lecture 2	<i>chair: Marcin Czarnołęski</i>	
9:00-10:00	Wilco Verberk	The role of cell size in shaping responses to oxygen and temperature in ectotherms
10:00-10:30	Coffee break	
Contributed talks	<i>chair: Adam Hermaniuk</i>	
10:30-10:45	Ewa Chrostek	Wolbachia-Conferred Antiviral Protection Is Determined by Insect's Developmental Temperature
10:45-11:00	Ewa Babkiewicz	Uncovering the secrets of interactions between temperature, hypoxia, and competing <i>Daphnia</i> species
11:00-11:15	Piotr Dawidowicz	Effects of food quality and water temperature on the fitness of species of <i>Daphnia</i> that differ in body size
11:15-11:30	Aleksandra Walczyńska	Ten years of studies on the effect of temperature and oxygen on phenotypic plasticity of body size in rotifers
11:30-11:45	Piotr Maszczyk	Mechanisms of increasing predation by planktivorous fish with rising temperature may explain the temperature-body size relationships in zooplankton
11:45-12:00	Marcin Czarnołęski	Cellularity of life history strategies in the face of oxygen and thermal gradients - a synthesis of concepts
12:00-12:15	BGI - sponsor talk	
12:15-13:15	Lunch break	

session:	Poster Session	
13:15-13:55	<i>one-minute presentation of posters; chair: Ulf Bauchinger</i>	
13:55-14:55	poster session 1	
14:55-15:55	poster session 2	
15:55-16:00	Short break	
session:	Global Environmental Issues in Comparative Studies	
<i>organizer:</i>	<i>Joanna Rutkowska</i>	
Plenary lecture 3	<i>chair: Joanna Rutkowska</i>	
16:00-17:00	Carlos Botero	Climate change, fluctuating selection and eco-evolutionary dynamics
Contributed talks	<i>chair: Aneta Arct</i>	
17:00-17:15	Piotr Minias	Reproductive strategies in a changing environment – what drives the evolution of ground nesting in passerine birds
17:15-17:30	Szymon Drobnia	Coral diseases in a warming world - meta-analysis and systematic map
17:30-17:45	Tomasz Gaczorek	The adaptive introgression of MHC genes in multiple vertebrate taxa
17:45-18:00	Magdalena Niedziałkowska	Response of the European ungulate species to global environmental changes
18:00-18:15	Jan Kozłowski	Can life history theory save overexploited fish populations?
18:15-18:30	Piotr Łukasik	Surveying microbial symbionts' roles in insect adaptation and response to the challenges of the Anthropocene
19:00-21:00	Dinner in CEP UJ	

20th September 2023 (Wednesday)		
08:00-9:00	Registration	
session:	Ecology and evolution of microbes and microbial communities	
<i>organizer:</i>	<i>Dominika Włoch-Salamon</i>	
Plenary lecture 4	<i>chair: Dominika Włoch-Salamon</i>	
9:00-10:00	Julia Pawłowska	No fungus is an island: how endohyphal bacteria may affect the fitness of their fungal hosts?
10:00-10:30	Coffee break	
Contributed talks	<i>chair: Hanna Tutaj</i>	
10:30-10:45	Rafał Mostowy	Exploring the Coevolution of Bacteria and Phages: Insights from Studying Receptor-Binding Proteins and Polysaccharides
10:45-11:00	Bogna Smug	How phages play with LEGO: studying protein-level mosaicism in phages and its evolutionary implications
11:00-11:15	Przemysław Gagat	Exploring the Relationship between Targeting Peptides and Antimicrobial Peptides: Insights into Evolution and Functional Implications
11:15-11:30	Dawid Gmiter	Phylogeny and pan-genome of <i>Proteus mirabilis</i> : with the focus on type VI secretion system effectors diversity
11:30-11:45	Junchen Deng	The breakdown of an ancient obligatory endosymbiont in a clade of planthoppers
11:45-12:00	Filip Pietluch	New Insights into the Evolution of Complex Plastids: Unveiling the Origins and Diversification Times of Red Alga-Derived Lineages
12:00-13:00	Lunch break	
session:	Open: Evolution and Ecology	
<i>organizers:</i>	<i>Agata Plesnar-Bielak & Aleksandra Walczyńska</i>	
Contributed talks	<i>chairs: Agata Plesnar-Bielak & Aleksandra Walczyńska</i>	
13:00-13:15	Magdalena Herdegen-Radwan	Can female guppies learn to like male colours?

13:15-13:30	<i>ChuChu Lu</i>	The Impact of Temperature Variability on Physiological Responses and Learning in Zebra Finches
13:30-13:45	<i>Tomasz Osiejuk</i>	Response of African forest Turtur doves to conspecific and congeneric songs in sympatry and allopatry
13:45-14:00	<i>Hedvig Csapo</i>	Arctic Atlantification: For how long has it been going on? A population genomic case study of the northern acorn barnacle on Svalbard
14:00-14:15	<i>Brandon Meter</i>	Development of sexual size dimorphism in lizards: The probable role of IGF1
14:15-14:30	<i>Jakub Białkowski</i>	First insight into the evolution of the flight-control system in bark beetles
14:30-14:45	<i>Paulina Celebias</i>	How the intraspecific variation in granivores impacts seed dispersal?
14:45-15:15		<i>Coffee break</i>
15:15-15:30	<i>Michael Angilletta</i>	Using virtual reality to teach undergraduate students to conduct research in ecology and evolution
15:30-15:45	<i>Karol Wałach</i>	Where do thee come from? – Time-calibrated phylogeography of the Nearctic Milnesium (Tardigrada)
15:45-16:00	<i>Roya Adavoudi</i>	Detection of grey wolf and golden jackal hybridization with free ranging domestic dogs across Eurasia using SNP markers
16:00-16:15	<i>Witold Wachowiak</i>	Genomic insights into population history of Scots pine (<i>P. sylvestris</i> L.)
16:15-16:30	<i>Viktor Kovalov</i>	Immunity investment does not drop down if you tolerate infection and reproduce after infection
16:30-17:00		<i>Awarding with closing ceremony</i>

Poster Session - Tuesday 19.09.2023, 13:15-16:00

poster session 1 - even numbers

poster session 2 - odd numbers

<i>nr</i>	<i>presenter</i>	<i>title</i>	<i>session</i>
P01	Hanna Tutaj	The outstanding effect of positive epistasis on fitness in monosomic yeast strains	Open: Evolution and Ecology
P02	Adrian Piróg	Complex genome rearrangements in the model eukaryotic organism <i>Saccharomyces cerevisiae</i>	Making evolution happen
P03	Monika Opalek	How is quiescence studied in <i>S. cerevisiae</i> ? A systematic review	Ecology and evolution of microbes and microbial communities
P04	Konrad Miazga	Evolution of simulated 3D organisms	Making evolution happen
P05	Szymon Ptak	The use of computer simulations in the study of evolution	Making evolution happen
P06	Krzysztof Argasinski	r and K selection concept versus recruitment lotteries. Do we have laws of evolution or rather mechanisms?	Open: Evolution and Ecology
P07	Karolina Iwińska	Oxidative stress correlates with immunocompetence in breeding females of wild long-living mammal - edible dormouse <i>Glis glis</i>	Making evolution happen
P08	Andrzej K Gebczynski	Turning up the heat: the effect of shifts in the thermoneutral zone of mice on the outcomes of translational research	Making evolution happen
P09	Paweł Koteja	Testing the thrifty and spendthrift genotype hypotheses: The experimental evolution and the “nature – nurture” experiment on bank voles	Making evolution happen
P10	Alaa Hseiky	The effect of Western Diet on the liver metabolome: a pilot experiment based on an artificial selection experiment on bank voles	Making evolution happen
P11	Alaa Hseiky	Are food dyes good or bad? Studying the effects of turmeric on fruit flies’ development.	Open: Evolution and Ecology
P12	Rouba Kiprianos	Food or thrill of the hunt: food preferences in bank voles selected for predatory behavior	Making evolution happen
P13	Małgorzata M. Lipowska	Testing the hologenome concept: a cohabitation experiment on bank voles from a selection experiment	Making evolution happen
P14	Gokul Bhaskaran	Correlated responses to artificial selection for predatory propensity in the bank vole: hunting skills and coping with stress	Making evolution happen
P15	Anna Sanetra	Restricted nighttime feeding prevents the high-fat diet-evoked disruption of the hypothalamic circadian clock	Open: Evolution and Ecology
P16	Joanna Palka	The effects of calorie restriction on microbiota of bank voles with high evolved metabolic capacity	Ecology and evolution of microbes and microbial communities

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P17	Agata Burzawa	How do optimal and suboptimal temperatures affect mitochondrial bioenergetics of rotifers <i>Lecane inermis</i> ?	Effects of thermal and oxygen conditions on ectotherms in a changing world
P18	Katarzyna Kilian	When temperature makes them panic – the effect of optimal and stressful thermal conditions on variability of life history traits in <i>Lecane inermis</i> rotifer.	Effects of thermal and oxygen conditions on ectotherms in a changing world
P19	Gulsamal Askarova	How does evolution in a stable or fluctuating environment shape the niche breadth of a plant-feeding arthropod?	Making evolution happen
P20	Anna Spaeth	Temperature effect on the association between sperm production and 6Pgdh genotype in bulb mite males.	Effects of thermal and oxygen conditions on ectotherms in a changing world
P21	Tomasz Brzeziński	Food thresholds in <i>Daphnia</i> – the effects of food quality, temperature and body size.	Effects of thermal and oxygen conditions on ectotherms in a changing world
P22	Zhanna Buseva	Temperature and food quality as drivers of competition among differently sized <i>Daphnia</i> species	Global Environmental Issues in Comparative Studies
P23	Anna Bednarska	Threshold Food Concentration (TFC) as a predictor of the outcome of intraspecific competition in <i>Daphnia magna</i> , exposed to different quality diets.	Open: Evolution and Ecology
P24	Irina Feniova	Effects of food phosphorus contents on competitive interactions between large and small-bodied <i>Daphnia</i> species	Global Environmental Issues in Comparative Studies
P25	Zuzana Starostová	Metabolic scaling is unaffected by habitat aridity in geckos	Effects of thermal and oxygen conditions on ectotherms in a changing world
P26	Ewa Szlachcic	Systemic orchestration of cell size throughout the body: evolutionary and developmental responses of <i>Drosophila melanogaster</i> to environments	Effects of thermal and oxygen conditions on ectotherms in a changing world
P27	Agnieszka Gudowska	Living with heat: Unveiling the impact of simulated heat waves of the life story on two pollinators: <i>Osmia bicornis</i> and <i>O. cornuta</i>	Open: Evolution and Ecology
P28	Guillaume Wos	Phenotypic and gene expression differences in coping with temperature and an invasive alien predator along a latitudinal gradient in damselflies	Effects of thermal and oxygen conditions on ectotherms in a changing world
P29	Julita Sadowska	Microbial Nitrogen Recycling is Higher in Arctic Ground Squirrels Hibernating at Warmer Temperatures	Open: Evolution and Ecology
P30	Jan Boratyński	Behavioural and physiological response to strong habitat disturbance in a key wetland rodent species	Open: Evolution and Ecology

<i>nr</i>	<i>presenter</i>	<i>title</i>	<i>session</i>
P31	Jan Boratyński	Heterothermy but not maintenance costs of homeothermy correlate with natural food availability in yellow-necked mice <i>Apodemus flavicollis</i>	Open: Evolution and Ecology
P32	Adam Hermaniuk	Can cell size explain different metabolic response to temperature and oxygen within the <i>Pelophylax esculentus</i> species complex?	Effects of thermal and oxygen conditions on ectotherms in a changing world
P33	Natalia Boron	Variable temperature conditions and humoral immune response in zebra finches	Open: Evolution and Ecology
P34	Joanna Rutkowska	Ecophysiology of cognition: The effects of ambient temperature variability on learning performance in zebra finches	Open: Evolution and Ecology
P35	Karolina Skorb	Short-term consequences of ambient temperature for development in passerine birds	Open: Evolution and Ecology
P36	Aneta Arct	A long-term study reveals a crucial role of weather conditions for avian offspring fitness	Effects of thermal and oxygen conditions on ectotherms in a changing world
P37	Rafał Martyka	The effect of environmental variation on age-specific reproductive patterns in a short-lived songbird	Open: Evolution and Ecology
P38	Michał Gładalski	Aromatic plants, great tits & body condition: preliminary results	Open: Evolution and Ecology
P39	Monica Sayuri Diaz Palma	The effects of light pollution on a breeding migratory bird	Open: Evolution and Ecology
P40	Katarzyna Janas	A riddle of multiple ornaments – the great tit case	Open: Evolution and Ecology
P41	Tomasz Mazgajski	Great Tit females build similar nests in consecutive breeding seasons	Open: Evolution and Ecology
P42	Amelia Chyb	Haemoparasites in larid birds - ecological niche more important than migratory distance	Open: Evolution and Ecology
P43	Amelia Chyb	Big city life – genetic background of urbanization processes in a common waterbird	Open: Evolution and Ecology
P44	Maciej Kamiński	Constitutive innate immune function is associated with habitat urbanization, but not with population density in a highly-adapted urban bird	Open: Evolution and Ecology
P45	Kyle Coughlan	Oxidative stress biology in nest box breeding birds	Open: Evolution and Ecology
P46	Maelle Lefevre	My song will tell you if I already have a partner: how breeding status affects song parameters in Zebra finches	Open: Evolution and Ecology
P47	Lia Zampa	Stand out from the crowd: breeding density affect vocal individuality in Ortolan bunting (<i>Emberiza hortulana</i>)	Open: Evolution and Ecology
P48	Paweł Podkova	The Role of Ornamentation in Bird Speciation: A Study on Coloration in Divergent Populations of Painted Buntings	Open: Evolution and Ecology
P49	Martyna Cendrowska	Prevalence of parental coordination in birds - a systematic meta-analysis	Open: Evolution and Ecology

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P50	Adam Zbyryt	Sparrows are bolder with big friend behind their back	Open: Evolution and Ecology
P51	Barbara Pietrzak	Emergence of personalities in moor frog under perceived predation risk	Open: Evolution and Ecology
P52	Monika Sysiak	The time of stress for predator can be an anti-predator window for prey	Open: Evolution and Ecology
P53	Nermeen Amer	Hatching phenology shapes the interaction between predation risk and warming in the damselfly <i>Ischnura elegans</i>	Open: Evolution and Ecology
P54	Maria J. Golab	Looks or personality - what drives damselfly mating success in the wild?	Open: Evolution and Ecology
P55	Szymon Śniegula	Urbanization outcomes on fitness traits in the damselfly	Open: Evolution and Ecology
P56	Bernardo Antunes	Habitat connectivity inferred from landscape genetic models at multiple spatial and temporal scales in two newt species (<i>Lissotriton montandoni</i> and <i>L. vulgaris</i>)	Open: Evolution and Ecology
P57	Krzysztof M. Kozak	California Conservation Genomics Project: next-generation landscape genetics helps protect Pocket Mice and other endangered life.	Open: Evolution and Ecology
P58	Karol Hubert Nowak	The difficult marriage of flies and their endosymbionts	Ecology and evolution of microbes and microbial communities
P59	Bartłomiej Starzyński	There's always room for one more. Microbial communities in nectar of selected plant species.	Ecology and evolution of microbes and microbial communities
P60	Jakub Białkowski	First insight into the evolution of the flight-control system in bark beetles	Open: Evolution and Ecology
P61	Kinga Larisch	In search of hidden biodiversity	Open: Evolution and Ecology
P62	Katarzyna Krawczyk	The impact of wheat streak mosaic virus (WSMV) on the population growth rate wheat curl mite (WCM)	Global Environmental Issues in Comparative Studies
P63	Neelam Porwal	Sexually-selected male weapon and the risk of population extinction under increasing temperature	Open: Evolution and Ecology
P64	Sebastian Chmielewski	The genetic architecture of sexually-selected weapon in the bulb mite	Open: Evolution and Ecology
P65	Rocco Notarnicola	Genetic co-structure in the bank voles-Borrelia host-pathogen system	Open: Evolution and Ecology
P66	Justyna Pogwizd	The importance of integrative taxonomy: uncovering multiple species in an allegedly monotypic genus	Open: Evolution and Ecology
P67	Tomasz Czerwiński	Phylogeny of the genus <i>Rhyzobius</i> Coleoptera: Coccinellidae: Coccidulini) – preliminary study	Open: Evolution and Ecology
P68	Magdalena Migalska	Evolutionary trade-offs constraining the MHC gene expansion: beyond simple TCR depletion model	Open: Evolution and Ecology
P69	Monika Gronowska	Variability of evolutionarily important genes (MHC) in non-Passeriformes	Open: Evolution and Ecology

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P70	Emilia Grzędzicka	Sosnowsky's hogweed <i>Heracleum sosnowskyi</i> invasion favours European honeybees <i>Apis mellifera</i> over other pollinators depending on its severity and traits	Open: Evolution and Ecology
P71	Lizaveta Vintsek	Phylogeny and evolutionary history of the genus <i>Sergia</i> (Campanulaceae) and its response to the climate changes predicted for the Mountains of Central Asia (a world biodiversity hotspot)	Open: Evolution and Ecology
P72	Sebastian Szczepański	Genetic diversity of hybrid zones of Scots pine and its close relatives	Open: Evolution and Ecology
P73	Bartosz Łabiszak	Unravelling the evolutionary relationships and speciation patterns of European Pine taxa	Open: Evolution and Ecology
P74	Maryna Yarotska	Climate change impact on forest phytocoenoses of ukraine	Open: Evolution and Ecology
P75	Artur Górecki	How well can plant succession describe short climatic oscillations in the Quaternary?	Global Environmental Issues in Comparative Studies
P76	Huseyn Mammadov	Investigating the impact of entomopathogenic fungus <i>Beauveria bassiana</i> infection on reproduction and adult, mortality in reproductively naive tropical crickets (<i>Gryllodes sigillatus</i>)	Global Environmental Issues in Comparative Studies
P77	Michał Bzoma	Investigating sexual dimorphism of tropical house cricket (<i>Gryllodes sigillatus</i>) in response to infection by entomopathogenic fungus <i>Beauveria bassiana</i>	Open: Evolution and Ecology
P78	Jakub Goczał	Beetle elytra: evolution, modifications and biological functions	Open: Evolution and Ecology
P79	Tomasz Włodarczyk	Coming out from the shadows: chemical strategy of a facultative slave-making ant species <i>Formica sanguinea</i>	Open: Evolution and Ecology
P80	Filip Turza	The mechanism of rescue actions in <i>Manica rubida</i> ants	Open: Evolution and Ecology
P81	Rafał Garlacz	Unveiling species diversity of day active moths in the tropical Andes: the <i>Scordyliodes</i> genus (Lepidoptera, Geometridae: Larentiinae)	Open: Evolution and Ecology
P82	Kamila S. Zając	The Slimy Bastards – uncovering the hidden diversity within taxonomically challenging genus of terrestrial slugs (Gastropoda: Agriolimacidae: Deroceras)	Open: Evolution and Ecology
P83	Pritam Kumar Dey	Convergent evolution of rare dark, UV-absorbing cuticular pigmentation in a new Afro-Oriental heterotardigrade species complex	Open: Evolution and Ecology
P84	Aleksandra Sumlińska	Relevance and phylogenetic position of the genus <i>Milnesioides</i> Claxton, 1999 (Tardigrada)	Open: Evolution and Ecology
P85	Olga Kozioł	Tardigrade Augean Stables – a challenging phylogeny and taxonomy of the family Ramazzottiidae (Eutardigrada)	Open: Evolution and Ecology
P86	Andrzej Ostoja-Wilamowski	Phylogeography and morphological evolution of the genus <i>Barbaria</i> (Heterotardigrada)	Open: Evolution and Ecology

<i>nr</i>	<i>presenter</i>	<i>title</i>	<i>session</i>
P87	Alejandro López López	Patterns of evolution within Tardigrada (Ecdysozoa: Panarthropoda) unveiled by time-calibrated multilocus phylogeny	Open: Evolution and Ecology
P88	Milena Zduniak	Personality and parasites: links between open field activity, space use, and parasite loads in yellow-necked mice (<i>Apodemus flavicollis</i>)	Open: Evolution and Ecology
P89	Aleksandra Wróbel	Arolla pine (<i>Pinus cembra</i> L.) and granivorous rodents: do they play by the numbers?	Open: Evolution and Ecology
P90	Sandra Ahlen Mulio	Reconstructing species distribution and intra-species diversity of Swedish Auchenorrhyncha based on Malaise trap sampling	Open: Evolution and Ecology
P91	Mateusz Konczal	Genomic consequences of artificial translocation, admixture and population replacement in the Trinidadian guppies	Open: Evolution and Ecology
P92	Katarzyna Burda	Estimating genetic load in natural populations of guppies (<i>Poecilia reticulata</i>)	Open: Evolution and Ecology
P93	Natalia Pajók	Cryptic diversity in <i>Perforatella</i> and <i>Euomphalia</i> snails	Open: Evolution and Ecology
P94	Jakub Płachta	Acetamiprid – effects on life history and behavior of antlions	Open: Evolution and Ecology
P95	Karolina Doan	Origin and demographic history of the golden jackal (<i>Canis aureus</i>)	Open: Evolution and Ecology
P96	Grzegorz Jan Skórzewski	Developmental disorder and mortality caused by hybridisation and polyploidization in an asexual fish complex of <i>Cobitis</i> genera.	Open: Evolution and Ecology