



UKRAINIAN SCHOOL IN EVOLUTIONARY BIOLOGY

JANUARY 27-31, 2025

Sponsors:



Puerto Rico Science
Foundation
Oakland University
Genomics Lab



OAKLAND
UNIVERSITY

Organizers:

Day 1

JST	EST	GMT	CET	EET	Monday (27.01.2025)
16:00	02:00	07:00	08:00	09:00	Welcome coffee
17:00- 18:30	3:00- 4:30	8:00- 9:30	9:00- 10:30	10:00- 11:30	<p>Opening</p> <p>Location: Large conference hall, University President's Building, Narodna Square, 3, Uzhhorod.</p> <p>All lectures will be held in this room unless otherwise specified</p>
Chair of the session: Natalia Volkova					
18:30	04:30	09:30	10:30	11:30	<p>Laurent Loison, CNRS, Paris, France</p> <p><i>Plasticity-first evolution at the time of the rise of the Modern Synthesis. The Ukrainian contribution (1936-1948)</i></p>
19:30- 20:30	5:30- 6:30	10:30- 11:30	11:30- 12:30	12:30- 13:30	Lunch
20:30	06:30	11:30	12:30	13:30	<p>Oleksandr Maistrenko, Royal Netherlands Institute for Sea Research, Netherlands</p> <p><i>Introduction into mechanisms of evolution</i></p>
21:30	07:30	12:30	13:30	14:30	<p>Leonid Gorobets, National Science and Natural History Museum of the National Academy of Sciences of Ukraine</p> <p><i>How do you know this? Determining the species and age of bone remains (talk in Ukrainian, slides in English)</i></p>
22:30- 23:00	8:30- 9:00	13:30- 14:00	14:30- 15:00	15:30- 16:00	Coffee break
23:00	09:00	14:00	15:00	16:00	<p>Lujza Keresztes Ujvarosi, Babeş Bolyai University, Romania</p> <p><i>In pursuit of lost times: the evolutionary history of aquatic insects in the Carpathians related to the spatial and temporal patterns of Ice Age refugia from here</i></p>
00:00	10:00	15:00	16:00	17:00	<p>Andriy Marusyk, Moffitt Cancer Center, USA</p> <p><i>Evolutionary-informed approaches to forestall the development of resistance to targeted therapies in cancers</i></p>
01:00	11:00	16:00	17:00	18:00	<p>Fabia Ursula Battistuzzi, Oakland University, USA</p> <p><i>From so simple a beginning, endless forms are being evolved: how life originated on Earth</i></p>

Day 2

JST	EST	GMT	CET	EET	Tuesday (28.01)
Chair of the session: Oleksandr Maistrenko					
16:00	02:00	07:00	08:00	09:00	Fyodor Kondrashov , OSINT, Japan Fitness landscapes as a concept and a practical tool: from evolutionary theory to protein design
17:00	03:00	08:00	09:00	10:00	Svitlana Serga , CBGP, INRAE, Montpellier, France <i>The evolutionary dance: dynamics of host-symbiont interactions</i>
18:00-18:30	4:00-4:30	9:00-9:30	10:00-10:30	11:00-11:30	Coffee break
18:30	04:30	09:30	10:30	11:30	Robert Knell , University of Hull, United Kingdom <i>Evolution of animal weaponry</i> (Location for in-person participants: Department of Biology, Uzhhorod National University, Auditorium #137)
19:30-20:30	5:30-6:30	10:30-11:30	11:30-12:30	12:30-13:30	Lunch
20:30-22:30	6:30-8:30	11:30-13:30	12:30-14:30	13:30-15:30	Workshop Location: Department of Biology, Uzhhorod National University
22:30-23:00	8:30-9:00	13.30-14:00	14:30-15:00	15:30-16:00	Coffee break
23:00	09:00	14:00	15:00	16:00	Anna Karnkowska , Institute of Evolutionary Biology, University of Warsaw, Poland <i>Exploring eukaryotic evolution: lessons from protist-bacteria symbiosis</i>
00:00	10:00	15:00	16:00	17:00	Ophelie Ronce , ISEM, University of Montpellier, France <i>Can assisted gene flow rescue threatened long-lived species from extinction in a changing climate? Insights from demo-genetic models</i>
01:00	11:00	16:00	17:00	18:00	Ivan Parnikoza , National Antarctic Center of Ukraine; Institute of Molecular biology and Genetics NAS of Ukraine <i>The history of Antarctic terrestrial biota: what organisms can tell us about it? (Pre-recorded lecture. For the discussion and questions Ivan will call from Antarctica if time and connection allows).</i>



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Day 3

JST	EST	GMT	CET	EET	Wednesday (29.01)
Chair of the session: Dannie Durand					
16:00	02:00	07:00	08:00	09:00	Oleksandr Yuschuk , Ivan Franko National University of Lviv, Ukraine <i>Co-evolution of antibiotic production and antibiotic resistance in soil bacteria</i>
17:00	03:00	08:00	09:00	10:00	Nicolas Rode , CBGP, INRAE, Montpellier, France <i>How does phenotypic plasticity allow organisms to adapt to their changing environment?</i>
18:00-18:30	4:00-4:30	9:00-9:30	10:00-10:30	11:00-11:30	Coffee break
18:30	04:30	09:30	10:30	11:30	Anja Spang , Royal Netherlands Institute for Sea Research, Netherlands <i>Archaeal symbionts and the evolution of life</i>
19:30-22:30	5:30-8:30	10:30-13:30	11:30-14:30	12:30-15:30	Social event
22:30-23:30	8:30-9:30	13:30-14:30	14:30-15:30	15:30-16:30	Lunch
00:00	10:00	15:00	16:00	17:00	Kateryna Makova , Eberly College of Science, Pennsylvania State University, USA <i>Complete sequencing and comparative analysis of ape sex chromosomes</i>



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Day 4

JST	EST	GMT	CET	EET	Thursday (30.01)
Chair of the session: Svitlana Serga					
16:00	02:00	07:00	08:00	09:00	Maria Ghazali & Igor Dzeverin , Schmalhausen Institute of Zoology of the National Academy of Sciences of Ukraine <i>Integration and modularity: why and how to measure them for phenotypic traits in animals</i>
17:00	03:00	08:00	09:00	10:00	Lilia Popova , Schmalhausen Institute of Zoology of the National Academy of Sciences of Ukraine <i>Destiny of Mammoth fauna and the Red Queen phenomenon (talk in Ukrainian, slides in English)</i>
18:00-18:30	4:00-4:30	9:00-9:30	10:00-10:30	11:00-11:30	Coffee break
18:30	04:30	09:30	10:30	11:30	Oleksandr Zinenko , Karazin Kharkiv National University, Ukraine <i>Evolution of mitochondrial genomes in Vipera genus</i>
19:30-20:30	5:30-6:30	10:30-11:30	11:30-12:30	12:30-13:30	Lunch
20:30-22:30	6:30-8:30	11:30-13:30	12:30-14:30	13:30-15:30	Workshop Location: Department of Biology, Uzhhorod National University
22:30-23:00	8:30-9:00	13.30-14:00	14:30-15:00	15:30-16:00	Coffee break
23:00	09:00	14:00	15:00	16:00	Taras Oleksyk , Oakland University, USA <i>Filling genome gaps in the forgotten parts of Europe</i>
00:00	10:00	15:00	16:00	17:00	Alan Bergland , University of Virginia, USA <i>Seasonally varying selection drives the evolution of a super-gene in Drosophila</i>
01:00	11:00	16:00	17:00	18:00	Andrea Betancourt , University of Liverpool, United Kingdom <i>Transposable element invasions in flies and butterflies</i>



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Day 5

JST	EST	GMT	CET	EET	Friday (31.01)
Chair of the session: Vladyslav Mirutenko					
16:00	02:00	07:00	08:00	09:00	Serge Utevsky , Karazin Kharkiv National University, Ukraine <i>Taxonomy as a gateway to understanding evolution: Challenges and insights from Hirudinea</i>
17:00	03:00	08:00	09:00	10:00	Sebastian Schmidt , APC Microbiome and School of Medicine, University College Cork, Ireland <i>Strain diversity in the global microbiome across habitats and phylogeny</i>
18:00-18:30	4:00-4:30	9:00-9:30	10:00-10:30	11:00-11:30	Coffee break
18:30	04:30	09:30	10:30	11:30	Dmytro Shabanov , Karazin Kharkiv National University, Ukraine <i>The evolutionary origin and maintenance of sexual reproduction and the problem of selection levels</i>
19:30-20:30	5:30-6:30	10:30-11:30	11:30-12:30	12:30-13:30	Lunch
20:30	06:30	11:30	12:30	13:30	Dannie Durand , Carnegie Mellon University, USA <i>A horizontal transfer from Bacteria to Fungi enhances fungal pathogenicity</i>
21:30-22:30	7:30-8:30	12:30-13:30	13:30-14:30	14:30-15:30	Closing (summary by organisers)

Workshops. Tuesday, 28 January, 13:30-15:30

1. Basic workshop in molecular biology methods (Svitlana Serga; in person; only for in person participants).
2. Introduction into bioinformatics (Walter Wolfsberger; online; for online and in person audience).
3. Phylogenomics and ancestral state reconstruction (Dannie Durand; in person; for online and in person audience).
4. LifeHucks of Grant Writing (Serge Utevsky - online and Oleksandr Zinenko in person; for online and in person audience).
5. Writing and analysing an abstract (Andrea Betancourt online; for online and in person audience).

Workshops. Thursday, 30 January, 13:30-15:30

6. Basic workshop in molecular biology methods (Svitlana Serga; in person; only for in person participants).
7. Introduction into bioinformatics (Walter Wolfsberger, online; for online and in person audience)
8. Phylogenomics and ancestral state reconstruction (Dannie Durand; in person; for online and in person audience).
9. Career orientation (Andrea Betancourt - online and Natalia Volkova in person; for online and in person audience).

Abstract writing. Writing a Motivation Letter (Fyodor Kondrashov online; for online and in person audience).

