

Грантова підтримка / Grant support



Українське Фулбрайтівське коло

Ukrainian Fulbright Circle



Платформа «Тепле місто»
(Івано-Франківськ)

Teple Misto Platform (Ivano-Frankivsk)

Організатори / Organizers



Національний антарктичний
науковий центр України

National Antarctic
Scientific Center of Ukraine



Прикарпатський національний
університет імені Василя Стефаника

Vasyl Stefanyk
Precarpathian National University

Запрошені спікери / Invited speakers



Howard Jacobs

Faculty of Medicine
and Health Technology,
Tampere University, Finland
Department of Environment and
Genetics, La Trobe University,
Melbourne, Australia



Gerald Rimbach

Department of Food Sciences,
Institute of Human Nutrition and
Food Sciences, Kiel University, Kiel,
Germany



Nicolas Rode

CBGP, INRAE, CIRAD, IRD,
Institut Agro, University of
Montpellier, Montpellier, France



Marta Coronado-Zamora

Institute of Evolutionary Biology,
CSIC, UPF, Barcelona, Spain



Martin Kapun

Natural History Museum Vienna,
Austria



Bohdana Rovenko

Institute of Biotechnology,
University of Helsinki, Helsinki,
Finland



Josefa González

Institute of Evolutionary Biology,
CSIC, UPF, Barcelona, Spain



Martina Gálíková

Institute of Zoology,
Slovak Academy of Sciences,
Bratislava, Slovakia

CONFERENCE PROGRAM

Day 1

Tuesday, 27th of June, 2023

12:00 – 14:00 **Registration of conference participants. Welcome coffee**

14:00 – 14:45 **Opening of the conference**

Welcome and greetings

- **Professor Ihor Tsependa**
Rector of Vasyl Stefanyk Precarpathian National University, Doctor of Political sciences
- **Associate Professor Viktor Sluchyk**
Dean of the Faculty of Natural Sciences, Doctor of Biological Sciences
- **Professor Volodymyr Lushchak**
Honored Science and Technology Fellow of Ukraine, Doctor of Biological Sciences
- **Associate Professor Iryna Kozeretska**
Deputy Director of National Antarctic Scientific Center of Ukraine, Doctor of Biological Sciences
- **Andriy Levytskiy**
Coordinator of the Teple Misto Grants program

14:45 – 16:15 **PLENARY**

14:45 – 15:15 *Mitochondria aren't cool: consequences of elevated mitochondrial temperature in Drosophila*

Howard Jacobs

Faculty of Medicine and Health Technology, Tampere University, Finland
Department of Environment and Genetics, La Trobe University, Melbourne, Australia

15:30 – 16:00 *The trace element lithium stimulates egg production in the model organism Drosophila melanogaster*

Gerald Rimbach

Department of Food Sciences, Institute of Human Nutrition and Food Sciences, Kiel University, Kiel, Germany

16:15 – 16:30 **Coffee break**

16:30 – 18:20 **Session with 20 min talks**

16:30 – 16:50 *The influence of α -ketoglutarate and preparations of Rhodiola rosea on the indices of energy metabolism in middle-aged Drosophila melanogaster*

Maria Bayliak

Department of Biochemistry and Biotechnology, Vasyl Stefanyk Precarpathian National University, Ivano-Frankivsk, Ukraine

- 17:00 – 17:20** *Plant preparations and drugs to extend lifespan in Drosophila*
Dmytro Gospodaryov
Department of Biochemistry and Biotechnology, Vasyl Stefanyk Precarpathian National University, Ivano-Frankivsk, Ukraine
- 17:30 – 17:50** *Effects of some pigment biogenesis genes on lifespan of Drosophila melanogaster imago*
Natalia Volkova
Department of Genetics and Cytology, School of Biology, V. N. Karazin Kharkiv National University, Kharkiv, Ukraine
- 18:00 – 18:20** *A multi-year study of environmental effects on Drosophila species diversity and richness in Eastern Europe*
Pavlo Kovalenko
Institute for Evolutionary Ecology, National Academy of Sciences of Ukraine, Kyiv, Ukraine
- 18:30 – 20:00** **Get together party of conference participants**

Day 2

Wednesday, 28th of June, 2023

- 10:00 – 12:00** **PLENARY**
- 10:00 – 10:30** *Rapid and transient evolution of adaptation to seasonal host fruits in the invasive pest Drosophila suzukii*
Nicolas Rode
CBGP, INRAE, CIRAD, IRD, Institut Agro, University of Montpellier, Montpellier, France
- 10:40 – 11:10** *DrosOmics: A browser to explore -omics variation across high-quality reference genomes from natural populations of Drosophila melanogaster*
Marta Coronado-Zamora
Institute of Evolutionary Biology, CSIC, UPF, Barcelona, Spain
- 11:20 – 11:50** *The impact of inversions on adaptive evolution in Drosophila melanogaster*
Martin Kapun
Natural History Museum Vienna, Austria
Division of Cell and Developmental Biology, Medical University of Vienna, Vienna, Austria
- 12:00 – 12:20** **Coffee break**

- 12:20 – 14:00** **Session with 20 min talks**
- 12:20 – 12:40** *Reproductive manipulation of *Drosophila suzukii* by different *Wolbachia* variants*
Svitlana Serga
 CBGP, INRAE, CIRAD, IRD, Institut Agro, University of Montpellier, Montpellier, France
 Department of General and Medical Genetics, Educational and Scientific Center
 "Institute of Biology and Medicine", Taras Shevchenko National University of Kyiv,
 Kyiv, Ukraine
 National Antarctic Scientific Center of Ukraine, Kyiv, Ukraine
- 12:50 – 13:10** *Comparative genomics of *Wolbachia**
Oleksandr Maistrenko
 Royal Netherlands Institute for Sea Research (NIOZ), Texel, Netherlands
- 13:20 – 13:40** *TOR and Insulin signaling in enterocytes regulates the lifespan and metabolism in *Drosophila**
Olha Strilbytska
 Department of Biochemistry and Biotechnology, Vasyl Stefanyk Precarpathian National
 University, Ivano-Frankivsk, Ukraine
- 13:50 – 14:10** *Influence of chamomile aqueous extract on the stress resistance, antioxidant
 defence and fecundity in middle-aged *Drosophila melanogaster**
Maria Lylyk
 Department of Biochemistry and Biotechnology, Vasyl Stefanyk Precarpathian National
 University, Ivano-Frankivsk, Ukraine
- 14:20 – 15:20** **Lunch break**
- 15:20 – 17:30** **Session with 10 min talks**
- 15:20 – 15:30** *Receptor-type guanylyl cyclase *Gyc76C* plays a role in regulating the metabolism
 of adult *Drosophila melanogaster**
Diana Knoblochova
 Institute of Zoology, Slovak Academy of Sciences, Bratislava, Slovakia
- 15:35 – 15:45** *Effects of hypoxia and methionine on lifespan in *Drosophila melanogaster**
Olena Chaka
 Department of Clinical Physiology of Connective Tissues,
 Bogomolets Institute of Physiology, National Academy of Sciences of Ukraine, Kyiv,
 Ukraine
- 15:50 – 16:00** *Colonization of Ukraine territory by *Drosophila simulans**
Oleksandra Protsenko
 Department of General and Medical Genetics, Educational and Scientific Center
 "Institute of Biology and Medicine", Taras Shevchenko National University of Kyiv, Kyiv,
 Ukraine

- 16:05 – 16:15** *International social scientific project #MelanogasterCTF and Ukrainian schools in it*
Denys Radionov
 Department of Zoology, Hydrobiology and General Ecology,
 Odesa I. I. Mechnikov National University, Odesa, Ukraine
- 16:20 – 16:30** *Starvation of third instar larvae affects content of stored metabolites in adult *Drosophila**
Nadia Stefanyshyn
 Department of Biochemistry and Biotechnology, Vasyl Stefanyk Precarpathian National University, Ivano-Frankivsk, Ukraine
- 16:35 – 16:45** *The influence of exogenous α -ketoglutarate on metabolic parameters in the body of *Drosophila melanogaster**
Oleh Demianchuk
 Department of Biochemistry and Biotechnology, Vasyl Stefanyk Precarpathian National University, Ivano-Frankivsk, Ukraine
- 16:50 – 17:00** *Peculiarities of the structure of genes timeless and period in *Drosophila* species with different patterns of courtship song: bioinformatics and meta-analysis*
Nadia Chernobay
 Department of Genetics and Cytology, School of Biology,
 V. N. Karazin Kharkiv National University, Kharkiv, Ukraine
- 17:05 – 17:10** *The potential neuroprotective effects of spermidine in *Drosophila melanogaster**
Anastasia Raspopina
 Department of Genetics and Biotechnology, Faculty of Biology,
 Ivan Franko National University of Lviv, Lviv, Ukraine
- 17:15 – 17:25** *Specific and combined effects of arginine and ethanol on *Drosophila melanogaster**
Vitalii A. Balatskyi
 Department of Biochemistry and Biotechnology, Vasyl Stefanyk Precarpathian National University, Ivano-Frankivsk, Ukraine
- 17:30 – 18:00** **Traveling to Ivano-Frankivsk city center**
- 18:00 – 19:30** **City tour**

Day 3

Thursday, 29th of June, 2023

10:00 – 12:00 **PLENARY**

10:00 – 10:30 *Decoding redox sensing in Drosophila enteroendocrine cells*
Bohdana Rovenko
Molecular and Integrative Biosciences Research Programme,
Faculty of Biological and Environmental Sciences, University of Helsinki, Helsinki, Finland
Institute of Biotechnology, University of Helsinki, Helsinki, Finland

10:40 – 11:10 *Melanogaster: catch the fly!: a citizen science network in adaptation genomics*
Josefa González
Institute of Evolutionary Biology, CSIC, UPF, Barcelona, Spain

11:20 – 11:50 *Metabolic regulations by Ion transport peptide and adipokinetic hormone signaling*
Martina Gáliková
Institute of Zoology, Slovak Academy of Sciences, Bratislava, Slovakia

12:00 – 12:30 **Coffee break**

12:30 – 13:45 **Session with 10 min talks**

12:30 – 12:40 *Development of organophosphate-induced delayed neuropathy in Drosophila melanogaster with SWS domains overexpression*
Marta Tkachuk
Department of Genetics and Biotechnology, Faculty of Biology,
Ivan Franko National University of Lviv, Lviv, Ukraine

12:45 – 12:55 *Metabolic stress under sws-dependent neurodegeneration in Drosophila melanogaster*
Maria Gorin
Department of Genetics and Biotechnology, Faculty of Biology,
Ivan Franko National University of Lviv, Lviv, Ukraine

13:00 – 13:10 *Algorithm for the development of a model for the study of anthropogenic influences based on Drosophila melanogaster*
Viktoria Bilokudria
Department of Natural Sciences,
Municipal Establishment "Kharkiv Humanitarian-Pedagogical Academy" of the Kharkiv
Regional Council, Kharkiv, Ukraine

13:15 – 13:25 *Toxicological aspects of insecticide «Nurelle D» action under chronic stress*
Svitlana Klishch
Department of Biochemistry and Biotechnology, Vasyl Stefanyk Precarpathian National
University, Ivano-Frankivsk, Ukraine

13:30 – 13:40

*The influence of margarine and chamomile flower decoctions on food consumption and mobility of *Drosophila melanogaster**

Vitalii Derkachov

Department of Biochemistry and Biotechnology, Vasyl Stefanyk Precarpathian National University, Ivano-Frankivsk, Ukraine

13:45 – 14:30

Lunch break

14:30 – 17:30

Workshop on polymerase chain reaction (for young scientists)

Round table "Hot directions"

17:30 – 18:00

CLOSING PLENARY