



INTEGRATIVE Biology & Medicine

October 2-7, 2017 | Kyiv, Ukraine

Program

Welcome to the conference Integrative Biology & Medicine, the first conference in Ukraine focused on computational biology for researchers driven by passion to understand life and disease.

The conference is organized by a team of volunteers and co-funded by individual companies and foundations.

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Conference venue:
Great Conference Hall
of the National Academy of Sciences of Ukraine
Volodymyrska Street 55
Kyiv, Ukraine

PROGRAM

October 2, Monday

- 10:00 – 11:00 **Registration & Coffee**
- 11:00 – 11:15 **Welcome**
- 11:15 – 12:30 **Eli Eisenberg**
An alternate route to complexity: Trade-off between transcriptome plasticity and genome evolution in cephalopods
- 12:30 – 13:30 **Vaida Bankauskaite**
European Research Council Funding Schemes
- 13:30 – 14:30 **Lunch**
- 14:30 – 18:30 **Scientific Fair**
- 14:30 – 15:00 **Networking**
- 15:00 – 15:05 **Scientific Fair Welcome**
- 15:05 – 15:30 **Sergey Zozulya**
Discovering novel medicines in Ukraine
- 15:30 – 16:15 **Christian Popp**
Presentation of BIMSB-NYU PhD program
- 16:15 – 17:00 **Participants pitches**
Alyona Borovskaya KAU - Research University of a new type
Oleksii Molchanovskyi Master Degree program in Data Science at the Ukrainian Catholic University
Oleksii Shershnov Medical Company ILAYA. Regenerative Medicine
Olena Yemets BioLabTech Ltd: Our way of fostering excellence in Life Sciences' research and practice
Volodymyr Kravchenko «NanoMedTech» LLC
Szabolcs Kokeny Illumina Signed Distributor Agreement in Ukraine
Dmytro Simonov Science in Ukrainian Society: Lost in Translation
Michael Tulsy Fundamental Production: From Fundamental Science to Society and Back
Marina Chernysh: FabLab Fabricator
- 17:00 – 18:00 **Networking**

October 3, Tuesday

- 08:45 – 09:00 **Morning Coffee**
- 09:00 – 10:00 **Hedwig Deubzer**
Translational Neuroblastoma Research
- 10:00 - 11:00 **Sergiy Klymenko**
Fundamental research in clinical oncology
- 11:00 – 11:30 **Coffee**
- 11:30 – 12:00 **Oksana Sulaieva**
Understanding molecular biology of thyroid cancer
- 12:00 – 12:30 **Yakov Vitrenko**
Illumina platforms, solutions and pipelines for small- and mid-scale labs focusing on oncogenetics
- 12:30 – 13:00 **Dimitri Zubov & Roman Vasyliev**
Ukrainian biomedical tissue-engineered product for treatment of bone critical sized defects and AVN: manufacturing and first-in-human clinical outcomes
- 13:00 – 13:15 **Svitlana Drozdovska**
Integrative genetic variants in Ukrainian athletes
- 13:15 – 13:30 **Maria Obolenska**
The tissue-specific triggers of IFN α neurotoxicity: bioinformatics prediction and experimental verification
- 13:30 – 14:30 **Lunch & Posters Discussion**
- 14:30 – 16:00 **ORPHEUS workshop**
Supervisors' role in success of doctoral school
- 16:00 – 17:30 **Gisela Zimmermann**
DAAD-Programmes for International Cooperation with German Universities & DAAD-Programmes for International Cooperation with German Universities
- 17:30 – 18:30 **Maksym Pogorielov**
Horizon 2020 proposal: steps from idea to successful submission

- 08:45 – 09:00 **Morning Coffee**
- 09:00 – 10:00 **Mikhail Gelfand**
Three-dimensional structure and functional state of chromatin: who is the driver?
- 10:00 – 11:00 **Bartek Wilczynski**
Integrating gene expression and chromatin structure for better models of gene regulation
- 11:00 – 11:30 **Coffee**
- 11:30 – 12:25 **Michal Okoniewski**
Answering biological and medical questions with genomic big data
- 12:25 – 13:25 **Dmytro Fishman**
Deep Learning in Medicine and Computational Biology
- 13:25 – 13:45 **Alina Frolova**
Integrative analysis of expression profiles in healthy and preeclampsia-affected human placenta
- 13:45 – 14:00 **Anastasiia Hryhorzhevska**
A Scalable Distributed Approach to Population Structure Analysis
- 14:00 – 15:00 **Lunch & Posters Discussions**
- 15:00 – 15:45 **Stephanie Duguez**
Stratified Medicine for Motor neuron disease: identification of biomarkers specific to ALS
- 15:45 – 16:30 **William Duddy**
Tailored bioinformatics tools for neuromuscular function & disease
- 16:30 – 17:00 **Coffee**
- 17:00 – 17:45 **Pawel Łabaj**
Are we ready for personalized medicine? – urban microbiome perspective
- 17:45 – 18:15 **Dmytro Fishman**
ELIXIR: safeguarding the results of life science research in Europe
- 18:15 – 19:00 **Markiy Samborskyy**
Evolution of Illumina sequencing technologies and implications of reads quality and length changes for downstream data analysis

October 5, Thursday

08:45 – 09:00 **Morning Coffee**

09:00 – 10:15 **Nikolaus Rajewsky**

Regulatory RNAs & Single Cell Sequencing

10:15 – 11:15 **Jan Barciszewski**

New catalytic RNA-based strategy for mitochondria transformation and gene regulation

11:15 – 11:45 **Coffee**

11:45 – 12:45 **Siegfried Labeit**

Molecular Medicine of the gigantic muscle protein titin filament

12:45 – 13:45 **Oksana Piven**

Adhesion proteins more than just cardiomyocytes coupling

13:45 – 14:00 **Adrian Karmazyn**

A New U.S.-Based Biotechnology Initiative in Support of Ukrainian Biotech

14:00 – 15:00 **Lunch & Posters Discussion**

15:00 – 16:00 **Alex Shcheglovitov**

Using iPSC-derived neurons and organoids for studying human cortical development, synapses, and synaptopathies

16:00 – 17:00 **Svitlana Kurinna**

miRNAs as new regulators of regeneration

17:00 – 18:00 **John L. Wallace**

Hydrogen sulfide to the rescue: Trials and tribulations of translational research

18:00 – 18:15 **Arnold Martin**

From Sample to Insight: Simplify your lab life with Zymo Research

- 08:45 – 09:00 **Morning Coffee**
- 09:00 - 10:00 **Alexander V. Zholos**
Species differences in receptor-operated TRPC4 channels
- 10:00 – 11:00 **Bohdan Ostash**
Codon usage bias as a regulatory device: lessons from GC-rich genomes
- 11:00 – 11:20 **Oleksandr Yushchuk**
Evolution of glycopeptide and moenomycin antibiotic biosynthesis pathways in bacteria
- 11:20 - 11:40 **Coffee**
- 11:40 – 12:25 **Oleh Lushchak**
Transgenerational effects of late reproduction in *Drosophila*
- 12:25 – 12:45 **Victoria Novitska**
V-table© – an interactive tool to explore virus diversity providing a structured overview on a viral world
- 12:45 – 13:00 **Tatiana Yakushkina**
Evolutionary Models with Lethal Mutations
- 13:00 – 13:30 **Florian Graedler**
Next generation sequencing is the key method for identifying genetic disorders on population scale
- 13:30 – 14:00 **Klas Udekwu**
AMR in the Built Environment Mobilome; The Stockholm Subway
- 14:00 - 15:00 **Lunch & Posters Discussion**
- 15:00 – 16:00 **Pavel Gol'din**
Heterochrony as a driver of cetacean evolution
- 16:00 - 17:30 **Eugene Koonin**
Evolutionary principles and concepts in the postgenomic era
- 17:30 – 18:00 **Concluding remarks**



Embassy of Ukraine
in the United States of America



BioLabTech



FOR RESEARCHERS DRIVEN BY PASSION
TO SOLVE THE RIDDLES OF LIFE AND DISEASE

