

WORKSHOP

Sala/Room
120

Biologie computațională în era inteligenței artificiale (Computational Biology in The Artificial Intelligence Era)

FSEGA, Str. Teodor Mihali, Nr. 58-60

Înregistrarea participanților are loc în sala 120

Miercuri, 5 noiembrie 2025

09:00

Opening keynote lecture

Tim Hunt

Satoru, Bela and the Futile Cycle (event co-hosted with the Intl Conference in Molecular Biology)

10:30-11:15

Pauză cafea / Etajul 1, Clădirea FSEGA

11:15-15:30

SESSION I: High dimensional data in disease and therapy

11:15-12:00

Mihai Netea

Radboud University

Human Functional Genomics from cross-omics to precision medicine

12:00-12:30

Marius Mihășan

Alexandru Ioan Cuza University Iași

From Nicotine-Containing Waste to Value-Added Chemicals: The Case of Paenarthrobacter nicotinovorans

12:30-14:00

Prânz / Etajul 1, Clădirea FSEGA

14:00-14:30

Robi Tăcutu

Institute of Biochemistry Bucharest

Guiding experiments in Gerontology with machine learning and AI

14:30-15:00

Irina Voiculescu

University of Oxford

Title TBA

15:00-15:30

Anca Riza

University of Medicine and Pharmacy Craiova

Functional genomics in Sepsis

15:30-16:00

Pauză cafea / Etajul 1, Clădirea FSEGA

16:00-19:30

SESSION II: Structures, dynamics, and networks in biology

16:00-16:30

Ioana Ilie

Free University Amsterdam

A multiscale roadmap to modulate protein phase transitions in the brain

16:30-17:00

Laurențiu Spiridon

Institute of Biochemistry Bucharest

Fast exploration of protein conformational landscapes through robot mechanics simulations

17:00-17:30

Vlad Cojocaru

Babeș-Bolyai University Cluj-Napoca

When does machine learning fail to predict structures? Protein-RNA interactions at the computational nanoscope

17:30-18:30

Open discussion on the future of computational biology in Romania

19:30

Eveniment de networking la nivel de workshop (Restaurant Livada, Str. Clinicilor nr.14)

Joi, 6 noiembrie 2025

09:00-11:00

SESSION II: Structures, dynamics, and networks in biology

09:00-09:30

Nicolae Viorel Buchete

University College Dublin

From Properties of Single Proteins to Nanoparticle Corona Descriptors

09:30-10:00

Ana Nicoleta Bondar

University of Bucharest

Lipid and water hydrogen bonding stabilise a pH-dependent membrane pore

10:00-10:30

Lorant Janosi

ITIM Cluj-Napoca

Design of Anticancer Peptides

10:30-11:00

Ramona Curpan

Institutul de Chimie Timișoara

Drugcentral: Public Database Of Approved Drugs For Drug Discovery And Repurposing

11:00-11:30

Pauză cafea / Etajul 1, Clădirea FSEGA

11:30-14:30

SESSION III: Omics data in the artificial intelligence era

11:30-12:00

Radu Zabet

Queen Mary University of London

Explainable Artificial Intelligence identifies novel mammalian enhancers and their epigenetic code

12:00-12:30

Marius Surleac

Matei Balș Medical Center Bucharest

Bioinformatic perspectives and computational methods to study bacterial, fungal and viral genome sequencing data

12:30-14:00

Prânz / Etajul 1, Clădirea FSEGA

14:00-14:30

Irina Balaur

Luxembourg National Data Service

From data services to graph databases: applications in systems biomedicine

14:30-17:00

SESSION IV: Perspectives in AI driven computational biology

14:30-15:00

Viorel Munteanu

Technical University of Moldova

Building bioinformatics capacity in Moldova

15:00-15:30

Dumitru Ciorbă

Technical University of Moldova

Transparency and Reproducibility in Computational Biomedical Research

15:30-16:00

Pauză cafea / Etajul 1, Clădirea FSEGA

16:00-16:30

Bogdan Mirăuță

ClearEdge AI, Cambridge

AI and Data Challenges in Romanian Life Sciences

16:30-17:00

Emil Slușanschi

Polytechnical University Bucharest

AI Tech vs. Teaching & R&D

17:00-20:00

SESSION V: Omics data in the artificial intelligence era

17:00-17:45

Gabriel Balmuș

University of Cambridge

A genetic interaction map of interstrand cross-link repair reveals conserved principles of genetic networks

17:45-18:30

Open discussion on the future of computational biology in Romania

20:00

Cină festivă (Wild Hills, E576, Juc-Herghelie)