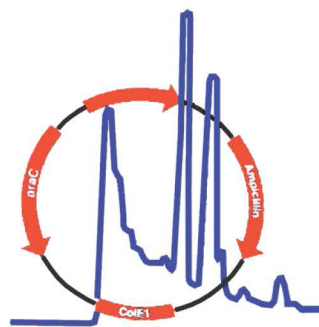


*Institute of Biochemistry  
of the Romanian Academy*



**Romanian Society of Biochemistry  
and Molecular Biology**

# Annual International Conference of Romanian Society of Biochemistry and Molecular Biology

25-27 September 2024, Bucharest



**Romanian Academy Library,  
Calea Victoriei 125**



**House of Scientists (COS),  
Piata Lahovary 9**

# Annual International Conference of Romanian Society of Biochemistry and Molecular Biology

**Wednesday 25.09.2024**

08.30 - 09.30	<b>Registration</b>		
09.30 - 09.45	<b>Opening ceremony</b>	Address of the <b>Vice President of Romanian Academy Acad. Nicolae Zamfir</b>	
09.45 - 10.30	<b>Plenary lecture</b>	<b>Frances Platt</b> Univ. Oxford, UK	<i>Understanding and treating lysosomal diseases</i>
10.30 - 11.00	<b>Coffee break</b>		
11.00 - 12.45	<b>Session Molecular Medicine (I)</b>	<b>Chair: Norica Nichita and Gabriela Negroiu</b>	
11.00 - 11.30	Invited speaker	Sorin Tunaru Inst. Biochemistry	<i>Orphan G-protein coupled receptor 27 (GPR27), a novel and atypical adrenergic receptor</i>
11.30 - 11.55	Keynote speaker	Costin I. Popescu Inst. Biochemistry	<i>Hepatitis C Virus antigen design and alternative production platforms for vaccine development</i>
11.55 - 12.10	Selected presentation	Gabriela Chirițoiu Inst. Biochemistry	<i>An oxidized tyrosinase derived epitope elicits an improved immune response</i>
12.10 - 12.25	Selected presentation	Oana Sava Baldasici Oncol. Inst., Cluj-Napoca	<i>The transcriptional landscape of cancer stem-like cell functionality in breast cancer</i>
12.25 - 12.40	Selected presentation	Marta Szilvia Meszaros UBB, Cluj-Napoca	<i>A preliminary in vivo investigation of the effects of a combined immunotherapy on B16.F10</i>
12.40 - 13.30	<b>Lunch Break</b>		
13.30 - 14.15	<b>Plenary lecture</b>	<b>Octavian Bucur</b> Viron.Mol.Med.Inst., USA/ Inst. Genomics, RO	<i>Expansion Pathology Technology in Diagnostic Pathology and Research</i>
14.15 - 16.20	<b>Session Functional Genomics, proteomics and bioinformatics</b>	<b>Chair: Octavian Bucur and Robi Tăcutu</b>	
14.15 - 14.45	Invited speaker	Andrei Petrescu Inst. Biochemistry	<i>The Dawn of Adaptive Immune System. Advent and Evolution of the RAGSystem</i>
14.45 - 15.10	Keynote speaker	Cristian Munteanu Inst. Biochemistry	<i>Exploring the glycoproteomic space of the early secretory pathway in melanoma cell with disrupted ER homeostasis</i>
15.10 - 15.35	Keynote speaker	Laurențiu Spiridon Inst. Biochemistry	<i>Robosample: A Robot Mechanics Molecular Simulation Software for Enhanced Exploration of Biomolecular Conformational Dynamics</i>
15.35 - 15.50	Selected presentation	Anton Kulaga IBMA/Inst. Biochemistry	<i>Longevity Genie: Enhancing Large Language Models for Longevity and Genetics Research through Retrieval-Augmented Generation and Specialized AI Agents</i>
15.50 - 16.05	Selected presentation	Victor Ungureanu Inst. Biochemistry	<i>Joints in Motion: Accelerating Protein-Ligand Insights with Robosample</i>
16.05 - 16.20	Selected presentation	Teodor Șulea Inst. Biochemistry	<i>Prediction of NOD like receptor structure with new, state of the art Deep Learning methods.</i> <i>Deep Learning, ma non troppo</i>
17.00 - 21.00	<b>Poster Session 1 and Cocktail at House of Scientists (COȘ), Piața Lahovary 9</b>		

# Annual International Conference of Romanian Society of Biochemistry and Molecular Biology

## Thursday 26.09.2024

09.00 - 09.20	Selected presentation	Kriti Pathak Promega, DE	<i>Lumit® Immunoassays: An Easier and Faster Method for Analyte Detection</i>
09.20 - 09.30	Selected presentation	Kristen Procko Univ.Texas, USA	<i>BioMolViz: A Community Improving Education in Biomolecular Visualization</i>
<b>09.30 - 10.30</b>	<b>Session Plant and Food Biochemistry</b>	<b>Chair: Adela Pinteá and Simona Vicaș</b>	
09.30 - 10.00	Invited speaker	Adela Pinteá USAMV, Cluj-Napoca	<i>Anthocyanins – from chemistry to biological effects</i>
10.00 - 10.30	Invited speaker	Simona Vicaș Univ. Oradea, Oradea	<i>Viscum album L. phytochemical profile, antioxidant capacity, and in vitro wound healing potential</i>
<b>10.30 - 11.15</b>	<b>Plenary lecture</b>	<b>Radu Aricescu</b> University of Cambridge, UK	<i>The Wide Wild World of Human GABAA Receptors</i>
<b>11.15 - 11.45</b>	<b>Coffee break</b>		
<b>11.45 - 12.45</b>	<b>Session Cellular and Molecular Biochemistry (I)</b>	<b>Chair: Dana Maria Copolovici and Ștefana Petrescu</b>	
11.45 - 12.10	Keynote speaker	Dana Maria Copolovici Univ.Aurel Vlaicu, Arad	<i>Antimicrobial efficacy of novel cell-penetrating peptides</i>
12.10 - 12.35	Keynote speaker	Simona Ghenea Inst. Biochemistry	<i>Cellular responses to ER stress in the absence of EDEM proteins from a multicellular organism</i>
<b>12.35 - 13.30</b>	<b>Lunch Break</b>		
<b>13.30 - 14.15</b>	<b>Plenary lecture</b>	<b>Adrian Șalic</b> Harvard Univ., USA	<i>Sending and receiving intercellular signals</i>
<b>14.15 - 15.10</b>	<b>Session Molecular Medicine</b>	<b>Chair: Adrian Șalic and Ovidiu Sárbu</b>	
14.15 - 14.40	Keynote speaker	Elena Nicoli UMFCD, Bucharest	<i>Implementing an Undiagnosed Diseases Program in Romania: A Strategic Move to Address Rare Diseases</i>
14.40 - 14.55	Selected presentation	Ioana Popa Inst. Biochemistry	<i>Hit identification for the development of new therapeutic drugs for neurodegenerative diseases</i>
14.55 - 15.10	Selected presentation	Florentina Pena Inst. Biochemistry	<i>Discovery of natural secretagogues of hormones that regulate glucose metabolism</i>
<b>15.10 - 16.20</b>	<b>Session Cellular and Molecular Biochemistry (II)</b>	<b>Chair: Ștefana Petrescu and Manuela Banciu</b>	
15.10 - 15.40	Invited speaker	Manuela Banciu UBB, Cluj-Napoca	<i>Extracellular vesicles-friends and foes in cancer treatment</i>
15.40 - 16.05	Keynote speaker	Marioara Chirițoiu Butnaru Inst. Biochemistry	<i>Targeting unconventional protein secretion in inflammatory disorders</i>
16.05 - 16.20	Selected presentation	Daniel Cruceriu Oncol. Inst., Cluj-Napoca	<i>The cellular and molecular landscape behind ELK3-triggered metastasis in triple-negative breast cancer</i>
<b>17.00 - 21.00</b>	<b>Poster Session 2 and Dinner at House of Scientists (COȘ) Piața Lahovary 9</b>		



# Annual International Conference of Romanian Society of Biochemistry and Molecular Biology

Friday 27.09.2024

## 09.00 - 09.45 FEBS, Junior section SRBBM, Proteomic Society

09.45 - 10.00 Selected presentation Susan Wu-RWD  
RWD, China *High-quality single-cell suspension and cell separation strategies in improving SingleCell Sequencing workflow efficiency*

## 10.00 - 10.30 Session Cellular and Molecular Biochemistry (III) **Chair: Ștefana Petrescu and Manuela Banciu**

10.00 - 10.15 Selected presentation Ștefan Mihai Drăgan  
UBB, Cluj-Napoca *A transcriptomic analysis of the efficacy off the anti PD-L1 antibodies-based immunotherap co-administered with dendritic cells-derived extracellular vesicles loaded with curcumin in B16.F10 murine melanoma*

10.15 - 10.30 Selected presentation Giorgiana Negrea  
UBB, Cluj-Napoca *Simvastatin Effects on Lipid Metabolism of Normoxic B16.F10 Murine MelanomaCells*

## 10.30 - 14.10 Session Health and Environmental Bio- and Nano- technologies **Chair: Anca Roșeanu and Luminița Măruțescu**

10.30 - 10.45 Selected presentation László Zoltán  
UBB, Cluj-Napoca *Rose gall induction by Diplolepis wasps: A hypothesis based on the possible involvement of phytoplasmas*

10.45 - 11.00 Selected presentation Adorjan Cristea  
UBB, Cluj-Napoca *Snapshot on the metabolism of Halomonas elongata DSM 2581T during the synthesis of polyhydroxybutyrate*

## 11.00 - 11.30 Coffee break

11.30 - 11.55 Keynote speaker Luminița Măruțescu  
Univ. Bucharest *Nanotechnology-based approaches in biomedical applications*

11.55 - 12.20 Keynote speaker Laura Pătraș  
UBB, Cluj-Napoca *Molecular profiling of circulating extracellular vesicles to monitor physiological and stress responses in humans exposed to short-duration spacefligh*

12.20 - 12.45 Keynote speaker Livia Sima  
Inst. Biochemistry *First molecular investigations using laser-induced high-energy electron FLASH irradiation to characterize cancer cells response to ultrahigh dose rate exposure*

12.45 - 13.10 Keynote speaker Alina Sesărman  
UBB, Cluj-Napoca *Advanced 3D Biomimetic Model Unveils Important Chemoresistance Traits in Melanoma*

13.10 - 13.25 Selected presentation Paula Florian  
Inst. Biochemistry *New Polydimethylsiloxane (PDMS) modified interfaces: physical-chemical characteristics and in vitro effect on cell behaviour*

13.25 - 13.40 Selected presentation Bogdan Dume  
*Bogdan Dume* *Targeting Hypoxia-Inducible Factor-1 to Suppress Angiogenesis and Apoptosis in B16.F10 Murine Melanoma Cells in vitro*

13.40 - 13.55 Selected presentation Alexandra Bran  
INFLPR, Măgurele *3D tissue-like scaffolds fabricated by two-photon polymerization for melanoma cell invasion evaluation*

13.55 - 14.10 Selected presentation Valentin Florian  
Rauca  
UBB, Cluj-Napoca *Using subtherapeutic doses of doxorubicin to assess development of adaptive and resistance mechanisms in a murine melanoma model*

14.15 Closing Ceremony