



# ICBP

N I C O L A E S I M I O N E S C U

# 44

The 44<sup>th</sup> ANNUAL SCIENTIFIC SYMPOSIUM OF  
THE INSTITUTE OF CELLULAR BIOLOGY AND PATHOLOGY  
“NICOLAE SIMIONESCU” (ICBP-NS)

held jointly with

# 40



# RSCB

The 40<sup>th</sup> ANNUAL SCIENTIFIC SESSION  
OF THE ROMANIAN SOCIETY FOR CELL BIOLOGY (RSCB)

“...to go beyond the limits of knowledge in cellular and molecular biology”

INTERNATIONAL CONFERENCE

A hybrid event – organised onsite and online

Under the aegis of the Romanian Academy

Dedicated to our mentors George Palade and Nicolae Simionescu

## PROGRAM

16-17 November 2023



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## INTERNATIONAL CONFERENCE

**44<sup>th</sup> ANNUAL SCIENTIFIC SYMPOSIUM OF THE  
INSTITUTE OF CELLULAR BIOLOGY AND PATHOLOGY  
“NICOLAE SIMIONESCU”  
- ICBP-NS -**

held jointly with

**40<sup>th</sup> ANNUAL SCIENTIFIC SESSION OF  
THE ROMANIAN SOCIETY FOR CELL BIOLOGY  
- RSCB -**

*“...to go beyond the limits of knowledge in cellular and molecular biology”*

*Dedicated to our mentors,  
George E. Palade and Nicolae Simionescu*

*A hybrid event – organised onsite and online  
under the aegis of the Romanian Academy*

**16-17 November 2023**

**Locations: The Romanian Academy and ICBP “N. Simionescu”  
Bucharest – Romania**

## ICBP-NS and SRBC ORGANIZING COMMITTEE

*Acad. Maya Simionescu*

*Dr. Felicia Antohe*

*Prof. Anca Hermenean*

*Dr. Loredan Ștefan Niculescu*

*Dr. Anca V. Gafencu*

*Dr. Ana-Maria Văcaru*

*Dr. Mirel Adrian Popa*

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*Secr. Iulia Bratu*

*Secr. Florența Gânguță*

### SPONSORS



Dear colleague,

We are delighted to extend our warm invitation to you for the upcoming International Conference, the **44<sup>th</sup> Annual Scientific Symposium of the Institute of Cellular Biology and Pathology "Nicolae Simionescu"** (ICBP-NS) held jointly with the **40<sup>th</sup> Annual Scientific Session of the Romanian Society for Cell Biology** (RSCB), under the auspices of the Romanian Academy. This event will take place between 16-17 November 2023, it will be a hybrid gathering, with both onsite and online components hosted at The Romanian Academy and ICBP-NS.

Our conference motto "*...to go beyond the limits of knowledge in cellular and molecular biology*" reflects our commitment to push as much as we can the boundaries of scientific understanding in our field.

The program includes a diverse range of sessions that promise to enrich our collective knowledge:

- Sessions for Successfully Funding Projects - PNRR and RONO Projects
- Translational Medicine and Targeted Therapies
- Round Table on *Cellular and Molecular Impact of Environmental Climate Changes*
- Round Table on *Functional Genomics*
- Young Scientists presentations
- General Assembly of RSCB members
- New cellular and molecular biology techniques

Your participation in this conference will greatly contribute to its success.

We do hope that you will accept our invitation and join us in this enlightening event.

With best regards,

Acad. Maya Simionescu and

the Organizing Committee of the Symposium

## PROGRAM

THURSDAY, 16 NOVEMBER 2023, Aula of the Romanian Academy

### 10:00 Opening remarks

Acad. Ioan-Aurel Pop, President - *Introductory Remarks*

Acad. Maya Simionescu – *The Strive to go Beyond the Limits of Actual Knowledge*

### 11:00 -13:00 Session 1

#### ***Successfully Funded Projects of the Research Groups of RSCB (part 1)***

***Chairperson:*** Acad. Maya Simionescu

11:00 – 11:20 Dr. Manuela Călin (ICBP-NS, Bucharest) - *New Nanotherapeutic Strategies for Cardiac Fibrosis Targeting the Mechanisms Underlying the Fibroblast to Myofibroblast Transition (HeartCure)*. Project Leader: Dr. Rostyslav Bilyy

11:20 – 11:40 Dr. Alexandrina Burlacu (ICBP-NS, Bucharest) - *Targeting Cardiac Fibrosis in Heart Failure; Challenges and Potential Solutions Based on ncRNA Therapeutics (FibroThera)*. Project Leader: Dr. Fabio Martelli

11:40 – 12:00 Dr. Adrian Manea (ICBP-NS, Bucharest) - *Development of a Novel Immuno-Modulatory Therapy against Cardiac Inflammation in Myocardial Infarction, Myocarditis and Sepsis (IMMUNOCARD)*. Project Leader: Dr. Alexandru Șchiopu

12:00 – 12:20 Acad. Anca V. Sima (ICBP-NS, Bucharest) - *Enhancing the Endogenous Anti-Oxidant and Cholesterol Removal Potential by Gene Editing in Fatty Liver Disease; Pre-Clinical Studies (THERAGENLIV)*. Project Leader: Prof. Shlomo Sasson

12:20 – 12:40 Prof. Kyriakos Kypreos, Project Leader (ICBP-NS, Bucharest) - *Strengthening the Romanian Competency in Metabolic Syndrome Research by Exploring the Role of Apolipoprotein A2 in Dyslipidemia, Obesity and Type Ili Diabetes Mellitus (STROMA)*. ICBP-NS Coordinator: Dr. Anca V. Gafencu

12:40-13:00 Discussions

13:00-14:30 Lunch Break

**14:30 – 16:00 Session 2.**

***Successfully Funded Projects of the Research Groups of the RSCB (part 2)***

14:30-14:50 Dr. Anca-Lelia Riza (Department of Cell Biology, University of Medicine and Pharmacy Craiova) - *Slowing immune system ageing through dietary control (ImmunAgeD)*. Project Leader: Prof. dr. Mihai Netea

14:50-15:10 Prof. Cătălina Gabriela Pisoschi (Department of Pharmaceutical Biochemistry, University of Medicine and Pharmacy Craiova) - *Targeting macrophages/monocytes in the aged ischemic brain by pharmacological, genetic and cell-based tools*. Project Leader: Prof. dr. Dirk Hermann

15:10-15:30 Dr. Bogdan Drugă (Institute of Biological Research, Cluj-Napoca) - *Mathematical models used in the description of aquatic ecosystems*. Project Leader: Dr. Ferenc Jordan

15:30-15:50 Dr. Ana Maria Văcaru, Project Leader (ICBP-NS, Bucharest) - *Supportive therapy for diabetes by increasing the stress endurance and regenerative capacity of  $\beta$ -cells (BETAUPREG)*

15:50-16:00 Discussions

**17:00** ***Social program: ICBP-NS - RSCB "Cellular Party"***

**9:30-10:30 Session 3.**

***Targeted Therapies: novel data***

**Chairperson:** Dr. Felicia Antohe

9:30-9:45 Felicia Antohe, Viorel-Iulian Șuică, Luminița Ivan, Elena Uyy, Raluca Maria Boteanu, Diana Valentina Uță (ICBP-NS, Bucharest) - *The Critical Role of Proteomics in the Application and Effectiveness of Experimental Immuno-Modulatory Therapies.*

9:45-10:00 Geanina Voicu, Florentina Safciuc, Maria Anghelache, Mariana Deleanu, Ruxandra Anton, Delia Boteanu, Maya Simionescu, Ileana Mânduțeanu, Manuela Călin (ICBP-NS, Bucharest) - *A Targeted Nanotherapy to Block the Progression of Calcific Aortic Valve Disease: Nanocarriers of shRNA-Runx2 Directed to Collagen IV.*

10:00-10:15 Maria Consiglia Trotta, Marina Russo, Caterina Claudia Lepre, Gianluca Conza, Luciano Mottola, Annalisa Itrò, Anca Hermenean, Michele D'Amico, Giuseppe Toro (University of Campania "Luigi Vanvitelli", Naples, Italy) - *Osteonecrosis and Mesenchymal Stem Cells: State of the Art and New Molecular Targets.*

10:15-10:30 Violeta Turcuș, Viviane-Beatrice Bota, Ungureanu Ovidiu, Elisabeta Chișe, Ciopănoiu Ioana, Adriana Dărăban, Neli Olah, Aleya Amina, Hejja Melinda, Endre Mathe (Faculty of Medicine, "Vasile Goldiș" Western University Arad) - *Aspects Regarding the Structure and Ultrastructure of Some Buds from the Spontaneous Flora Used in Alternative Therapies.*

10:30-11:00 *Coffee break and Poster Session*

**11:00-12:00 Round Table 1.**

***Cellular and Molecular Impact of Environmental Climate Changes***

**Chairpersons:** Prof. Horia L. Banciu, Dr. Iasmina Moza

11:00-11:10 Maria Nicoară, Adina Niculea, Adriana Hegedüs, Bogdan Drugă („Babeș-Bolyai” University, Cluj-Napoca) - *Long-Term Exposure to Warming Leads to Physiological Changes in Two Phytoplankton Species.*

11:10-11:20 Bogdan Drugă, Charlotte Briddon, Mihai Miclăuș, Adriana Hegedus, Maria Nicoară, Maria-Cecilia Chiriac (Institute of Biological Research, Cluj-Napoca) -



*Toxic Cyanobacteria Can Cope with Elevated Temperatures by Quickly Altering the Expression of Certain Genes.*

11:20-11:30 Adina Niculea, Charlotte Briddon, Maria Nicoară, Adriana Hegedus, Richard Bellerby, Wenche Eikrem, Bibiana Crespo, Sam Dupont, Bogdan Drugă (Institute of Biological Research, Cluj-Napoca) - *Diatoms and Climate Change: Long-Term Adaptation to Ocean Acidification and Warming.*

11:30-11:40 Adela Teban-Man, Adriana Hegedús, Maria Nicoară, Bogdan Bucur, Horia L. Banciu („Babeş-Bolyai” University, Cluj-Napoca) - *Genetic Screening for Cyanotoxin Production as Tool for Environmental Management and Protection.*

11:40-11:50 Iasmina Moza Maria, Anamaria Benedek, Mirela Moldoveanu, Carmen Postolache, Piet Spaak (Faculty of Biology, University of Bucharest) - *Cyanobacteria community from Danube Delta can reflect climate change?*

11:50-12:00 Discussions

12:00-13:00 *Lunch Break and Poster Session*

**13:00-14:00 Round Table 2.**

***Functional Genomics***

***Chairpersons:*** Prof. Cătălina Gabriela Pisoschi, Prof. Ioan Streață

13:00-13:10 Ioana Streață, Bogdan Cătălin, Anca-Lelia Riza, Andrei Pîrvu, Ștefania Dorobanțu, Adina Dragoș, Mihaela Roskanovic, Florentina Dumitrescu, Vinod Kumar, Mihai Ioana, Mihai G. Netea (University of Medicine and Pharmacy Craiova) - *Immune Changes Associated with an Increased Risk to Develop Severe Materno-foetal Infections.*

13:10-13:20 Anca-Lelia Riza, Ioana Streață, Andrei Pîrvu, Ștefania Dorobanțu, Adina Dragoș, Mihaela Roskanovic, Florentina Dumitrescu, Vinod Kumar, Mihai Ioana, Mihai G. Netea (University of Medicine and Pharmacy Craiova) - *Genome-wide Association Studies in Sepsis.*

13:20-13:30 Andra Grigorescu, Isis Ricaño-Ponce, Anca-Lelia Riza, Aline H. de Nooijer, Andrei Pîrvu, Ștefania Dorobanțu, Adina Dragoș, Ioana Streață, Mihaela Roskanovic, Inge Grondman, Florentina Dumitrescu, Vinod Kumar, Mihai Ioana, Mihai G. Netea (University of Medicine and Pharmacy Craiova) - *Characterization of Sepsis*

*Inflammatory Endotypes using Circulatory Proteins in Patients with Severe Infection: the FUSE Study.*

13:30-13:40 Adela Neacșu, Anca-Lelia Riza, Andrei Pîrvu, Ioana Streață, Ștefania Dorobanțu, Adina Dragoș, Mihaela Roskanovic, Florentina Dumitrescu, Vinod Kumar, Mihai Ioana, Mihai G. Netea (University of Medicine and Pharmacy Craiova) - *Thyroid Hormone Disorders and Sepsis.*

13:40-13:50 Ștefania Andrei, Valentin Nica, Anca-Lelia Riza, Andrei Pirvu, Adina Dragoș, Ioana Streață, Mihaela Roskanovic, Florentina Dumitrescu, Vinod Kumar, Mihai Ioana & Mihai G. Netea (University of Medicine and Pharmacy Craiova) - *Differentially Expressed Genes in Sepsis.*

13:50-14:00 Cătălina Gabriela Pisoschi, Camelia Elena Stănciulescu, Ileana Monica Baniță (University of Medicine and Pharmacy Craiova) - *Functional Genomics Approach of Host-Pathogen Interaction in Pulmonary Tuberculosis.*

14:00-14:30 *Coffee Break*

#### **14:30-15:30 Session 4.**

##### ***Young Scientists presentations***

***Chairperson:*** Acad. Ileana Mânduțeanu

14:30-14:40 Maria Anghelache, Mariana Deleanu, Geanina Voicu, Florentina Safciuc, Ruxandra Anton, Delia Boteanu, Ileana Mânduțeanu, Maya Simionescu, Manuela Călin (ICBP-NS) - *Macrophage Membranes-Functionalized Lipid Nanoemulsions as Promising Carriers of Pro-Resolving Lipid Mediators to Atherosclerotic Lesions.*

14:40-14:50 Răzvan D. Macarie, Monica M. Tucureanu, Letiția Ciortan, Ana-Maria Gan, Elena Butoi, Ileana Mânduțeanu (ICBP-NS) - *Ficolin-2 Amplifies the Inflammatory Process Induced by Macrophage-Smooth Muscle Cell Cross-Talk and Increases Monocyte Transmigration by Mechanisms Involving IL-1 $\beta$  and IL-6.*

14:40-14:50 Natalia Simionescu, Anca-Roxana Petrovici ("Petru Poni" Institute of Macromolecular Chemistry, Iasi) - *Unlocking the Potential of a Novel Lactic Acid Bacteria Strain: from Isolation to the Harvesting of Valuable Metabolites.*

14:50-15:00 Vlad-Alexandru Toma, Maria Lehene, Ștefania Dandea, Ștefan Drăgan, Alexandru Jurca, Bogdan Sevastre, Ioana Roman, Radu Silaghi-Dumitrescu (Babeș-Bolyai University, Cluj-Napoca) - *The Subcellular Response Pathways to*

*Hemorrhage are Counteracted with Hemerythrin-Based Oxygen Carriers Derivatized with Serum Albumin.*

15:00-15:10 Roxana Surugiu, Elena Anca Pinoşanu, Emilia Burada, Denisa Pîrşcoveanu, Camelia Elena Stănciulescu, Raluca Elena Sandu, Cătălina Gabriela Pisoschi, Carmen Valeria Albu (University of Medicine and Pharmacy Craiova) - *The Interplay of Oxidative Stress and Antioxidant Defence in Acute Ischemic Stroke Patients with COVID-19 Infection*

15:10-15:20 Viviane Beatrice Bota, Neli Kinga Olah, Elisabeta Chiş, Ramona Flavia Burtescu, Flavia Ramona Pripon Furtuna, Alexandru-Sabin Nicula, Lăcrimioara Ivănescu, Maria-Magdalena Zamfirache, Endre Mathe, Violeta Turcuş (Faculty of Medicine, "Vasile Goldiș" Western University Arad) - *Impact of Pedo-Climatic Conditions on the Anatomy, Phytochemical Profile and Antioxidant Capacity of Vegetative Organs of Tussilago farfara L.*

15:20-15:30 Discussions

**15:30-15:45 Session 5.**

***New cellular and molecular biology techniques***

15:30-15:45 Antisel RO SRL – Technical presentation

**15:45 General Assembly of RSCB members**

**17:30 Conclusions and End of the Conference**

## POSTERS SESSION

### Location: ICBP-NS

1. Ioana-Karla Comarita, Gabriela Tanko, Laurențiu Anghelache, Alina Constantin, Miruna Nemezc, Nicoleta Alexandru-Moise, Adriana Georgescu. *Tracking the Effect of siRNA AP-1 as a Potential Therapeutic Strategy in Reversing the Pulmonary Arterial and Right Ventricular Dysfunction Associated with Cardiac and Pulmonary Fibrosis in a Model of Cardiopulmonary Disease.*
2. Ruxandra Anton, Maria Anghelache, Geanina Voicu, Delia Boteanu, Florentina Safciuc, Manuela Călin. *Obtaining Mouse Models of Cardiac Fibrosis using Isoproterenol and Angiotensin II Administration.*
3. Delia Boteanu, Maria Anghelache, Deleanu Mariana, Geanina Voicu, Ruxandra Anton, Manuela Călin. *Synthesis and Characterization of Nucleolin-Targeted Nanoparticles Loaded with Dexamethasone for the Treatment of Vascular Inflammation.*
4. Luminița Ivan, Viorel I. Șuică, Elena Uyy, Diana V. Uță, Felicia Antohe. *Functional Proteomic Changes of Human Monocytes in Culture Induced by Hyperlipidemic Stress*
5. Elena Uyy, Viorel I. Șuică, Luminița Ivan, Diana V. Uță, Elena G. Bernea, Dragoș E. Georgescu, Ovidiu Chiriac, Felicia Antohe. *Proteomic Alterations in Diabetic Peripheral Artery Disease: Insights from Clinical and Laboratory Analyses.*
6. Diana V. Uță, Viorel I. Șuică, Elena Uyy, Luminița Ivan, Felicia Antohe. *Differential Proteomic Analysis of Lower Limb Ulcerations in an Experimental Peripheral Artery Disease Diabetic Mouse Model.*
7. Teodora Barbălată, Loredan S. Niculescu, Camelia S. Stancu, Florence Pinet, Anca V. Sima. *LIPCAR and MALAT1, two Long Non-Coding RNAs, are Increased in the Plasma of Acute Coronary Syndrome Patients and Predict Major Adverse Cardiovascular Events.*
8. Laura Toma, Gabriela M. Sanda, Elena V. Fuior, Jessica Ciobanu, Anca V. Sima, Camelia S. Stancu. *CRISPR/dCas9 Gene Editing to Overexpress Apolipoprotein AI, the Antioxidant Enzyme Paraoxonase 1 and the Cholesterol Transporter ABCA1 in Human Hepatocytes - an Advanced Source of Functional HDL.*
9. Gabriela M. Sanda, Laura Toma, Elena V. Fuior, Jessica Ciobanu, Anca V. Sima, Camelia S. Stancu. *CRISPR/dCa9 gene Editing to Overexpress Glutathione Peroxidase in Human Enterocytes, an Advanced Method to Increase the Endogenous Antioxidant Potential.*
10. Monica M. Tucureanu, Letiția Ciortan, Răzvan Macarie, Andreea Mihăilă, Elena Butoi, Ileana Mânduțeanu. *Molecular Mechanisms Underlying Valvular Endothelial Dysfunction in Diabetes.*
11. Mihaela-Loredana Vlad, Alexandra-Gela Lazăr, Simona-Adriana Manea, Adrian Manea. *Activation of Histone Methyltransferase SET7 Induces Inflammatory Response in the Atherosclerotic Aorta of Apolipoprotein E Knockout Mice.*

12. Alexandra-Gela Lazăr, Mihaela-Loredana Vlad, Adrian Manea, Simona-Adriana Manea. *The Epigenetic Enzyme LSD1 Mediates the Up-Regulation of NADPH Oxidase Expression and Oxidative Stress in Diabetic Kidney.*
13. Laura Maria Dăian, Andrei Mircea Văcaru, Elena Mirela Lambă, Oana Ana-Maria Mardare, Andrei-Sabin Popa, Ana-Maria Văcaru. *Exploring the Stress Response in Pancreatic  $\beta$ -Cells by Selective Ablation of Cellular Mass: a Model Analysis.*
14. Oana-Ana-Maria Mardare, Elena M. Lambă, Laura M. Dăian, Andrei M. Văcaru, Luiza Ghila, Simona Chera, Ana-Maria Văcaru. *Induction of Insulin Dysfunction in Murine  $\beta$ -Cells through Pharmacological activation of UPR.*
15. Elena M. Lambă, Gabriela Tanko, Oana-Ana-Maria Mardare, Laura M. Dăian, Andrei Mircea Văcaru, Ana-Maria Văcaru. *Variation of  $\beta$ -Cells Heterogeneity in Diabetes.*
16. Marius Muțescu, Mădălina Dumitrescu, Irina F. Tudorache, Irina Bucă, Radu Ioniță, Ioana M. Fenyo, Elena V. Fuior, Gabriela Florea, Anca V. Gafencu. *An Efficient Strategy of Lentivirus Production for in vivo Applications.*
17. Gurgu Raul-Andrei, Janosi Anett, Izabell Crăciunescu, Ciorita Alexandra. *Cytotoxicity and Nanomaterials: Investigation of Cytotoxic Effect of Functionalized Iron Oxide Particles.*
18. Stefan-Mihai Drăgan, Alexandru Jurca, Alia Colniță, Ioana Roman, Vlad-Alexandru Toma. *Modulating the Fenton Reaction Using in-chimico and ex-situ Biological Models to Estimate the Behavior of the Peroxidase Exposed to Reduced and Oxidized Iron.*
19. Maria-Alexandra Nutu, Bogdan Dume, Lucian Barbu, Ioana Roman, Vlad-Alexandru Toma. *Histochemical, Silver Impregnation, and Fluorescence Methods in Glial Cell Differentiation in Bird Brain.*
20. Alina Ciceu, Neli Kinga Olah, Anca Hermenean, Ferenc Fenyves. *Phytochemical and Antioxidant Analysis of the Gemmotherapy-Based Secale Cereals Reinforced with Chrysin/Cyclodextrin Nanocomplexes.*
21. Hildegard Herman, Leonard Atanase, Anca Hermenean. *Development of a Novel Dual PTX-Ursolic Acid Loaded Polymeric Micellar System.*
22. Verginica Schröder, Manuela Rossemary Apetroaei, Irina Mihaela Iancu, Gabriela Mitea, Horațiu Mireșan, Ileana Rău. *Bioavailability Studies of Chitosan Molecules On Crustacean Species.*
23. Anca Cristina Lepădatu, Ana-Maria Neculai, Gabriela Stanciu, Luiza-Madalina Cima, Magdalena Mititelu, Sorinel Marius Neacșu. *Active Molecules with Antimicrobial, Antioxidant and Anti-Inflammatory Activity from Vinca Minor L. Extracts Developed in New Dermato-Cosmetic Therapeutic Formulas in the Field of Regenerative Medicine.*

## List of Participants (alphabetical order)

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