





INTERNATIONAL CONFERENCE

under the aegis of the ROMANIAN ACADEMY

THE 42nd ANNIVERSARY SYMPOSIUM OF THE INSTITUTE OF CELLULAR BIOLOGY AND PATHOLOGY "NICOLAE SIMIONESCU"

held jointly with

THE 38th ANNUAL SCIENTIFIC SESSION OF THE ROMANIAN SOCIETY FOR CELL BIOLOGY

"From basic cell biology to personalized medicine during Covid-19 pandemic; creativity and vision in a rapidly changing world"

November 4-6, 2021
VIRTUAL EVENT

Thursda	y - Novem	ber 4, 2021
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OPENING OF THE CONFERENCE

9.30 - 9.45

Acad. Maya Simionescu – Director ICBP-NS and President RSCB
Acad. Ioan-Aurel Pop – President of the Romanian Academy
Prof. Dr. Adrian Curaj – Director of UEFISCDI

SESSION 1 ICBP-NS CONFRONTING THE SARS-CoV-2 PANDEMIC ERA Chair: Maya Simionescu 9.45 - 12.00

Maya Simionescu (Director)

Uncovering the cell's secrets - a continuous quest of our team

Ileana Manduteanu (Dept. of Biopathology and Therapy of Inflammation)

Mechanisms and novel therapies for aortic valve disease in diabetes

Manuela Calin (Lab. of Medical and Pharmaceutical Bionanotechnologies)

Targeted therapies based on nanocarriers to reduce vascular inflammation

Anca Sima (Dept. of Lipidomics)

In search for new biomarkers for cardiovascular diseases - dysfunctional HDL and epigenetic factors (miRNAs).

Felicia Antohe (Dept. of Proteomics)

Moving forward towards proteomics-based precision medicine in non-communicable diseases

Anca Gafencu (Lab. of Gene Regulation and Molecular Therapies)

Cellular and molecular manipulations for therapeutic purposes

Alexandrina Burlacu (Lab. of Stem Cell Biology)

Harnessing the power of MSC to attenuate the damaging effects of aging, autoimmune diseases and myocardial infarction

	Adrian Manea (Molecular and Cellular Pharmacology - Functional Genomics Laboratory)
	Epigenetic mechanisms in cardiometabolic disorders: potential biomarkers and therapeutic targets
	Irina Titorencu (Cell and Tissue Engineering Laboratory)
	Mesenchymal stromal cells: therapeutic potential for skin wound healing
12.00 - 12.30	Coffee break
	SESSION 2
	SARS-CoV-2 - INFECTION / INVASIVENESS / VACCINE
	12.30 – 14.00*
	Chair: Maya Simionescu
	* The speakers are kindly asked to leave time for questions and discussion
	Maya Simionescu, ICBP-NS
12.30 - 12.50	Dangerous encounters: SARS-CoV-2 - epithelial/ endothelial cell
	(Intalniri periculoase: SARS-CoV-2 - celula epiteliala/ endoteliala)
	Victor Voicu, Vice-President of the Romanian Academy
12.50 - 13.20	Neuroinvazia virusului SARS-CoV-2, simptomatologie, cai de patrundere si mecanisme patogenice
	(Neuroinvasion of SARS-CoV-2 virus, symptomatology, penetration routes and pathogenic mechanisms)
13.20 - 13.35	Gafincu Grigoriu Daniel- Ionut, "Grigore T. Popa" University of Medicine, Iasi, Romania
	SARS-CoV-2 UVC inactivation-mechanisms and a new air decontamination equipment
	Fikadu Tafesse, Oregon Health and Science University, USA
	Vaccine and natural infection elicited COVID-19 immunity against SARS-CoV-2 variants
	(This talk will be given at the end of the Session 4)
13.35 – 14.30	Lunch and poster session

	SESSION 3
	NON-COMMUNICABLE DISEASES: ATHEROSCLEROSIS AND DIABETES
	14.30 – 16.25*
	Chairs: Anca Sima, Maria Dorobantu
	* The speakers are kindly asked to leave time for questions and discussion
14.30 – 14.55	Maria Dorobantu, Floreasca Clinical Emergency Hospital, Bucharest, Romania
	Genetic aspects in hypertrophic cardiomyopathy: what is new?
44.55 45.45	Camelia Stancu, ICBP-NS
14.55 – 15.15	New biomarkers for risk stratification in peripheral artery disease patients – proteins of dysfunctional HDL
	Viorel Suica, ICBP-NS
15.15 – 15.30	Cardiac alarmins as indicators of the efficacy of hypolipidemic treatment in experimental hyperlipidemia
	Laura Toma, ICBP-NS
15.30-15.45	Endothelial dysfunction in diabetes is aggravated by glycated lipoproteins; novel molecular therapies
15.45 – 16.00	Violeta Trusca, ICBP-NS Understanding the apolipoprotein E gene regulation, a key step toward the development of novel therapies for atherosclerosis
16.00 – 16.25	Anca Dobrian, Eastern Virginia Medical School, USA Learning to listen: understanding extracellular vesicle chatter in obesity co-morbidities
16.25 – 17.00	Coffee break
	SESSION 4 - PhD STUDENTS' PRESENTATIONS
	NON-COMMUNICABLE DISEASES: ATHEROSCLEROSIS, DIABETES AND CANCER
	17.00 – 18.10*
	Chairs: Alexandrina Burlacu, Carmen Cotrutz
	* The speakers are kindly asked to leave time for questions and discussion
	Vasile Grecu, "Grigore T. Popa" Univ. of Medicine, Iasi, Romania
17.00 - 17.10	The importance of determining and corelating the expression of VEGFR-1, CD4, and CD8 in the evaluation of acute rejection of cardiac allografts – correlative immunohistochemical study

17.10 – 17.20	Teodora Barbalata, ICBP-NS MicroRNAs profiling in the heart and liver of high-fat diet induced
	hyperlipidemic hamster
	Alexandra Lazar, ICBP-NS
17.20 - 17.30	Activation of histone acetyltransferase p300/CBP - dependent signalling pathways induces oxidative stress, inflammation, and fibrosis in the kidney of diabetic mice
	Evelyn Rusu, ICBP-NS
17.30 – 17.40	MiRNAs generated from Meg3-Mirg locus are downregulated during aging
	Ioana Karla Comarita, ICBP-NS
17.40 – 17.50	Therapeutic potential of stem cell- derived extracellular vesicles on atherosclerosis-induced vascular dysfunction
	Maria Anghelache, ICBP-NS
17.50 - 18.00	Preparation and characterization of macrophage-membrane- coated nanoemulsions for delivery of specialized pro-resolving lipid mediators of inflammation
18.00 – 18.10	Botezatu Ionut Catalin, "Grigore T. Popa" Univ. of Medicine, Iasi
	Expression of MT1-MMP and CD147 in gingival tissue of patients with diabetes mellitus-corelative immunohistochemical study

Friday - November 5, 2021		
	SESSION 5	
	CELLULAR DYNAMICS IN DISTRESS AND DISEASE	
	9.30 – 11.05*	
	Chair: Anca Gafencu	
	* The speakers are kindly asked to leave time for questions and discussion	
	Stefan Constantinescu, Catholic Univ. of Louvain, Belgium	
09.30 - 10.00	Clonal hematopoietic driver and epigenetic mutations in myeloid cancers: relevance beyond hematology	
10.00 - 10.25	Shlomo Sasson, The Hebrew University of Jerusalem, Israel Monounsaturated fatty acids protect insulin-secreting beta cells against free fatty acid-induced cytotoxicity	

Simona Chera, University of Bergen, Norway Mapping islet cell interconversion phenomena Mirel Adrian Popa, ICBP-NS The role of FGFR2 signalling in modulating MMP/TIMP balance in cardiac myofibroblasts 11.05 – 11.30 Coffee break SESSION 6 THE ANNUAL GENERAL MEETING OF RSCB MEMBERS - REPORTS OF THE PRESIDENTS OF THE SOCIETY BRANCHES 11.30 – 13.00 Chair: Maya Simionescu Antoaneta Chesca, President RSCB - Brasov Branch Carmen- Elena Cotrutz, President RSCB - Iasi Branch Anca Hermenean, President RSCB - Craiova Branch Daciana Sava, President RSCB - Craiova Branch Daciana Sava, President RSCB - Targu Mures Branch Anca Ileana Sin, President RSCB - Targu Mures Branch Doina Verdes, President RSCB - Targu Mures Branch TBA, President RSCB - Cluj Branch Maria Tolbaru, Accountant of RSCB 13.00 – 13.40 Lunch and poster session SESSION 7 PhD STUDENTS' PRESENTATIONS CELLS AND CELLULAR DERIVATIVES IN THERAPY 13.40 – 15.10* Chairs: Felicia Antohe, Anca Hermenean * The speakers are kindly asked to leave time for questions and discussion Daniela-Madalina lacomi, ICBP-NS Generation and characterization of an immortalized human adipose-derived mesenchymal stromal cell line		
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13.50 - 14.00	13.40 - 13.50	
13.50 - 14.00		Laura Maria Daian, ICBP-NS
Living under stress - Evaluating changes in β cells nomeostasis	13.50 - 14.00	Living under stress - Evaluating changes in β cells homeostasis

	Aurel Cerveanu -Hogas, ICBP-NS
14.00 - 14.10	Use of exosomal protein cargo for the prediction and management of gestational diabetes mellitus
	Raluca Tutuianu, ICBP-NS
14.10 - 14.20	Human mesenchymal stromal cells - derived exosomes promote skin wound healing; mechanisms involved
	Cristina-Andreea Mihaila, ICBP-NS
14.20 – 14.30	Polarized N1 and N2 neutrophils acquire distinct phenotypes and functions
	Neli Olah, "Vasile Goldis" Western University of Arad, Romania
14.30 – 14.40	Morpho-anatomical and phytochemical study of the Corylus L. species (buds)
	Rebeca Simona Ignat, University of Bucharest
14.40 - 14.50	Antifibrotic effects of Corylus avellana gemmotherapic extract reinforced with chrysin/cyclodextrin nanocomplexes on hepatic stellate cells
	Letitia Ciortan, ICBP-NS
14.50 - 15.00	High glucose induced changes in valvular endothelial cells phenotype in a 3D model of aortic valve disease
	Geanina Voicu, ICBP-NS
15.00 – 15.10	VCAM-1 targeted lipopolyplexes carrying Runx2-shRNA mitigate the osteodifferentiation of 3D-cultured human valvular interstitial cells
15.10 – 15.40	Coffee break
	SESSION 8
	CARDIOMYOPATHY, INFLAMMATION-RESOLUTION, ATHEROSCLEROSIS
	15.40 – 17.25*
	Chairs: Elena Butoi, Carmen Cotrutz
	* The speakers are kindly asked to leave time for questions and discussion
	Alexandru Schiopu, Lund University, Sweden
15.40 – 16.05	The S100A8/A9 alarmin as potential treatment target in inflammatory cardiomyopathies

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16.05 – 16.30	Maria Consiglia Trotta, "Luigi Vanvitelli" Univ. of Campania, Italy Resolvin D1 actions in ocular pathologies
	Elena Butoi, ICBP-NS
16.30 – 16.55	Polarized neutrophils: versatile players that orchestrate healing or heart failure after myocardial infarction
	Monica Tucureanu, ICBP-NS
16.55 - 17.10	Cellular and molecular mechanisms of complement proteins in human atherosclerotic plaque progression
	Loredan Nicolescu, ICBP-NS
17.10 - 17.25	Epigenetic biomarkers for peripheral artery disease
17.25 - 17.45	Coffee break
	SESSION 9
	GENERAL PATHOLOGY - CELLULAR AND MOLECULAR LEVEL
	17.45 – 18.50*
	Chair: Ileana Manduteanu
	* The speakers are kindly asked to leave time for questions and discussion
	Dan Simionescu, Clemson University, USA
17.45 – 18.10	Non surgical management of abdominal aortic aneurysms
18.10 – 18.35	Florea Lupu, Oklahoma Medical Research Foundation, USA
	Coagulopathy and endotheliopathy of bacterial and viral infections
18.35 – 18.50	Doinita Temelie- Olinici, "Grigore T. Popa" Univ. of Medicine, Iasi
	Ultrastructural characteristics of keratoachantoma – clinical implications

	Saturday - November 6, 2021	
	SESSION 10	
	INNOVATIVE THERAPIES, STEM CELLS	
	9.30 - 11.05*	
	Chair: Manuela Calin	
	* The speakers are kindly asked to leave time for questions and discussion	
	Manuela Calin, ICBP-NS	
9.30 – 9.55	P-Selectin directed RAGE-shRNA nanocarriers reduce atherosclerosis-associated inflammation in ApoE-deficient mice	
	Luiza Ghila, University of Bergen, Norway	
9.55 – 10.20	Modelling pancreatic islet architecture using human induced pluripotent stem cells	
	Ferenc Fenyvesi, University of Debrecen, Hungary	
10.20 – 10.45	Application of cyclodextrins and calixarenes in the	
	nanoformulations of bioactive compounds	
	Bogdan Preda, ICBP-NS	
10.45 – 11.05	Local microenvironment activates in vivo apoptosis of mesenchymal stromal cells after transplantation	
11.05 – 11.30	Coffee break	
	SESSION 11	
	CELLULAR MODIFICATIONS UNDER STRESS	
	11.30 – 13.30*	
	Chairs: Gallia Butnaru, Larisa Andronic	
	* The speakers are kindly asked to leave time for questions and discussion	
11.30 – 11.55	Larisa Andronic, IGPPP Chisinau, Republic of Moldova	
	Cells and biotic stress in plant virus-host systems	
11.55 – 12.20	Mihaela Corneanu, USAMVB Timisoara, Romania	
	Cyto and genotoxicity of soil and water pollutants	

	Viviane Bota, "Vasile Goldis" Western University of Arad	
	Cristina Popescu, "Vasile Goldis" Western University of Arad	
	Diana Argherie, USAMVB Timisoara	
	Violeta Turcus, USAMVB Timisoara	
	Sorina Popescu, USAMVB Timisoara	
	Ioan Sarac, USAMVB Timisoara	
	Mihaela Corneanu, USAMVB Timisoara	
	Larisa Andronic, IGPPP Chisinau	
	Organiser: Gallia Butnaru	
	14.00 - 16.00	
	CELLULAR MODIFICATIONS UNDER STRESS	
	ROUND TABLE	
13.30 – 14.00	Lunch and poster session	
13.15 – 13.30	Expression value of MMP-14 and EMMPRIN (CD 147) in benign prostatic hyperplasia – comparative immunohistochemical study	
	Pavel Onofrei, "Grigore T. Popa" Univ. of Medicine, Iasi	
13.00 -13.15	β –Defensin and COX-2 expression value in premalignant epithelial lesions: correlative immunohistochemical study	
	Ana Emanuela Botez, "Grigore T. Popa" Univ. of Medicine, Iasi	
12.45 – 13.00	In vitro research on the anti-cancer potential of some curcumin derivates	
	Miruna Stan, Faculty of Biology Bucharest	
12.20- 12.45	Tatiana Saltanovici, IGPPP Chisinau, Republic of Moldova Associated influence of viral pathogens and high temperature on male tomato gametophyte	