



Academia Română
Institutul de Biologie și Patologie Celulară
"Nicolae Simionescu"

SIMPOZION ANIVERSAR
bucurești 19-20 septembrie 2019

Academia Română
Institutul de Biologie și Patologie Celulară
"Nicolae Simionescu"

Vă invităm să onorați cu prezența Dumneavoastră o
sărbătoare a Științei Românești

Simpozionul Aniversar

**"O călătorie fascinantă de 40 de ani pentru
descoperirea secretelor celulei în beneficiul
sănătății omului"**

**"An incredible 40-year journey to uncover cell's
secrets for the benefit of human health"**

organizat cu prilejul împlinirii a
40 de ani de activitate
a Institutului nostru.

București, 19 - 20 Septembrie, 2019

Deschiderea va avea loc
JOI 19 SEPTEMBRIE 2019, ora 9.30
Aula Academiei Române

Ne-am bucura dacă veți fi alături de noi la
acest moment aniversar.

Acad. Maya Simionescu
Director

PROGRAM

JOI, 19 SEPTEMBRIE 2019 - Aula Academiei Române

9.30 - 10.15 Deschiderea Simpozionului

Acad. Ioan -Aurel Pop – Președintele Academiei Române
Acad. Maya Simionescu – Director al IBPC "N. Simionescu"

10.15 -11.30 Evocări

CHAIRS: Maya Simionescu, Sam Silverstein

Prof Sam Silverstein – Columbia University Medical Center,
USA: "Maya and Nicolae Simionescu, George Palade, and the
founding of ICBP"

Prof. Irinel Popescu – Președintele Academiei de Științe
Medicale

Prof. Radu Deac – Vicepreședintele Academiei de Științe
Medicale

Prof. Jean Askenasy – Tel-Aviv University, Israel,
Membru de onoare al Academiei Române,

Prof. Werner Franke – German Cancer Research Center (DKFZ),
Heidelberg, Germany: "Those were the years of key importance
in the history of science: 1979 – Molecules meet Methods"

Acad. Doina Popov – IBPC "N. Simionescu"

Dr. Anca Dobrian – Eastern Virginia Medical School, USA: "Tell
them of battles, kings, elephants and, endothelial cells"

01

VINERI, 20 SEPTEMBRIE 2019 - Aula George Emil Palade,
IBPC "N. Simionescu"

9.00-11.00 Sesiune Științifică I: "Cells and genes"

CHAIRS: Dimitris Kardassis, Anca Sima

9.00 - 9.25 Jean Askenasy: "Endothelial Cell Function In The
Blood-Brain-Barrier"

9.25 - 9.50 Anca Dobrian: "Endothelial cell plasticity in adipose
tissue"

9.50 -10.15 Angelo Azzi: "Aging and Dietary Biofactors"

10.15 -10.40 Dimitris Kardassis: "Identification of new genes
and miRNAs that are implicated in the pathogenesis of the
Metabolic Syndrome in mice: a transcriptomics approach"

10.40 -11.05 Mircea Ivan: "Cellular Oxygen Sensing: From HIF-
Prolyl Hydroxylases to Noncoding RNAs"

11:05 -11:30 PAUZĂ DE CAFEA

**11.30 -14.00 Sesiune Științifică II: "Cell Function and
Dysfunction"**

CHAIRS: Angelo Azzi, Florin Lupu

11.30 -11.55 Sam Silverstein: "A critical concentration of
effector leukocytes is required to eradicate bacteria and
cancer cells"

11.55 -12.20 Florin Lupu: "Targeting host responses as sepsis
therapy"

12.20 -12.45 Cristina Lupu: "Role of Androgen-Dependent

04

Tissue Factor Pathway Inhibitor Regulating Protein (ADTRP) in
Vascular Development and Function"

12.45 -13.10 Alexandru Schiopu: "Inflammation and repair in
myocardial infarction"

13.10 -13.35 Zorina Galis: "The Human BioMolecular Atlas
Program" (HuBMAP): Mapping the human body,
one cell at a time"

13.35 -14.00 Șerban Moroșan: "Transparency and
Communication on animal used for scientific research:
Challenges and Opportunities"

14.00 -15.30 PAUZĂ DE PRÂNZ /Sesiune de postere

15.30 -19.00 Workshop DIABETER: "Searching for a novel
therapy for type 1 diabetes"

CHAIRS: Maya Simionescu, Nadir Askenazy

15.30 -16.30 Session I: Therapeutic approaches to diabetes

15.30 -16.00 Irit Meivar Levy: "Liver to pancreas
transdifferentiation; potential cell replacement therapy for
Diabetes"

16.00 -16.15 Andrei Văcaru: "Reinstating self-tolerance in
prediabetic mice by bone marrow transplantation"

16.15 -16.30 Alexandrina Burlacu: DIABETER Project
presentation "Mesenchymal stromal cells as vectors with
therapeutic potential to abrogate diabetic autoimmunity"

16.30 -17.00 PAUZĂ DE CAFEA

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Prof. Angello Azzi – Tufts University, USA: "UNESCO-MCBN-
ICPB: Acronyms for a better science"

Dr. Florea Lupu – Universitatea din Oklahoma, USA

11.30-12:00: FOTOGRAFIE DE GRUP – PAUZĂ DE CAFEA

12:00 -13:45 Descoperiri, noutăți în laboratoarele IBPC-NS

CHAIRS: Doina Popov, Jean Askenasy

12.00-12.15 Anca Sima: "Lipidomics, a pioneering domain in
ICBP"

12.15-12.30 Ileana Mânduțeanu: "Vascular and valvular
inflammation in atherosclerosis and diabetes: new mechanisms
and targets for nanobiotherapies"

12.30-12.45 Felicia Antohe: "Toward precision medicine on
the road from cell receptors to cell proteomics"

12.45-13.00 Adriana Georgescu: "Vascular endothelial
dysfunction: cardiovascular risk factors, new biomarkers and
therapies"

13.00-13:15 Anca Gafencu: "Apolipoproteins: gene regulation
and manipulation for therapeutic purposes"

13.15-13.30 Adrian Manea: "Epigenetic mechanisms in
atherosclerosis: biomarkers and therapeutic targets"

13.30-13.45 Alexandrina Burlacu: Advances in MSC-based
therapies for tissue regeneration"

13:45-15:00: PAUZĂ DE PRÂNZ /

Sesiune de postere: **Proiectul Theravaldis**

02

15.00- 19.00: Workshop THERAVALDIS: "Cardiac valves
disease: new targets for therapies and tissue engineering"

CHAIRS: Werner Franke, Ileana Manduteanu, Agneta Simionescu

15:00-15:25 Ileana Mânduțeanu: Overview of the project.

"Early diabetes associated alterations of aortic heart valves in a
murine model of atherosclerosis"

15:25-15:50 Alexandru Filippi: "Early diabetes induces
alterations in endothelial progenitor cell phenotype and
homing in a murine model of atherosclerosis"

15:50-16.15 Elena Butoi: "3D aortic valve leaflet: a model to
study the effect of diabetes in valve calcification"

16.15-16.40 Manuela Călin: "The innovative nanotherapeutics
designed for targeted delivery of shRNA to diseased
aortic valve"

16.40-17.05 Agneta Simionescu:

"Tissue Engineered Mitral Valve"

17.05-17.30 Werner Franke: "The special molecular
organization of major structures in valvular cells"

17.30-17.55 Radu Deac: "The pericardium - biological tissue
for artificial heart valves"

17.55-18.20 Dan Simionescu: "The VALVE-REGEN project;
extracellular matrix scaffolds, adult stem cells and bioreactors
for cardiac valve tissue regeneration"

18.20-18.45 Ionel Droc: "Transcatheter aortic valve
replacement (TAVI) - our experience in Military Hospital"

18.45 -19.00 Discussion and perspectives

19:30: WELCOME DINNER

03

17.00 -18.10 Session II: Molecular design of death-inducing
mesenchymal stromal cells

17.00 -17.10 Ana Văcaru: "Mesenchymal stromal cells as
vectors for expression of death molecules"

17.10 -17.25 Mihai Bogdan Preda: "Remote activity of
mesenchymal stromal cells in chemical diabetes"

17.25 -17.40 Anca Gafencu: "Three killer molecules:
engineering adenoviruses for expression of FasL,
TNFα and TRAIL"

17.40 -17.50 Mădălina Dumitrescu: "Granting killer properties
to mesenchymal stromal cells by FasL- adenoviral transduction"

17.50 -18.00 Violeta Trusca: "The killing capacity of
mesenchymal stromal cells -overexpressing TNFα"

18.00 -18.10 Marton Fogarasi: "Design and engineering of
TRAIL-expressing mesenchymal stromal cells"

18.10 -19.00 Session III: Lessons from in vivo studies of
killer MSC

18.10 -18.25 Mădălina Fenyo: "Immunomodulation of diabetic
mice with killer cells"

18.25 -18.35 Ana-Maria Catrina: "Diabetic status
determined by islet inflammation and insulin production in
immunomodulated diabetic mice"

18.35 -19.00 Discussion

19:30: GALA DINNER

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