



ASOCIATIA DE CITOMETRIE DIN ROMANIA

A XVIII-a Ediție a Congresului Național de Citometrie

08 - 09 MAI 2025, BUCUREȘTI

PROGRAM

JOI, 8 MAI / THURSDAY, MAY 8TH

08:00 - 09:00 ÎNREGISTRARE PARTICIPANȚI / ATTENDEES REGISTRATION

09:00 - 09:15 DESCHIDEREA OFICIALĂ / OPENING CEREMONY

Lydia Campos – Honorary president of the Romanian Association of Cytometry

Horia Bumbea – President of the Romanian Association of Cytometry

09:15 - 10:40 SESIUNE DE DESCHIDERE / PRESIDENTIAL SESSION

09:15 - 10:15 Minimal Residual Disease and Microenvironment in Multiple Myeloma. Where are we standing in 2025?

Lydia Campos

Laboratory of Hematology, CHU, Saint Etienne, France

10:15 - 10:40 Diagnosis of chronic lymphoproliferative disorders in National Program

Horia Bumbea, Ion Dumitru, Cristina Ivan

Spitalul Universitar de Urgență București, Romania; Universitatea de Medicină și Farmacie “Carol Davila”

10:40 - 11:00 Simpozion Novartis / Novartis Symposium

From guideline update to patient benefit in GvHD/ De la actualizarea ghidurilor la beneficiul pacienților în GvHD

Horia Bumbea

Spitalul Universitar de Urgență București, Romania; Universitatea de Medicină și Farmacie “Carol Davila”

**11:00 - 11:15 PAUZĂ DE CAFEA, EXPOZIȚIE, VIZIONARE POSTERE
COFFEE BREAK, EXHIBITION, POSTERS**



11:15 - 11:30 Simpozion Accela / Accela Symposium
Advantages of using spectral flowcytometry to detect particular immune profile
Erwin Swart, Cytex Biosciences

11:30 – 13:00 SESIUNE HEMATOLOGIE I / HEMATOLOGY SESSION I

11:30 - 11:45 **Myths and Realities about Microvesicle Analysis**

Jordi Petriz

Germans Trias i Pujol Research Institute (IGTP), ICO-Hospital
Germans Trias i Pujol, Universitat Autònoma de Barcelona (UAB),
Badalona, Barcelona, Spain

11:45 - 12:00 **Exploring CAR-T Therapy: Interactions Between CAR Cells and Lymphocytes**

*Delia Codruta Popa, Horia Sandu, Anca Gheorghe, Catalin Serban,
Andreea Șerbănică, Ionut Șerbănică, Cristina Jercan, Andra Marcu,
Valeria Țică, Daniel Coriu, Alina Tanase, Anca Coliță*
Fundeni Clinical Institute, Bucharest, Romania

12:00 - 12:15 **Minimal Residual Disease in Acute Myeloid Leukemia with FLT3**

*Horia Sandu, Anca Gheorghe, Catalin Serban, Camelia Stancioaica,
Alexandra Ghiaur, Mihaela Uta, Valeria Țică, Delia Codruta Popa,
Daniel Coriu*
Fundeni Clinical Institute, Bucharest, Romania

12:15 - 12:30 **Fundeni Hematology Clinic's Experience in Managing and Monitoring Philadelphia-Positive ALL**

*Andreea Andrunache, Horia Sandu, Anca Gheorghe, Catalin Serban,
Camelia Stancioaica, Alexandra Ghiaur, Roxana HirjanMihaela Uta,
Valeria Țică, Aurelia Tatic, Delia Codruta Popa, Daniel Coriu*
Fundeni Clinical Institute, Bucharest, Romania

12:30 - 12:45 Single tube panel validation – transfer procedure from a conventional to a spectral clinical flow cytometer

Mihaela Zlei

Department of Flow Cytometry, Medical Laboratory, Regional
Institute of Oncology, Iasi, Romania

12:45 - 13:00 Development of a standardized permeabilization method for the quantification of DNA double-strand breaks via intranuclear gamma H2AX detection

Dan Sebastian Soare, Ion Dumitru, Andreea Alexe, Horia Bumbea

13:00 - 14:00 PRÂNZ / LUNCH



**14:00 - 14:20 Simpozion Johnson & Johnson / Johnson & Johnson Symposium
Mutations in CLL**

Cristina Ciufu

Hematologie (Clinica și Laborator), Spitalul Universitar de Urgență
București

14:20 - 16:05 SESIUNE ONCOLOGIE ȘI IMUNOLOGIE / ONCOLOGY & IMMUNOLOGY

14:20 - 14:35 Image and flow cytometry evaluation of cancer cell response to radiation treatment

Livia Sima

Institute of Biochemistry of the Romanian Academy, Bucharest

**14:35 - 14:50 Molecular Gym: Lipid Vesicles Loaded with Bioactive Compounds
for Sarcopenia Therapy**

Ariana Hudiță

Department of Biochemistry and Molecular Biology, Faculty of
Biology, University of Bucharest, Romania

14:50 - 15:20 Intratumoral T cells

Claude LAMBERT

Laboratory of Immunology, CHU, Saint Etienne, France

**15:20 - 15:50 Using Flowcytometry to Measure ALDH activity in myeloid cells:
Marker of immunological dysfunction and cardiovascular risk in
people living with HIV? Modulation by statins?**

Jonathan Dias^{1,2}, *Etiene Moreira Gabriel*^{1,2}, *Tomas Raul Wiche Salinas*^{1,2},
*Abdelali ali-Mouhim*², *Julie Moreaux*², *Jean-Pierre Routy*^{3,4}, *Nicolas*
Chomont^{1,2}, *Marc Messier-Peet*^{2,5}, *Carl Chantrand-Lefebvre*^{2,5},
Madeleine Durand^{2,5}, *Mohamed El-Far*², *Cécile Tremblay*^{1,2}, *Petronela*
Ancuta^{1,2}

¹Département de microbiologie, infectiologie et immunologie,
Faculté de Médecine, Université de Montréal, Montréal, Québec,
Canada, ²CHUM Research Centre, Montréal, Québec, Canada,

³Chronic Viral Illness Service and Division of Hematology, Research
Institute of the McGill University Health Centre, Montreal, QC,

Canada, ⁴McGill University Health Centre, Glen site, Montreal, QC,

Canada, ⁵Département de Médecine, Faculté de Médecine, Université
de Montréal, Montréal, Québec, Canada

15:50 - 16:05 A flow cytometry approach to screen for drugs able to reverse HIV-1 latency

Marian Neculae^{1,2,3}, Soumia Khalfi¹, Edwin Caballero^{1,4}, Jonathan Dias^{1,2}, Petronela Ancuta^{1,2,3,5}

¹ Centre de recherche du Centre hospitalier de l'Université de Montréal (CRCHUM), Montréal, Québec, Canada, ² Département de microbiologie, infectiologie et immunologie, Faculté de médecine, Université de Montréal, Montréal, Québec, Canada, ³ Department of Botany and Microbiology, Faculty of Biology, University of Bucharest, Romania, ⁴ Department of Microbiology and Immunology, McGill University, Montréal, Québec, Canada, ⁵ Research Institute of the University of Bucharest, Bucharest, Romania

**16:05 - 16:15 PAUZĂ DE CAFEA, EXPOZIȚIE, VIZIONARE POSTERE
COFFEE BREAK, EXHIBITION, POSTERS**



**16:15 - 16:45 Simpozion AstraZeneca / AstraZeneca Symposium
Modern Genetic Markers in CLL: The Role of IGLV3-21R110**
Mariana Vasilica

16:45 - 17:15 SESIUNE IMUNODEFICIENTE / IMMUNODEFICIENCES SESSION

16:45 - 17:00 Clinical classification of immunodeficiencies

Ciprian Jurcuț
Clinical Central Military Hospital

17:00 - 17:15 Analysis of lymphocyte subsets in immunodeficiencies

Maria Rodrigues

17:15 - 17:45 Simpozion AstraZeneca / AstraZeneca Symposium

PNH: a medical emergency

Horia Bumba

Spitalul Universitar de Urgență București, Romania; Universitatea de
Medicină și Farmacie "Carol Davila"

VINERI, 9 MAI / FRIDAY, MAY 9TH

09:30 – 11:00 SESIUNE IMUNOLOGIE / IMMUNOLOGY SESSION

09:30 – 10:00 The role of Myeloid-Derived Suppressor Cells (MDSCs) in the immune response

Jordi Petriz

Germans Trias i Pujol Research Institute (IGTP), ICO-Hospital
Germans Trias i Pujol, Universitat Autònoma de Barcelona (UAB),
Badalona, Barcelona, Spain

10:00 - 10:30 In Fluxo: The Power of Kinetic Analysis by Real-Time Flow Cytometry

Jose Enrique O'Connor Blasco

Department of Biochemistry and Molecular Biology, Faculty of
Medicine, University of Valencia, Spain

10:30 - 11:00 From Cytometry to Cytomics: The Impact of Technological Advances and Artificial Intelligence on Single-Cell Omics

Jose Enrique O'Connor Blasco

Department of Biochemistry and Molecular Biology, Faculty of
Medicine, University of Valencia, Spain

**11:00 - 11:20 PAUZĂ DE CAFEĂ, EXPOZIȚIE, VIZIONARE POSTERE
COFFEE BREAK, EXHIBITION, POSTERS**



**11:20 - 11:40 Simpozion Novaintermed / Novaintermed Symposium
Resolve complex biological data with the latest technologies**

Tim Schenkel

11:40 – 12:30 **SESIUNE BIOLOGIE CELULARĂ / CELL BIOLOGY SESSION**

11:40 - 12:00 Biological evaluation of modified titanium orthopedic implants

Luminița Măruțescu¹, GrațIELA Grădișteanu¹, Dinu Mihaela², Anca Constantina Parau², Tatiana Tozar², Bogdan Bită², Oana Gherasim², Valentina Grumezescu², Carmen Ristoscu², Irina Neguț²

¹ Microbiology Department, Faculty of Biology, University of Bucharest, Bucharest, Romania; ² Research Institute of University of Bucharest, Bucharest, Romania

²ELI-NP, Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering, Gamma Driven Experiments Department, Magurele, Romania

12:00 - 12:15 Flow cytometric analysis of oxidative stress induced by green-synthesized TiO₂ nanoparticles

Ionela Cristina Voinea¹, Bogdan Andrei Miu¹, Miruna S. Stan¹, Anca Dinischiotu¹

¹ Department of Biochemistry and Molecular Biology, Faculty of Biology, University of Bucharest, Bucharest, Romania

12:15 - 12:30 New Perspectives in Antimicrobial Analysis: Flow Cytometry Evaluation of *Plantago major* L. Extracts Obtained by Green Methods

Ana-Maria Mocanu

"Dunărea de Jos" University, Faculty of Sciences and Environment, Domnească street, 111, Galați, Romania

12:30 - 13:30 **PRÂNZ / LUNCH**



13:30 - 14:30 **SESIUNE TINERI CITOMETRIȘTI I / YOUNG CYTOMETRISTS SESSION I**

13:30 - 13:45 Optimization of a Flow Cytometry Protocol for Characterizing the Tumor Microenvironment in Lung Cancer

*Diana Iuliana Stanciu*¹

¹Department of Biochemistry and Molecular Biology, Faculty of Biology, University of Bucharest, 050095 Bucharest, Romania

13:45 - 14:00 Repeated exposure of SVEC4-10 endothelial cells to polystyrene nanoplastics induces oxidative stress

*Anamaria-Cristina Bunea*¹, *Mihaela Balas*¹, *Madalina Andreea Badea*¹, *Teodora Borcan*¹, *Ariana Hudita*¹, *Bianca Galateanu*¹, *Anca Dinischiotu*¹

¹Department of Biochemistry and Molecular Biology, Faculty of Biology, University of Bucharest, Bucharest, Romania

14:00 - 14:15 Assessment of some oxidative stress markers in RTgill-W1 cells exposed repeatedly to polystyrene nanoparticles

*Teodora Borcan*¹, *Mihaela Balas*¹, *Anamaria-Cristina Bunea*¹, *Ariana Hudita*¹, *Bianca Galateanu*¹, *Madalina Andreea Badea*¹, *Anca Dinischiotu*¹

¹Department of Biochemistry and Molecular Biology, Faculty of Biology, University of Bucharest, Bucharest, Romania

14:15 - 14:30 Evaluation of the adipogenic initiation specific markers under thiazolidindiones stimulation

*Lea Sleiman*¹, *Sorina Dinescu*^{1,3}

¹Department of Biochemistry and Molecular Biology, Faculty of Biology, University of Bucharest, 050095 Bucharest, Romania

²Microbiology Department, Faculty of Biology, University of Bucharest, Bucharest, Romania;

³Research Institute of University of Bucharest, 050663 Bucharest, Romania

14:30 - 16:00 **ROUND TABLE – Clinical relevance of measurable residual disease (MRD) determination in BCP, Ph-negative, Acute Lymphoblastic Leukemia** | Educational session supported by Amgen

Introduction

Horia Bumbea

Spitalul Universitar de Urgență București, Romania; Universitatea de Medicină și Farmacie “Carol Davila”

How do we test MRD in ALL?

Codruța Popa

Fundeni Clinical Institute

When and why do we test MRD in ALL?

Bogdan Ionescu

Fundeni Clinical Institute

Blinatumomab for patients with BCP, MRD+ ALL

Roxana Hirjan

Fundeni Clinical Institute

16:00 - 16:15 **PAUZĂ DE CAFEA, EXPOZIȚIE, VIZIONARE POSTERE**
COFFEE BREAK, EXHIBITION, POSTERS



16:15 - 16:30 Simpozion Abbvie / Abbvie Symposium

Treatment options in DLBCL 3+L

Horia Bumbea

Spitalul Universitar de Urgență București, Romania; Universitatea de Medicină și Farmacie “Carol Davila”

16:30 – 17:45 **SESIUNE TINERI CITOMETRIȘTI II / YOUNG CYTOMETRISTS
SESSION II**

**16:30 - 16:45 Evaluation of the mechanotransduction pathways in response to
magnetic stimulation**

Alexandra Mocanu-Dobranici¹, Sorina Dinescu^{1,3}

¹Department of Biochemistry and Molecular Biology, Faculty of
Biology, University of Bucharest, Bucharest, Romania, ²Microbiology
Department, Faculty of Biology, University of Bucharest, Bucharest,
Romania; ³Research Institute of University of Bucharest, Bucharest,
Romania

**16:45 - 17:00 Investigation of the interaction between multidrug-resistant k.
Pneumoniae strains and innate immunity effectors**

*Claudiu-Natanael Roznovan¹, Isabella Buciu-Stoica¹, Georgiana
Grigore¹, Luminița Măruțescu¹*

¹Department of Botany and Microbiology, Faculty of Biology,
University of Bucharest

**17:00 - 17:15 Exploring guano microbiota: from conventional culturing to
advanced flow cytometry**

*Emilia Andreea Tănase¹, Georgiana Alexandra Grigore^{1,2,3}, Lavinia
Vasilica Manolachi¹, Virgil Drăgușin⁴, Ionuț Pecete⁵, Luminița
Măruțescu^{1,2}, Mariana Carmen Chifiriuc^{1,2,6}*

¹Faculty of Biology, University of Bucharest, Bucharest, Romania
²Research Institute of the University of Bucharest—ICUB, University
of Bucharest, Bucharest, Romania, ³National Institute of Research
and Development for Biological Sciences, Bucharest, Romania, ⁴Emil
Racoviță Institute of Speleology, Romanian Academy, Bucharest,
Romania, ⁵Synevo Central Lab Romania, Bucharest, Romania,
⁶Biological Sciences Division, Romanian Academy, Bucharest,
Romania

17:15 - 17:30 Evaluation of cymbopogon citratus volatile oil as active principle for topical formulations

Diana-Mădălina Găboreanu^{1,2,3}, Ioana Cristina Marinaș², Luminița Măruțescu^{1,2}, Mihaela Buleandră⁴, Mariana-Carmen Chifiriuc^{1,2,5}

¹ University of Bucharest, Faculty of Biology, Splaiul Independentei 91-95, București, ² Research Institute of the University of Bucharest-ICUB, 91-95 Spl. Independentei, Bucharest, Romania ³ National Institute of Research and Development for Biological Sciences, 296 Splaiul Independentei, Bucharest, Romania, ⁴ Faculty of Chemistry, Department of Analytical Chemistry, University of Bucharest, 90-92 Panduri Street, Bucharest, Romania. , ⁵ The Romanian Academy, Biological Sciences Division, Calea Victoriei 125, Bucharest, Romania

17:30 - 17:45 Rapid evaluation of bactericidal efficacy of disinfectants by flow cytometry

Andreea Pîndaru¹, Luminița Măruțescu^{1,2}, Marcela Popa^{1,2}, , Carmen Chifiriuc^{1,2}

¹ Microbiology Department, Faculty of Biology, University of Bucharest, Bucharest, Romania;

² Research Institute of University of Bucharest, Bucharest, Romania

**17:45 - 18:15 ADUNAREA GENERALĂ ACR / GENERAL ASSEMBLY OF RAC
ÎNCHIDERE CONGRES / CLOSING CEREMONY**

SESIUNE E-POSTER / E-POSTER SESSION

ALPHA SYNUCLEI DETECTION IN PARKINSON'S DISEASE: IMMUNOHISTOCHEMISTRY VS. FLOW CYTOMETRY ON PBMCS

Isac Maria Crina

Universitatea Alexandru Ioan Cuza Iași

PHENOTYPIC AND FUNCTIONAL CHARACTERISTICS OF NK CELLS FROM MICE WITH LUNG METASTASES

Gheorghita Isvoranu¹, Mihaela Surcel¹, Adriana Narcisa Munteanu¹, Ana-Maria Enciu¹, Marioara Chirițoiu-Butnar², Gabriela Chirițoiu², Cristian Munteanu², Monica Neagu¹

¹„Victor Babeș” National Institute of Pathology, Bucharest, Romania

²Institute of Biochemistry of the Romanian Academy, Bucharest, Romania



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