



**Institutul Național de Cercetare-Dezvoltare
în Domeniul Patologiei și Științelor Biomedicale
„VICTOR BABEȘ”
www.ivb.ro**

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**INTERNATIONAL PATHOLOGY CONFERENCE
OF THE „VICTOR BABEȘ” INSTITUTE
BUCHAREST**

2 – 4 November 2023



Splaiul Independenței 99-101, București, România

**INTERNATIONAL PATHOLOGY CONFERENCE OF THE „VICTOR BABEȘ” INSTITUTE
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SCIENTIFIC PROGRAMME

Thursday 2, November 2023	
9:30	Registration
10:00-11:00	Conference opening
11:00-11:15	Coffee break
11:15-13:15	<p>Session 1: `Victor Babeș` National Institute of Pathology - research news Session Chair – Prof. Mihail Eugen Hinescu</p> <ul style="list-style-type: none"> - Molecular approaches in tumoral 3D models gene-edited by the CRISPR/Cas9 method in the development of solutions for personalized medicine in cancer. Elena Codrici - Impact of high fat diet on phenotype and function of Natural Killer cells. Gheorghita Isvoranu - Inflammation-redox crosstalk in Alzheimer's diseases. Elena Milanesi - Assessment of EGFR-RAS-RAF pathway mutation status in healthy skin, benign nevi, and cutaneous melanomas – evaluation using droplet digital PCR. Monica Neagu - Rare genetic variants in brain heterotopia - results of an ERA NET E-RARE collaboration. Aurora Arghir
13:15-14:15	Lunch time
14:15-15:15	<p>Molecular Aspects of Mesothelioma Keynote Lecture - Victor Babeș Honorary Scientist Award Lucian R. Chiriac Brigham And Women's Hospital Professor of Pathology, Harvard Medical School, Boston, MA, USA</p>
15:15-15:30	Coffee break
15:30-15:45	<p>AxioScan, latest technology Sommer KIEREN, Carl Zeiss Microscopy GmbH. (S)</p>
15:45-17:45	<p>Session 2: Short communication - Young Pathologists Session Chair – Adelina Cohn</p> <ul style="list-style-type: none"> - Prognostic Histopathological Factors in Thick Cutaneous Melanomas. Dana Țăpoi, Emergency Clinical Hospital Bucharest, Romania - Diagnostic and reporting challenges in papillary thyroid carcinoma developing in thyroglossal duct cyst. Antonia-Carmen Georgescu, Nephrology Clinical Hospital `Dr. Carol Davila`, Bucharest, Romania - Tumor immune microenvironment in lung carcinoma. Florina Almarii, Fundeni Clinical Institute, Bucharest, Romania

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	<ul style="list-style-type: none"> - The clinicopathological spectrum of triple-negative breast cancer. Tiberiu Augustin Georgescu, `Alessandrescu- Rusescu` National Institute for Mother and Child Health, Bucharest, Romania - Peripheral neuroblastic tumors diagnosis and prognostic factors in the new WHO blue book on pediatric tumors. Oana Neagu, `Grigore Alexandrescu` Emergency Clinical Hospital for Children, Bucharest, Romania - A practical approach in challenging `spitzoid` melanocytic lesions based on IHC panels. Adelina Baltan, Poundbury Cancer Institute for Personalized Medicine, Dorchester, UK
18:00	Opening ceremony – Victor Babeș Library

Friday 3, November 2023

	Victor Babeș amphitheater	Ioan Moraru amphitheater
09:00 11:00	<p>Session 3: Updates in Immunology Session Chair – Monica Neagu</p> <ul style="list-style-type: none"> - Combining immunotherapy with radiology, new pathways of research supported by particles provided by the high-power laser system at ELI-NP. Klaus Michael Spohr, School of Computing, Engineering and Physical Sciences, University of the West of Scotland; Extreme Light Infrastructure & Horia Hulubei National Institute for RD in Physics and Nuclear Engineering, Romania - Enabling further breakthroughs in immunotherapy via interdisciplinary collaborations to enhance therapeutic monitoring capabilities. Marius Jurca, Extreme Light Infrastructure – Nuclear Physics, `Horia Hulubei` National RD Institute for Physics and Nuclear Engineering; Engineering and Applications of Lasers and Accelerators Doctoral School, University Politehnica of Bucharest, Bucharest, Romania; ALSITEC srl, Haguenau, France - CAR-T and CAR-NK cells in cancer immunotherapy. Florina Bojin, `Victor Babeș` University of Medicine and Pharmacy Timișoara; Center for Gene and Cellular Therapies in Cancer – OncoGen, `Pius Brînzeu` Clinical County Emergency Hospital Timișoara, Romania - Characterization of donor-specific alloreactive CD4+ and CD8+ cellular immune T cell responses in the lung allograft and blood in lung transplant recipients. Iulia Dana Popescu, Pittsburgh University, Pittsburgh. 	<p>Session 4: Genomics and Proteomics - two facets of multi-omics in health care and research Session Chairs - Cristiana Tanase, Aurora Arghir</p> <ul style="list-style-type: none"> - Genomics and Metagenomics involved in Neurodevelopmental disorders: Fragile X syndrome and Autism Spectrum Disorders, Yolanda de Diego Otero, Biomedical Research Institute of Málaga-IBIMA, Malaga Regional University Hospital, Spain - Personalized tumor models reveal mechanisms of glioblastoma immunosuppressive microenvironment and therapy resistance. Barbara Breznik, MPharm, Cancer Biology Group Leader National Institute of Biology Department of Genetic Toxicology and Cancer Biology, Ljubljana, Slovenia - Microphysiological Systems as Disease Models Devrim Pesen Okvur, Izmir Institute of Technology www.iyte.edu.tr Initio Cell BV www.initiocell.com. Turkey. - The Impact of Radiation on Cancer - Associated Fibroblasts in Head-and-Neck Cancer. Marleen Ansems, Radiotherapy & Oncology Immunology Laboratory, Department of Radiation Oncology, Radboud University Nijmegen, The Netherlands - COST CA21135 - IMMUNO-model - WG1: In vitro and ex vivo cancer immunotherapy models – establishing basic protocols for immunotherapy response evaluation.

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	<ul style="list-style-type: none"> - From high field to Earth field. Nuclear Magnetic Resonance spectroscopy methods to study the microglia and glioblastoma cells. Ioana Fidel, Extreme Light Infrastructure – Nuclear Physics (ELI-NP), `Horia Hulubei` National R&D Institute for Physics and Nuclear Engineering; Interdisciplinary School of Doctoral Studies, University of Bucharest, Romania - Personalized vaccines in cancer – present and future directions. Virgil Păunescu, `Victor Babeș` University of Medicine and Pharmacy Timișoara; Center for Gene and Cellular Therapies in Cancer – OncoGen, `Pius Brînzeu` Clinical County Emergency Hospital Timișoara, Romania - COST CA21135 - IMMUNO-model - WG3: Solid tumors - models to study immunotherapy efficacy and toxicity in solid tumors, and validate biomarkers to monitor these effects. Marleen Ansems, Radiotherapy & Oncolmunology Laboratory, Department of Radiation Oncology, Radboud University Nijmegen The Netherlands 	<p>Devrim Pesen Okvur, Izmir Institute of Technology, Turkey</p>
11:00 11:15	Coffee break	
11:15 12:45	<p>Session 5: Short communication - Biomedical research</p> <p>Session Chair – Dr. Gheorghita Isvoranu</p> <ul style="list-style-type: none"> - Plasma microRNAs as predictors of post acute myocardial infarction ventricular remodeling. Ioan Ovidiu Sirbu, `Victor Babeș` University of Medicine and Pharmacy, Timișoara, Romania - NK cell memory in unconventional models. Orhan Rashid, Sir Henry Wellcome Fellow School of Infection and Immunity, University of Glasgow, UK - Drug repurposing screening for anti-inflammatory molecules. Marioara Chirițoiu-Butnaru, Institute of Biochemistry of the Romanian Academy Bucharest, Romania - Experimental studies of immunization against hepatitis B and C. Crina-Georgeta Stăvaru, `Cantacuzino` Medical Military National Research and Development Institute Bucharest, Romania - Methionine oxidation selectively enhances T cell reactivity against a melanoma antigen. 	<p>Session 6: Cardiovascular pathology</p> <p>Session Chair – Elisa Anamaria Liehn</p> <ul style="list-style-type: none"> - Reducing diabetic macrovascular complications due to peripheral arterial disease. Gustavo Crespo-Avilan, Duke National University of Medicine, Singapore - ND-13, a small DJ-1 derived peptide as a novel treatment for mitoprotection in acute myocardial infarction. Sauri Hernandez-Resendiz, National Heart Centre Singapore - The role of Phosphatidylserine oral supplementation in vascular regeneration. Dan Valentin Pistritu, University of Medicine and Pharmacy `Carol Davila` Bucharest, Romania - 3D Tissue Reconstruction from 2D histology slides for the study of the extracellular matrix. Victor Ungureanu, University of Medicine and Pharmacy `Carol Davila` Bucharest, Romania

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	<p>Gabriela Chirițoiu, Institute of Biochemistry of the Romanian Academy Bucharest, Romania</p> <ul style="list-style-type: none"> - Chrysin-Based Supramolecular Cyclodextrin-Calixarene Drug Delivery System: A Novel Approach for Attenuating Cardiac Fibrosis in Diabetes. Anca Hermenean, `Vasile Goldiș` Western University of Arad, Romania 	
12:45 13:15	<p>Automated Solutions for Advancing Protein and Cell Biology Discovery. Sylvia De Bruin, Imaging specialist Molecular Devices. (S)</p>	<p>Pathologist centric case and image management system. Ákos Ágyi, PhD, Product Manager 3Dhistech, Budapest, Hungary (S)</p>
13:15 14:00	Lunch time	
14:00 15:00	<p>Keynote Lecture: Epigenetic regulation of therapy response in cancers</p> <p>Prof. Tugba Bagci Onder, PhD Professor in Medical Biology, Brain Cancer Research and Therapy Laboratory, Koç University School of Medicine, Istanbul, Turkey</p>	
15:00 16:30	<p>Session 7: Nephropathology Session Chairs – Mihaela Gherghiceanu</p> <ul style="list-style-type: none"> - What's new in antibody-mediated rejection of the kidney graft after the 2022 Banff meeting? Bogdan Sorohan, Fundeni Clinical Institute Bucharest, Romania - Precise composition and localization of the inflammatory burden of 125 kidney transplant rejections: determinants and prognosis impact. George Terinte-Balcan, Hôpital Universitaire Necker, Paris, France - Old and new in IgA nephropathy. Mihaela Gherghiceanu, `Victor Babeș` National Institute of Pathology, Bucharest, Romania 	<p>Session 8: Neurosciences Session Chair – Bogdan O. Popescu</p> <ul style="list-style-type: none"> - Modulation of TRPM8 function by the prostacyclin receptor: involvement of Gq/11 proteins. Alexandru Babeș, University of Bucharest, Romania - Modeling human de novo heterozygosity using mosaic gene dosage differences in mice. Tudor Badea, Transilvania University of Brasov, Romania - Vascular and glial changes in the brain of patients with SARS-CoV-2 infection. Daniel Pirici, University of Medicine and Pharmacy of Craiova, Romania
16:30 16:45	Coffee break	
16:45 18:15	<p>Session 9: Next generation pathology Session Chair – Octavian Bucur</p> <ul style="list-style-type: none"> - Digital Pathology for cervical cancer screening in low and middle income countries. Rajan Dewar, Vice-Chair, New York Medical College, New York, USA - Digital Pathology in automating hematology workflow - AI in peripheral smear and bone 	<p>Session 10: Muscle pathology Session Chair – Laura Cristina Ceafalan</p> <ul style="list-style-type: none"> - Intellectual disability in Duchenne muscular dystrophy; Considerations on a clinical case. Magda Budișteanu, Clinical Hospital of Psychiatry `Prof.Dr. Al. Obregia` Bucharest, Romania

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	<p>marrow cell classification. Sayed Shahabuddin Hoseini, Westchester Medical Center. New York, USA and Rajan Dewar, New York Medical College, New York, USA</p> <p>- Classification of Early Breast Neoplastic Lesions using Deep Learning and Expansion Pathology. Victor Ungureanu, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania</p>	<p>- Pathological aspects and classification criteria of inflammatory myopathies. Alexandra Bastian, `Carol Davila` University of Medicine and Pharmacy Bucharest, Romania</p> <p>- Idiopathic inflammatory myopathies - particular aspects in children. Niculina Butoianu - Clinical Hospital of Psychiatry `Prof.Dr. Al. Obregia`, Pediatric Neurology Bucharest, Romania</p> <p>- The involvement of PARKIN in the skeletal muscle phenotype in Parkinson's disease. Emilia Manole, `Victor Babeș` National Institute of Pathology, Bucharest, Romania</p> <p>- Nicotinamide Mononucleotide (NMN) effects in Type 2 Diabetes muscle: A Deep Proteomics Study. George Cătălin Marinescu, Independent Research Association Bucharest, Romania</p>

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Saturday 4, November 2023

09:00-11:00	<p>Course – Electron microscopy for study and diagnosis of viruses</p> <p>Mihaela Gherghiceanu, Emanuel Fertig, `Victor Babeș` National Institute of Pathology, Bucharest, Romania</p>
11:00-11:15	Coffee break
11:15-12:30	<p>Session 11: Short communication - young researchers</p> <p>Best Presentation Award - Motic optical microscope</p> <p>Session Chairs – Ana-Maria Enciu & Emanuel Fertig</p> <ul style="list-style-type: none"> - In vitro reconstitution of human RQT dependent ribosome dissociation reaction. Leona Chițoiu, Beckmann Lab, Gene Center, Ludwig-Maximilians-Universität, München, Germany - In vitro generation of functional melanoma models by CRISPR-Cas9 gene editing technology coupled with lentiviral transduction. Elena Georgiana Dobre, `Victor Babeș` National Institute of Pathology, Bucharest, Romania - Impact of gut microbial molecules on the onset of Parkinson's disease – an in vitro study. Octavian Ioghen, `Victor Babeș` National Institute of Pathology, Bucharest, Romania
12:30 - 13:00	<p>Session 12: Short communication - students</p> <p>Session Chairs – Ana-Maria Enciu & Emanuel Fertig</p>

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	<ul style="list-style-type: none"> - Anti-tumor potential of novel synthesized thiosemicarbazide derivatives. Antonia Maria Stroe, University of Medicine and Pharmacy `Carol Davila`, Faculty of Pharmacy, Bucharest, Romania - Biological activities of two plant extracts rich in isoflavones -In vitro investigation on breast adenocarcinoma cell line. Ana Maria Cirjan, University of Medicine and Pharmacy `Carol Davila`, Faculty of Pharmacy, Bucharest, Romania
13:00 - 14:00	Lunch time
14:00- 15:30	<p>Communication (K)now Session Chairs – Prof. Dan Anton Vasiliu, unatc.ro</p> <ul style="list-style-type: none"> - Andreea-Diana Jicman. Îmbunătățirea abilităților de relaționare și comunicare prin joc teatral la copiii și tinerii defavorizați / Improvement of the relational and communication skills through theatrical play in disadvantaged children and youth - Ana Maria Victoria Vicovan. Facilitarea jocurilor teatrale pentru copiii spitalizați: de la izolare la exprimare / Facilitating theatrical games for hospitalized children: from isolation to expression - Adelina Dobrea. Dezvoltarea competențelor de comunicare la tinerii refugiați. Jocul teatral - limbaj universal de comunicare / Developing communication skills in young refugees. Theatrical play - universal language of communication - Andreea-Diana Jicman, PhD, Georgiana Adelina Dobrea, Ioana-Mădălina Lixândroaia, Ana Maria Victoria Vicovan. Intervenție prin teatru pentru alfabetizarea emoțională și optimizarea abilităților de comunicare la tinerii aflați în situații de risc / Theater intervention for emotional literacy and optimization of communication skills in young people at risk
15:30- 15:45	Closing remarks

Conference info: <https://www.ivb.ro/international-pathology-conference>
e-mail: ipc@ivb.ro.

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