



16th INTERNATIONAL CONGRESS OF HISTOCHEMISTRY AND CYTOCHEMISTRY

28 - 31 August 2022
Prague, Czech Republic



Organized in cooperation of the International Federation of Societies for Histochemistry and Cytochemistry (IFSHC) and Society for Histochemistry (SfH)
Local organizer: Prof. Pavel Hozak, Secretary of the Society for Histochemistry



COMPLETE PROGRAM

Sunday 28/8/2022

From 14.00	ARRIVALS & REGISTRATION (1 st floor)	
17.30 CONFERENCE HALL A + B	OPENING CEREMONY Welcome by Hinke Mulhaupt, the IFSHC president and Klara Weipoltshammer, the SfH president	
18.00 CONFERENCE HALL A + B	PLENARY LECTURE Toyoshi Fujimoto, Juntendo University, Tokyo, Japan New Roles of Lipid Droplets: A Histochemical Journey	SESSION CHAIR: Hinke Mulhaupt
From 19.00 LORETA I+II	WELCOME RECEPTION	



















Monday 29/8/2022

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<p>From 09.00</p> <p>09.00-09.25</p> <p>09.25-09.50</p> <p>09.50-10.05</p> <p>10.05-10.20</p> <p>10.20-10.45</p> <p>CONFERENCE HALL A</p>	<p> Structure of the cell, tissues and pathogenesis</p> <p>Vilmos Péter, Biological Research Centre Szeged, Hungary (INVITED) Parallel import mechanisms ensure the robust nuclear localization of actin in Drosophila</p> <p>Masahiko Harata, Tohoku University, Japan Crosstalks between actin and actin-related proteins in nuclear organization and functions</p> <p>Martin Sztacho, Institute of Molecular Genetics, Czech Republic Molecular insight into the mechanism of nuclear PIP2 regulation of RNA Polymerase II transcription</p> <p>Christian Schöfer, Medical University of Vienna, Austria Anti-cancer drug CX-5461 causes nucleolar compaction, alteration of peri- and intranucleolar chromatin arrangement, an increase in both heterochromatin and DNA damage response</p> <p>Ciler Celik Ozenci, Koc University, Turkey (INVITED) Effects of maternal circadian rhythm disruption on maternal, fetal, placental, and offspring health: Disintegrating early causal pathways of IUGR in a life-course perspective</p>	<p>SESSION CHAIR: Masahiko Harata</p>
<p>From 09.00</p> <p>09.00-09.25</p> <p>09.25-09.50</p> <p>09.50-10.05</p> <p>10.05-10.20</p> <p>10.20-10.35</p> <p>10.35-10.50</p> <p>CONFERENCE HALL B</p>	<p> Cancer biology</p> <p>Nihal Karakas, Istanbul Medipol University, Turkey (INVITED) Biomarker Studies for the Diagnosis and Therapy of Glioblastoma Brain Tumor</p> <p>Karel Smetana, First Medical Faculty, Charles University, Czech Republic (INVITED) Cancer-associated fibroblasts shape the tumour microenvironment and systemic properties of cancer</p> <p>Mitrajit Ghosh, Nencki Institute of Experimental Biology, PAS, Poland Defining the microenvironment of murine malignant gliomas with multiplex immunohistochemistry and spatial transcriptomics</p> <p>Alessia laiza, Sapienza, University of Rome, Italy METTL3 contribution to cell proliferation in Thymic Epithelial Tumor Cells</p> <p>Phyu Synn Oo, International Medical University, Malaysia Combined effect of Mitochondrial division inhibitor 1 (Mdivi-1) and oestrogen receptor antagonist (Fulvestrant) in ER-positive breast cancer cells</p> <p>Natalia Glatzel-Plucinska, Wrocław Medical University, Poland SATB1 protein as a new target for breast cancer immunotherapy with the use of adoptive T cells transfer</p>	<p>SESSION CHAIRS: Karel Smetana Marco Biggiogera</p>

10.50	 Coffee break <small>SUPPORTED BY: <i>DIATOME</i></small>	
11.20	 PLENARY LECTURE Robert Feulgen lecture Ohad Medalia, University of Zurich, Switzerland From actin to lamins by in situ structural biology	SESSION CHAIR: Klara Weiplotshammer
CONFERENCE HALL A + B		
12.20	 Lunch break	
13.20	 PLENARY LECTURE Bozena Kaminska, Nencki Institute of Experimental Biology, PAS, Poland Dissecting heterogeneity and roles of brain macrophages in brain tumors: when guardians turn enemies	SESSION CHAIR: Zbigniew Kmiec
CONFERENCE HALL A + B		
14.20	 COMPANY PRESENTATION 	
CONFERENCE HALL A + B		
14.50	 Coffee break <small>SUPPORTED BY: <i>DIATOME</i></small>	
15.20	 Meet the Histochemical Society Margarida Barroso, Albany Medical College, USA Multiscale Imaging of Receptor Transport: Super-Resolution To Optical Imaging Joseph L. Cheatwood, SIU School of Medicine, USA Immunohistochemistry as a Tool for Student-led and Collaborative Neuroscience Research A. Sally Davis, Kansas State University, USA Insights about Rift Valley Fever gleaned from formalin-fixed, paraffin-embedded tissues	SESSION CHAIR: Liliana Schaefer SESSION ORGANIZER 
15.20-15.45		
15.45-16.10		
16.10-16.35		
CONFERENCE HALL A + B		
From 19.00 to 22.00	 BEER PARTY at the Strahov Monastery Brewery Social program & Networking (free for all ICHC participants)	<small>SUPPORTED BY:</small> 

<p>From 9.00</p>	<p> Sample processing, probes, histopathology and quantitative approaches (PART 1)</p>	<p>SESSION CHAIR: Vlada Filimonenko</p>
<p>09.00-09.25</p>	<p>Christian Mühlfeld, Hannover Medical School, Germany (INVITED) Robert Feulgen Prize Awardee of 2020</p>	
<p>09.25-09.40</p>	<p>3D methods of analyzing the pulmonary vasculature and their application to studies of lung development</p> <p>František Kitzberger, Biology Centre, Czech. Acad. Sci., Czech Republic</p>	
<p>09.40-09.55</p>	<p>Powerful method for simultaneous visualization and differentiation of Au nanoparticles on both sides of the ultrathin sections using low-energy STEM and BSE in HRSEM</p> <p>Peter Hoboth, Institute of Molecular Genetics, Czech Republic</p>	
<p>09.55-10.10</p>	<p>Claudio Casali, Università degli Studi di Pavia, Italy</p> <p>Oxidative DNA damage on the Cell Nucleus: an Ultrastructural and Super-Resolution Approach for Epigenetics Insights</p>	<p>SESSION ORGANIZER </p>
<p>CONFERENCE HALL A</p>		
<p>From 9.00</p>	<p> Cell physiology, immunology and infectious diseases</p>	<p>SESSION CHAIR: Luca M. Neri</p>
<p>09.00-09.25</p>	<p>Lucio Cocco, University of Bologna, Italy (INVITED)</p> <p>Inositide-specific phospholipase C (PI-PLC) β1 signalling and location: a thirty five years tale</p>	
<p>09.25-09.50</p>	<p>Luca M. Neri, University of Ferrara, Italy (INVITED)</p> <p>Microplastic uptake within human cells is time and dose dependent and displays a specific intracellular distribution</p>	
<p>09.50-10.15</p>	<p>Carolina Simioni, University of Ferrara, Italy (INVITED)</p> <p>Assessment of the morphological tissue features of placental and vascular samples after SARS-CoV-2 infection</p>	
<p>10.15-10.30 CONFERENCE HALL B</p>	<p>Joanna Nowak, Medical University of Gdansk, Poland</p> <p>VDR, RXR, and PDIA3 in vitamin D functioning</p>	
<p>10.30</p>	<p> Coffee break</p>	
<p>11:00</p>	<p> PLENARY LECTURE</p> <p>Alev Erisir, University of Virginia, USA</p> <p>Serial EM Image Reconstructions in Studying Selectivity and Network Properties of Synaptic Inputs</p>	<p>SESSION CHAIR: Serap Arbak</p>
<p>CONFERENCE HALL A + B</p>		



12.00	 Lunch break	
13.00	 PLENARY LECTURE Acta Histochemica et Cytochemica lecture	SESSION CHAIR: Toyoshi Fujimoto
CONFERENCE HALL A + B	Robert Y. Osamura, Nippon Koukan Hospital, Japan Fifty enchanted years of my life with histochemistry	
13.45	 POSTER SESSION: list of posters TBA SEMINAR ROOM CRACOW I+II	
15.15	 Coffee break	
15.45	 Immunocytochemistry workshop: 'Just Do It Right'	SESSION CHAIR: Charles Frevert
15.45-16.10 (REMOTE)	Stephen Hewitt, National Cancer Institute, USA Pre-analytic Variables: Addressing Biology and Reproducibility in Histopathology	
16.10-16.35	Frank Peale, Genentech, Inc., USA Synthetic Antigen Gels: Quantifiable Controls for Immunohistochemistry	
16.35-17.00	Charles Frevert, University of Washington, USA Morphometric Analysis of Healthy and Diseased Tissues using Immunohistochemistry, In Situ Hybridization, and Quantitative Digital Pathology (QDP)	SESSION ORGANIZER 
CONFERENCE HALL A + B		
From 19.00 to 22.00	 GALA DINNER at the Municipal House Social program & Networking (with fee upon reservation)	

From 9.00	 Neuroscience	SESSION CHAIRS: Bozena Kaminska Lucio Cocco
09.00-09.25	Michal Stawarski, University of Basel, Switzerland (INVITED) Functional characterization of monoallelic de novo GABAB receptor variants identified in neurological and psychiatric disorders	
09.25-09.50	Monika Bijata, Nencki Institute of Experimental Biology, PAS, Poland (INVITED) Activation of the 5-HT7 receptor and MMP-9 signaling module in the hippocampal CA1 region is necessary for the development of depressive-like behavior	
09.50-10.15	Diego Clemente, Hospital Nacional de Paraplégicos, Spain (INVITED) Morphofunctional characterization of Myeloid-Derived Suppressor Cells in multiple sclerosis: from blood to brain	
10.15-10.30	Stefano Ratti, University of Bologna, Italy The intriguing role of astrocytes in Autosomal-dominant leukodystrophy (ADLD)	
10.30-10.45	Esra Nur Yigit, Istanbul Medipol University, Turkey Correlative Light and Electron Microscopy of Mutant Huntingtin Aggregate Formation and its Relationship with Subcellular Components	
CONFERENCE HALL A		
From 9.00	 Sample processing, probes, histopathology and quantitative approaches (PART 2)	SESSION CHAIR: Romina Mancinelli
09.00-09.30 (REMOTE)	Takehiko Koji, Nagasaki University Grad. Sch. of Biomed. Sci., Japan (INVITED) Histochemistry and Cell Biology (HCB) Lecture Differentiation-Dependent Changes in Epigenetic Factors in Mouse Spermatogenesis and Their Possible Relations to Germ Cell Apoptosis	
09.30-09.45	Katherine Paine, University of York, United Kingdom (Young Histochemist Awardee) Using microscopy to understand molecular trafficking of cell surface proteins	
09.45-10.00	Dmitrii Atiakshin, Peoples' Friendship University of Russia, Russian Federation Combined histochemical approach in assessing naphthol AS-D chloroacetate esterase activity of mas	
10.00-10.15	Elisa Boschetti, University of Bologna, Italy Altered microvasculature in idiopathic chronic intestinal pseudo-obstruction: a quantitative morphometric and molecular analysis	
10.15-10.30	Vlada Filimonenko, Institute of Molecular Genetics, Czech Republic Faster Cryo TEM lamella preparation using optimised conditions and advanced workflows	
10.30-10.45	Ludovica Ceci, Sapienza University of Rome, Italy Long term effects of melatonin on cholestatic murine model	
CONFERENCE HALL B		SESSION ORGANIZER 

10.45		Coffee break	
11.15 CONFERENCE HALL A + B		COMPANY PRESENTATION 	
11.45		Stem cell biology and regenerative medicine & Cell differentiation and developmental biology	SESSION CHAIR: Christian Schöfer
11.45-12.10		Roberta Di Pietro, G. d'Annunzio University of Chieti-Pescara, Italy	(INVITED)
		Mapping of the Human Amniotic Membrane: Identification of Functionally Distinct Subregions Useful for Regenerative Medicine Applications	
12.10-12.35		Sercin Karahuseyinoglu, Koc University School of Medicine, Turkey	(INVITED)
		Application of Genome Edition Technology in Reproductive and Developmental Biology	
12.35-12.50 CONFERENCE HALL A + B		Alexander Dulebo, Bruker Nano GmbH, JPK BioAFM, Germany	
		Application of Large Area Mapping AFM for Automated Structural and Mechanical Analysis of Developing Cells and Tissues	
12.50		Lunch break	
13.50 CONFERENCE HALL A + B		KEYNOTE LECTURE David Glick Award lecture	SESSION CHAIR: Pavel Hozak
		Stefan Hell, Max Planck Institute for Biophysical Chemistry, Germany	
		MINIFLUX nanoscopy and related matters	
14.50		YOUNG HISTOCHEMIST AWARD SESSION	SESSION CHAIR: Roberta Di Pietro
14.50-15.05		Maria Vittoria Marvi, University of Bologna, Italy	
		Phospholipases: novel potential modulators of aggressiveness in Glioblastoma	
15.05-15.20 CONFERENCE HALL A + B		Mohammed Khrushed, Amsterdam UMC, Netherlands	
		Metabolic vulnerabilities in IDH1/2-mutated solid tumours as basis for a phase IB/II clinical trial using metformin and chloroquine	

<p>15.20-15.35</p>	<p>Katerina Cizkova, Palacky University in Olomouc, Czech Republic Effect of Heat-induced Antigen Retrieval in Immunocytochemical Staining in Alcohol-fixed Cell Samples: Subcellular Localization of Antigens Matters</p>
<p>15.35-15.50</p>	<p>Wioletta Zielinska, Nicolaus Copernicus University, Poland TRPM2 calcium channel as a target for the prevention of endothelial dysfunction caused by oxidative stress</p>
<p>15.50-16.05</p>	<p>Selenay Furat Rencber, Kocaeli University, Turkey Endoplasmic Reticulum (ER) Stress of Endometrial Stem Cells in Endometriosis</p>
<p>16.05 CONFERENCE HALL A + B</p>	<p> CLOSING CEREMONY ICHC 2022 conclusion by the IFSHC representatives</p>

