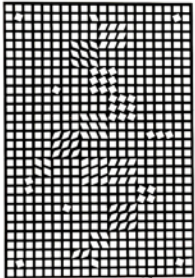




11th

ISCTICO - HUPHAR-IUPHAR CONFERENCE

OCTOBER 27-30, 2021
PÉCS, HUNGARY



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11th ISCTICO

11th INTERNATIONAL SYMPOSIUM ON
CELL/TISSUE INJURY AND CYTOPROTECTION/
ORGANOPROTECTION (ISCTICO),

JOINT MEETING OF THE HUNGARIAN SOCIETY
FOR EXPERIMENTAL AND CLINICAL
PHARMACOLOGY (HUPHAR)
AND THE INTERNATIONAL UNION OF BASIC
AND CLINICAL PHARMACOLOGY (IUPHAR)

PROGRAM

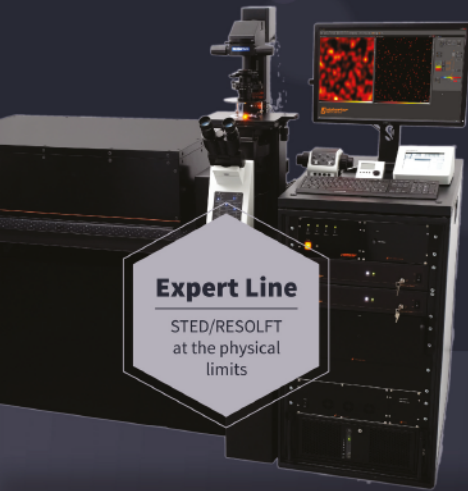


HUPHAR
Hungarian Society for Experimental
and Clinical Pharmacology



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Superresolution STED microscopy from its inventors



Expert Line

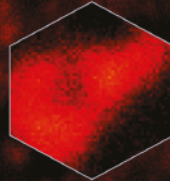
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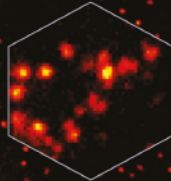


*„There are many reasons
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... should be a STED“.

Stefan W. Hell, Nobel Laureate in Chemistry 2014



1 μm

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Welcome

The 11th International Symposium on Cell/Tissue Injury and Cytoprotection/Organoprotection (ISCTICO), joint meeting with the IUPHAR GI Section and the Hungarian Society for Experimental and Clinical Pharmacology (HUPHAR) will be hosted by the University of Pécs, Hungary, between October 27-30, 2021 in the Episcopal Granary Visitor Center in Pécs, Hungary.

The Symposium follows a range of internationally acknowledged and highly successful series held in Heidelberg (1986), Boston (2000), Long Beach (2006, 2008), Yalta (2011), St. Petersburg (2011), Honolulu (2012), Budapest (2014), Krakow (2016), and recently in Kyoto (2018).

The history of ISCTICO originates from Andre Robert's concept of 'gastric cytoprotection', which led to extensive investigations in the area of tissue/cytoprotection. The Symposia provided an international forum for discussing the most recent findings on mechanisms, pathogenesis, manifestations and prevention of gastric mucosal lesions. We are happy to organize the meeting with on-site attendance with about the 20 international experts of different fields of cyto-organoprotection from 12 countries in spite of the difficulties for travel due to Covid-19 pandemic. Some international speakers will give their talk online.

For the first time in the history of ISCTICO it will be hosted together with the annual conference of the Experimental Section of the Hungarian Society for Experimental and Clinical Pharmacology (HUPHAR). Therefore, besides having an insight into the advancements in gastrointestinal mucosal injury and protection, further topics on the mechanisms of cardioprotection, ischaemia/reperfusion injury, neuroprotection, with special focus on mediators such as neuropeptides, gas and purine mediators as well, are also included in the scientific program.

It is our pleasure to welcome scientists in Pécs, the mediterranean capital of Hungary with a splendid historical city center that dates back over 2000 years. We hope that the conference will provide an excellent forum to present novel findings, exchange ideas in form of oral as well as poster presentations. We wish all participants a very pleasant stay, we hope that the exciting scientific as well as social program of the symposium will make your visit unforgettable in Pécs, Hungary.

Prof. Dr. Zsuzsanna Helyes
Chair of the Symposium

Prof. Dr. Klára Gyires
Co-Chair of the Symposium

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Play and win!

Collect the 8 different exhibitor's stamp and participate in the raffle!
Hand over the fully completed stamp collection at the registration desk
to participate in the raffle on October 30, 2021 at 15:30.
The prizes are offered by the exhibiting companies.

General information

Date: 27-30 October, 2021
Location: Pécs, Hungary
Venue: Episcopal Granary Visitor Centre,
GPS: 46.07908489419033, 18.222367668005273
Address: H-7621 Pécs, Dóm square 2.

Registration Desk

The registration desk is located on the Entrance level of the Episcopal Granary Visitor Center.

Opening hours:

Wednesday	12:00 - 17:00
Thursday	8:00 - 17:00
Friday	8:00 - 16:00
Saturday	8:00 - 12:00

Conference Badge

Once collected, please ensure you wear your badge at all time during the conference. The Cathedral and its Lookout Tower can be visited for free during the conference, by showing your badge at the entrance.

WiFi

network: PEM-Conference password: Puspokseg1009

Photography

During the event photos will be taken. If you do not wish to be included in the recordings, please request your cancellation indicate with your name and signature at the time of registration.

Registration fee includes the following services:

admission to all scientific program, digital program booklet, coffee breaks, wine- and cheese tasting during poster sessions, lunches on October 28, 29, 30, Welcome Dinner on October 27.

HSEV Section

Registration fee for HSEV section includes participation only at the HSEV section, on 29 October at 11:00-12:30.

Parking is available in the parking lot in front of the west and south gates of the Cathedral, but due to the limited number of spaces, we recommend arriving on foot or by taxi. Volán taxi: +72 333 333

Social programs

Welcome Reception

Wednesday, October 27, 2021, 18:00-21:00

Enjoy a visit and organ concert at the Cathedral of Pécs, followed by a buffet dinner at the restaurant of the Episcopal Granary Visitor Center (conference venue). *Welcome reception is included in the registration fee for individuals and students.*

Gala Dinner

Thursday, October 28, 2021, 19:00-24:00

Venue: Palatinus Grand Hotel (7621 Pécs, Király utca 5.)

Program: buffet dinner with live party music

Meeting point: reception of Palatinus Grand Hotel

Optional program, pre-registration and ticket is needed.

Participation fee: 17 000 HUF

Dinner at Fritz Wine Estate (Szekszárd)

Friday, October 29, 2021, 18:30-24:00

Program: bustransfer to the Historical Wine Region near Szekszárd (60 km from Pécs), wine-tasting with classic Hungarian dinner, music, bustransfer back to Pécs. Meeting point: entrance of the conference venue. Please arrive on time, because of the bus transfer.

Optional program, pre-registration and ticket is needed.

Participation fee: 22 000 HUF

Lunch

Thursday, October 28, 2021, 12:55 - 14:00

Friday, October 29, 2021, 12:35 - 13:35

Saturday, October 30 2021, 12:35 - 13:35

Venue: restaurant of the Episcopal Granary Visitor Center (conference venue)

Lunches are included in the registration fee for the registered participants

Coffee for lunch can be requested at the restaurant's counter and in the Café on the ground floor.

27th October 2021

13:00-13:15 Opening ceremony	
13:15-13:45 Plenary lecture	
	<p>Michael Spedding (<i>Secretary General, IUPHAR and President of Spedding Research Solutions, Paris, France</i>)</p> <p>The underappreciated but essential role of glycosphingolipids in ageing, motorneurone disease, Parkinson's disease – and viral infections. New therapies</p> <p>Chair</p> <p>Péter Ferdinandy (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University, Faculty of Medicine, Budapest, Hungary</i>)</p>
13:45-15:15	<p>S1 - Gas mediators, antioxidants and growth factors in cyto / organoprotection</p> <p>Chairs</p> <p>Erika Pintér (<i>Department of Pharmacology and Pharmacotherapy, University of Pécs, Medical School, Pécs, Hungary</i>)</p> <p>Michael Spedding (<i>Secretary General, IUPHAR and President of Spedding Research Solutions, Paris, France</i>)</p>
13:45	<p>Lóránd Kiss (<i>Department of Pathophysiology, University of Szeged, Szeged, Hungary</i>)</p> <p>Dimethyl trisulfide as a promising therapeutic organosulfure molecule in experimental acute pancreatitis</p>
14:05	<p>András Garami (<i>Department of Thermophysiology, Institute for Translational Medicine, University of Pecs, Medical School, Pécs, Hungary</i>)</p> <p>The transient receptor potential ankyrin-1 channel mediates the thermal effects of hydrogen-sulphide</p>
14:25	<p>Gábor Pozsgai (<i>Department of Pharmacology and Pharmacotherapy, University of Pécs, Medical School, Pécs, Hungary</i>)</p> <p>Dimethyl trisulfide reduces duration of immobility and increases activity frequency in the mouse forced swim test via TRPA1 ion channel</p>

14:45	<p>Balázs Zsidó (<i>Department of Pharmacology and Pharmacotherapy, University of Pécs, Medical School, Pécs, Hungary</i>) Computational binding studies of sulfide-containing irreversible agonists of ion channel TRPA1</p>
15:00	<p>Aleksandra Danielak (<i>Department of Physiology, Jagiellonian University Medical College, Cracow, Poland</i>) Hydrogen-sulfide (H₂S)-releasing pharmacological tools in the prevention of drugs-Induced gastrointestinal mucosal injury</p>
15:15-15:45	Coffee break
15:45-17:15	<p>S2 - Drug discovery and development: novel drugs and therapeutic strategies for cytoprotection</p> <p>Chairs András Varró (<i>Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, University of Szeged, Hungary</i>) Anikó Borbás (<i>Department of Pharmaceutical Chemistry, University of Debrecen, Debrecen, Hungary</i>)</p>
15:45	<p>Zsuzsanna Helyes (<i>Department of Pharmacology and Pharmacotherapy, Medical School and Szentágotthai Research Centre University of Pécs, Pécs, Hungary</i>) Preclinical development of a novel, multi-target analgesic for neuropathic pain</p>
16:15	<p>Rita Börzsei (<i>Department of Pharmacology and Pharmacotherapy, University of Pécs, Medical School, Pécs, Hungary</i>) Calculation of complex structures of somatostatin receptor subtype 4</p>
16:30	<p>Valéria Tékus (<i>Department of Pharmacology and Pharmacotherapy, University of Pécs, Medical School, Pécs, Hungary</i>) Protective effects of the novel amine oxidase inhibitor multi-target drug SZV 1287 on pancreatic beta cell damage and neuropathic cold hypersensitivity in the streptozotocin-induced rat diabetes model</p>
16:45	<p>Iván Mandel (<i>Department of Dentistry, Oral and Maxillofacial Surgery, University of Pécs, Medical School, Pécs, Hungary</i>) Comparative evaluation of two hyaluronic acid gel products for the treatment of interdental papillary defects</p>

17:00	Györgyi Horváth (<i>Department of Pharmacognosy, Faculty of Pharmacy, University of Pécs, Pécs, Hungary</i>) The pharmacological effect of thyme (<i>Thymus vulgaris</i> L.) essential oil in an endotoxin-induced acute airway inflammation mouse model
17:15-17:45	Issekutz Plenary Lecture
	Beáta Sperlágh (<i>Institute of Experimental Medicine, Eötvös Loránd Research Network, Budapest, Hungary</i>) 30 year journey around the ATP molecule: novel perspectives for the treatment of nervous system disorders
18:00-21:00	Visit to the Cathedral, Organ concert, Welcome dinner

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28th October 2021	
8:30-9:00	Plenary lecture
	<p>Thomas Brzozowski (<i>Department of Physiology, Faculty of Medicine, Jagllonian University Medical College, Cracow, Poland</i>) Emerging role of exercise and intestinal alkaline phosphatase in amelioration of inflammatory bowel disease (IBD) in experimental animals and humans. Importance of adipokines, myokines and intestinal microbiota.</p> <p>Chair Péter Ferdinandy (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University, Faculty of Medicine, Budapest, Hungary</i>)</p>
9:00-10:35	<p>S3 - Gut microbiota in health and disease</p> <p>Chairs Zoltán S. Zádori (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University, Faculty of Medicine, Budapest, Hungary</i>) Nathalie Vergnolle (<i>Inserm, Digestive Health Research Institute, Toulouse, France</i>)</p>
9:00	<p>Peter Holzer (<i>Research Unit of Translational Neurogastroenterology, Division of Pharmacology, Otto Loewi Research Centre, Medical University of Graz, Graz, Austria</i>) Microbial and pharmacological implications of high-fat diet-induced depression (online)</p>
9:20	<p>Nathalie Vergnolle (<i>Inserm, Digestive Health Research Institute, Toulouse, France</i>) The physiological and pharmacological role of microbial biofilms at the gut mucosa surface</p>
9:40	<p>Zoltán S. Zádori (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University, Faculty of Medicine, Budapest, Hungary</i>) The effect of nonsteroidal anti-inflammatory drugs on the small intestinal microbiota and bile acids in rats</p>
10:00	<p>Yanaka Akinori (<i>Department of Gastroenterology, University of Tsukuba, Ibaraki, Japan</i>) Sulforaphane normalizes human bowel habits by increasing Nrf2-dependent antioxidant system and butyrate-producing gut microbiota (online)</p>
10:20	<p>Dóra Zelena (<i>Department of Physiology, University of Pécs, Medical School, Pécs, Hungary</i>) The stressed gut: influence of microbiom on susceptibility for posttraumatic stress disorder in rats</p>

10:35-11:05	Coffee break
11:05-11:25	Special talk
	<p>Sándor Kerpel-Fronius (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University, Budapest, Hungary</i>) Clinical pharmacology of modern vaccine development</p> <p>Chair Péter Ferdinandy (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University, Faculty of Medicine, Budapest, Hungary</i>)</p>
11:25-12:55	<p>S4 - Novel mechanisms in neuroprotection</p> <p>Chairs Beáta Sperlág (<i>Institute of Experimental Medicine, Eötvös Loránd Research Network, Budapest, Hungary</i>) Ádám Dénes (<i>Laboratory of Neuroimmunology, Institute of Experimental Medicine, Budapest, Hungary</i>)</p>
11:25	<p>Péter Illés (<i>Department of Pharmacology, University of Leipzig, Leipzig, Germany</i>) P2X7 receptors amplify CNS damage in neurodegenerative diseases</p>
11:55	<p>Ádám Dénes (<i>Laboratory of Neuroimmunology, Institute of Experimental Medicine, Budapest, Hungary</i>) Modulation of microglial activity to shape neurovascular responses and brain injury</p>
11:20	<p>András Iring (<i>Institute of Experimental Medicine, Eötvös Loránd Research Network, Budapest, Hungary</i>) Central inhibition of P2Y12R differentially regulates survival and neuronal loss in MPTP induced Parkinsonism in mice</p>
11:40	<p>Andrea Tamás (<i>Department of Anatomy, University of Pécs, Medical School, Pécs, Hungary</i>) Pituitary adenylate cyclase-activating polypeptide, a potential new biomarker in Parkinson's disease</p>
12:55-14:00	Lunch break

<p>14:00-15:30</p>	<p>S5 - Mechanisms of drug-induced tissue injury: implications for safety testing</p> <p>Chairs Péter Ferdinandy (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University, Faculty of Medicine, Budapest, Hungary</i>) Sándor Szabó (<i>American University of Health Sciences, School of Medicine, Signal Hill, California, United States</i>)</p>
<p>14:00</p>	<p>Kim D. Rainsford (<i>Biomedical Research Centre, Sheffield Hallam University, Sheffield, United Kingdom</i>) GI-Safer Salicylates – the case for Salsalate (Diplosal) (online)</p>
<p>14:30</p>	<p>István Baczkó (<i>Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, University of Szeged, Szeged, Hungary</i>) Novel transgenic rabbit models for drug-induced arrhythmia prediction</p>
<p>14:45</p>	<p>Péter Bencsik (<i>Department of Pharmacology and Pharmacotherapy, University of Szeged, Szeged, Hungary</i>) Is inhibition of matrix metalloproteinase-2 cardioprotective against acute myocardial infarction in normo- and also in hypercholesterolemia?</p>
<p>15:00</p>	<p>Gergely Tamás (<i>Semmelweis University, Department of Pharmacology and Pharmacotherapy</i>) Immune checkpoint inhibition with PD-1 inhibitor induces cardiac dysfunction without overt myocarditis in C57BL/6 mice</p>
<p>15:15</p>	<p>Bence Károly Ágg (<i>Cardiometabolic and MTA-SE System Pharmacology Research Group, Department of Pharmacology and Pharmacotherapy, Semmelweis University, Budapest, Hungary</i>) Improving the quality and the time complexity of network visualization by hierarchical relative entropy optimization</p>
<p>15:30-17:00</p>	<p>S6 - Cyto and organoprotection regulated by endogenous mediators / modulators and their therapeutic significance</p> <p>Chairs Klára Gyires (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University, Faculty of Medicine, Budapest, Hungary</i>) Gaetano Iaquinto (<i>Santa Rita Hospital Division of Gastroenterology, Atripalda, and Institute of Food Sciences-CNR, Avellino, Italy</i>) Zoltán S. Zádori (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University, Faculty of Medicine, Budapest, Hungary</i>)</p>
<p>15:30</p>	<p>Ludmila Filaretova (<i>Laboratory of Experimental Endocrinology, Pavlov Institute of Physiology, Russian Academy of Sciences, St. Petersburg, Russia</i>) Running as a stressor: the effects on the gastrointestinal tract (online)</p>

15:50	<p>Yvette Taché (<i>Digestive Diseases Research Center, Digestive Diseases Division, David Geffen School of Medicine at UCLA and VA Greater Los Angeles Healthcare System, Los Angeles, California, United States</i>)</p> <p>Brain-gut interactions: implications to understand and treat postoperative ileus (online)</p>
16:10	<p>Kata Csekő (<i>Department of Pharmacology and Pharmacotherapy, University of Pécs, Medical School</i>)</p> <p>Somatostatin receptor subtype 4 alleviates indomethacin-induced gastrointestinal mucosal injury in mice</p>
16:25	<p>Gaetano Iaquinto (<i>Santa Rita Hospital Division of Gastroenterology, Atripalda, and Institute of Food Sciences-CNR, Avellino, Italy</i>)</p> <p>The Role of Adherent Invasive Escherichia Coli in Crohn Disease</p>
16:45	<p>Uray Karen L. (<i>Department of Medical Chemistry, University of Debrecen, Faculty of Medicine, Debrecen, Hungary</i>)</p> <p>The Role of Mechanotransduction in the Development of Ileus</p>
17:00-18:00 Poster session I	
19:00-22:00 Gala dinner in Grand Hotel Palatinus	

29th October 2021

8:30-9:00	Plenary lecture
	<p>Sándor Szabó (<i>American University of Health Sciences, School of Medicine, Signal Hill, California, United States</i>) Vascular endothelial injury: Common element in the cellular and molecular pathogenesis of GI ulceration and COVID-19</p> <p>Chair Zsuzsanna Helyes (<i>Department of Pharmacology and Pharmacotherapy, Medical School and Szentágotthai Research Centre University of Pécs, Pécs, Hungary</i>)</p>
9:00-10:30	<p>S7 - Novel insights into the mechanisms of gastrointestinal and epithelial injury and protection</p> <p>Chair Viktória Venglovecz (<i>Department of Pharmacology and Pharmacotherapy, University of Szeged, Faculty of Medicine, Szeged, Hungary</i>)</p>
9:00	<p>Gábor Varga (<i>Department of Oral Biology, Semmelweis University, Budapest, Hungary</i>) Functional polarization and bicarbonate transport of HAT-7 ameloblasts</p>
9:20	<p>Olga Lyubashina (<i>Pavlov Institute of Physiology of the Russian Academy of Sciences Laboratory of Cortico-Visceral Physiology, Saint Petersburg, Russia</i>) The colitis-induced supraspinal neuronal alterations contributing to intestinal hyperalgesia (online)</p>
9:30	<p>Béla Nagy (<i>Department of Laboratory Medicine, University of Debrecen, Debrecen, Hungary</i>) Combined CFTR modulators reduce human epididymis protein 4 (HE4) expression in cystic fibrosis airway epithelial cells</p>
9:40	<p>Marietta Margaréta Korsós (<i>Department of Pharmacology and Pharmacotherapy, University of Szeged, Szeged, Hungary</i>) Investigation of esophageal ion transport mechanism using mice esophageal 3D organoid cultures</p>
9:50	<p>László Czumbel (<i>Department of Oral Biology, Semmelweis University, Budapest, Hungary</i>) Saliva Specimens for detecting SARS-CoV-2: A Meta-Analysis</p>
10:00	<p>Bence Pál Bartha (<i>University of Szeged Department of Physiology, Anatomy and Neuroscience</i>) Gut region-specific expression of tumor necrosis factor alpha and its receptor in the myenteric neurons of streptozotocin-induced diabetic rats</p>

10:10	<p>Markus M. Heimesaat (<i>Institute for Microbiology, Infectious Diseases and Immunology, Charité - University Medicine, Berlin, Germany</i>)</p> <p>- Pituitary Adenylate Cyclase-Activating Polypeptide alleviates intestinal, extra-intestinal and systemic inflammatory responses during acute Campylobacter jejuni induced enterocolitis in mice</p> <p>- Murine fecal microbiota transplantation alleviates intestinal and systemic immune responses in Campylobacter jejuni infected mice harboring a human gut microbiota</p>
10:30-11:00	Coffee break
11:00-12:30	<p>S8 - Novel therapies based on extracellular vesicles (HUPHAR section inaugural meeting)</p> <p>Chairs</p> <p>Zoltán Gírcz (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University, Faculty of Medicine, Budapest, Hungary</i>)</p> <p>Edit Buzás (<i>Department of Genetics, Cell and Immunobiology, Semmelweis University, Faculty of Medicine, Budapest, Hungary</i>)</p>
11:00	<p>Zoltán Gírcz (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University, Faculty of Medicine, Budapest, Hungary</i>)</p> <p>Establishing HSEV, a platform for Hungarian EV-research community</p>
11:06	<p>Edit Buzás (<i>Department of Genetics, Cell and Immunobiology, Semmelweis University, Faculty of Medicine, Budapest, Hungary</i>)</p> <p>Formation of a biomolecular corona in the surface of extracellular vesicles in blood plasma</p>
11:16	<p>Erzsébet Ligeti (<i>Department of Physiology, Semmelweis University, Budapest, Hungary</i>)</p> <p>Neutrophilic granulocytes: model for highly selective EV production</p>
11:26	<p>Mihályi Judith (<i>Biological Nanochemistry Research Group, Institute of Materials and Environmental Chemistry, Research Centre for Natural Sciences, Budapest, Hungary</i>)</p> <p>Quantitative and qualitative characterization of extracellular vesicles by IR spectroscopy</p>
11:46	<p>Beáta Szebeni (<i>Paediatrics and Nephrology research group, Eötvös Loránd Research Network and 1st Department of Paediatrics, Semmelweis University, Budapest, Hungary</i>)</p> <p>Peritoneal dialysis effluent-derived extracellular vesicles reduce risk of development of peritoneal dialysis-associated peritoneal fibrosis</p>

12:01	Krisztina Buzás (<i>Department of Immunology, Albert Szent-Györgyi Medical School, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary</i>) Investigation of extracellular vesicles in central nervous system tumors using vibration spectroscopy
12:16	Szabolcs Hambalkó (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University, Budapest, Hungary</i>) Cardioprotection mediated by calcium-ionophore induced extracellular vesicles
12:24	Kitti Garai (<i>Department of Pharmaceutical Biotechnology, Faculty of Pharmacy, and Wnt Signaling Research Group, Szentagotai Research Center, University of Pécs, Pécs, Hungary</i>) Serum exosomal miRNA pattern of an active lifestyle, its correlation with anthropometric parameters and role in chronic disease prevention
12:35-13:35	Lunch break
13:35-15:05	S9 - Novel mechanisms and therapeutic targets of malignant cell transformation and autoimmunity Chairs István Peták (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University and Oncompass Medicine, Budapest, Hungary; Department of Biopharmaceutical Sciences, University of Illinois at Chicago, USA</i>) Thomas Brzozowski (<i>Department of Physiology, Faculty of Medicine, Jagllonian University Medical College, Cracow, Poland</i>)
13:35	Istvan Peták (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University and Oncompass Medicine, Budapest, Hungary; Department of Biopharmaceutical Sciences, University of Illinois at Chicago, USA</i>) A computational method to select the right molecular target for each cancer patient
13:53	Anna Sebestyén (<i>1st Institute of Pathology and Experimental Cancer Research, Semmelweis University, Budapest, Hungary</i>) Metabolic ecosystem and plasticity in the progression of cancer tissues
14:11	József Tímár (<i>2nd Institute of Pathology, Semmelweis University, Budapest, Hungary</i>) RAS: Targeting the untargetable

14:29	<p>Zoltán Szekaneecz (<i>Division of Rheumatology, University of Debrecen, Faculty of Medicine, Debrecen, Hungary</i>) Effects of tofacitinib therapy on arginine and methionine metabolites in association with vascular pathophysiology in rheumatoid arthritis: a metabolomic approach</p>
14:47	<p>Katalin Kiss (<i>Department of Medical Biology and Central Electronmicroscopic Laboratory, University of Pécs, Medical School, Pécs, Hungary</i>) Intracellular signaling upon withdrawal of trophic serum factors in a cell line model expressing constitutively active RhoA monomeric G-protein</p>
15:05-16:35	<p>S10 - Novel mechanisms in tissue injury and protection Chairs Christoph Sensen (<i>Director General of HCEMM, Institute of Computational Biotechnology, Graz University of Technology, Graz, Austria</i>) Zoltán Varga (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University, Faculty of Medicine, Budapest, Hungary</i>)</p>
15:05	<p>Christoph Sensen (<i>Director General of HCEMM, Institute of Computational Biotechnology, Graz University of Technology, Graz, Austria</i>) Introduction of the Hungarian Center of Excellence in Molecular Medicine (HCEMM) program</p>
15:09	<p>Balázs Enyedi (<i>HCEMM-SU Inflammatory Signaling Research Group, Semmelweis University, Budapest, Hungary</i>) The role of the nucleus in mediating tissue damage detection</p>
15:24	<p>József Maléth (<i>HCEMM-USZ Molecular Gastroenterology Research Group, and Hungarian Academy of Sciences-USZ Momentum Epithelial Cell Signaling and Secretion Research Group University of Szeged, Szeged, Hungary</i>) The role of plasma membrane Ca²⁺ channels in the development of epithelial cell injury in exocrine pancreatic pathophysiology</p>
15:39	<p>Zoltán Varga (<i>HCEMM-SU Cardiometabolic Immunology Research Group, Semmelweis University, Budapest, Hungary</i>) New inflammatory mechanisms in chronic heart failure</p>
15:54	<p>Nazha Hamdani (<i>HCEMM-SU Cardiovascular Comorbidities Research Group, Institut für Forschung und Lehre (IFL), Department of Molecular and Experimental Cardiology; Department of Cardiology, St. Josef-Hospital and Bergmannsheil, Ruhr University Bochum, Bochum, Germany</i>) Novel therapeutic options for heart failure with preserved ejection fraction targeting inflammation and oxidative stress</p>

16:09	<p>Nabil V. Sayour (HCEMM-SU Cardiometabolic Immunology Research Group, Department of Pharmacology and Pharmacotherapy, Semmelweis University, Budapest, Hungary)</p> <p>Novel druggable targets of heart failure with reduced ejection fraction identified by droplet digital PCR and validated by Next Generation Sequencing</p>
16:22	<p>Eszter A Tóth (<i>Department of Genetics, Cell and Immunobiology, Semmelweis University, Budapest, Hungary</i>)</p> <p>Formation of a protein corona on the surface of extracellular vesicles in blood plasma</p>
16:30-17:30	Poster session II
18:30	Bus transfer to Szekszárd
19:30-23:00	Dinner at Fritz Winery Szekszárd

30th October 2021

30 th October 2021	
8:30-9:00	Plenary lecture
	<p>István Gábor Greiner (<i>Gedeon Richter Plc., Budapest Hungary</i>) Is there a chance for next „cariprazine”?</p> <p>Chair Zsuzsanna Helyes (<i>Department of Pharmacology and Pharmacotherapy, Medical School and Szentágotthai Research Centre University of Pécs, Pécs, Hungary</i>)</p>
9:00-10:30	<p>S11 - Innovative drugs, targets and methods in pharmaceutical research</p> <p>Chairs Cyörgy Lévy (<i>Gedeon Richter Plc., Budapest, Hungary</i>) Zsolt Némethy (<i>Gedeon Richter Plc., Budapest, Hungary</i>)</p>
9:00	<p>András Kern (<i>Gedeon Richter Plc., Budapest, Hungary</i>) Disease modeling with iPSC-derived neurons: functional studies and alternative for drug development</p>
9:20	<p>Péter Pelsőczy (<i>Gedeon Richter Plc., Budapest, Hungary</i>) Behavioral group dynamics of autistic-like rats in the IntelliCage</p>
9:40	<p>Diana Kostyalik (<i>Cognitive Pharmacology Laboratory, Department of Pharmacology and Drug Safety, Gedeon Richter Plc., Budapest, Hungary</i>) Response-related sensorimotor EEG rhythms in the Touchscreen Visual Discrimination test in rats: functional connections to cognitive impairment</p>
10:00	<p>Eszter Bálint (<i>Laboratory of In Vivo Pharmacodynamics, Richter Gedeon Plc, Budapest, Hungary</i>) Of mice and men: modeling yoyo in obese C57BL/6J mouse</p>
10:30-11:00	Coffee break
11:00-12:15	<p>S12 - New trends in neuropsychiatry</p> <p>Chairs Viktor Román (<i>Neurodevelopmental Biology at Gedeon Richter Plc., Budapest, Hungary</i>) Cyörgy Lévy (<i>Gedeon Richter Plc., Budapest, Hungary</i>)</p>

11:00	<p>Viktor Román (<i>Neurodevelopmental Biology at Gedeon Richter Plc., Budapest, Hungary</i>) Cariprazine alleviates core behavioral deficits in the prenatal valproic acid exposure model of autism spectrum disorder</p>
11:25	<p>Zsolt Némethy (<i>Pharmacological and Drug Safety Research, Gedeon Richter Plc., Budapest, Hungary</i>) Research of 7 nACh receptor positive allosteric modulators in Richter</p>
11:50	<p>István Hernádi (<i>Center for Neuroscience, Szentágotthai Research Center, Institute of Physiology, Medical School, Endre Grastyán Translational Research Center, Department of Experimental Zoology and Neurobiology, Faculty of Sciences, University of Pécs, Pécs, Hungary</i>) Investigation of higher-order cognitive functions in pharmacological and natural models of cognitive decline in non-human primates</p>
12:15-12:35 Special talk	
	<p>Ki Baik Hahm (<i>CHA University, Bundang Medical Center, Seongnam, Korea</i>) Diet and cancer prevention</p> <p>Chair Klára Gyires (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University, Faculty of Medicine, Budapest, Hungary</i>)</p>
12:35-13:35 Lunch break	
S13 - Novel protective mechanisms in the brain and GI tract	
13:35-15:05	<p>Chairs Zsuzsanna Helyes (<i>Department of Pharmacology and Pharmacotherapy, Medical School and Szentágotthai Research Centre University of Pécs, Pécs, Hungary</i>) Csaba Hetényi (<i>Department of Pharmacology and Pharmacotherapy, University of Pécs, Medical School, Pécs, Hungary</i>)</p>
13:35	<p>István Krizbai (<i>Institute of Biophysics, Biological Research Centre, Szeged, Hungary and Institute of Life Sciences, Vasile Goldiș Western University of Arad, Arad, Romania</i>) Pericyte-secreted IGF2 promotes breast cancer brain metastasis formation</p>
13:50	<p>Predrag Sikiric (<i>Department of Pharmacology, University of Zagreb, School of Medicine, Zagreb, Croatia</i>) Robert's Intragastric Alcohol-Induced Gastric Lesion Model as an Escalated General Peripheral and Central Syndrome, Counteracted by the Stable Gastric Pentadecapeptide BPC 157</p>

14:10	<p>Sven Seiwerth (<i>Department of Pharmacology, University of Zagreb, School of Medicine, Zagreb, Croatia</i>) BPC 157: Lessons from the counteraction of the inferior caval vein syndrome, Pringle maneuver ischemia, reperfusion, Budd-Chiari syndrome, superior sagittal sinus occlusion, and superior mesenteric artery and/or vein occlusion in rats</p>
14:30	<p>Csaba Hetényi (<i>Department of Pharmacology and Pharmacotherapy, University of Pécs, Medical School, Pécs, Hungary</i>) Structural elucidation of ligand binding mechanisms to somatostatin receptors</p>
14:50	<p>Natalia Yarushkina (<i>Laboratory of Experimental Endocrinology, Pavlov Institute of Physiology, Russian Academy of Sciences, St. Petersburg, Russia</i>) Participation of corticotropin-releasing factor in gastroprotection against indomethacin-induced gastric injury and somatic pain regulation through glucocorticoid involvement (online)</p>
15:05-15:30	Award ceremony, concluding remarks
15:30-16:15	HUPHAR Board Meeting

Poster session I - 28th October 17:00-18:00

P1.1	Novel mechanisms and therapeutic approaches in cytoprotection and malignant transformation	
	Poster jury István Krizbai (<i>Institute of Biophysics, Biological Research Centre, Szeged, Hungary and Institute of Life Sciences, Vasile Goldiș Western University of Arad, Arad, Romania</i>) Anikó Görbe (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University, Budapest, Hungary</i>)	
P1.1.1	Ali Hazhmat	Investigation of the anticancer potentials of the newly synthesized 13 α -estrone derivatives
P1.1.2	Ashkan Tahaei	Investigation of antiproliferative properties of 16-triazolyl estranes and their 16-azidomethyl
P1.1.3	Krisztina Bánfai	Induction of T-cell development from hematopoietic stem cells by exosomes
P1.1.4	Sándor Bartha	In vitro evaluation of antiproliferative effect of D-ring modified estrane derivatives against human cancer cell lines with different HPV-status
P1.1.5	Anita Emőke Hegyi	Osteogenic and neurogenic differentiation capacity of dental progenitor cells
P1.1.6	Markus M. Heimesaat	Immunomodulatory properties of the octapeptide NAP in <i>Campylobacter jejuni</i> infected mice suffering from acute enterocolitis
P1.1.7	Markus M. Heimesaat	Pituitary Adenylate Cyclase-Activating Polypeptide – a neuropeptide as novel treatment option for subacute ileitis in mice harboring a human gut microbiota
P1.1.8	Markus M. Heimesaat	Carvacrol ameliorates acute campylobacteriosis in a clinical murine infection model
P1.1.9	Eleonóra Gál	Significance of bile acids in pancreatic cancer
P1.1.10	Njangiru I. Kinyua	In vitro anti-proliferative activity and pharmacokinetic attributes of 2-aminomethylated estrone analogues on cancer cell lines of gynecological origin
P1.1.11	Bálint Balogh	Urocortin stimulates ERK1/2 phosphorylation but reduces cell proliferation in MCF7 breast cancer cells
P1.1.12	Viktória Nagy	Pharmacological investigation of a newly synthesized monoterpene derivatives on human cancer cell lines in vitro
P1.1.13	Balázs Zsidó	Computational binding studies of a new bergamottin analog CYP3A4 inhibitor with antiproliferative activity

P1.2	Cardiovascular diseases	
	Poster jury	
	Péter Bencsik (<i>Department of Pharmacology and Pharmacotherapy, University of Szeged Szeged, Hungary</i>)	
	Zoltán Varga (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University, Faculty of Medicine, Budapest, Hungary</i>)	
	Ágnes Kemény (<i>Department of Pharmacology and Pharmacotherapy, and Department of Medical Biology and Central Electron Microscopic Laboratory, University of Pécs, Medical School, Pécs, Hungary</i>)	
	P1.2.1	Tamás Árpádfy-Lovas An evaluation of the translational prediction value of model species in cardiac electrophysiology
	P1.2.2	Tamás Gergely Immune checkpoint inhibition with PD-1 inhibitor induces cardiac dysfunction without overt myocarditis in C57BL/6 mice
	P1.2.3	Bernadett Kiss Responsiveness of the widely used cardiomyocyte cell platforms affected by simulated ischemia/reperfusion
	P1.2.4	Csenger Kovacshazi Helium conditioning increases cardiac fibroblast migration which effect is not transferable via soluble factors or extracellular vesicles
	P1.2.5	Norbert Nagy Does small-conductance Ca ²⁺ -activated potassium channel contribute to sinus-node action potential?
	P1.2.6	Muhammad Naveed The electrophysiological effects of cannabidiol on action potential and transmembrane potassium currents in dog and rabbit cardiac preparations: investigation of possible proarrhythmic risk
P1.2.7	Zsófia Onódi Transcriptomic analysis and comparative characterization of rat H9C2, human AC16 and murine HL-1 cardiac cell lines	
P1.2.8	Tamara Szabados Cardiac ischemic postconditioning in pig: protective role of matrix metalloproteinase-9 and biglycan	
P1.2.9	Kálmán F. Szűcs Characterization of acute stress by gastrointestinal and cardiac electromyography in awake rats	
P1.2.10	Noémi Tóth The role of reverse Na ⁺ /Ca ²⁺ exchanger in the sinus node spontaneous automaticity	
P1.2.11	Imre Vörös Investigation of cardiotoxicity by dipeptidyl-peptidase-4 inhibitors on a human cardiomyocyte cell line as well as on samples from chronic heart failure patients	

P1.3	Endocrine and metabolic dysfunctions	
	Poster jury András Garami (<i>Department of Thermophysiology, Institute for Translational Medicine, University of Pécs, Medical School, Pécs, Hungary</i>) József Maléth (<i>HCEMM-USZ Molecular Gastroenterology Research Group, and Hungarian Academy of Sciences-USZ Momentum Epithelial Cell Signaling and Secretion Research Group University of Szeged, Szeged, Hungary</i>)	
	P1.3.1	Gábor B. Brenner Rofecoxib alleviates hypercholesterolemia-induced myocardial dysfunction
	P1.3.2	Attila Ébert Diabetes increases secretory activity of pancreatic ductal epithelial cells
	P1.3.3	Lina Hudhud DNA damage induced by novel synthetic all-trans retinoic acid analogues in CHO cells
	P1.3.4	Zoltán Husti Cardiac electrophysiological effects of rofecoxib following simulated ischemia-reperfusion in hypercholesterolemic rats
	P1.3.5	Reza Samavati Investigation of the role and influence of sex hormones on hepatic metabolism of diclofenac in a rat liver perfusion model
	P1.3.6	Annamária Schaffer The influencing role of leptin and adiponectin systems in pregnant rat uterine contractility
	P1.3.7	Tamara Barna Potentiation of the uterus relaxing effects of sildenafil with terbutaline and nifedipine: in vitro and in vivo studies on pregnant rat myometrium
	P1.3.8	Eszter Ducza The effect of citral on uterine contraction in rat
P1.3.9	Judith Mihály Label-free protein and lipid quantification of extracellular vesicles by infrared spectroscopy	
P1.3.10	Syedmohsen Mirdamadi Non-genomic uterorelaxant actions of corticosteroids	

Poster session II - 29th October 16:35-17:35

Poster session II - 29 th October 16:35-17:35		
P2.1	Cyto /organo /neuroprotection Poster jury Péter Illés (<i>Department of Pharmacology, University of Leipzig, Leipzig, Germany</i>) Andrea Tamás (<i>Department of Anatomy, University of Pécs, Medical School, Pécs, Hungary</i>)	
P2.1.1	Ágnes Dombi	The effect of dimethyl trisulfide in the forced swim test is independent of the NK1 receptor
P2.1.2	Szidónia Farkas	Neuroprotective effect of estrogen-like ANGELS compounds
P2.1.3	Barbara Fülöp	Interleukin-1 mediates chronic restraint stress-induced neuropathic hyperalgesia in a mouse model
P2.1.4	Ádám Horváth	Evidence for the effect of lipid raft disruption in mouse model of pain with different mechanism
P2.1.5	Zsolt Tamás Papp	Angiotensin IV's neuromodulation of the glutamate neurotransmission in the prefrontal cortex
P2.1.6	Evelin Viktória Patkó	Investigation of PACAP1-38 eye-drops treatment in glaucoma
P2.1.7	Csenge Sánta	Utilization of the Noldus EthoVision XT 15 for characterization of the effect of dimethyl trisulfide on locomotor activity, anxiety-like and depression-like behavior in mice
P2.1.8	Adrienn Szabó	Changes in motor activity and underlying molecular mechanism in the 3xTg-AD mice model of Alzheimer's disorder
P2.1.9	Judit Szepesy	Effect of a checkpoint inhibitor on hearing in mice
P2.1.10	Oktávia Tarjányi	In vitro treatment with the proteasome inhibitor MG-132 has a biphasic effect in rat pheochromocytoma cells
P2.1.11	Leila Topal	The "supernormal" heart: Effects of long-term endurance training on cardiac remodeling in newly developed large-and in small animal models of the human athlete's heart
P2.1.12	Oleh Revenko	Mesenteric adipocytes, vascular endothelium, and fibroblasts promote metaflammation and represent a potential treatment target for Hydrogen Sulfide

P2.2	Diseases of the gastrointestinal tract	
	Poster jury Gábor Varga (<i>Department of Oral Biology, Semmelweis University, Budapest, Hungary</i>) Dóra Zelena (<i>Department of Physiology, University of Pécs, Medical School, Pécs, Hungary</i>)	
P2.2.1	Eszter Becskeházi	Cigarette smoking alters NHE function of guinea pig oesophageal epithelial cells and human oesophageal cell lines
P2.2.2	Róbert Gáspár	High-dose salicylic acid blocks GI passage inducing the activity of MMPs
P2.2.3	Markus M. Heimesaat	Anti-inflammatory effects of the octapeptide NAP in human microbiota associated mice suffering from subacute ileitis
P2.2.4	Markus M. Heimesaat	The octapeptide NAP alleviates intestinal and extra-intestinal inflammatory sequelae of acute experimental colitis
P2.2.5	Markus M. Heimesaat	Vitamin D in acute campylobacteriosis – results from an intervention study applying a clinical <i>Campylobacter jejuni</i> induced enterocolitis model
P2.2.6	Markus M. Heimesaat	Vitamin C alleviates acute enterocolitis in <i>Campylobacter jejuni</i> infected mice
P2.2.7	Markus M. Heimesaat	Intestinal microbiota changes in mice lacking Pituitary adenylate cyclase activating polypeptide – <i>Bifidobacteria</i> make the difference
P2.2.8	Markus M. Heimesaat	Murine fecal microbiota transplantation lowers gastrointestinal pathogen loads and dampens pro-inflammatory immune responses in <i>Campylobacter jejuni</i> infected secondary abiotic mice
P2.2.9	Barbara Hutka	Chronic treatment with the selective cyclooxygenase-2 inhibitor celecoxib does not cause small intestinal dysbiosis in rats
P2.2.10	Dániel Kucsera	Investigating the efficacy of anti-IL-1 β monoclonal antibody treatment in an aged mouse-model of non-alcoholic steatohepatitis
P2.2.11	Krisztina Pohóczky	Functional expression and upregulation of Transient Receptor Potential Ankyrin 1 and Vanilloid 1 receptors in oral squamous cell carcinoma
P2.2.12	Dóra Vigh	Smooth muscle electromyography may detect the gastric acid overproduction in a rat model

P2.3	<p>Endogenous protective mediators and modulators in organ injury and protection</p> <p>Poster jury Éva Szőke (<i>Department of Pharmacology and Pharmacotherapy, University of Pécs, Pécs, Hungary</i>) Tibor Zelles (<i>Department of Pharmacology and Pharmacotherapy, Semmelweis University, Budapest, Hungary</i>)</p>	
P2.3.1	Eszter Garaminé Pákai	The role of interleukin (IL)-1 in thermoregulatory changes associated with severe systemic inflammation
P2.3.2	Ágnes Kemény	Questionable translational significance of IL-17A in imiquimod-induced psoriasiform mice model
P2.3.3	János Konkoly	The role of TRPA1 receptor in the central processing of odours contributing to the behavioural responses of mice
P2.3.4	Lina Li	Development of the retinopathy in a diet-induced type 2 diabetic rat model
P2.3.5	Dorottya Molitor	The protective role of PAC-1 receptor in endotoxin-induced retinal inflammation
P2.3.6	Balázs Nemes	Characterization of transgenic mice expressing the human somatostatin receptor subtype 4
P2.3.7	Zoltán Rumbus	The thermoregulatory role of transient receptor potential vanilloid-1 channels in acute and chronic acidosis in mice
P2.3.8	Viktória Szeifert	Role of Mac-1 in the formation of neutrophil granulocyte derived extracellular vesicles
P2.3.9	Nikolett Szentes	Determining signaling pathways by transcriptomic analysis of the dorsal root ganglia in a translational mouse model of Complex Regional Pain Syndrome
P2.3.10	Éva Szőke	Resolvin D1 and D2 inhibit Transient Receptor Potential Vanilloid 1 and Ankyrin 1 ion channel activation on sensory neurons via lipid raft modification
P2.3.11	Norbert Tóth	Serum growth factor and cytokine levels show positive correlations with the intensity of certain pain parameters in endometriosis patients

ISTICO-HUPHAR-IUPHAR conference program, 27-30 October, 2021

27th October		28th October		29th October		30th October	
18:00 - 18:35	Opening ceremony	8:30 - 9:00	Plenary 2 - Thomas Brzozowski	8:30 - 9:00	Plenary 4 - Sándor Szabó	8:30 - 9:00	Plenary 5 - István Gábor Greiner
18:35 - 18:45		9:00 - 10:35	S3 - Gut microbiota in health and disease - Zoltán Zádori, Nathalie Vergholle, Peter Holzer	9:00 - 10:30	S7 - Novel insights into the mechanisms of gastrointestinal and epithelial injury and protection - Viktória Venglovecz	9:00 - 10:30	S11 - Innovative drugs, targets and methods in pharmaceutical research - György Lévy, Zsolt Némethy
18:45 - 18:55	S1 - Gas mediators, antioxidants and growth factors in cyto/organoprotection - Erika Pirmér, Michael Spedding	10:35 - 11:05	Coffee break	10:30 - 11:00	Coffee break	10:30 - 11:00	Coffee break
18:55 - 19:45	Plenary 1 - Michael Spedding	11:05 - 11:25	Special talk 1 - Sándor Kerpel-Fronius	11:00 - 12:30	S8 - Novel therapies based on extracellular vesicles (formation of a new HUPHAR section) - Zoltán Górizs, Edit Buzás	11:00 - 12:15	S12 - New trends in neuropsychiatry - Viktor Ráman, György Lévy
19:45 - 19:55		12:25 - 12:55	S4 - Novel mechanisms in neuroprotection - Beatrix Sperlagh, Adam Dénes	12:35 - 13:35	Lunch break	12:15 - 12:35	Special talk 2 - Lil Bolk Hahn
19:55 - 20:45	S1 - Gas mediators, antioxidants and growth factors in cyto/organoprotection - Erika Pirmér, Michael Spedding	12:55 - 14:00	Lunch break	13:35 - 15:05	S9 - Novel mechanisms and therapeutic targets of malignant cell transformation - István Peták, Thomas Brzozowski	12:35 - 13:35	Lunch break
19:55 - 20:45	Coffee break	14:00 - 15:30	S5 - Mechanism of drug-induced tissue injury: implications for safety testing - Péter Faradandy, Sándor Szabó	15:05 - 16:35	S10 - Novel mechanisms in tissue injury and protection - Christoph Sensen, Zoltán Varga	13:35 - 15:05	S13 - Neuropeptide-mediated protective mechanisms - Zsuzsanna Hejjes, Csaba Hetényi
19:55 - 21:00	S2 - Drug discovery and drug development: novel drugs and therapeutic strategies for cytoprotection - Anikó Barabás, Andras Varro	15:30 - 17:00	S6 - Cyto- and organoprotection regulated by endogenous mediators/modulators and their therapeutic significance - Andra Gyires, Gaetano Iaquino, Edit S. Zádori	16:35 - 17:35	Poster session 2	15:05 - 15:30	Award ceremony, Concluding remarks
19:55 - 21:00	Issekutz plenary lecture - Beatrix Sperlagh	17:00 - 18:00	Poster session 1	19:30 - 23:00	Dinner at Fritz Winery Szekszárd (optional program)	15:30 - 16:15	HUPHAR Board Meeting
19:55 - 21:00	Visit to the Cathedral, Organ concert, Welcome dinner (included in registration fee)	19:00 - 22:00	Gala Dinner (optional program)		bustransfer to Szekszárd		
					bustransfer to Pécs		