

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

11 April 2017

Hall

8:00-9:00 On-site registration

Árkövy József lecture room

9:00–9:30 Opening ceremony

9:30–9:50 Excellent PhD supervisor Dr. Barna Vásárhelyi

9:50–11:30 Oral Presentations: Clinical Sciences

Chairman: Dr. Tivadar Tulassay

Zsuzsanna Kurti¹, Lorant Gonczi¹, Zsuzsanna Vegh¹, Petra A Golovics¹, Petra Fadgyas-Freyler², Judit Gimesi-Orszagh², Gyula Korponay², Barbara D Lovasz¹, Peter L Lakatos¹

¹ 1st Department of Medicine, Semmelweis University, Budapest, Hungary

² Strategic Analysis Department, National Health Insurance Fund (OEP), Budapest, Hungary

Therapeutic preferences and outcomes in newly diagnosed patient with Crohn's diseases in the biological era in Hungary. A nationwide study based on the National Health Insurance Fund database

L. Gonczi¹, Z. Kurti¹, K.B. Gecse¹, Z. Vegh¹, M. Rutka², K. Farkas², P.A. Golovics¹, B.D. Lovasz¹, J. Banai³, L. Bene⁴, B. Gasztonyi⁵, T. Kristof⁶, L. Lakatos⁷, P. Miheller⁸, F. Nagy², K. Palatka⁹, M.Papp⁹, A. Patai¹⁰, A. Salamon¹¹, T.Szamosi³, Z. Szepes², G.T. Toth¹², A. Vincze¹³, T. Molnar², P.L.Lakatos¹

¹ Semmelweis University, First Department of Medicine, Budapest, Hungary,

² University of Szeged, First Department of Internal Medicine, Szeged, Hungary,

³ Military Hospital – StateHealth Centre, Gastroenterology, Budapest, Hungary,

⁴ Peterfy Hospital, 1st Department of Medicine, Budapest, Hungary,

⁵ Zala County Hospital, 2nd Department of Medicine, Zalaegerszeg, Hungary,

⁶ B-A-Z County and University Teaching Hospital, 2nd Department of Medicine, Miskolc, Hungary,

⁷ Csolnoky Ferenc Regional Hospital, Department of Internal Medicine, Veszprem, Hungary,

⁸ Semmelweis University, Second Department of Internal Medicine, Budapest, Hungary,

⁹ University of Debrecen, Department of Gastroenterology, Debrecen, Hungary,

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

10 Markusovszky Hospital, Department of Medicine and Gastroenterology, Szombathely, Hungary,

11 Tolna County Teaching Hospital, Department of Gastroenterology, Szekszard, Hungary,

12 Janos Hospital, Department of Gastroenterology, Budapest, Hungary,

13 University of Pécs, 1st Department of Medicine, Pecs, Hungary

Final results on efficacy and safety of biosimilar infliximab after one-year: results from a prospective nationwide cohort

Orsolya Horváth N., 1, 2; Jana Jankásková, 1, 3; Rita Varga, 1; Thomas Ruzicka, 1; Miklós Sárdy, 1, 4

1 Department of Dermatology and Allergology, Ludwig-Maximilians University, Munich, Germany

2 Institute of Behavioural Sciences, Semmelweis University, Budapest, Hungary

3 Department of Dermato-Venereology, Teaching Hospital Královské Vinohrady, Third Faculty of Medicine, Charles University, Czech Republic

4 Department of Dermatology, Venereology and Dermatocology, Semmelweis University, Budapest, Hungary

Complement Fixation Test for Diagnosis of Bullous Pemphigoid

Szabolcs Tasnády 1, Attila Szederjesi 1, Éva Karászi 1, György Bihari 1, Apor Hardi 1, Gergely Kriván

2, Krisztián Kállay 2, Péter Reményi 1, János Sinkó 1, Gábor Mikala 1, Tamás Masszi 3, Marienn Réti

1

1 United St. Istvan and St. Laszlo Hospital, Department of Haematology and Stem Cell Transplantation, Budapest

2 United St. Istvan and St. Laszlo Hospital, Department of Paediatric Haematology and Stem Cell Transplantation, Budapest

3 Semmelweis University III. Department of Internal Medicine, Budapest

Interferon-gamma production-based virus specific T cell detection by functional flow cytometry after allogeneic haematopoietic stem cell transplantation

Nóra Veszeli, Kinga Viktória Kóhalmi, Erika Kajdácsi, Márta Kókai, Dominik Gulyás, László Cervenak, Henriette Farkas, Lilian Varga

3rd Department of Internal Medicine, Semmelweis University, Budapest

Novel high-temporal resolution follow-up of an edematous attack of a C1-INH-HAE patient: complement system in focus

Eszter Kovács 1, Adrienn Tóthpál 1, Csenge Török 1, Szilvia Kardos 1, Judit Sahin-Tóth 1, Orsolya

Dobay 1, Tamás Tirczka 2, Mark van der Linden 3

1 Semmelweis University, Budapest

2 National Center for Epidemiology, Budapest

3 German National Reference Center for Streptococci, Aachen

Serotype comparison of carried versus clinical isolates from 2015-2016 in the era of pneumococcal conjugated vaccines in Hungary

Ákos Nádasdi¹, Viktor Gál², Elnaz Kasiri¹, Klara Rosta³, Prof. Anikó Somogyi¹, Gábor Firneisz^{1,4}

1 2nd Department of Internal Medicine, Semmelweis University, Budapest, Hungary.

2 Brain Imaging Centre (BIC) of the Research Centre for Natural Sciences of the Hungarian Academy of Sciences (RCNS HAS).

3 Department of Obstetrics and Gynecology, Medical University of Vienna, Vienna, Austria, 1st

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

Department of Obstetrics and Gynecology, Semmelweis University, Budapest, Hungary.
4 Hungarian Academy of Sciences - Semmelweis University, Molecular Medicine Research Group, Budapest, Hungary.

Correlation among intrahepatic lipid content and OGTT values

Zambaga Khorolsuren^{1, 2}, Orsolya Lang ¹, Eva Pallinger¹, Anna Foldes ³, Kata Horváti⁴, Gabor Mezo⁴, Janos Vag ², Laszlo Kohidai ¹

¹ Department of Genetics-, Cell- and Immunobiology, Semmelweis University, Budapest

² Department of Conservative Dentistry, Semmelweis University, Budapest

³ Department of Oral Biology, Semmelweis University, Budapest

⁴ MTA-ELTE Research Group of Peptide Chemistry, Budapest

Effects of novel synthetic polypeptides containing 'cycloRGD' sequences - on PDLSC functional characterization

Kata Kovács, Enikő Szakmár, Ünőke Méder, Anna Csekő, Miklós Szabó, Ágnes Jermendy

¹st Department of Paediatrics, Semmelweis University, Budapest

The possible role of relative adrenal insufficiency in haemodynamic instability of asphyxiated infants

Enikő Szakmár ¹, Kata Kovács ¹, Ünőke Méder ¹, Csilla Andorka ¹, Miklós Szabó ¹, Ágnes Jermendy¹

¹ Semmelweis University, ¹st Department of Paediatrics, Neonatal Intensive Care Unit

Hypoxic-Ischemic Encephalopathy Therapy Optimization in Neonates for Better Neuroprotection with Inhalative CO₂

11:30–11:45 Coffee Break

11:45–12:45 Oral Presentations: Head&Neck & Basic Sciences I.

Chairman: Dr. Zoltán Benyó

Dániel Csizmazia¹, Gábor Gerber¹

¹ Department of Anatomy, Histology and Embryology

Comparing the role of mechanical and electrical stimuli in the neurogenic inflammation of the rat dental pulp. A longitudinal study.

Eszter Molnár¹, Réka Fazekas¹, Dániel Sinkovits², Zsolt Lohinai¹, Zsuzsanna Tóth¹, János Vág¹

¹ Semmelweis University, Department of Conservative Dentistry

² Semmelweis University

Gingival blood flow measurement reproducibility by Laser Speckle Contrast Imaging method

Nóra Kecskeméti^{1,2*}, Magdolna Szőnyi^{2*}, Anna Kékesi¹, György Mate Milley¹, Marianna Küstel², Anita Gáborján², László Noszek², László Tamás², Mária Judit Molnár¹, Anikó Gál¹

¹ Institute of Genomic Medicine and Rare Disorders, Semmelweis University, Budapest, Hungary

² Department of Otolaryngology, Head- and Neck surgery, Semmelweis University, Budapest, Hungary

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

Prevalence of GJB2 mutations in patients with non-syndromic sensorineural deafness in Hungary

Nóra Judit Béres¹, Zoltán Kiss¹, Rita Benkő², Katalin Borka³, Apor Veres-Székely^{1, 4}, Szabolcs Heininger⁵, Rita Lippai¹, Ádám Vannay^{1, 4}, Erna Sziksz^{1, 4}, Gábor Veres¹, Eszter M. Horváth²

¹ Semmelweis University, 1st Department of Pediatrics, Budapest

² Semmelweis University, Department of Physiology, Budapest

³ Semmelweis University, 2nd Department of Pathology, Budapest

⁴ MTA-SE, Pediatrics and Nephrology Research Group, Budapest

⁵ Semmelweis University, Institute of Human Physiology and Clinical Experimental Research, Budapest

Role of microRNA-223 in the activation of poly(ADP-ribose) polymerase in pediatric patients with Crohn's disease

Khochanskiy D.N. ¹, Makarova O.V. ¹, Buravkov S.V. ², Kirukhin S.O. ^{1 2}

¹ Research Institute of Human Morphology, Moscow, Russia;

² Lomonosov Moscow State University, Moscow, Russia

Changes of the colon muscular layer and the enteric nervous system in the animal model of acute ulcerative colitis

Apor Veres-Székely^{1,2}, Anna Ónody², Erna Sziksz^{1,2}, Domonkos Pap^{1,2}, Réka Rokonyay², Rita Lippai², István M. Takács², Attila J. Szabó^{1,2}, Ádám Vannay^{1,2}

¹ MTA-SE, Pediatrics and Nephrology Research Group, Budapest, Hungary

² 1st Dept. of Pediatrics, Semmelweis University, Budapest, Hungary

The role of the interleukin-24 in the pathomechanism of IBD-associated tissue remodelling

12:45–13:45 Lunch

13:45–14:05 Excellent PhD supervisor Dr. András Kiss

14:05–16:05 Oral Presentations: Basic Sciences II.

Chairman: Dr. Zoltán Benyó

Eszter Trojnar¹, Mihály Józsi², Katalin Uray³, T Sakari Jokiranta⁴, Zoltán Prohászka⁵

¹ 3rd Dept. of Internal Medicine, Research Laboratory, Semmelweis University, Budapest, Hungary

² MTA-ELTE "Lendület" Complement Research Group, Department of Immunology, Eötvös Loránd University, Budapest, Hungary

³ MTA-ELTE Research Group of Peptide Chemistry, Hungarian Academy of Sciences, Eötvös Loránd University, Budapest, Hungary

⁴ Research Programs Unit, Immunobiology, University of Helsinki and Helsinki University Central Hospital, Helsinki, Finland

⁵ 3rd Dept. of Internal Medicine, Research Laboratory, Semmelweis University, Budapest, Hungary

Analysis of linear antibody epitopes on factor H and CFHR1 using sera of patients with autoimmune atypical hemolytic uremic syndrome

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

Ágnes Németh¹, Krisztina Fazekas¹, Mózes Miklós¹, Gábor Kökény¹

¹ Semmelweis University Institute of Pathophysiology

Pioglitazone effectively reduces renal interstitial fibrosis in TGF- β transgenic mice

Dora Ravasz^{1,2}, Gergely Kacso^{1,2}, Viktoria Fodor^{1,2}, Kata Horvath^{1,2}, Vera Adam-Vizi^{1,3} and Christos Chinopoulos^{1,2}

¹ Department of Medical Biochemistry, Semmelweis University, Budapest, 1094, Hungary

² MTA-SE Lendület Neurobiochemistry Research Group

³ MTA-SE Laboratory for Neurobiochemistry

Catabolism of GABA, succinic semialdehyde or gamma-hydroxybutyrate through the GABA shunt impair mitochondrial substrate-level phosphorylation

Blanka Mező¹, Dorottya Csuka¹, Nóra Veszei¹, Tímea Gombos¹, Andreas Heilos², Krisztina Rusai², Gregor Bond³, Farsad Eskandary³, Georg Böhmig³, Zoltán Prohászka¹

¹ Research Laboratory, 3rd Department of Internal Medicine, Semmelweis University, Budapest, Hungary;

² Department of Paediatrics and Adolescent Medicine, Medical University Vienna, Austria, Vienna, Austria;

³ Division of Nephrology and Dialysis, Department of Medicine III, Medical University Vienna, Vienna, Austria

Determination of complement profile in kidney transplant recipients

Lilla Lenart⁽¹⁾, Judit Hodrea⁽¹⁾, Edgar Szkibinszkij^(1,3), Dora B. Balogh^(1,4), Adam Hosszu^(1,3), Adam Vannay^(2,4), Laszlo Wagner⁽³⁾, Attila J. Szabo⁽⁴⁾, Andrea Fekete^(1,4)

¹ MTA-SE „Lendület” Diabetes Research Group, Budapest, Hungary

² MTA-SE Pediatrics and Nephrology Research Group, Budapest, Hungary

³ SE Department of Transplantation and Surgery, Budapest, Hungary

⁴ SE 1st Department of Pediatrics, Budapest, Hungary

Novel option for the treatment of renal hypoxic injury

László Bálint¹, Zsombor Ocskay¹, Bálint András Deák¹, Zoltán Jakus¹

¹ MTA-SE „Lendület” Lymphatic Physiology Research Group and Department of Physiology, Semmelweis University School of Medicine, Budapest, Hungary

Postnatal remodeling of meningeal lymphatics is required for the drainage of macromolecules from the CNS

Sarnyai Farkas¹

¹ Semmelweis Egyetem Orvosi Vegytani, Molekuláris Biológiai és Patobiokémiai Intézet, Budapest

Toxicity of endogenous fatty acids and dietary trans-fatty acids in insulinoma cells

András Bencsik^{1,2}, Barbara Érsek^{1,2}, Nikolett Lupsa^{1,2}, István Jankovics³, János Matkó⁴, Edit Irén Buzás², Zoltán Pósi^{1,2}

¹ Experimental and Translational Immunomics Research Group, Budapest

² Semmelweis University, Department of Genetics, Cell and Immunobiology, Budapest

³ National Center for Epidemiology, Division of Virology, Budapest

⁴ Eötvös Loránd University, Department of Immunology, Budapest

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

Explorative analysis of the dynamics of the murine CD103+ cytotoxic resident memory T cell responses during influenza reinfection

Á. F. Kovács¹, N. Fekete¹, O. Láng¹, L. Kóhidai¹, J. Rigó², L. Turiák³, E. I. Buzás¹, É. Pállinger¹
¹ Department of Genetics, Cell- and Immunobiology, Semmelweis University, Budapest, Hungary
² 1st Department of Obstetrics and Gynaecology, Semmelweis University, Budapest, Hungary
³ Institute of Organic Chemistry, Hungarian Academy of Sciences, Budapest, Hungary

Emerging roles of pregnancy-associated circulating extracellular vesicles in modulation of trophoblast cell functions

Eszter Balogh¹, Mikó Ágnes¹

¹ 1st Department of Pediatrics/Semmelweis University, Budapest

Binding capacity of pathogenic and non-pathogenic NPHS2 heterodimers

Andrea Styevkóné Dinnyés¹, Dániel Szóke¹, Norbert Pardi², Kitti Ajtay¹, Drew Weissman², Zoltán Jakus¹

¹ Department of Physiology, Semmelweis University School of Medicine and MTA-SE „Lendület” Lymphatic Physiology Research Group, Budapest, Hungary

² University of Pennsylvania, Perelman School of Medicine, Philadelphia, PA, USA

Organ specific induction of lymphatic growth with nanoparticle-encapsulated nucleoside-modified VEGFC mRNA (VEGFC mRNA-LNP) complexes in vivo

Daniel Veres¹, Peter Csermely²

^{1,2} Department of Medical Chemistry, Semmelweis University, Budapest

Translocatome: a novel tool for the functional analysis of protein translocation between cellular organelles

16:05–16:20 Coffe Break

16:20–17:30 Oral Presentations: Pharmaceutical

Chairman: Dr. László Órfi

Mihály Balogh⁽¹⁾, Kornél Király⁽¹⁾, Bence Varga⁽¹⁾, Richard Ármós⁽¹⁾, Pál Riba⁽¹⁾, Ferenc Zádor⁽²⁾, Zoltán Zádori⁽¹⁾, Sándor Hosztafi⁽³⁾, András Váradi⁽³⁾, Zsuzsanna Fürst⁽¹⁾, Mahmoud Al-Khrasani⁽¹⁾,

⁽¹⁾ Department of Pharmacology and Pharmacotherapy, Semmelweis University, Budapest

⁽²⁾ Institute of Biochemistry, Biological Research Center of the Hungarian Academy of Sciences, Szeged

⁽³⁾ Department of Pharmaceutical Chemistry, Semmelweis University, Budapest

Novel opioid produces measurable peripheral antinociception after local or systemic administration

Nóra Gampe, András Darcsi, Szabolcs Béni, László Kursinszki

Semmelweis University, Department of Pharmacognosy, Budapest, Hungary

Homonipecotic acid derivatives: new natural products isolated from spiny retharrow

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

Köteles István

Semmelweis Egyetem, Gyógyszerésztudományi Kar, Gyógyszerészi Kémiai Intézet, Budapest
Possibilities of anti-drug vaccine design

Miklós Lengyel

Department of Physiology, Semmelweis University, Budapest
Cloxyquin (5-chloroquinolin-8-ol) is a selective and state dependent activator of TRESK background K⁺ channel

Moritz Zürn

Department of Plant Anatomy, Institute of Biology, ELTE TTK, Budapest
Isomerization study of the phenylethanoid acteoside isolated from its new and rich source: gall of Fraxinus angustifolia

Rita Könye^{1,2}

1 Department of Pharmacognosy, Semmelweis University, Budapest, Hungary
2 Department of Plant Anatomy, Institute of Biology, Eötvös Loránd University, Budapest, Hungary
Taxon-specific accumulation of new, antiproliferative neo- and sesquiterpeneolignans in the fruits of Cirsium species

Krisztina Süle^{1,2}, Anna Blázovics¹, Egressy Anna¹, Zoltán May², Klára Szentmihályi²

1 Research Centre of Natural Sciences of the Hungarian Academy of Sciences/Institute of Material and Environmental Chemistry
2 Semmelweis University/Institute of Farmacognosy, Semmelweis University
The importance of investigating antioxidant capacity and metal element content in herbal dietary supplements

Balogh Károly - Varga István room

9:50–11:30 Oral Presentations: Mental Health

Chairmen: Dr. István Bitter, Dr. Róbert Bódizs, Dr. Pál Czobor, Pethesné Dr. Beáta Dávid

Tamás Dömötör Szalai¹, Edit Czeglédi¹

1 Semmelweis University, Institute of Behavioural Sciences, Budapest
Parental and Adult Attachment and Eating Symptomology in Eating Disorder Patients and Sine Morbo Individuals

Szilvia Zörgő¹, Ágnes Zana¹

1 Institute of Behavioural Sciences, Semmelweis University, Budapest
Cultural dispositions leading to complementary and alternative medicine use a medical anthropological analysis

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

Lengyel Ingrid

Semmelweis Egyetem/Budapest

Patient information as a right of hypertension patients presenting in primary GP care

Zsák Éva

Semmelweis University Institute of Behavioural Sciences Budapest

Legislative and protocol measures in perinatal mortality and their application in hungarian institutions

Benedek Zsófia¹, Belicza Éva², Vártokné Hevér Noémi³, Takács Erika⁴

¹ Bajcsy -Zsilinszky Kórház és Rendelőintézet, Budapest

^{2,4} Semmelweis Egyetem, Egészségügyi Menedzserképző Központ, Budapest

³ Semmelweis Egyetem, Egészségtudományi Kar, Budapest

Testing a methodology for finding surgical adverse events.- Pilot study of BELLA program

Csaba Bálint

Semmelweis University, Health Services Management Training Centre, Budapest

Childbearing Motivations of Adolescents and Young Adults Living in Large Families

Szvák Enikő¹, Pap Ildikó², Pálfi György¹,

Győry Hedvig³, János István⁴, Szikossy Ildikó²

¹ University of Szeged, Ph.D. School in Biology, Humanbiology-Antropology

² Hungarian Natural History Museum, Department of Anthropology

³ Museum of Fine Arts,

⁴ University of Nyíregyháza, Institute of Environmental Science

The mummification as a body preservation process - based on the Ptolemaic period mummies from Gamhad, Egypt

Simoncsics Eszter¹, Stauder Adrienne²

¹ Rehabilitációs Centrum, Egyesített Szent István és Szent László Kórház

² Semmelweis Egyetem, Magatartástudományi Intézet

The effect of appraisal on dysfunction in chronic pain patients

Gergely Mészáros^{1,2}; Lili Olga Horváth³, Dóra Szentiványi³, Judit Balázs^{1,2,4}

¹ Semmelweis University School Of Ph.D.

² Vadaskert Child Psychiatry Hospital and Outpatient Clinic

³ Institute of Psychology, Eötvös Loránd University, School of Ph.D.

⁴ Institute of Psychology, Eötvös Loránd University

Nonsuicidal self-injury, its psychopathological correlates and association with pathological internet use among adolescents

Mónika Gubányi¹, Tamás Martos ^{1,2}, Miklós Illéssy ³

¹ Institute of Mental Health, Semmelweis University, Budapest

² Department of Health, Personality and Clinical Psychology, University of Szeged, Szeged

³ Institute for Sociology, Centre for Social Sciences, HAS, Budapest

Equilibrant internal and external relationship Forces in Hungarian, Polish, British Business Families:

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

in the Light of ten cases' Being and Functioning

Andrea Edit Edes 1,2, Shane McKie 3, Terezia Zsombok 1,2, Daniel Baksa1,2, Gyorgy Bagdy 2,4,5, Gabriella Juhasz 1,2,3,4,5

1 MTA-SE-NAP B Genetic Brain Imaging Migraine Research Group, Budapest, Hungary

2 Department of Pharmacodynamics, Faculty of Pharmacy, Semmelweis University, Budapest, Hungary

3 Neuroscience and Psychiatry Unit, The University of Manchester, UK and Manchester Academic Health Sciences Centre

4 MTA-SE Neuropsychopharmacology and Neurochemistry Research Group, Budapest, Hungary

5 NAP-A-SE New Antidepressant Target Research Group, Budapest, Hungary

Increased fMRI BOLD signal response of anterior cingulate cortex during serotonergic challenge in migraine

HALL

11:45–12:45 Poster Presentation: Pharmaceutical

Chairman: Dr. László Órfi

Agnes Feher, Viktoria Eva Toth, Bernadette Lazar, Klara Gyires, Zoltan Sandor Zadori
Department of Pharmacology and Pharmacotherapy, Semmelweis University, Faculty of Medicine
The beneficial effects of the novel $\alpha 2B/\alpha 2C$ –AR and 5-HT1A agonist cyclomethyline on gastric mucosal integrity and on gastrointestinal motility

Eszter Kiss, Semmelweis University, Department of Pharmaceutical Chemistry
Multispectroscopic analysis of DNA-binding of the anticancer drug sunitinib (Sutent[®])

Adrienn Kazsoki1, Péter Szabó1, Barnabás Palcsó1, Károly Süvegh2, Romána Zelkó1
1 University Pharmacy Department of Pharmacy Administration, Semmelweis University, Budapest
2 Laboratory of Nuclear Chemistry, Eötvös Loránd University, Budapest
Tracking of the optimum composition of hydroxypropyl cellulose-polyvinyl alcohol aqueous solutions containing papaverine hydrochloride for fiber formation

István Molnár1,2, István Szalai2
1 Semmelweis University, School of PH.D. studies, Budapest
2 Eötvös Loránd University, Institute of Chemistry, Budapest
Spatial Self-organization in Inorganic Bromate Oscillators

Ádám Orosz 1, Krisztina Kiss 2, Beáta Biri-Kovács 2, Rita Oláhné Szabó 2, Gabriella Csík 1, Gábor Mező 2

1 Semmelweis Egyetem Biofizikai és Sugárbiológiai Intézet

2 MTA-ELTE Petidkémiai Kutatócsoport

Cellular uptake and subcellular localization of novel daunorubicin-peptide conjugates

Fruzsina Bagaméry1, Éva Szökő1, Róbert Gáspár2, Tamás Tábi1

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

1 Department of Pharmacodynamics, Semmelweis University, Budapest, Hungary

2 Department of Pharmacodynamics and Biopharmacy, University of Szeged, Szeged Hungary

Alteration of insulin receptor substrate 1 (IRS-1) phosphorylation in different tissues in diet induced obesity in rats

Mihály Szabó, László Őrfi

Semmelweis University, Department of Pharmaceutical Chemistry, Budapest

Preparation and examination of the low-molecular-weight tyrosine kinase inhibitors

14:05–15:45 Poster Presentation: Mental Health

Chairmen: Dr. László Tringer, Dr. Zsuzsa Széman, Dr. Ágnes Zana

Réka Koren, Szabolcs Török

Institute of Mental Health, Semmelweis University, Budapest

The effects of Emotionally Focused Couple Therapy training on therapists

Ágnes Vincze¹, Adrienne Stauder²

¹ Semmelweis University/1st Department of Internal Medicine, Budapest

² Semmelweis University, Institute of Behavioural Sciences, Budapest

Adherence as a habit The impact of personality traits on habit forming in type 2 diabetes mellitus

Pató Irina^{1,2}, Szabó Gabriella², Erdélyi-Belle Boglárka², Perczel -Forintos Dóra²

¹ National Institution of Prison of Szombathely

² Semmelweis University, Faculty of Medicine, Department of Clinical Psychology

Impulsivity, as a risk factor of the probability of suicide.

Leindler, Milán

SE Magatartástudományi Intézet, Budapest

Studying the applicability of a 3D modelling program, the DAZ Studio on the field of body image measurement

Gergő Merész

Health Services Management Training Centre, Semmelweis University, Budapest, Hungary

Mining procurement data of the Hungarian healthcare sector

Kinga Vajda

Institute of Mental Health Semmelweis University, Budapest

Challenges and opportunities for elderly people's day care services in the light of growing and changing needs

Takács Rozalia ¹, Gabor Gazdag ²

¹ Tóth Ilona Medical Service, Psychiatric Outpatient Service, Budapest, Hungary

² Szent István and Szent László Hospitals, Budapest, Hungary

Catatonia in gerontopsychiatric patients

Csilla Marosi, Barbara Sebe, Gábor Csukly

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

Department of Psychiatry and Psychotherapy, Semmelweis University, Budapest

Emotion recognition in schizophrenia: an ERP-study

Cecília Surján

Health Services Management Training Centre, Semmelweis University Faculty of Health and Public Services, Budapest, Hungary

Analysis of factors influencing the quality of hip-fracture care in Hungary

Eszter Komoróczy, János Réthelyi

Semmelweis Egyetem Pszichiátriai és Pszichoterápiás Klinika, Budapest

Psychiatric co-morbidity and complications in liver transplantation

Anna Rácz, Zsolt Unoka

Semmelweis University/Department of Psychiatry and Psychotherapy

Borderline patients' representations about their parents' early parenting behaviors

László Szandra

Institute of Psychology, Pázmány Péter Catholic University

Behavioural training for sleep problems in Williams syndrome

15:45–17:25 Poster Presentation: Clinical Sciences

Chairman: Dr. György Reusz

Vági OE 1 , Körei AE 1, Putz Z 1, Istenes I 1 , Hajdú N 1, Kempler MS 2, Torzsa P 3, Kempler P 1

1 1st Department of Internal Medicine, Semmelweis University, Budapest

2 3rd Department of Internal Medicine, Semmelweis University, Budapest

3 Department of Family Medicine, Semmelweis University, Budapest

Diminished sensory nerve function among patients with high risk for the development of type 2 diabetes mellitus screened by the FINDRISC questionnaire

Elnaz Kasiri 1 , Viktor Gál 2 , Ákos Nádasdi 1 , Klara Rosta 3, Anikó Somogyi 1, Gábor Firneisz 1,4

1 2nd Department of Internal Medicine, Semmelweis University, Budapest, Hungary.

2 BIC unit of RCNS of the Hungarian Academy of Sciences (HAS).

3 Department of Obstetrics and Gynecology, Medical University of Vienna, Vienna, Austria, 1st

Department of Obstetrics and Gynecology, Semmelweis University, Budapest, Hungary.

4 Hungarian Academy of Sciences - Semmelweis University, Molecular Medicine Research Group, Budapest, Hungary.

Association between intra pancreatic lipid content and HbA1c levels in middle aged Hungarian women with a history of gestational diabetes mellitus.

Rengeiné Kiss Tímea, Máthé Zoltán, Dinya Elek, Mészáros Judit, Fazakas János

Clinic of Transplantation and Surgery, Semmelweis University

Faculty of Health and Public Services, Semmelweis University

Faculty of Health Sciences, Semmelweis University

Hemostasis reserve capacity during bloodless liver transplantation

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

Zoltan Kiss¹, Bálint Tél¹, Péter Mátrai³, Nóra Judit Béres¹, András Arató¹, Katalin Eszter Müller¹, Áron Cseh¹, Attila J. Szabó^{1,2}, Péter Hegyi³, Katalin Borka⁴, Gábor Veres¹

¹ 1st Department of Pediatrics, Semmelweis University, Budapest, Hungary

² MTA-SE Pediatrics and Nephrology Research Group, Budapest, Hungary

³ Institute for Translational Medicine, Medical School, University of Pécs, Pécs, Hungary.

⁴ 2nd Dep. of Pathology, Semmelweis University, Budapest, Hungary

Eosinophil cell density in the lower gastrointestinal tract of healthy individuals

Balázs Odler M.D.¹, Vivien Somogyi¹, Veronika Müller M.D., Ph.D.¹

¹ Semmelweis University, Department of Pulmonology, Budapest

Heat shock protein 70 correlates with platelet number in patients with chronic obstructive pulmonary disease

Csaba Sumánszki¹, Fanni Palásti¹, Krisztián Kovács², Gellért Karvaly², Erika Kiss³, Erika Simonova³, Atilla Patócs^{2,4,5}, Péter Reismann¹.

¹ 2nd Department of Medicine, Semmelweis University, Budapest

² Department of Laboratory Medicine, Semmelweis University, Budapest

³ 1st Department of Pediatrics, Semmelweis University, Budapest

⁴ Molecular Medicine Research Group, Hungarian Academy of Sciences and Semmelweis University

⁵ "Lendület-2013" Research Group, Hungarian Academy of Sciences and Semmelweis University

Physiologic and catecholaminergic response to stress in adult patients with phenylketonuria

Ádám L Jermendy¹, Alexis Panajotu¹, Márton Kolossváry¹, Sára Papp¹, Ferenc I Suhai¹, Dávid L Tárnoki², Júlia Karády¹, Béla Merkely¹, Pál Maurovich-Horvat¹

¹ MTA-SE Lendület Cardiovascular Imaging Research Group, Budapest

² Semmelweis University Department of Radiology, Budapest

Pancreatic Lipid Deposition is Determined by Environmental Rather Than Genetic Factors: a Classical Twin Study

Janos Major¹, Szilvia Adam¹

¹ Institute of Behavioral Sciences, Budapest

Epidemiology of pain predominant functional gastrointestinal disorders among teenagers in Hungary

Maihoub Stefani

SE Department of Otorhinolaryngology, Head and Neck Surgery, Budapest

Ultrasound-computer-craniocorpography in peripheral vestibular disorders

R. Fazekas¹, E. Molnár¹, Z. Lohinai¹, B. Molnár², G. Michailovits², P. Windisch², J. Vág¹

¹ Department of Conservative Dentistry, Faculty of Dentistry, Semmelweis University, Budapest

² Department of Periodontology, Faculty of Dentistry, Semmelweis University, Budapest

Revascularisation of the human mucosa after vestibuloplasty procedures

Judit Szepesy ^{1,2}, Viktoria Humli ^{3,2}, Laszlo Tamas ¹, Anita Gaborjan ¹, Tibor Zelles ^{2,3}

¹ Semmelweis University Otorhinolaryngology, Head and Neck Surgery, Budapest

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

2 Semmelweis University Department of Pharmacology and Pharmacotherapy, Budapest

3 Institute of Experimental Medicine of the Hungarian Academy of Sciences, Budapest

Setting up a mouse model for repeated moderate noise induced hearing loss

Szabolcs Talpai 1, Viktória Humli 2,3, Judit Szepesy 3,1, László Tamás 1, Tibor Zelles 2,3, Anita Gáborján 1

1 Semmelweis University, Dept. of Otorhinolaryngology, Head and Neck Surgery

2 Institute of Experimental Medicine, Hungarian Academy of Sciences

3 Semmelweis University, Dept. of Pharmacology and Pharmacotherapy

Cisplatin induced hearing loss: setting up an animal model

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

12 April 2017

Hall

8:00-9:00 On-site registration

Árkövy József lecture room

9:00–9:20 Excellent PhD supervisor Dr. Béla Merkely

9:20–11:20 Oral Presentations: Cardiovascular

Chairman: Dr. Béla Merkely

Márton Kolossváry

MTA-SE Cardiovascular Imaging Research Group, Heart and Vascular Center, Semmelweis University

Radiomic features of high risk coronary lesions

Benke Kálmán 1, Mátyás Csaba 1, Sayour Alex Ali 1, Oláh Attila 1, Németh Balázs Tamás 1, Ruppert Mihály 1, Szabó Gábor 2, Hartyánszky István 1, Szabolcs Zoltán 1, Merkely Béla 1, Radovits Tamás 1
1 Heart and Vascular Center, Semmelweis University, Budapest

2 Department of Cardiac Surgery, University of Heidelberg, Germany

Reduction of ischemia/reperfusion injury with pharmacological preconditioning of the donor heart

Mihály Ruppert^{1,2}, Tamás Radovits², Sevil Korkmaz-Icöz¹, Shiliang Li¹, Péter Hegedűs¹, Balázs Tamás Németh², Oláh Attila², Csaba Mátyás², Kálmán Benke², Béla Merkely², Matthias Karck¹, Gábor Szabó¹

1 Department of Cardiac Surgery, University of Heidelberg, Heidelberg, Germany;

2 Heart and Vascular Center, Semmelweis University, Budapest, Hungary

Targeting the nitric oxide-unresponsive soluble guanylate cyclase in a rat model of pressure overload induced left ventricular myocardial hypertrophy and heart failure

Loretta, Kiss¹, Zsolt Bagyura¹, Réka Vadas¹, Árpád Lux¹, Livia Polgár¹, Pál Soós¹, Zsolt Szelid¹, Dávid Becker¹, Béla Merkely¹

Semmelweis University, Heart and Vascular Center, Budapest

Serum uric acid level is independently associated with subclinical atherosclerosis in asymptomatic

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

population

Németh BT^{1,2}, Mátyás C^{1,2}, Varga ZV¹, Radovits T², Merkely B², Pacher P¹

¹ National Institute on Alcohol Abuse and Alcoholism, Rockville, USA

² Heart and Vascular Center, Semmelweis University, Budapest, Hungary

Characterization of a novel mouse model of hepatic cardiomyopathy

Nóra Sydó, Orsolya Kiss, Máté Babity, Hajnalka Vágó, Csilla Czibalmos, Ibolya Csécs, Attila Kovács, Judit Skopál, Béla Merkely

Semmelweis University, Heart and Vascular Center

Sports Cardiology and Exercise Physiology Screening of the Hungarian National Male and Female Waterpolo Teams before the Olympics

Bálint Szilveszter, Borbála Vattay

Semmelweis University, Heart and Vascular Center, MTA-SE Cardiovascular Imaging Research Group

Evaluation of coronary plaque progression using coronary CT angiography

Miklós Vértés¹, Ildikó Zsófia Juhász², Tin Dat Nguyen², Balázs Nemes¹, Kálmán Hüttl¹, Edit Dósa¹

¹ Heart and Vascular Center, Semmelweis University, Budapest

² Semmelweis University, Budapest

Possible risk factors for restenosis after kissing stenting of the iliac arteries

Márta Lídia Debreczeni¹, Erika Kajdácsi¹, Endre Schwaner¹, László Cervenak¹

Semmelweis University, 3rd Department of Internal Medicine, Research Laboratory, Budapest

The effect of complement MASP-1 on endothelial cell permeability

András Makkos¹

¹ PhD student, Semmelweis University Department of Pharmacology and Pharmacotherapy, Budapest

Investigation of simulated ischemia/reperfusion injury in an in vitro hyperlipidemic comorbidity model

Szilvia Herczeg, Nándor Szegedi, Klaudia Vivien Nagy, Katalin Piros, Zoltán Salló, István Osztheimer, Béla Merkely, Gábor Széplaki, László Gellér

Heart and Vascular Center of Semmelweis University, Budapest

Silent cerebral ischaemia after point-by-point radiofrequency pulmonary vein isolation

Peter Bogyi², Mate Vamos¹, Zsolt Bari², Denes Vagany², Balazs Polgar², Balazs Muk², Noemi Nyolczas², Robert Gabor Kiss², Gabor Zoltan Duray²

¹ J.W. Goethe University, Department of Cardiology, Frankfurt am Main, Germany

² Hungarian Defence Forces Medical Centre, Department of Cardiology

Use of remote monitoring systems improves survival among chronic systolic heart failure patients after CRT-D implantation

11:20–11:35 Coffee Break

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

11:35–13:05 Oral Presentations: Oncology

Dr. József Tímár

Balázs Ács 1, Lilla Madaras 1, Anna-Mária Tőkés 1, Attila Kristóf Kovács 1, Ede Birtalan 2, Magdolna Dank 3, A. Marcell Szász 1,3, Janina Kulka 1

1 2nd Department of Pathology, Semmelweis University

2 Department of Oto-Rhino-Laryngology, Head and Neck Surgery, Semmelweis University

3 Department of Clinical Oncology, Semmelweis University

Immune checkpoint markers in pregnancy-related – and in early-onset breast cancer: A comparative study

D.K. Tihanyi¹, A. Budai¹, T. Kovacs¹, A. Fulop¹, T.M. van Gulik², P. Olthof², A. Szijarto¹

1 Semmelweis University, 1st Department of Surgery, Budapest, Hungary

2 Academisch Medisch Centrum, Department of Experimental Surgery; Amsterdam, Netherlands

Role of the gut-liver axis in accelerated liver regeneration

Pál Perge¹, Henriett Butz², Raffaele Pezzani³, Irina Bancos⁴, Zoltán Nagy¹, Ábel Decmann¹, Michaela Luconi⁵, Massimo Mannelli⁵, Edit I. Buzás⁶, Miklós Tóth¹, Marco Boscaro³, Attila Patócs^{2,7}, Peter Igaz¹

1 2nd Department of Medicine, Semmelweis University

2 Molecular Medicine Research Group, Hungarian Academy of Sciences and Semmelweis University

3 Endocrinology Unit, Department of Medicine, University of Padua

4 Division of Endocrinology, Diabetes, Metabolism and Nutrition, Department of Internal Medicine

5 Department of Experimental and Clinical Biomedical Sciences, Endocrinology Unit, University of Florence

6 Department of Genetics, Cell- and Immunobiology

7 “Lendület-2013” Research Group, Hungarian Academy of Sciences and Semmelweis University,

Evaluation of circulating extracellular vesicle-associated microRNAs as minimally invasive biomarkers of adrenocortical tumors

Judit Csányiné Sági 1, Bálint Egyed 1,2; Nóra Kutszegi 1,2; Andrea Kelemen 1, Gábor T. Kovács 2, Csaba Szalai 1,3; Dániel János Erdélyi 2, Ágnes Félné Semsei 1

1 Department of Genetics, Cell- and Immunobiology, Semmelweis University, Budapest, Hungary;

2 2nd Department of Pediatrics, Semmelweis University, Budapest, Hungary;

3 Heim Pal Children Hospital, Budapest, Hungary;

Cardiotoxicity of anthracyclines in pediatric patients with cancer

Nóra Garam¹, Éva Maláti¹, Sinkovits György¹, Tímea Gombos¹, Lóránd Barabás², László Gráf¹, Judit Kocsis¹, Zoltán Prohászka¹

1 3rd Department of Internal Medicine, Faculty of Medicine, Semmelweis University, Budapest, Hungary

2 2nd Department of Surgery, Faculty of Medicine, Semmelweis University, Budapest, Hungary

Platelet count, ADAMTS13 activity, von-Willebrand Factor level and survival in patients with colorectal cancer: 5-year follow up study

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

Balázs Sarkadi^{1,2}, Istvan Liko^{1,3}, Otto Darvasi¹, Károly Rácz^{2,3,4}, Attila Patócs^{1,3, 5}

1 HAS-SE “Lendulet” Hereditary Endocrine Tumors Research Group, Hungarian Academy of Sciences and Semmelweis University, Budapest, Hungary

2 2nd Department of Medicine, Semmelweis University, Budapest, Hungary

3 Bionics Innovation Center, Budapest, Hungary

4 HAS-SE Molecular Medicine Research Group, Hungarian Academy of Sciences and Semmelweis University, Budapest, Hungary

5 Department of Laboratory Medicine, Semmelweis University, Budapest, Hungary

Phenotype modifiers in patients with germline SDHB mutations

Zsolt Mervai, Krisztina Egedi, Ilona Kovalszky, Kornélia Baghy

1st Department of Pathology and Experimental Cancer Research, Semmelweis University, Budapest

Diethylnitrosamine induces lung adenocarcinoma in FVB/N mouse

Eszter Molnár¹, Tamás Garay^{1,2}, Dominika Rittler¹, Michael Grusch³, Walter Berger³, Balázs Döme^{4,5,6}, József Tímár^{1,2}, Balázs Hegedűs^{2,5,7}

1 2nd Department of Pathology, Semmelweis University, Budapest, Hungary

2 HAS-SE Molecular Oncology Research Group, Budapest, Hungary

3 Institute of Cancer Research, Medical University of Vienna, Vienna, Austria

4 National Korányi Institute of TB and Pulmonology, Budapest, Hungary

5 Department of Thoracic Surgery, Medical University of Vienna, Vienna, Austria

6 Department of Thoracic Surgery, Semmelweis University, Budapest, Hungary

7 Department of Thoracic Surgery, Ruhrlandklinik, University Duisburg-Essen, Germany

Combination of pan-RAF and MEK inhibition in nonV600E BRAF mutant cell lines

Gábor Petővári¹, Zoltán Hujber¹, Titanilla Dankó¹, Norbert Szoboszlai², Noémi Nagy¹, Ildikó Krencz¹, Annamária Tőkés³, Janina Kulka³, Judit Pápay¹, Melinda Hajdu¹, András Jeney¹, Anna Sebestyén^{1,4}

1 First Department of Pathology and Experimental Cancer Research, Semmelweis University, Budapest, Hungary

2 Laboratory of Environmental Chemistry and Bioanalytics, Department of Analytical Chemistry, Institute of Chemistry, Eötvös Loránd University, Budapest, Hungary

3 Second Department of Pathology, Semmelweis University, Budapest, Hungary

4 Tumor Progression Research Group Joint Research Organization of Hungarian Academy of Sciences and Semmelweis University, Budapest, Hungary

Characterisation of metabolic and mtor activity in different breast cancer subtypes

13:05–13:50 Lunch

13:50–14:10 Invited speaker Dr. Attila Patócs

14:10–16:50 Oral Presentations: Neurosciences

Chairman: Dr. Árpád Dobolyi

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

Nora Angyal¹, Erzsebet Zsofia Horvath¹, Zsanett Tarnok², Zsofia Nemoda¹

¹ Institute of Medical Chemistry, Molecular Biology and Pathobiochemistry, Semmelweis University, Budapest, Hungary

² Vadaskert Child and Adolescent Psychiatric Clinic, Budapest, Hungary

Genetic association analysis of norepinephrine transporter polymorphisms and methylphenidate response in ADHD patients

Hajnalka Barta¹

¹ 1st Department of Pediatrics, Semmelweis University

Prognostic performance of proton magnetic resonance spectroscopy metabolite ratios in the first 96 hours of life in asphyxiated neonates

Viktória Humli ^{1,2}; Judit Szepesy ^{3,1}; István Gyertyán ¹; Katalin Schlett ⁴; László Buday ⁵; Tibor Zelles ¹

¹ Semmelweis University Department of Pharmacology and Pharmacotherapy, Budapest

² Institute of Experimental Medicine of the Hungarian Academy of Sciences, Laboratory of Drug Research, Budapest

³ Semmelweis University Department of Department of Otorhinolaryngology, Head and Neck Surgery, Budapest

⁴ Eötvös Loránd University Faculty of Science, Institute of Biology, Department of Physiology and Neurobiology, Budapest

⁵ Hungarian Academy of Sciences, Research Centre for Natural Sciences, Institute of Enzymology, Budapest

Age-dependent hearing impairment in Caskin KO mice

¹ Frigyes Samuel Racz, Department of Physiology, Semmelweis University, Budapest

² Peter Mukli, Department of Physiology, Semmelweis University, Budapest

Investigating the impact of cognitive load on network measures in the prefrontal cortex - a functional near-infrared spectroscopic (fNIRS) study

Gyula Gyebnár ¹, Ádám Szabó ¹, Enikő Sirály ², Zsuzsanna Fodor ², Anna Sákovics ³, Pál Salacz ^{2,4}, Zoltán Hidasi ², Éva Csibri ², Gábor Rudas ¹, Gábor Csukly ², Lajos R Kozák ¹

¹ Magnetic Resonance Research Centre, Semmelweis University, Budapest

² Department of Psychiatry and Psychotherapy, Semmelweis University, Budapest

³ National Institute of Clinical Neurosciences, Budapest

⁴ Department of Neurology, Péterfy Hospital and Trauma Centre, Budapest

DTI in early cognitive decline: Differentiation between MCI subtypes and healthy controls by diffusion tensor imaging

László Halász¹, Dávid Kis², László Entz¹, Gertrúd Tamás⁴, Dániel Fabó³, Loránd Erőss¹

¹ National Institute of Clinical Neurosciences, Department of Functional Neurosurgery and Centre for Neuromodulation, Budapest

² University of Szeged, Department of Neurosurgery, Szeged

³ National Institute of Clinical Neurosciences, Department of Neurology, Budapest

⁴ Semmelweis University, Department of Neurology, Budapest

Probabilistic tractography can reveal optimal stimulation sites in Parkinson's disease

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

Péter P. Ujma¹, Róbert Bódizs¹, Martin Dresler²

¹ Semmelweis University, Institute of Behavioural Sciences, Budapest, Hungary

² Max Planck Institute of Psychiatry, Munich, Germany

Sex differences in sleep spindle lateralization

Eszter Szabo¹, Reka Mizsei¹, Agnes Hubert¹, Zsofia Zambo¹, Piotr Wilk², Beata Torocsik¹, Manfred S. Weiss², Vera Adam-Vizi¹ and Attila Ambrus¹

¹ Department of Medical Biochemistry, MTA-SE Laboratory for Neurobiochemistry, Semmelweis University, Budapest, Hungary

² Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany

High-resolution structures of four disease-causing mutants of human dihydrolipoamide dehydrogenase

Edit Hathy¹, Sára Kálmán², László Homolya³, Ágota Apáti³, Zsófia Nemoda¹, János Réthelyi^{1,4}

¹ Molecular Psychiatry Research Group, National Brain Research Program (NAP), Hungarian Academy of Sciences, Semmelweis University, Budapest, Hungary

² Department of Psychiatry, University of Szeged, Szeged, Hungary

³ Institute of Enzymology, Research Center for Natural Sciences, Hungarian Academy of Sciences, Budapest, Hungary

⁴ Department of Psychiatry and Psychotherapy, Semmelweis University, Budapest, Hungary

Using an isogenic human induced pluripotent stem cell lines to study the role of disrupted in schizophrenia 1 gene in hippocampal neurogenesis

Tekla Kirizs¹, Miklós Szoboszlay², Zoltán Nusser³

^{1,2,3} Laboratory of Cellular Neurophysiology, Institute of Experimental Medicine, Hungarian Academy of Sciences, Budapest;

^{1,2} János Szentágothai School of Neurosciences, Semmelweis University, Budapest.

Nanoscale distribution of voltage-gated Ca²⁺ channels and release-related proteins in presynaptic active zones

Máté Kiss^{1,2}, Lajos Kozák Rudolf¹, Viktor Gál²

¹ Semmelweis University, MR Research Centre

² Brain Imaging Centre, Research Centre for Natural Sciences, Hungarian Academy of Sciences

The role of the physiological artefacts removal at resting-state functional MRI with

Biborka Bruszik, László Biró, Máté Tóth, Eszter Sipos, Dóra Zelena, Diána Balázsfi, József Haller

Laboratory of Behavioural and Stress Studies, Department of Behavioural Neurobiology, Institute of Experimental Medicine, Hungarian Academy of Sciences, Budapest, Hungary

The role of prefronto-hypothalamic projections in aggressive behaviour

Zoltán Kristóf Varga^{1,2}, Áron Zsigmond³, Máté Varga³, József Haller¹, Manó Aliczki¹

¹ Department of Behavioural Neurobiology, Institute of Experimental Medicine, Hungarian Academy of Sciences, Budapest, Hungary

² Janos Szentagothai Doctoral School of Neurosciences, Semmelweis University, Budapest, Hungary

³ Department of Genetics, Faculty of Science, Eötvös Loránd University, Budapest, Hungary

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

*Context-dependent effects of early life adversities on behavioral and neural plasticity of juvenile zebrafish (*Danio rerio*)*

Máté Durst, Katalin Könczöl, Zsuzsanna E. Tóth

Laboratory of Neuroendocrinology and In Situ Hybridization; Department of Anatomy, Histology and Embryology, Semmelweis University; Budapest, Hungary

Involvement of D1 dopamine receptor in accumbens nucleus in hedonic food intake

Zoltán Balogh^{1, 2}; László Szente¹; Zoltán Kristóf Varga^{1, 2}; László Biró^{1, 2}; József Haller¹; Manó Aliczki¹

¹ Laboratory of Behavioural and Stress Studies, Department of Behavioural Neurobiology, Institute of Experimental Medicine, Hungarian Academy of Sciences, Budapest, Hungary

² Janos Szentagothai Doctoral School of Neurosciences, Semmelweis University, Budapest, Hungary

Endocannabinoid interactions in the regulation of behavioral responses to trauma

16:50–17:20 Closing ceremony

Hall

9:20–11:20 Poster Presentation: Oncology

Chairman: Dr. Ilona Kovalszky

Tibor Kovács¹, András Fülöp¹, András Budai¹, Dóra Tihanyi¹, Kristóf Illés¹, Dániel Sándor Veres², Ildikó Horváth², Krisztián Szigeti², Domokos Máthé^{2,3}, Attila Szijártó¹

¹ Hepato-Pancreatico-Biliary Surgery Research Center Hungary, 1st Department of Surgery, Semmelweis University, Budapest, Hungary

² Department of Biophysics and Radiation Biology, Semmelweis University, Budapest, Hungary

³ CROmed Translational Research Centers, Budapest, Hungary

Imaging of hepatic function following portal vein ligation in rat – The Old, the New and the Shiny

Barbara Kocsis-Deák¹, Kristóf Árvai², Bernadett Balla², Bálint Tóbiás², Andrea Kövesdi², Balázs Járay³, Tamás Székely³, János Horányi⁴, István Takács¹, János Kósa^{1,2}, Péter Lakatos¹

¹ 1st Department of Medicine, Semmelweis University, Budapest, Hungary

² PentaCore Laboratory, Budapest, Hungary

³ 2nd Department of Pathology, Semmelweis University, Budapest, Hungary

⁴ 1st Department of Surgery, Semmelweis University, Budapest, Hungary

A new custom-made multiplex PCR-based hot spot test for the parallel detection of genetic alterations in papillary thyroid cancer tissue

Lőrinc S. Pongor^{1,2}, Ádám Nagy^{1,2}, Boglárka Weltz², Balázs Gyórfy^{1,2}

¹ 2nd Department of Pediatrics, Semmelweis University

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

2 Research Centre for Natural Sciences, Hungarian Academy of Sciences

Performing survival analysis of gene expression signatures associated to genetic alterations in lung cancer patients

Barbara Kinga Barták¹, Alexandra Kalmár¹, Bálint Péterfia¹, Árpád V. Patai¹, Orsolya Galamb², Gábor Valcz², Barnabás Wichmann², Zsófia Brigitta Nagy¹, Kinga Tóth¹, Zsolt Tulassay², Béla Molnár²

¹ 2nd Department of Internal Medicine, Semmelweis University, H-1088 Budapest, Hungary

² Molecular Medicine Research Group, Hungarian Academy of Sciences, H-1088 Budapest, Hungary

Analysis of SFRP1, SFRP2, SDC2 and PRIMA1 promoter methylation for colorectal adenoma and cancer detection in plasma samples

Madera Sandoval Ruth Lizzeth¹, József Tóvrári², Jiménez Oroasco Alejandro³, Vega López Armando¹

¹ National School of Biologics Sciences, National Polytechnic Institute, Ciudad de México, México

² Department of Experimental Pharmacology, National Institute of Oncology, Budapest, Hungary

³ Department of Pharmacology, National Autonomous University of México, Ciudad de México, México

Usefulness of radiosensitizing substance (pentoxifylline) for the treatment of cancer using NKT cells using a solid tumor model in mice

Zsuzsanna Molnár ¹

¹ Department of Medical Chemistry, Molecular Biology and Pathobiochemistry, Budapest

Genetic factors of the glycosylation pattern in lung cancer: a study of biomarkers for prevention and prognosis

Ádám Nagy^{1,2}, Lőrinc Sándor Pongor^{1,2}, Győrffy Balázs^{1,2}

¹ MTA TTK Lendület Cancer Biomarker Research Group, Magyar Tudósok körútja 2., 1117, Budapest, Hungary

² Semmelweis University 2nd Dept. of Pediatrics, Budapest, Hungary

Effect of combined mutational fingerprint of ERBB receptor family on survival in non-small cell lung cancer

Csilla Szundi¹, Laura Vízkeleti^{1,2}, Janina Kulka¹, Zsolt Fülöp³, Emőke Drágus³, Anna-Mária Tótkés^{1,4}

¹ 2nd Department of Pathology, Semmelweis University, Budapest, Hungary

² MTA-SE-NAP, Brain Metastasis Research Group, Semmelweis University, Budapest, Hungary

³ University of Medicine and Pharmacy of Târgu Mureş, Marosvásárhely, Romania

⁴ MTA-SE Tumor Progression Research Group, 2nd Department of Pathology, Semmelweis University, Budapest, Hungary

Examination of tumor infiltrating lymphocytes in breast cancer

Zsófia Sztupinszki¹, Gyöngyi Munkácsy^{2,3}, Péter Herman², Bence Bán¹, Zsófia Pénzváltó², Nóra Szarvas², Balázs Győrffy^{1,2}

¹ 2nd Dept. of Pediatrics, Semmelweis University, Budapest, Hungary

² MTA TTK Lendület Cancer Biomarker Research Group, Budapest, Hungary

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

3 MTA-SE Pediatrics and Nephrology Research Group, Budapest, Hungary

Validation of RNAi Silencing Efficiency Using Gene Array Data shows 18,5% Failure Rate across 429 Independent Experiments

Zsófia Sztupinszki¹, Balázs Gyórfy^{1,2}

¹ 2nd Dept. of Pediatrics, Semmelweis University, Budapest, Hungary

² MTA TTK Lendület Cancer Biomarker Research Group, Budapest, Hungary

Predicting lymph node status in breast cancer based on gene expression signature of the primary tumor

Khochanskiy A.N.,¹

¹ Research Institute of Human Morphology, Moscow, Russia

The influence of myramyldipeptide derivate on tumor-bearing mice

Orsolya Papp¹, Laura Vízkeleti^{1,2}, Viktória Doma¹, Lilla Reiniger^{2,3}, Attila Kovács¹, Violetta Piurkó¹, József Tímár^{1,4}

¹ 2nd Department of Pathology, Semmelweis University, Budapest, Hungary.

² MTA-SE-NAP B Brain Metastasis Research Group

³ 1st Department of Pathology, Semmelweis University, Budapest, Hungary.

⁴ MTA-SE Tumor Progression Research Group, Budapest, Hungary.

Organ-specific CNV patterns of distant metastatic melanomas revealed by aCGH

Noémi Nagy¹, Zoltán Hujber¹, Gábor Petóvári¹, Ildikó Krencz¹, Titanilla Dankó¹, Melinda Hajdu¹, Norbert Szoboszlai², András Jeney¹, Anna Sebestyén^{1,3},

¹ 1st Department of Pathology and Experimental Cancer Research, Semmelweis University, Budapest

² Laboratory of Environmental Chemistry and Bioanalytics, Department of Analytical Chemistry, Institute of Chemistry, Eötvös Loránd University, Budapest, Hungary

³ Tumour Progression Research Group of Joint Research Organization of Hungarian Academy of Sciences, Semmelweis University, Budapest

Metabolic characterisation and mTOR inhibitor induced metabolic alterations in human lymphoma cells

Ildikó Krencz¹, Anna Sebestyén^{1,2}, Zoltán Hujber¹, Gábor Petóvári¹, Noémi Nagy¹, Titanilla Dankó¹, Judit Moldvay³, Judit Pápay¹

¹ 1st Department of Pathology and Experimental Cancer Research, Semmelweis University, Budapest

² Tumor Progression Research Group Joint Research Organization of Hungarian Academy of Sciences and Semmelweis University, Budapest

³ Department of Tumor Biology, National Korányi Institute of TB and Pulmonology, Budapest

The potential predictive role of increased mTORC2 activity in brain metastasis formation of pulmonary adenocarcinomas

D. Mühl¹, D. Kleiner^{1,2,3}, A. Blázovics², É. Sárdi⁴, M. Dankó¹

¹ Semmelweis University Cancer Center

² Semmelweis University Department of Pharmacognosy

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

3 Semmelweis University University Pharmacy Department of Pharmacy Administration,
Semmelweis University

4 Szent István Egyetem Kertészettudományi Kar, Genetika és Növénynevelés Tanszék
Changes in the redox-homeostasis during anticancer treatment in colorectal cancer patients

11:35–13:05 Poster Presentation: Neurosciences

Chairman: Dr. Dániel Bereczki

Zsófia Giricz, Ágnes Fehér, Anna Juhász, Andrea Koncz, Magdolna Pákáski, Zoltán Janka, János Kálmán

Department of Psychiatry, University of Szeged, Szeged, Hungary

No association between ABCA1 promoter polymorphism and Alzheimer's disease risk

Dániel Kuti^{1,2}, Ágnes Polyák^{2,3}, Zsuzsanna Winkler^{1,2}, Dóra Kővári^{1,2}, Krisztina Horváth^{2,4},
Szilamér Ferenczi², Krisztina J. Kovács²

1 János Szentágothai Doctoral School of Neurosciences/ Semmelweis University, Budapest

2 Laboratory of Molecular Neuroendocrinology/ Institute of Experimental Medicine, Budapest

3 Tamás Roska Doctoral School of Sciences and Technology, Pázmány Péter Catholic University,
Budapest

4 University of Veterinary Medicine, Budapest

Gut microbiota as a target for supplementary therapy of chronic stress-related depression

Nóra Eszlári^{1,2,3}, András Millinghoffer^{2,3,4}, Péter Petschner^{1,2,3}, Xénia Gonda^{2,3,5}, Dániel
Baksa^{2,6}, Péter Antal^{2,3,4}, György Bagdy^{1,2,3}, Gabriella Juhász^{1,2,3,6,7}

1 Department of Pharmacodynamics, Faculty of Pharmacy, Semmelweis University, Budapest,
Hungary;

2 MTA-SE Neuropsychopharmacology and Neurochemistry Research Group, Hungarian Academy of
Sciences, Semmelweis University, Budapest, Hungary;

3 NAP-A-SE New Antidepressant Target Research Group, Hungarian Brain Research Program,
Semmelweis University, Budapest, Hungary;

4 Department of Measurement and Information Systems, Budapest University of Technology and
Economics, Budapest, Hungary;

5 Department of Psychiatry and Psychotherapy, Kutvolgyi Clinical Centre, Semmelweis University,
Budapest, Hungary;

6 MTA-SE-NAP B Genetic Brain Imaging Migraine Research Group, Hungarian Academy of Sciences,
Semmelweis University, Budapest, Hungary;

7 Neuroscience and Psychiatry Unit, Institute of Brain Behaviour and Mental Health, University of
Manchester, Manchester, United Kingdom

SORCS3 gene replicated in the gene-based genomic background of neuroticism

Veronika Balogh, Sándor Borbély, Péter Barthó

NAP-B Sleep Oscillations Research Group, Hungarian Academy of Sciences, Research Centre for
Natural Sciences, Budapest

Shaping of thalamic network activity by layer 6 corticothalamic feedback

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

György Perczel 1 2, Loránd Erőss 1 2, Dániel Fabó 3, László Gerencsér 4, Zsuzsanna Vágó 1

1 Faculty of Information Technology and Bionics, Pázmány Péter Catholic University, Budapest

2 Department of Functional Neurosurgery and Center of Neuromodulation, National Institute of Clinical Neurosciences, Budapest

3 Department of Epileptology, National Institute of Clinical Neurosciences, Budapest

4 Institute for Computer Science and Control, Hungarian Academy of Sciences, Budapest

Analysis of EEG data of epileptic patients based on the estimation of Hawkes' self-exciting point processes

Péter Pál Böjti¹, Noémi Eszter Bartha², Zoltán Szakács¹, Géza Szilágyi¹

¹ Department of Neurology, Medical Centre Hungarian Defence Forces, Budapest, Hungary; János

Szentágothai Doctoral School of Neurosciences, Semmelweis University, Budapest, Hungary

² Neurology Clinic II, Mureş County Clinical Emergency Hospital, University of Medicine and Pharmacy of Târgu Mureş, Târgu Mureş, Romania

The importance of patent foramen ovale and transcranial Doppler sonography in cryptogenic stroke

Gergo Horvath¹, Mátyás Horváth¹, Krisztina Tóth¹, Gergely Svab¹, Vera Adam-Vizi¹, Laszlo Tretter¹

¹ Department of Medical Biochemistry, MTA-SE Laboratory for Neurochemistry, Semmelweis University

Neuroprotective effects of the cyclophilin d deficiency in β -amyloid mouse model

V. Kanti¹, B. Barsy¹, K. Kocsis^{1,2}, A. Magyar¹, A. Babiczky¹, K. Varga¹, F. Matyas¹

¹ Hungarian Academy of Sciences, Research Center of Natural Sciences, Budapest

² Pázmány Péter Catholic University, Budapest

Role of the midline thalamus in fear learning and anxiety

Zsofia Zambo, Agnes Hubert, Balint Nagy, Vera Adam-Vizi and Attila Ambrus

Department of Medical Biochemistry, MTA-SE Laboratory for Neurobiochemistry, Semmelweis University, Budapest, Hungary

Structural investigation of the human alpha-ketoglutarate dehydrogenase complex

István Vincze¹, Tamás Tábi¹, Éva Szökő¹

¹ Semmelweis University, Department of Pharmacodynamics, Budapest, Hungary

Study on D-serine transport into SH-SY5Y neuroblastoma cells by chiral capillary electrophoresis

A. Lakatos¹, M. Kolossvary^{1,3}, M. Szabo², Z. Bagyura³, G. Rudas¹, L.R. Kozak¹

¹ MR Research Center, Semmelweis University, Budapest

² First Dept. of Paediatrics, Semmelweis University, Budapest

³ MTA-SE „Lendület” Cardiovascular Imaging Research Group, Budapest

Neonatal encephalopathy – role of birth trauma

Dániel Schlingloff^{1, 2}, Virág Tresóné-Takács¹, Csaba Cserép¹, Gábor Nyíri¹, Tamás F. Freund¹, Attila I. Gulyás¹

¹ Laboratory of Cerebral Cortex Research, Institute of Experimental Medicine, Hungarian Academy of Sciences, Budapest

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

2 János Szentágothai School of Neurosciences, Semmelweis University, Budapest
Examination of the septo-hippocampal cholinergic pathway

14:10–15:00 Poster Presentation: Basic Sciences

Chairman: Dr. László Rosivall

Dóra Kővári 1, Réka Babai 2, Dániel Kuti 1, Ágnes Polyák 1, Zsuzsanna Winkler 1, Krisztina Horváth 3, Szilamér Ferenczi 1, Krisztina J. Kovács 1

1 Institute of Experimental Medicine of the Hungarian Academy of Sciences

2 Budapest University of Technology and Economics

3 University of Veterinary Medicine

Effects of a manno-oligosaccharide prebiotic (MOS) in DSS-induced ulcerative colitis model

Dzhalilova D.Sh. 1, Kosyreva A.M. 1, Tsvetkov I.S. 1, Diatroptov M.E. 1

1 Research Institute of Human Morphology, Moscow, Russia

Intensity of LPS-induced inflammation of Wistar rats with different hypoxia tolerance

Zolotova N.A. 1 2, Polikarpova A.V. 1 2

1 Research Institute of Human Morphology, Moscow, Russia

2 Lomonosov Moscow State University, Moscow, Russia

Colonic mucin barrier in acute and chronic DSS colitis

Tikhonov E.A. 1 2, Makarova O.V. 1 2

1 Lomonosov Moscow State University, Moscow, Russia

2 Research Institute of Human Morphology, Moscow, Russia;

The change in the 5-HT content and the number of enteroendocrine cells in different parts of the colon in postnatal ontogenesis of rats.

Kapitanova K.S. 2, Tsvetkov I.S. 1, Posstovalova E.A. 1 2

1 Research Institute of Human Morphology, Moscow, Russia;

2 Lomonosov Moscow State University, Moscow, Russia

Morphological change of immune system organs in male C57Bl/6 mice with hyperandrogenemia

Balint Nagy, Agnes Hubert, Zsafia Zambo, Vera Adam-Vizi, Attila Ambrus

Department of Medical Biochemistry, MTA-SE Laboratory for Neurobiochemistry, Semmelweis University, Budapest

Production and NMR examination of the interface domain-deleted human dihydrolipoamide dehydrogenase

15:00–15:40 Poster Presentation: Cardiovascular

Chairman: Dr. Tamás Radovits

Gyöngyi Szakadát1, András Balla1,2, László Hunyady1,2

1 Department of Physiology, Faculty of Medicine, Semmelweis University, Budapest

2 MTA-SE Laboratory of Molecular Physiology, Budapest

PhD Scientific Days 2017

Budapest, 11–12 April, 2017

Determination of type 1 angiotensin II receptor activation induced gene expression changes in rat vascular smooth muscle cells

Csilla Czibalmos¹, Hajnalka Vágó¹, Ibolya Csécs¹, Attila Tóth¹, Ferenc Suhai¹, Bea Horváth¹, Zsófia Dohy¹, Tamás Simor², Dávid Becker¹, Béla Merkely¹

¹ Heart and Vascular Center, Semmelweis University, Budapest

² Heart Institute, Faculty of Medicine, University of Pécs, Pécs

Distinguishing arrhythmogenic right ventricular cardiomyopathy (ARVC) from athlete's heart using cardiac magnetic resonance imaging (CMR)

Tünde Berecz^{1,2}, Andrea Molnár², Irén Haltrich³, László Homolya¹, Béla Merkely², Gábor Földes^{2,4}, Ágota Apáti¹

¹ Institute of Enzymology, Research Centre for Natural Sciences, Budapest, Hungary

² Heart and Vascular Center, Semmelweis University, Budapest, Hungary

³ 2nd Department of Pediatrics, Semmelweis University, Budapest, Hungary

⁴ National Heart and Lung Institute, Imperial College, London, United Kingdom

Induced pluripotent stem cell-based modelling of DiGeorge syndrome

Ibolya Csécs, Csilla Czibalmos, Ferenc I Suhai, Róbert Mikle, Zsófia Dohy, Beáta Horváth, Attila Tóth, Béla Merkely, Hajnalka Vágó

Heart and Vascular Center of the Semmelweis University, Budapest

Determining left and right ventricular cardiac magnetic resonance parameters using threshold-based trabecula quantification method by three independent observers

Maria Csilla Csanyi¹, Eموke Horvath², Cosarca Mircea Catalin³, Elod Nagy⁴, Miklos S.Z. Kellermayer¹, Jolan Harsfalvi¹

¹ Department of Biophysics and Radiation Biology, Semmelweis University, Budapest

² Department of Pathology, University of Medicine and Pharmacy, Targu-Mures

³ Department of Anatomy and Embryology, University of Medicine and Pharmacy, Targu-Mures

⁴ Department of Biochemistry and Environmental Chemistry, University of Medicine and Pharmacy, Targu-Mures

Relations between atherosclerosis and ABO blood group; von Willebrand factor and osteoprotegerin