Semmelweis Symposium - 2018

New approaches in personalized medicine: From prenatal testing to targeted tumor therapy

Budapest, November 8-9, 2018

Basic Science Center, Semmelweis University, Budapest (Tűzoltó 37-43, Budapest, 1094, Hungary)

Chairperson: Prof. Péter Lakatos

8th November	
9.00-9.15	*Opening ceremony*
9.15-10.55	*Section I. – Personalized Oncology I.*
9.15-9.35	Personalized medicine: What does that mean? István Takács, Semmelweis University, Budapest, Hungary
9.35-9.55	Molecular biomarkers for the evaluation of colorectal cancer: Where are we now? Erika Tóth, Országos Onkológiai Intézet, Budapest, Hungary
9.55-10.15	Every breast cancer patient needs chemotherapy? Magdolna Dank, Semmelweis University, Budapest, Hungary
10.15-10.35	The role of RANK-RANKL in osteology and malignancies. Zsolt Nagy, Semmelweis University, Budapest, Hungary
10.35-10.55	Solid Tumors - Oncomine analysis in pathology laboratories using next generation sequencing. Jon Sherlock, ThermoFisher Scientific, Paisley, Scotland, UK
10.55-11.15	*Coffee Break*
11.15-12.55	*Section II. – Personalized Oncology II.*
11.15-11.35	The code and importance of liquid biopsy. John Liebregts, Biocartis, Mechelen, Netherlands
11.35-11.55	BRCA1/2 genes in clinical practice. Edit Oláh, Országos Onkológiai Intézet, Budapest, Hungary
11.55-12.15	The biology and application of cell-free nucleic acids in the clinical diagnosis. Bálint Nagy, Debrecen University, Debrecen, Hungary
12.15-12.35	Personalized approach to thyroid nodules. Juan Carlos Galofré, University of Navarra, Pamplona, Spain
12.35-12.55	Molecular diagnostics of thyroid cancers. Péter Lakatos, Semmelweis University, Budapest, Hungary
12.55-14.00	*Lunch*
14.00-15.20	*Section III. – Prenatal genetics*
14.00-14.20	Non-invasive prenatal testing (NIPT). János P. Kósa, Semmelweis University, Budapest, Hungary
14.20-14.40	SNP based NIPT, aneuploidy and single gene mutations. Trudy McKanna, Natera, San Carlos, CA, USA
14.40-15.00	Comparative genomic hybridization arrays or conventional karyotyping? Olga Török, Debrecen Egyetem, Debrecen, Hungary

15.00-15.20	Preimplantational diagnostics: designer babies? Péter Fancsovics, Semmelweis University, Budapest, Hungary
15.20-15.40	*Coffee Break*
15.40-17.00	*Section IV. – Endocrinology / Osteology*
15.40-16.00	Sequential therapy of osteoporosis. Péter Lakatos, Semmelweis University, Budapest, Hungary
16.00-16.20	Treatment of diabetes by stem cells. Antony Gavalas, Dresden University of Applied Sciences, Dresden,Germany
16.20-16.40	Familial hypercholesterinemia – PCSK-9 inhibition. György Paragh, Debrecen University, Debrecen, Hungary
16.40-17.00	High throughput methods in the evaluation of tumorigenesis in endocrine tumors. Attila Patócs, Semmelweis University, Budapest, Hungary
19.00-22.00	*Official Dinner Event (River Danube Experience)*
9th November	
9.00-10.40	*Section V. – Hematology*
9.00-9.20	BITE-ing in the leukemia. Judit Demeter, Semmelweis University, Budapest, Hungary
9.20-9.40	Personalised diagnostics and therapy in oncohematological malignancies. Csaba Bödör, Semmelweis University, Budapest, Hungary
9.40-10.00	NGS in hematology. Torsten Haferlach, Münchner Leukämielabor, München, Germany
10.00-10.20	Chimeric Antigen Receptor (CAR) T-Cell Therapy in hematology. Tamás Masszi, Semmelweis University, Budapest, Hungary
10.20-10.40	Virus-specific T cell therapy in allogenic hematopoietic stem cell transplantation. Krisztián Kállay, Dél-Pesti Medical Center and National Institute for Hematology and Infectology, Budapest, Hungary
10.40-11.00	*Coffee Break*
11.00-13.00	*Section VI. – Rare diseases*
11.00-11.20	Langerhans Cell Histiocytosis – from inflammation to malignancy. Michael Girschikofsky, Ordensklinikum, Linz, Austria
11.20-11.40	Graduated diagnosis and personalized therapy of rare diseases in pediatrics. György Fekete, Semmelweis University, Budapest, Hungary
11.40-12.00	Ending the diagnostic odyssey of rare diseases: NGS in the clinic. Kristóf Árvai, Semmelweis University, Budapest, Hungary
12.00-12.20	Enzyme replacement therapies for lysosomal storage diseases. Francisca Coutinho, National Health Institute Doutor Ricardo Jorge, Lisbon, Portugal
12.20-12.40	Live and let die. What genetics can offer for patients with cardiac disease: blessing or damn? Gábor Uzonyi, Uzsoki Hospital, Budapest, Hungary
12.40-13.00	Whole exome sequencing in the management of rare diseases. Judit Mária Molnár, Semmelweis University, Budapest, Hungary
13.00-14.00	*Lunch*

14.00-15.40	*Section VII. – Emerging Techniques*
14.00-14.20	Cell metabolism revealed: Agilent Seahorse XF, Svetoslav Kalaydiev, Agilent, Stockport, UK
14.20-14.40	CRISPR / Base editing. Marie-Christine Birling, Institute Clinique de la Souris, Illkirch-Graffenstaden, France
14.40-15.00	Lessons from limb regeneration in salamanders. Dunja Knapp, DFG- Center for Regenerative Therapies Dresden, Dresden, Germany
15.00-15.20	The next generation of digital optical barcode technology; innovations in spatially resolved multi-analyte profiling and library free NGS - Christoph König, NanoString, University of Köln, Cologne, Germany
15.20-15.40	Future of genetic identity. Nicholas Noome, IntegenX, Boston, MA, USA
15.40-15.50	*Closing remarks by Prof. Peter Lakatos*