CONFERENCE “INNOVATIVE PATHOLOGY”

September 20, 2018
Venue: Centre for Innovative Medicine, Santariskiu 5, Vilnius, Lithuania

Program:

11.30-12.00 Registration/Coffee and snacks

12.00-12.40 Pathology and the Biopsychosocial Model of Medicine in the Era of Personalized Medicine
Jan Nowak, Buffalo, NY

12.40-13.20 Personalized Medicine for Pancreatic Cancer
Jonathan Nowak, Boston, MA

13.20-13.40 Lung Cancer Pathology Algorithm at the National Center of Pathology
Justinas Besusparis, Vilnius

13.40-14.10 Coffee and snacks

14.10-15.10 Molecular Biomarkers for the Evaluation of Colorectal Cancer
Jan Nowak and Jonathan Nowak, Buffalo, NY, Boston, MA

15.10-15.50 New Imaging and Artificial Intelligence for Pathology
Richard Levenson, Sacramento, CA

15.50-16.10 Coffee and snacks

16.10-16.20 Deep Context Pathology Assays – Quest for Robust Predictive Testing
Arvydas Laurinavičius, Vilnius

16.20-16.30 Tumor Tissue Spatial Analytics for the Microenvironment Studies
Allan Rasmusson, Vilnius

16.30-16.40 Measuring Intratumor Heterogeneity of Breast Cancer Proliferation Rate to Predict the Patients’ Overall Survival
Renaldas Augulis, Vilnius

16.40-16.50 Potential role of SATB1 in Anti-Tumor Immune Response
Dovilė Žilienaitė, Vilnius

16.50-17.00 Tumor Microenvironment – Learning from Collagen Framework
Mindaugas Morkūnas, Vilnius

VENUE

REGISTRATION FORM

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Sponsors:

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Lithuanian Foundation and Raslavičius Family Fund
Jan Nowak, MD PhD
Jan A. Nowak, PhD, MD is a pathologist on staff at the Roswell Park Comprehensive Cancer Center in Buffalo, NY, where he directs the Molecular Diagnostics Laboratory. He received his PhD in Biophysics from the University of Rochester (New York), and subsequently his MD degree, also from Rochester, where he continued his residency training in Anatomic and Clinical Pathology. He is board-certified in Anatomic and Clinical Pathology, and in Molecular Genetic Pathology. He has more than 25 years of experience practicing surgical pathology, cytopathology, clinical pathology, and directing molecular pathology laboratories. Dr. Nowak is a past president of the Association of Molecular Pathology and has been an active participant in the CAP Center, specifically fostering the development of evidence based guidelines for molecular biomarker testing in colon cancer and NSCLC. Since 2014, he has been a member of the AMA CPT Editorial Panel where he has contributed to the development of CPT codes to recognize molecular testing services.

Jonathan A. Nowak, MD PhD
Jonathan A. Nowak, MD, PhD is an associate pathologist at the Brigham and Women's Hospital, an instructor in pathology at Harvard Medical School, and an affiliated pathologist at the Dana-Farber Cancer Institute in Boston, MA. He received his MD from the Weill Medical College of Cornell University and his PhD from The Rockefeller University in New York City. Dr. Nowak completed residency in anatomic and clinical pathology, and additional subspecialty fellowship training in gastrointestinal pathology and molecular genetic pathology, at the Brigham and Women's Hospital. He is the director of the gastrointestinal cancer center translational research laboratory at the Dana-Farber, and leads research groups focused on colorectal and pancreatic cancer biology. Jonathan A. Nowak's clinical activity includes development and reporting of both tumor and germline sequencing assays as part of the joint Profile initiative between the Dana-Farber and BWH that aims to genotype all patients with cancer receiving care at the Dana-Farber.

Justinas Besusparis, MD
Justinas Besusparis is a doctoral student of Vilnius University Faculty of Medicine and pathologist at National Center of Pathology, Affiliate of VULSK. His doctoral thesis is focused on digital image analysis applications for Ki67 labeling index estimation and its intra-tissue heterogeneity measurements in breast cancer, aiming to improve the prognostic value of Ki67 immunohistochemistry. He participates in various cancer research projects and has experience in image analysis processing software and other methodologies of digital image analysis. He is a co-author of the concept of comprehensive IHC and applied his experience of digital image analysis validation procedures during the secondment in Nottingham University, UK in 2017.

Richard Levenson, MD, FCAP, is Professor and Vice Chair for Strategic Technologies, Department of Pathology and Laboratory Medicine, UC Davis, where he develops novel imaging technologies. Board-certified in Anatomic Pathology, he received his MD at University of Michigan and pathology training at Washington University. A faculty position at Duke was followed by appointment at Carnegie Mellon University. He subsequently joined Cambridge Research & Instrumentation (now part of PerkinElmer), becoming VP of Research before returning to academia. He has helped develop multispectral microscopy systems and software for molecular pathology and diagnostics, multispectral and three-dimensional small-animal imaging systems, optical dynamic contrast techniques, orientation-independent birefringence microscopy, multiplexed ion-beam imaging, and most recently, real-time slide-free microscopy. He serves on multiple review panels, is section editor for Archives of Pathology and on the editorial board of Laboratory Investigation. Regrettably, he also taught pigeons histopathology and radiology. He is co-founder of MUSE Microscopy, Inc. and a recipient of the UC Davis Chancellor’s Innovator of the Year (2018) award.

Arvydas Laurinavičius, MD PhD
Arvydas Laurinavičius is Professor of Pathology at Vilnius University Faculty of Medicine and Director of the National Centre of Pathology, Affiliate of VULSK. He received his MD degree from Vilnius Univ. Faculty of Medicine (1981-1987), PhD - from Moscow Medical Academy (1989-1992) and completed Renal Pathology Fellowship at the Brigham and Women's Hospital/Harvard Medical School. His research focuses on digital image analytics to derive novel tissue pathology indicators for disease modelling. In particular, Prof. Laurinavičius has together with his research group at Vilnius University and researchers at Caen and Nottingham Universities developed methodologies for comprehensive digital immunohistochemistry analytics to empower information retrieval from routine IHC slides. He represented Lithuania in the establishment of the International Health Terminology Standards Development Organization (SNOMED International), he was a member of its Management Board and chaired Research & Innovation Committee. In 2010, he chaired European Congress of Digital Pathology in Vilnius.
Allan Rasmusson, PhD
Allan Rasmusson has a solid foundation in computer science, with focus on image analysis, GPU programming and computer graphics applied in the field of medical imaging. During his PhD (Aarhus University, DK), these topics were applied in the field of stereology which is the scientific discipline of unbiased quantitative tissue analysis from microscopy images. This interdisciplinary work has given strong experience with many imaging modalities (tomography (CT, MRI), microscopy (bright field, fluorescence, confocal, differential interference contrast)). As part of the recent project "AIDPATH: Academia and Industry Collaboration for Digital Pathology" (IAPP Marie Curie Action European Union's FP7 Framework Programme) he focused on digital pathology quality assurance and integration of mass spectrometry with histology data. At his current workplaces National Center of Pathology, Affiliate of VU Hospital Santaros Klinikos and Faculty of Medicine, Vilnius University he continues working on his fields of interests. Now he focuses on research in digital imaging data processing for deep context tissue signatures, automation and quality assurance of the digital pathology workflow, development and optimization of machine learning approaches and software for digital signatures and pathology indicators.

Renaldas Augulis
Renaldas Augulis is a bioinformatician at the National Center of Pathology, Affiliate of VULSK. He has a bachelor degree in Bioinformatics, 2014 at Vilnius University Faculty of Mathematics and Informatics and now in Master studies in Genetics at Vilnius University Life Sciences Center. R. Augulis has proficient knowledge in image analysis, data managing, analytics, and statistics.

Dovilė Žilėnaitė
Dovilė Žilėnaitė is a medical geneticist at the National Center of Pathology, Affiliate of VULSK and a doctoral student at Vilnius University Faculty of Medicine. Her research focuses on the development and standardization of multiple IHC procedures for multiparametric and spatial analysis, digital image analysis and prognostic modelling in the breast cancer patients. Main scientific interests: genetics, cancer biology, immunology, digital analysis and analytics of whole slide pathology images to describe tumor cell populational heterogeneity and microenvironment.

Mindaugas Morkūnas
Mindaugas Morkūnas works as a bioinformatician at the National Center of Pathology, Lithuania. He graduated from Vilnius Gediminas Technical University, Lithuania, in 2002. In 2016 he started PhD studies in informatics engineering at the Institute of Data Science and Digital Technologies, Vilnius University, Lithuania. His interests include cancer biology, cancer genetics, bioinformatics, image analysis, machine learning, artificial neural networks.