

SATURDAY PLATFORMS 7 & 8

Platform Session 7: *Epilepsy, Methodologies* Moderators: Michael Punsoni, MD and Melissa Blessing, DO
Platform Session 8: *Demyelinating and Inflammatory, Developmental/Pediatric, Peripheral Nerve/Muscle, Ophthalmic Pathology*
Moderators: David Nauen, MD, PhD and Osorio Lopes Abath Neto, MD, PhD

Platform Session 7: <i>Epilepsy, Methodologies</i> Chesapeake Ballroom		Platform Session 8: <i>Demyelinating and Inflammatory, Developmental/Pediatric, Peripheral Nerve/Muscle, Ophthalmic Pathology</i> Choptank Ballroom	
2:00 pm - 2:15 pm	49 Beyond Neuronal Loss: Spatial Transcriptomics Defines Molecularly Distinct Forms of Hippocampal Sclerosis in Mesial Temporal Lobe Epilepsy S Guzman, S Hazany	57 Microglial-amplified inhibitory synaptopathy: Convergent neuropathology in GlyR, GAD65, Kelch11, and NIF autoimmunity A Denney, A Wohlfert, A Granholm-Bentley, A Piquet, K Jones, A Toland, S Guzman	
2:15 pm - 2:30 pm	50 Automated Identification of Tissue Compartments in IHC-Stained Whole Slide Images for Neuropathologic Studies J Vizcarra, A Rosado, C Candano, C Bumgardner, P Nelson, T Pearce, B Dugger, D Gutman	58 Microglia and G-protein coupled receptors in the pathogenesis of periventricular heterotopia J Golden, G Cho, M Del Bigio, Y Lim	
2:30 pm - 2:45 pm	51 AI-Driven Spatial Characterization of Neuropathology in Whole Human Brain: Addressing the Scalability Gap R Nanjappa, S V, R Kumar, P V S, A Ayyappan, N Fathima Majid, C Sam, S Mulay, K Ram, S Neelakantan, J Jayakumar, R Rangaswami, M Sen, R James, A Manesh, G Varghese, D Nauen, R Verma, R Folkert, M Sivaprakasam	59 High-Fat Diet Ameliorates Myonuclear Transcriptional Changes in R155H/R155H VCP Disease N Shirooni, M Wu, L Weiss, N Robson, A Shmara, V Kimonis, M Rose	
2:45 pm - 3:00 pm	52 State-Level Legal and Infrastructure Barriers to Research Brain Donation in the United States E Selmanovic, R Folkert, J Appel, P Hof, K Dams-O'Connor	60 A Phosphorylation-Independent TDP-43 Antibody Reveals Increased and Earlier Cytoplasmic Pathology in Inclusion Body Myositis D Cook, A Lokken, J Ritzman, M Basuino, C Xing, M Kohler-Skinner, Q Mao	
3:00 pm - 3:15 pm	53 Promise of Artificial Intelligence in Interpreting Neuropathology NGS Data: Addressing HIPAA and Institutional Compliance Constraints M Elnagdy, J Weon, J Raisanen, M Thakkallapally, H Han, K Hatanpaa	61 Early myopathology of Pompe disease in patients detected by newborn screening K Bhatti, S Jung, P Kishnani, K Jones	
3:15 pm - 3:30 pm	54 From Feasibility to Validation: Implementing 2021 WHO CNS Tumor Whole Genome Methylation Profiling in a Resource-Limited Academic Center M Haeri, R Ayoub, S Golem, N Lakis, A Marr	62 Decoding Cancer-Associated Pain: A Single-Cell Proteomic Analysis of Human Dorsal Root Ganglia Neurons C Hayes, Y Jiao, A Barry, T Price, J Peng, C Ho	
3:30 pm - 3:45 pm	55 Improved Performance of Clinically Applicable Deep Learning for CNS Tumor Classification from Histopathology L Lalchungnunga, Z Abdullaev, K Aldape, S Brandner, H Chung, P Cimino, C Dampier, D Hoang, C Horbinski, B Li, C Lucas, Z Luo, D Marker, K McCortney, M Nasrallah, T Pearce, M Quezado, E Ruppini, E Shulman, O Singh, Z Wu, L Yefet, G Zadeh	63 Border-associated macrophages mediate immune responses in the unmyelinated optic nerve head in mice and humans Z Yin, J Harris, P Cullen, Y Xue, A Mukwaya, N Lopez, A Bosco, J Schwakopf, R Yarcusko, D Tommasini, G Baldwin, S Da Mesquita, M Vetter, K Shekhar, M Margeta	
3:45 pm - 4:00 pm	56 Fresh Ex Vivo Brain Tumor Imaging Using Two-Photon Microscopy L Hu, R Li, S Wang, X Wang	64 Targeting IGF1R signaling in BCOR mutant retinoblastoma C Eberhart, S Lee	