

FINAL 2023 Academy Meeting Agenda

Time	Topic	Presenter(s)
Wednesday, October 4, 2023	Registration and Reception	
Thursday, October 5, 2023		
6:30am - 7:30am	Business Meeting	
7:30am - 7:35am	Welcome & Introduction	Jacques Morcos
7:35 - 7:45	Round Robin Roundup! The Academy Round Robin letters	Mark Hadley
Peer Reviewed Abstract Session 1: Cerebrovascular Basic Science Moderators: E. Sander Connolly, Jr, Robert Friedlander		
7:45 – 7:54	Translation of Human Umbilical Cord Blood-Derived Stem Cells to the Clinic for Treating Stroke	Andrew Grande
7:54 – 8:03	Protein-based CRISPR/dCas9 Delivery System for Treating Ischemic Stroke	Rose Du
8:03 – 8:12	Circulating Biomarkers for Prediction and Prevention of Stroke in Native American Population	Robert Dempsey
8:12 – 8:21	Cavernous angiomas and brain-gut-axis as a paradigm for the dysfunctional neurovascular unit	Sean Polster
8:21 – 8:30	Localized conditional induction of brain AVMs in a mouse model of hereditary hemorrhagic telangiectasia	Michael Lawton
8:30—8:39	Subarachnoid Haemorrhage Leads to Desialylation of Hippocampal Glycocalyx Followed by Complement System Activation	Gavin Britz
8:30 - 8:39	Unifying Characteristics of Syndromes of Cerebral Venous Congestion Due to Skull Base and Subcranial Compression	Peter Nakaji
8:39 – 8:50	DISCUSSION	
Peer Reviewed Abstract Session 2: Epilepsy/Functional/Pain Basic Science Moderators: Aviva Aboosh, Andre Machado		
8:50 - 8:59	Modulation of cholinergic circuits during human episodic memory	Bradley Lega
8:59 – 9:08	Anti-inflammatory effects of vagus nerve stimulation in pediatric patients with epilepsy	Nathan Selden
9:08 – 9:17	Canonical Wnt activator Chir99021 prevents epileptogenesis in a mouse model of temporal lobe epilepsy	Kunal Gupta
9:17 – 9:26	Strengthening Motor Output with Motor Thalamus Stimulation. Evidence for a novel neuromodulation modality for stroke	Jorge González-Martínez
9:26 – 9:35	Phase 1 trial of human ES-derived dopamine neurons for Parkinson's disease	Viviane Tabar
9:35 – 9:44	Focused Ultrasound BBB Opening with Anti -Amyloid Antibody Accelerates Plaque Reduction in Alzheimers Disease	Ali Rezaei
9:44 - 9:55	DISCUSSION	
9:55 - 10:10	BREAK	
SPECIAL DEBATE SESSION 1: The Artificial Intelligence revolution in Medicine and Neurosurgery - Blessing or Curse? Moderators: Fred Barker, Praveen Mummaneni		
10:10-10.11	Introduction	Fred Barker and Praveen Mummaneni
10:11-10:20	It's a blessing	Doug Kondziolka
10:20-10:29	It's a curse	Richard Byrne
10:29-10:40	DISCUSSION WITH AUDIENCE	All
Peer Reviewed Abstract Session 3: Cerebrovascular Clinical Science Moderators: Jacques Morcos, Bill Couldwell		
10:40-10:49	Treatment of small intracranial aneurysms using the SMALLSS scoring system: A system for decision making and outcomes	Christopher Ogilvy
10:49-10:58	3 Year outcome results of the prospective international giant intracranial aneurysm registry	Peter Vajkoczy
10:58-11:07	Long-term Patency in Extracranial-Intracranial Bypass Across Disease Etiology	Fady Charbel
11:07-11:16	Low Flow as a Stroke Risk Biomarker in Symptomatic Intracranial Atherosclerotic Stenosis	Sepideh Amin-Hanjani
11:16-11:25	Factors predicting aggressive natural history in cranial dural arteriovenous fistulas: a CONDOR study	Gregory Zipfel
11:25-11:34	Outcomes of 279 Brainstem Cavernous Malformation Resections, with and without use of CO2 Laser	Gary Steinberg
11:34-11:45	DISCUSSION	
Peer Reviewed Abstract Session 4: Tumor Clinical Science Moderators: Mitchel Berger, Jim Rutka		
11:45-11:54	Oncolytic clinical trial links immunoactivation to survival in glioblastoma	E. Antonio Chiocca
11:54-12:03	Predicting Survival in Glioblastoma Multiforme with Multimodal Neuroimaging	Eric Leuthardt
12:03-12:12	Safety and interim survival data after sonodynamic therapy in pet French Bulldogs with sporadic high grade gliomas	Vijay Agarwal
12:12-12:21	Fast intraoperative detection of glioma infiltration using label-free optical microscopy and deep neural networks	Todd Hollon
12:21-12:30	Oncomagnetic Therapy-A Revolutionary Non-Invasive Mitochondrial Based Therapy to Replace Chemoradiation in GBM and	David Baskin
12:30-12:40	DISCUSSION	
12:40 pm	Afternoon Activities	
Academy Innovator Program Program Directors: Kim Burchiel and Sam Browd		
2:00-3:30	Program	

Friday, October 6, 2023		
6:30am - 7:30am	Business Meeting	
7:30am - 7:35am	Welcome	Jacques Morcos
Peer Reviewed Abstract Session 5: Spine/Peripheral Nerves Moderators: Daniel Resnick, Zoher Ghogawala, Mark Hadley		
7:35 - 7:44	C4-C6 Laminoplasty with and without C3 Laminectomy, the fate of the C2-C3 level: A Cadaveric Biomechanical Study	Michael Steinmetz
7:44 - 7:53	Machine learning predictive analytics of adverse outcomes after elective spinal fusion	Corey Walker
7:53 - 8:02	Surgical Simulation, 3D navigation and Augmented Reality as an Educational Tool in Minimally Invasive Spinal Surgery	Roger Hartl
8:02 - 8:11	What Predicts the Best Outcomes From Surgery for CSM? Analysis of the QOD Prospective Cohort	Praveen Mummaneni
8:11 - 8:20	Preoperative prehabilitation reduces postoperative adverse events in frail multi-level thoracolumbar fusion	Daniel Hoh
8:20 - 8:29	Change in Spinal Bone Mineral Density following Treatment with Romosozumab, Teriparatide, Denosumab, and Alendronate	Benjamin Elder
8:29 - 8:38	Development of Non-Invasive Perfusion MRI as a Prognosticating and Treatment tool in Spinal Cord Injury	Shekar Kurpad
8:38 - 8:47	Neuromuscular choristoma and circumferential nerve territory desmoid-type fibromatosis: a nerve-driven mechanism	Robert Spinner
8:47 - 9:00	DISCUSSION	
Peer Reviewed Abstract Session 6: General Interest Moderators: Arthur Day, Anil Nanda		
9:01 - 9:10	Neuro-Oncology Trials in the United States over Five Decades: Analysis of Completions and Failures for the Path forward	Isabelle Germano
9:10 - 9:19	An update of NeurosurGen, the Neurosurgery Genealogy Project	Cargill Alleyne
9:19 - 9:28	NousNav: an open source low cost neuronavigation system for LMIC	Alexandra Golby
9:28 - 9:37	Conscious sedation versus monitored anesthesia care during mechanical thrombectomy: a propensity score-matched analysis	Kevin Cockroft
9:37 - 9:46	Development of a Percutaneous Endovascular Biomimetic Shunt (eShunt) for Treatment of Communicating Hydrocephalus	Adel Malek
9:46 - 9:55	DISCUSSION	
9:55 - 10:10	BREAK	
SPECIAL DEBATE SESSION 2: Social Media in Medicine and Neurosurgery - Blessing or Curse? Moderators: Bob Carter, Isabelle Germano		
10:10-10:11	Introduction	Bob Carter and Isabelle Germano
10:11-10:20	It's a blessing	Brian Hoh
10:20-10:29	It's a curse	Allan Levi
10:29-10:40	DISCUSSION WITH AUDIENCE	All
Peer Reviewed Abstract Session 7: Tumor Basic Science Moderators: Peter Dirks, Michael Lim		
10:40-10:49	CD8+ T cells maintain killing of MHC-I-negative tumor cells through the NKG2D-NKG2DL axis	Peter Fecci
10:49-10:58	Altered non-neoplastic plasma extracellular vesicle phenotype in glioblastoma patients	Ian Parney
10:58-11:07	Magnetic Hyperthermia Therapy in Combination with Chemoradiation for the Treatment of Glioblastoma	Constantinos (Costas) Hadjipanayis
11:07-11:16	Seq-ing the SINEs of Central Nervous System Tumors in Cerebrospinal Fluid DNA	Chetan Bettgowda
11:16-11:25	Glioblastoma induces the recruitment and differentiation of hybrid neutrophils from skull bone marrow	Manish Aghi
11:25-11:34	Myeloid cell reprogramming via TREM2 inhibition triggers anti-tumor immunity in glioblastoma	Albert Kim
11:34 - 11:43	Delivery of MSC-D24 into the Resection Cavity Using Fibrin Scaffold for Glioblastoma Treatment	Frederick Lang
11:43 -11:55	DISCUSSION	
Presidential Address Moderator:		
11:55 -12:00	Introduction of the Academy President	Bob Carter
12:00-12:40	Presidential Address	Frederick Barker
12:40 pm Afternoon Activities		
Academy Emerging Investigators' Program Gregory Zipfel		
2:00-2:15	Introduction	
2:15-5:00	Meetings with Established Investigator Faculty	
Saturday, October 7, 2023		
Special Abstract Session 8: The Oldfield Session of Excellence (Top scoring Abstracts in 5 subspecialties) Moderators: Linda Liau, Fred Meyer		
7:30-7:35	Introduction and a sampling of Ed Oldfield's vast contributions	Fred Meyer
7:35- 7:44	GABAergic interneuron cell therapy for treatment of medically intractable mesial temporal lobe epilepsy	Kim Burchiel
7:44-7:53	Robotics for endovascular neurosurgery	Ben Waldau
7:53-8:02	Neonatal Paenibacillosis: Discovery of a New Disease as a Major Cause of Hydrocephalus in African Infants	Steven Schiff
8:02 - 8:11	Lumbar Spondylolisthesis Outcomes in the Elderly: Machine Learning Analysis of the Quality Outcomes Database	Dean Chou
8:11 - 8:20	Glioblastoma remodeling of neural circuits in the human brain decreases survival	Shawn Hervey-Jumper
8:20 - 8:29	DISCUSSION	

Academy Awards Presentation and Lecture		
8:30-8:35	Introduction of Academy Award Winner	Kendall Lee
8.35-8.44	Academy Resident Award Winner Lecture	Kamil Nowicki
8:44-8:49	Introduction of NREF Academy winners (3)	Gregory Zipfel
8:49-9:04	American Academy Young Clinician Investigator & Research Fellowship Grant Recipients	Gregory Zipfel
9.04-9:14	Emerging Investigator Program	Gregory Zipfel
Peer Reviewed Abstract Session 9: Pediatrics Moderators: Gerald Grant, Jennifer Strahle		
9:14 -9:23	PTEN mutations impair CSF dynamics and cortical networks via neuroprogenitor cell dysregulation	Kristopher Kahle
9:23 - 9:32	Cerebrospinal fluid extracellular vesicles mediate recruitment and activation T-cells in post-hemorrhagic hydrocephalus	David Limbrick
9:32 - 9:41	HIF2alpha Modulation Reduces Neurological Sequelae of Existing Posthemorrhagic Hydrocephalus in Rats	Shenandoah Robinson
9:41 - 9:50	DISCUSSION	
9:50-10:05	BREAK	
Peer Reviewed Abstract Session 10: Tumor Clinical Science Moderators: Anthony Asher, Katherine Drummond, Mark Johnson		
10:05 - 10:14	Prognostication: Meningioma methylation risk groups and molecular groups correlate with progression free survival	Mitesh Shah
10:14 - 10:23	DNA Methylation Provides Diagnostic Value for Meningioma Recurrence in Clinical Practice	Ketan Bulsara
10:23 - 10:32	Correlation of Clinical Features to DNA Methylation-based Prognostic Subtypes in Chordoma Patients	Gelareh Zadeh
10:32 - 10:41	High-Fidelity Carotid Injury Simulation: Analysis of Training Outcomes by Expert Surgeons vs. Computer-Vision Algorithms	Gabriel Zada
10:41 - 10:50	Intraoperative Radiotherapy (IORT) in Neuro-Oncology: Lessons Learned in Brain Metastases	Christopher Cifarelli
10:50 - 10:59	How Patients with Brain Metastases Die	Douglas Kondziolka
10:59 - 11:08	NRG-BN002: Phase I Study of Ipilimumab, Nivolumab, and the Combination in Patients with Newly Diagnosed GBM	Andrew Sloan
11:08 - 11:17	Re-purposing deep brain stimulators as electric field therapy (EFT) as treatment for glioblastoma	Clark C Chen
11:17 - 11:26	Low-grade glioma imaging volumes and survival: A single-institution analysis of 103 patients after resection using iMRI	Randy Jensen
11:26 - 11:40	DISCUSSION	
Peer Reviewed Abstract Session 11: Epilepsy/Functional/Pain Clinical Science Moderators: Dan Yoshor, Kelly Foote		
11:40-11:49	Speech arrest redefined: premotor cortex function for active inhibition of speech	Edward Chang
11:49-11:58	Trial of Globus pallidus Focused Ultrasound Ablation in Parkinsons Disease	Vibhor Krishna
11:58-12:07	A Motor Association Area in the Depths of the Central Sulcus	Kai Miller
12:07 - 12:16	Safety and early efficacy of convective delivery of AAV2-GDNF gene therapy for Parkinsons disease	Russell Lonser
12:16 - 12:25	Explantable endocisternal neural interfaces for wireless bi-directional neuromodulation	Peter Kan
12:25 - 12:34	Expansion Of Stereotactic Work Envelope Using Transformation Matrix And Geometric Algebra For Neurosurgery	Kendall Lee
12:34 - 12:43	DISCUSSION	
12:43-12:45	Closing Remarks Meeting Adjourn	
		Shenandoah Robinson