

2025 Annual Meeting Punta Mita, Mexico

Scientific Program Highlights
Neuro-Oncology Section

Editor: Mahua Dey

- 1. *Griff Harsh* from University of New Mexico demonstrated accuracy of intraoperative label-free fluorescence lifetime imaging to predict genomic-based glioma histology and identification of the tumor margin.
- 2. *Costas Hadjipanayis* from University of Pittsburgh Medical Center presented thirty-five years' experience of stereotactic radiosurgery for unresected and WHO Grade I meningiomas from America's first gamma knife center.
- 3. *Jennifer Moliterno-Gunel* from Smilow Cancer Hospital at Yale discussed multiplicative impact of specific somatic copy number alterations on meningioma recurrence risk.
- 4. *Vikram Prabhu* from Loyola University Stritch School of Medicine showed how using combination therapy with calcium channel antagonists and chemotherapeutic agents can reduce *in vitro* viability of high-grade meningioma cells.
- 5. *Mahua Dey* from University of Wisconsin Madison demonstrated a novel precision personalized neoantigen tumor vaccine platform for glioblastoma
- 6. *Ian Parney* from Mayo Clinic outlined the outcome of the influence of bipolar versus monopolar stimulation motor mapping for brain tumors.
- 7. Kushal Shah from Goodman Campbell Brain & Spine, showed the utility of fluorescein in brain tumor surgery
- 8. *Peter Morone* from Vanderbilt University Medical Center unveiled novel genetic drivers of meningioma: using a transcriptome-wide association study across multi-ancestry cohorts.
- 9. *Jacob Ruzevick* from University of Washington showed that endoscopic endonasal biopsy of the posterior lobe of the pituitary gland is a safe surgical Target for Lesions of the Infundibulum and Hypothalamus.
- 10. *Kristin Huntoon* from University of Arizona showed adaptive design of mRNA-loaded Extracellular vesicles for targeted immunotherapy of GBM.
- 11. *Michael Ivan* from University of Miami demonstrated a mobile device to assess vestibular function in vestibular schwannoma patients.
- 12. *Debraj Mukherjee* from Johns Hopkins University School of Medicine showed drivers of neurosurgeon selection used by tumor patients for operative intracranial tumors.
- 13. *Jay McCracken* from Piedmont Atlanta Hospital discussed the role of Cesium-131 brachytherapy in the upfront treatment of glioblastoma

Kristin Huntoon

University of Arizona
Spiegel Shorts award winning abstract
Development of targeted immunotherapy for Malignant Gliomas