

SUNRISE SESSIONS: FRIDAY, NOVEMBER 17

SNO/ASNO Joint Session: New Horizons in PET Imaging in Neuro-Oncology (ASNO/SNO)

- Role of amino acid-tracer PET for decision making in neuro-oncology, Joerg-Christian Tonn
- Usefulness of positron emission tomography (PET) for CNS tumors, Keisuke Miyake
- Feedback of the PET-imaging to the treatment of malignant brain tumors and radiation injuries, Shin-Ichi Miyatake
- Simultaneous PET/MRI in clinical neuro-oncology, Ian Law

A "Vagabond Theory" of Glioblastoma: Picking One's Way Through the Brain Microenvironment to Fatal Progression

- From niche to milieu, Michael Berens
- Macro effects of microglia and macrophages, Joanna Phillips
- Cloak and dagger, Justin Lathia
- Inside out - The making of the microenvironment of glioblastoma, Jakub Godlewski

Immune Based Therapies for Glioma

- Cellular immunotherapy targeting glioblastoma, Duane Mitchell
- Immune checkpoint inhibitors for malignant gliomas, Michael Lim
- Immunotherapy targeting glioma neoantigens, Hideho Okada
- Overcoming immunosuppression in malignant gliomas, Derek Wainwright

Therapeutic Opportunities Presented by Dysregulated Cell Signaling Mechanisms

- Uncoupling tumor heterogeneity to promote therapeutic sensitivity, Frank Furnari
- Regulatory circuits in GBM subtypes, Shi-Yuan Cheng
- Next-generation therapies to treat driver pathways in glioblastoma, William Weiss
- Metabolic signaling and epigenetic regulation in glioma, Zhimin Lu

Current Update on the Diagnosis and Management of Lower Grade Gliomas

- Contemporary molecular classification of lower grade gliomas with implications for diagnosis and grading, Daniel Brat
- Ancestry of multifocal lower grade gliomas, Joseph Costello
- Title Pending, Elizabeth Maher
- Intraoperative IDH status determining extent of resection and outcome, Gelareh Zadeh

Getting More Out of Radiation: Combination Therapy and Dose Escalation

- Mechanisms to improve the effect of radiation, Erik Sulman
- Escalating the dose to improve the outcome of patients with glioblastoma, Christina Tsien
- Multi-arm & adaptive trials to improve the efficacy of radiation, Brian Alexander
- Blood brain barrier penetration in radio-sensitivity, Jann Sarkaria

SUNRISE SESSIONS: SATURDAY, NOVEMBER 18

Novel Metabolic Targets and Their Genetic Basis in Glioma

- Metabolic profiling of glioma, Sabrina Ronen
- Temozolomide and metabolism in IDH1 mutant glioma, Daniel Cahill
- Lipogenesis and glioblastoma, Deliang Guo
- Metabolic dependencies induced by IDH1 mutation, Samuel McBrayer

EANO-SNO Joint Sunrise Session: Glioblastoma in the Elderly: Solid Conclusions Built on Shifting Sand? Wolfgang Wick, Tracy Batchelor, Co-Chairs

- Specific Requirements of elderly patients, Roberta Rudà
- Update on molecular biomarkers in the elderly, Jason Huse
- Surgery in the elderly glioma patient, Colin Watts
- Standard of care postsurgical therapy 2017, James Perry

Using Patient Reports as a Measure of Net Clinical Benefit

- Integrating patient report measures into neuro-oncology clinical practice: Opportunities for targeted interventions, Christina Amidei
- Understanding the natural history of rare CNS tumors through patient self-report and web-based portals, Terri Armstrong
- Applying patient report measures as quality metrics in pediatric brain tumor care, Jin-Shea Lai
- Promoting accuracy of patient report measures in the neuro-oncology population, Martin Taphoorn

Histone Mutations in Pediatric Gliomas

- Oncohistones: Professional hijackers of the epigenome, Nada Jabado
- The ABCs of chromatin biology and biochemical insights into the mechanisms of histone mutations, Peter Lewis
- Diagnostic and prognostic implications of histone mutations in clinical practice, Cynthia Hawkins
- Targeting histone mutations in the clinic, are we there yet?, Oren Becher

Brain Metastases

- Microenvironmental interactions in brain metastasis, Adrienne Boire
- Brain metastasis genomics, Priscilla Brastianos
- Targeted therapy in brain metastasis, Manmeet Ahluwalia
- Brain metastasis-microenvironment interactions: an emerging source of innovative therapies, Manuel Valiente

Tumor-related Epilepsy

- EEG monitoring and brain mapping in TRE, Jeffrey Politsky
- Epidemiology and etiology of TRE, Joon Uhm
- Medical/pharmacologic considerations in TRE, Patrick Wen
- Systems biology and surgical treatment of TRE, Sandeep Mittal

SUNRISE SESSIONS: SUNDAY, NOVEMBER 19

Circulating Biomarkers -Technology and Application

- Biomarkers and effectors of the cellular interactome in cancer, Janusz Rak
- Glioblastoma transgenic mouse models for advance in biomarker studies, Alain Charest
- Immune evasion mediated by PD-L1 on glioblastoma-derived exosomes, Sean Lawler
- Heterogeneity of EVs cargo in the progression and therapeutic response in glioblastoma, Agnieszka Bronisz

Clonal Evolution of Glioblastoma

- Clonal evolution and prediction of pharmacologic vulnerabilities of human glioma, Antonio Iavarone
- Deciphering single-cell programs in adult and pediatric gliomas, Mario Suva
- Deconstructing clonal composition in glioma through multiomic analysis of serial sections, Michael Oldham
- Integrated model of clonal evolution, Joseph Costello

Viral Therapy: Advances from Bench to Bedside

- Determining the optimal dose for phase II/III studies of OV: the lesson of poliovirus, Annick Desjardins
- Oncolytic adenoviral therapy for glioma and use of adjuvant treatments, Juan Fueyo
- Toca-511 trials and implications of survival-related mRNA expression profiles in OV trials for glioma, Noriyuki Kasahara
- Oncolytic HSV for glioma-potential for childhood cancers and use of immunogene therapy, James Markert

Discovery, Characterization and Functionalizing Novel Glioma Genes

- Overview of Glioma Epidemiologic Studies, Melissa Bondy
- Identification of germline mutations in glioma families identified through whole genome sequencing, Matthew Bainbridge
- Identification of novel SNPS identified through GWAS analysis, Margaret Wrensch
- Developing the pipeline using CRISPR to functionalize genes identified through genetic screening, Benjamin Deneen

Meningiomas: Molecular Advances Toward Developing Targeted Therapies

- Methylation classifier for meningiomas: beyond WHO grading, Kenneth Aldape
- Lessons learned from genomic landscape of atypical meningiomas, Ian Dunn
- RNA pathway analysis directing therapeutic strategies in meningiomas, Gelareh Zadeh
- Challenges and opportunities in clinical trials for meningiomas, Michael Jenkinson

Developing Cancer Stem Cell Targeting Strategies

- Attenuating cell-cell communication in CSCs via drug repurposing strategies, Justin Lathia
- Targeting neurotransmission to compromise self-renewal, Peter Dirks
- Sexual dimorphism in CSC drug responses, Joshua Rubin
- Using pluripotent stem cells to model CSCs and identify novel drug targets, Viviane Tabar

LUNCH SESSIONS

12:15PM – 1:15PM

LUNCH TUTORIALS: FRIDAY, NOVEMBER 17

Epigenetics of CNS malignancies

- Defining the non-coding epigenome of glioma CpG Island Methylator Phenotype (G-CIMP), Houtan Noushmehr
- Disentangling developmental and oncogenic epigenetic states of medulloblastoma subtypes, Paul Northcott
- Histone modifications in pediatric brain tumors, Sriram Veneti

Palliative Care - Health Outcome Measures and Communication Strategies in Neuro-Oncology

- Introduction to palliative care in neuro-oncology and health outcome measures, Tobias Walbert
- Communication strategies in neuro-oncology, Alan Carver
- Palliative care integration into neuro-oncology, Jennifer Philip

Emerging Functional and Genomic Single Cell Technologies

- Single cell mass as a novel biomarker of drug response in brain tumors, Keith Ligon
- Single cell cloning analysis of tumors and their treatment hierarchies using optical bar coding, Katrin Lamszus
- EvoSeq: A molecular time machine to characterize resistance at a single cell level, Pratiti Bandopadhyay

Clinical Trials - A Primer for Junior Investigators

- Design of phase 0 and I trials, Patrick Wen
- Phase II Trials, Timothy Cloughesy
- Basic statistics for clinical trials, Karla Ballman

LUNCH TUTORIALS: SATURDAY, NOVEMBER 18

Introduction to CRISPR-based Technologies

- CRISPRi and CRISPRa for programmable transcriptional control, Daniel Lim
- Opportunities and challenges of CRISPR-Cas gene editing, Jennifer Doudna
- CRISPR/Cas9 for genome editing, Alex Marson

Basic Science in Neuro-Oncology for the Clinician

- Biology of primary brain tumors – The basics, Vinay Puduvalli
- Basic immunology for the clinician, Amy Heimberger
- Genomics and Epigenomics in neuro-oncology: making sense of the maze, Russell Pieper

Quantitative Biology in Neuro-Oncology

- Public portal pearls and pitfalls: a hitchhiker's guide to available data and analysis resources, Cameron Brennan
- Large scale systems biology in brain cancer genomics, Michele Ceccarelli
- Functional characterization of glioma cancer genes, Antonio Iavarone

Surgical Trials: From Design to Regulatory Approval

- Clinical trial design for neurosurgeons, Michael Vogelbaum
- Getting FDA approval for devices and diagnostic tools (5-ALA), Constantinos Hadjipanayis
- Phase 0 clinical trials and associated opportunities for neurosurgeons, Nader Sanai