**Wednesday, September 18, 2019**

**Italian Neurosurgical Society & American Academy of Neurological Surgery - Combined Scientific Program**

**1:00 – 1:10 Welcome and Introduction**

# Alex Olivi (Local Arrangements Chair) & Michael McDermott (Scientific Program Chair)

**1:10 – 1:35 Neurotraumatology and Neurosurgery: A Worldwide Approach**

# Franco Servadei (*Italy*)

**1:40 – 2:00 Trends & New Developments in Glioma Therapy**

**E. Antonio “Nino” Chiocca** (*AAcNS*)

**2:05 – 2:25 The Treatment of Pediatric AVMs**

**Marco Cenzato** (*Italy*)

**2:30 – 2:45 Trends & New Developments in Endovascular Therapy**

# Howard Riina (*AAcNS*)

**2:45 – 3:05 - BREAK**

**3:10 – 3:30 Endonasal Approaches to Craniopharyngiomas**

# Paolo Cappabianca (*Italy*)

**3:35 – 3:55 Trends & New Developments in Spinal Surgery**

# Mark Hadley (*AAcNS*)

**4:00 – 4:20 Changing Paradigms in Neurosurgical Education. The Case of Virtual Reality and Surgical Simulation**

# Francesco DiMeco (*Italy*)

**4:25 – 4:45 Trends & New Developments in Functional - Epilepsy**

**G. Rees Cosgrove** (*AAcNS*)

**4:50 – 5:10 Intraoperative Neurophysiological Monitoring in Spinal Cord Tumor Surgery: How Much Evidence Do We Need?**

**Francesco Sala** (*Italy*)

**5:30 Adjourn**

*Evening Social Event:*

**Opening Reception**

**7:30 pm**

**Terraza Aranci, Waldorf Astoria Cavalieri Hotel**

*Business Casual Attire recommended*

**Thursday, September 19, 2019**

**7:30 – 7:35 Welcoming Remarks**

# Michael McDermott (Scientific Program Chair) & Alex Olivi (Local Arrangements Chair)

**7:35 – 8:45 Peer Reviewed Abstract Session I: Functional Science**

Moderators: Robert Gross & Daniel Yoshor

**7:35 – 7:45 Safety/Efficacy of Bone Marrow-Derived Mesenchymal Stem Cell (SB623) Implantation After Chronic Traumatic Brain Injury**

# Gary Steinberg

**7:45 – 7:55 Deletions in CWH43 Cause Sporadic Idiopathic Normal Pressure Hydrocephalus**

# Mark Johnson

**7:55 – 8:05** Hemodynamic Predictors of Long-Term Patency in Cerebral Revascularization Surgery

**Fady Charbel**

**8:05 – 8:15 Early Results of Clinical Testing of a Visual Cortical Prosthetic in Blind Subjects**

**Daniel Yoshor**

**8:15 – 8:25 Nerve transfers to improve upper extremity function and quality of life in tetraplegic patients**

**Wilson Ray**

**8:25 – 8:35 Mapping brain response patterns to Deep Brain Stimulation with fMRI**

**Andres Lozano**

**8:35 – 8:45 Trigeminal Nerve Stimulation as a Neuroprotectant**

**Raj Narayan**

**8:45-9:25 Peer Reviewed Abstract Session II: Spine Science**

Moderators: Nicholas Theodore & Mark Shaffrey

**8:45 - 8:55 12-Month Safety and Efficacy Results from the SCiStar Study – A Phase 1/2a Trial of** (missing text)

**Richard Fessler**

**8:55 - 9:05 Early Surgery and Recovery in Central Cord Syndrome: Analysis of 211 Patients from a Prospective, Multi-Center Dataset**

**Michael Fehlings**

**9:05 - 9:15 Transpedicular vertebrectomy for thoracic spine metastasis**

**Ehud Mendel**

**9:15 - 9:25 Sexual Dysfunction: Prevalence, Prognosis, and Predictors of Outcomes in Patients Operated for Lumbar Spondylolisthesis**

**Praveen Mummaneni**

**9:25 - 9:35 Break**

**9:35-10:45 Peer Reviewed Abstract Session III: Tumor Science**

Moderators: Nino Chiocca Mitchel Berger

**9:35 - 9:45 Meningioma Genomic Subgroup and Predicting Post-operative Patient Outcomes: Implications for Treatment and Follow-up**

**Jennifer Moliterno**

**9:45 - 9:55 Oncolytic G207 Produces immunologic Signature Predicting Response to Therapy**

**James Markert**

**9:55 - 10:05 Bench to bedside development of a novel STAT3 inhibitor for CNS malignancies**

**Amy Heimberger**

**10:05 - 10:15 Outcomes from Asleep and Awake Dominant Temporal Lobe Glioma Surgery: Risk, Extent of Resection, and Survival**

**Michael McDermott**

**10:15 - 10:25 Neurosurgical management of sinonasal malignancies involving the skullbase. A 25-year experience.**

**Franco DeMonte**

**10:25 - 10:35 Intracranially delivered IL-12 secreting CAR T cells recruit host immunity to eradicate** heterogeneous GBM

**John Sampson**

**10:35 - 10:45 CAR T cell therapy for glioblastoma: Current observations and future directions**

**Don O’Rourke**

**10:50-11:50 Peer Reviewed Abstract Session 4: Vascular Science**

Moderators: Elad Levy & Robert Spetzler

**10:50 - 11:00 Functional Connectivity Deficits After Subarachnoid Hemorrhage**

**Greg Zipfel**

**11:00 - 11:10 Microbiome Signatures of Cavernous Angioma**

**Issam Awad**

**11:10 - 11:20 The New Generation Hydrogel Endovascular Aneurysm Treatment Trial (HEAT): Final Results**

**Bernard Bendok**

**11:20 - 11:30 The R2eD AVM score: a novel predictive tool for arteriovenous malformation presentation with hemorrhage**

**Judy Huang**

**11:30-11:40 Cerebral Aneurysm Formation and Rupture: Role of Nrf2 Signaling**

**Aaron Dumont**

**11:40 - 11:50 Early Gene Deletion Generates a High-Fidelity Transgenic Mouse Model of Familial Brain Arteriovenous Malformations**

**Michael Lawton**

**11:50 - 12:00 Break**

**12:00 - 12:50 Special Lecture I**

Moderator: Alex Golby / James Rutka

***The Rhetoric of Medicine: Lessons on Professionalism From Ancient Greece***

**Nate Selden/Nigel Nicholson**

*Evening Social Event:*

**Visit to the Musei Vaticani and Sistine Chapel**

**Dinner at the Paolo VI Residence and Terrace**

*Buses depart from hotel at 5:30 pm- Business casual attire recommended*

**Friday, September 20, 2019**

**7:30 – 7:35 Welcome & Remarks**

# Michael McDermott (Scientific Program Chair) & Alex Olivi (Local Arrangements Chair)

**7:35-8:35 Peer Reviewed Abstract Session V: Vascular**

Moderators: Michael Lawton & E. Sander Connolly

**7:35-7:45 Extracellular microRNAs in Blood Differentiate Between Ischemic and Hemorrhagic Stroke**

**Robert Spetzler**

**7:45-7:55 NEWTON-2: Randomized, Double-blind, Placebo-controlled study of EG 1962 in Aneurysmal Subarachnoid Hemorrhage**

**Loch MacDonald**

**7:55-8:05 When Flow Diversion Fails: Predictive Factors of Incomplete Aneurysm Occlusion after Pipeline Embolization**

**Chris Ogilvy**

**8:05-8:15 Transradial Cerebral Angiography: A Safer Alternative**

**Felipe Albuquerque**

**8:15-8:25 Somatic mutations in cerebral aneurysms**

**Rose Du**

**8:25-8:35 Intracranial Aneurysms: Does Size Really Matter?**

**Phil Stieg**

**8:35-9:15 Peer Reviewed Abstract Session VI: Tumor**

Moderators: Henry Brem / Don O’Rourke

**8:35-8:40 Long-Term Outcomes in the Treatment of Pediatric Skull Base Chordomas**

**Paul Gardner**

**8:40-8:50 MRI Perfusion Radiomic Machine Learning Identifies Pseudoprogression in Glioblastoma – A Multicenter Study**

**Greg Fuller**

**8:50-9:00 The evolution of epilepsy surgery for children: lessons from tuberous sclerosis complex over 20 years**

**Howard Weiner**

**9:00-9:10 Stimulated Raman Histology for Rapid Neurosurgical Intraoperative Histology: A Prospective Series**

**Allan Levi**

**9:10-9:15 Discussion**

**9:15-9:30 Break**

**9:30-10:30 Peer Reviewed Abstract Session VII: Spine**

Moderators: Kevin Foley & Praveen Mummaneni

**9:30-9:40 Early Results from the CSM-S RCT: Quality of Life, Cost, and Complications**

**Robert Heary**

**9:40-9:50 Fusion for Spondylolisthesis Is Associated with Greater Improvements: A Multicenter Registry Study**

**Kevin Foley**

**9:50-10:00 Frailty, Long-Term Outcomes and Management Implications for Type II Odontoid Fractures in the Elderly**

**Michelle Clarke**

**10:00-10:10 The use of intraoperative sodium fluorescein for diagnostic biopsy of intramedullary spine cord lesions**

**Kevin Lillehei**

**10:10-10:20 Robot-Assisted vs Freehand Instrumentation in Short-Segment Lumbar Fusion: Experience with Real-Time, Image-Guided Spinal Robot**

**Nicholas Theodore**

**10:20-10:30 Maximal Safe Resection in Thalamic Gliomas is Superior to Biopsy: Personal Reflections on 40 Cases**

**Mustafa Baskaya**

**10:30-11:30 Peer Reviewed Abstract Session VIII: Functional/Trauma/Vascular**

Moderators: Bernard Bendok / Sepi Amin-Hanjani

**10:30-10:40 Dopamine, serotonin, and norepinephrine micro-fluctuations during conscious choice and subjective experience in humans**

**Charles Branch**

**10:40-10:50 Opening of blood brain barrier in the hippocampus and entorhinal cortex in Alzheimer’s disease with focused ultrasound**

**Ali Rezai**

**10:50 - 11:00 A New Treatment for Acute TBI – a phase II multicenter trial using novel MRI derivatives as surrogate outcome measures**

**Howard Eisenberg**

**11:00-11:10 Dynamic blood brain barrier regulation in mild traumatic brain injury**

**Gerald Grant**

**11:10-11:20 Computer-Learning to Identify High Risk Unruptured Aneurysms and Guide Decision Making: Rupture Resemblance Score**

**Elad Levy**

**11:20-11:30 Distribution and radiologic features of SEDAVFs in a modern single-center series of patients with spinal vascular shunts**

**Giuseppe Lanzino**

**11:30 -11:40 HDFT as a tool to enhance outcomes in the management of hypereloquent lesions**

**Robert Friedlander**

**11:40-11:50 Break**

**11:50-12:20 Special Lecture 2**

Moderator: Alex Olivi

*Title: ??*

**Luca di Montezemolo**

**12:20 - 1:20 Presidential Address**

12:20 - 12:30 Introduction of the Academy President : Mark Johnson

12:30 - 1:20 American Academy of Neurological Surgery Presidential Address

Nino Chiocca, MD

*Evening Social Event:*

**Academy Gala Dinner**

**Villa Miani**

*Attire: Black Tie Optional*

**Saturday, September 21, 2019**

**7:30 – 8:25 Special Lecture 3: The Oldfield Lectureship**

7:30 – 7:35Introduction, Moderator: **Nino Chiocca**

7:35 - 8:05 Oldfield Lecture: Bench to bedside development of a novel STAT3 inhibitor for CNS malignancies - **Amy Heimberger**

8:05 - 8:15 NIH Funding Overview: **Steve Korn**

8:15 - 8:20 NREF Funding Overview: **Reg Haid**

8:20 - 8:25 AAcNS/NREF Young Clinician Award Update – **Brian JA Gill**

8:25 - 8:30 AAcNS/NREF Research Fellowship Grant Update – **Benjamin Grannan**

8:30 - 8:40 American Academy Young Clinician Investigator Award – North America

Single-cellular representations of semantic meaning during natural language perception

**Benjamin L. Grannan**

8:40 - 8:50 American Academy Young Clinician Investigator Award – Italy  
Monitoring language networks in the asleep patient during surgery: an electrophysiological approach - **Davide Giampiccolo**

**8:55 – 9:30 Special Lecture 4:**

8:55-9:00 Introduction of Academy Special Lecturer: Alex Olivi

9:00-9:30 Speaker : Lamberto Frescobaldi, President

Azienda Agricola “Marchesi Frescobaldi” Firenze

**9:30 - 10:30 Peer Reviewed Abstract Session 9: Various topics**

**Moderators: Jacques Morcos / Robert Harbaugh**

**9:30-9:40 Brain growth and developmental outcome after treatment of post-infectious hydrocephalus in infants in Uganda**

**Steven Schiff**

**9:40-9:50 Impact on Facial Nerve Outcomes and Extent of Resection Using Subperineural Dissection Technique for Surgical Resection**

**James Liu**

**9:50-10:00 Phase 0/1 Clinical Trial of Low-Dose Capecitabine in Recurrent GBM: Global Immune Fingerprinting of Tissue and Blood**

**Michael Vogelbaum**

**10:00-10:10 Evolution of Low Grade Gliomas During Malignant Transformation.**

**Mitchel S. Berger**

**10:10-10:20 Cerebro-vascular remodeling following ischemic stroke: cellular and molecular mechanisms.**

**Robert Dempsey**

**10:20-10:30 Glioblastoma organoids: A model system for patient-specific therapeutic testing**

**Steven Brem**

**10:30-10:45 Break**

**10:45-11:55 Peer Reviewed Abstract Session 10: Various topics**

**Moderators: Michael McDermott / Aviva Abosch**

**10:45-10:55 Flies, worms and fish: What do these have to do with brain tumours?**

**Jim Rutka**

**10:55-11:05 Real-time CED of Nanoliposomal CPT-11 for recurrent GBM: Interim results of a phase I clinical trial**

**Manish Aghi**

**11:05-11:15 Leptomeningeal dissemination, a sinister pattern of medulloblastoma growth**

**Daniel Fults**

**11:15-11:25 Characteristics of Clots Retrieved by Mechanical Thrombectomy Associated with Stroke Etiology and Device Performance**

**Adnan Siddiqui**

**11:25-11:35 Integration of 5-ALA and CEUS in the Surgical Resection of High Grade Glioma**

**Alex Olivi**

**11:35-11:45 Mesenchymal Stem Cell Delivery of Oncolytic Adenovirus Delta-24-RGD Following Surgical Resection of Glioblastoma**

**Fred Lang**

**11:45-11:55 An Epigenetic Liquid Biopsy Machine Learning Algorithm to Predict Glioma and Glioma Subtypes**

**Steve Kalkanis**

**11:55-12:05 Recurrence Patterns in Skull Base Meningiomas and Role of Simpson Grading: Quo Vadis**

**Anil Nanda**

**12:10 Closing Remarks Meeting Adjourn**

**2020 Scientific Chair - Aviva Abosch**