

THE AMERICAN ACADEMY OF NEUROLOGICAL SURGERY

81ST ANNUAL SCIENTIFIC MEETING WALDORF ASTORIA CAVALIERI ROME SCIENTIFIC PROGRAM AT A GLANCE

WEDNESDAY, SEPTEMBER 18, 2019

ITALIAN NEUROSURGICAL SOCIETY & AMERICAN ACADEMY OF NEUROLOGICAL SURGERY - COMBINED SCIENTIFIC PROGRAM

1:00 - 1:20 Welcome and Introduction - Alex Olivi & Michael McDermott

Welcome Remarks from the SINch: Roberto Delfini and Alberto Delitala

Moderators: Michael McDermott & Francesco Tomasello

1:20 - 1:45 Neurotraumatology and Neurosurgery: A Worldwide Approach

Franco Servadei (Italy)

1:50 - 2:10 Trends & New Developments in Glioma Therapy

E. Antonio "Nino" Chiocca (AAcNS)

2:15 – 2:35 The Treatment of Pediatric AVMs

Marco Cenzato (Italy)

2:40 - 2:55 Trends & New Developments in Endovascular Therapy

Howard Riina (AAcNS)

2:55 - 3:15 - BREAK

Moderators: Antonio Raco & Alex Olivi

3:20 - 3:40 Endonasal Approaches to Craniopharyngiomas

Paolo Cappabianca (Italy)

3:45 – 4:05 Trends & New Developments in Spinal Surgery

Mark Hadley (AAcNS)

4:10 - 4:30 Changing Paradigms in Neurosurgical Education. The Case of Virtual Reality and Surgical Simulation

Francesco DiMeco (Italy)

4:35 – 4:55 Trends & New Developments in Functional - Epilepsy

G. Rees Cosgrove (AAcNS)

5:00 – 5:20 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 ~ 6:30 pm - 9:00 pm Terraza Aranci, Waldorf Astoria Cavalieri Hotel

Business Casual Attire recommended



THURSDAY, SEPTEMBER 19, 2019

7:30 - 7:35	WELCOMING REMARKS
Michael M	cDermott (Scientific Program Chair) & Alex Olivi (Local Arrangements Chair)
7:35 – 8:45	Peer Reviewed Abstract Session I: Functional Science Moderators: 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	Extracellular microRNAs in Blood Differentiate Between Ischemic and Hemorrhagic Stroke
Yasar Kalani	
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
Richard Fessle	r
8:55 - 9:05	Early Surgery and Recovery in Central Cord Syndrome: Analysis of 211 Patients from a Prospective, Multi-Center Dataset
Michael Fehlir	ngs
9:05 - 9:15	Transpedicular vertebrectomy for thoracic spine metastasis
Ehud Mendel	
	9:15 - 9:35 Break
9:35-10:45	Peer Reviewed Abstract Session III: Tumor Science
3:33-10:43	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 Molite	
9:45 - 9:55	Oncolytic G207 Produces immunologic Signature Predicting Response to Therapy
James Markert	
9:55 - 10:05	Evolution of Low Grade Gliomas During Malignant Transformation
Mitchel Berger	r
10:05 - 10:15	Flies, worms and fish: What do these have to do with brain tumours?
Jim Rutka	
10:15 - 10:25	Neurosurgical management of sinonasal malignancies involving the skullbase. A 25-year experience.
Franco DeMon	nte
10:25 - 10:35	Opening of blood brain barrier in the hippocampus and entorhinal cortex in Alzheimer's disease with focused ultrasound
Ali Rezai	
10:35 - 10:45	CAR T cell therapy for glioblastoma: Current observations and future directions
Don O'Rourk	e
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

Sean Polster

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 Deletions in CWH43 Cause Sporadic Idiopathic Normal Pressure Hydrocephalus Mark Johnson 7:45-7:55 NEWTON-2: Randomized, Double-blind, Placebo-controlled study of EG 1962 in Aneurysmal Subarachnoid Hemorrhage R. Loch MacDonald 7:55-8:05 When Flow Diversion Fails: Predictive Factors of Incomplete Aneurysm Occlusion after Pipeline Embolization Chris Ogiby 8:05-8:15 Transradial Cerebral Angiography: A Safer Alternative Felipe Albuque-rque 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 Pascal Zinn 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 9:10-9:20 Role of Visual Cortex in Essential Tremor Jean Regis		
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	9:20-9:30 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
Zoher Ghogaw	vala
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 Clark	xe .
10:00-10:10	The use of intraoperative sodium fluorescein for diagnostic biopsy of intramedullary spine cord lesions
Timothy Ung	
10:10-10:20	Robot-Assisted vs Freehand Instrumentation in Short-Segment Lumbar Fusion: Experience with Real-Time, Image-Guided Spinal Robot
Nicholas Theo	
10:20-10:30	Maximal Safe Resection in Thalamic Gliomas is Superior to Biopsy: Personal Reflections on 40 Cases
Mustafa Baska	ya
10:30-11:30	Peer Reviewed Abstract Session VIII: Functional/Trauma/Vascular Moderators: Bernard Bendok / Sepi Amin-Hanjani
	Moderators. Dernard Deridok/ Sept7dimPrianjani
10.00.10.10	
10:30-10:40	Dopamine, serotonin, and norepinephrine micro-fluctuations during conscious choice and subjective experience in humans
Charles Branch	
10:40-10:50	Intracranially delivered IL-12 secreting CAR T cells recruit host immunity to eradicate heterogeneous GBM
John Sampson	
10:50 - 11:00	A New Treatment for Acute TBI – a phase II multicenter trial using novel MRI
	derivatives as surrogate outcome measures
Howard Eisen	berg
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
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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
	Introduction of Academy Special Lecturer: Alex Olivi & Mike McDermott
	Fast cars and fast trains: The Ferrari and Italo stories
	Luca Cordero di Montezemolo

12:20 - 1:20	Presidential Address
12:20 - 12:30	Introduction of the Academy President : Mark Johnson
12:30 - 1:20	Quo Vadis, Academia?
	Nino Chiocca, MD

Evening Social Event:
Academy Gala Dinner
Villa Miani
Attire: Black Tie Optional



7:30 - 7:35 Special Lecture 3: The Oldfield Lectureship		
7.35 - 8.05 Oldfield Lecture: Bench to bedside development of a novel STAT3 inhibitor for CNS malignancies - Amy Heimberger	7:30 – 8:25	Special Lecture 3: The Oldfield Lectureship
malignancies - Amy Heimberger 8:15 - 8:20 NREF Funding Overview: Russell Lonser 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 - 9:30 Introduction of Academy Special Lecturer: Alex Olivi 7: Thirty generations of winemaking and still feeling young 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 Abhaya Kulkarni 9:40-9:50 Impact on Facial Nerve Outcomes and Extent of Resection Using Subperineural Dissection Technique for Surgical Resection 9:50-10:00 Phase 0/1 Clinical Trial of Low-Dose Capecitabine in Recurrent GBM: Global Immune Fingerprinting of Tissue and Blood	7:30 – 7:35	Introduction, Moderator: Nino Chiocca
8.05 - 8.15 NIH Funding Overview: Russell Lonser	7:35 - 8:05	Oldfield Lecture: Bench to bedside development of a novel STAT3 inhibitor for CNS
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: Introduction of Academy Special Lecturer: Alex Olivi Thirty generations of winemaking and still feeling young 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 Abhaya Kulkarni 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		, e
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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	9:40-9:50	Impact on Facial Nerve Outcomes and Extent of Resection Using Subperineural
9:50-10:00 Phase 0/1 Clinical Trial of Low-Dose Capecitabine in Recurrent GBM: Global Immune Fingerprinting of Tissue and Blood		
Fingerprinting of Tissue and Blood	James Liu	
Fingerprinting of Tissue and Blood		
	9:50-10:00	
		Fingerprinting of Tissue and Blood

Michael Vogelbaum

	xual Dysfunction: Prevalence, Prognosis, and Predictors of Outcomes in Patients
	bar Spondylolisthesis
Praveen Mumman	eni
	rebro-vascular remodeling following ischemic stroke: cellular and molecular echanisms.
Robert Dempsey	
10:20-10:30 Gli	ioblastoma organoids: A model system for patient-specific therapeutic testing
Steven Brem	
	10:30-10:45 Break
10:45-11:55 Pe	er Reviewed Abstract Session 10: Various topics
	oderators: Michael McDermott / Aviva Abosch
	itcomes from Asleep and Awake Dominant Temporal Lobe Glioma Surgery: Risk, tent of Resection, and Survival
Michael McDermo	ott
	ral-time CED of Nanoliposomal CPT-11 for recurrent GBM: Interim results of a phase linical trial
Manish Aghi	
11:05-11:15 Lep	ptomeningeal dissemination, a sinister pattern of medulloblastoma growth
Daniel Fults	
	naracteristics of Clots Retrieved by Mechanical Thrombectomy Associated with Stroke iology and Device Performance
Adnan Siddiqui	
11:25-11:35 Int	tegration of 5-ALA and CEUS in the Surgical Resection of High Grade Glioma
Alex Olivi	
	esenchymal Stem Cell Delivery of Oncolytic Adenovirus Delta-24-RGD Following rgical Resection of Glioblastoma
Fred Lang	
	n Epigenetic Liquid Biopsy Machine Learning Algorithm to Predict Glioma and ioma Subtypes
Steve Kalkanis	
	emarks Meeting Adjourn atific Chair - Aviva Abosch

Immediately following Adjournment, Lamberto Frescobaldi will host a wine tasting entitled "A Journey Through Tuscany"