

PROGRAM OVERVIEW

Wednesday, October 7, 2015

01:00 p.m. – 01:30 p.m.	Welcoming Remarks at the Old Assembly Hall
01:30 p.m. – 04:00 p.m.	Scientific Program at the Old Assembly Hall
04:15 p.m. – 05:30 p.m.	Guided tour through the Old Town Heidelberg (Departure from Alte Aula at 04:15 p.m.)
07:30 p.m. – 11:00 p.m.	Get Together at the Wirtshaus "Zum Seppl"

Thursday, October 8, 2015

06:30 a.m. – 07:30 a.m.	AACNS Business Meeting
07:30 a.m. – 01:30 p.m.	Scientific program at the Hotel Europäischer Hof Accompanied by an industrial exhibition
01:30 p.m. – 07:30 p.m.	Option 1: Golf St. Leon-Rot (Departure from Europäischer Hof 01:30 p.m.)
02:30 p.m. – 07:30 p.m.	Option 2: Guided tour – Along the German Wine Route (Departure from Europäischer Hof 02:30 p.m.)
07:30 p.m. – 11:00 p.m.	Dinner for Option 1 & 2 at the Palatinate Countryside

Friday, October 9, 2015

06:30 a.m. – 07:30 a.m.	AACNS Business Meeting
07:30 a.m. – 01:30 p.m.	Scientific Program at the Hotel Europäischer Hof Accompanied by an industrial exhibition
02:00 p.m. – 06:00 p.m.	Tour to Schwetzingen and Speyer (Departure from Europäischer Hof 02:00 p.m.)
07:30 p.m. – 12:30 a.m.	Gala Dinner at the Castle of Heidelberg

Saturday, October 10, 2015

07:30 a.m. – 12:00 a.m.	Scientific Program at the Hotel Europäischer Hof
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SCIENTIFIC PROGRAM

WEDNESDAY, OCTOBER 7, 2015

12:00-01:00

Lunch

(Bel Etage, Old Assembly Hall
Augustinergasse 2, Heidelberg)

01:00-01:20

Welcome Remarks

(Old Assembly Hall, Augustinergasse 2, Heidelberg)
Mitchel S. Berger (San Francisco)
Andreas Unterberg (Heidelberg)

01:20-04:00 WE.01

Opening Session Abstracts

(Old Assembly Hall, Augustinergasse 2, Heidelberg)

Chairs

Robert J. Spinner (Rochester)
Jürgen Meixensberger (Leipzig)

01:20

WE.01.01

Bioactive vs. Bare Platinum Coils: The MAPS 5 year results
Cameron G. McDougall, S. Claiborne Johnston, Anil Gholkar, Aquilla S. Turk III (Phoenix, Austin, Newcastle Upon Tyne, Charleston)

01:30

WE.01.02

Intraoperative visualization of functional brain areas by optical imaging: Chances and limitations
Gabriele Schackert, Stephan B. Sobottka (Dresden)

01:40

WE.01.03

Staged stereotactic radiosurgery for large brain metastases to improve local control
Gene H. Barnett, Lilyana Angelov (Cleveland)

01:50

WE.01.04

Quantitative Volumetry in the assessment of pituitary adenoma resection: endoscopy versus microscopy. A single surgeon retrospective comparative analysis.
Anthony C. Wang, Charif Sidani, Ashish H. Shah, Brandon G. Gaynor, S. Shelby Burks, Roy R. Casiano, Jacques J. Morcos (Miami)

02:00

WE.01.05

Intraoperative microdialysis as a tool to understand basal ganglia pathophysiology
Volker M. Tronnier, Aloysius Domingo, Christian K. E. Moll, Dirk Rasche, Christian Mohr, R. Rosales, Alexander Münchau, Vera Tadic, Christine Klein, Norbert Brüggemann, Andreas Moser (Lübeck, Hamburg, Manila)

WEDNESDAY, OCTOBER 7, 2015

12:10	WE.01.06	Determining best management of unruptured intracranial aneurysms <i>Robert E. Harbaugh (Hershey)</i>
12:20	WE.01.07	Meningioma surgery: Outcome comparison between younger and elderly patients <i>Christianto B. Lumenta, David B. Schul (München)</i>
1:30-2:50	Break	
2:50	WE.01.08	Surgical and endovascular treatment of internal carotid bifurcation aneurysms: comparison of results, outcome and mid-term follow-up <i>Volker Seifert, Johannes Platz, Nina Brawanski, Erdem Güresir, Stephanie Lescher, Christian Senft, Richard du Mesnil de Rochemont, Joachim Berkefeld, Jürgen Konczalla (Frankfurt/Main)</i>
3:00	WE.01.09	Skull base WHO grade I meningiomas: The relevance of Simpson grading system and recurrence-free survival after surgery <i>Anil Nanda, Shyamal Bir (Shreveport)</i>
3:10	WE.01.10	Biomechanical evaluation of a less invasive lumbar fixation device for midline bilateral decompression <i>Jörg Herdmann, Jan Frischmuth, Christopher D. Chaput, Hector-E. Soriano-Baron, Nestor G. Rodrigues-Martinez, Neil R. Crawford (Düsseldorf, Stade, Temple, Phoenix)</i>
3:20	WE.01.11	Impact of hemodynamics on stroke risk in symptomatic vertebrobasilar disease <i>Sepideh Amin-Hanjani (Chicago)</i>
3:30	WE.01.12	Treatment of intramedullary tumors – analysis of surgical morbidity and long-term results <i>Jörg Klekamp (Quakenbrück)</i>
3:40	WE.01.13	Initial results of a first-in-human trial of convection enhanced delivery of Topotecan and Gadolinium DTPA with use of the Cleveland multiport catheter <i>Michael A. Vogelbaum, Cathy Brewer, Manmeet Ahluwalia (Cleveland)</i>

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03:50	WE.01.14	Endoscope-assisted microvascular decompression in hemifacial spasm <i>Henry W. S. Schroeder, Christian Rosenstengel, Marc Matthes, Ehab Ahmed El Refaee, Ahmed El Damaty, Jörg Baldauf (Greifswald)</i>
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THURSDAY, OCTOBER 8, 2015

6:30-7:30

AAcNS Business Meeting

(Hotel Europäischer Hof)

7:30-7:35

Welcome Remarks

Douglas Kondziolka (New York)

Andreas Unterberg (Heidelberg)

07:35-08:45 TH.01

Peer Reviewed Abstract Session 1: Select Papers

Chairs

Douglas Kondziolka (New York)

Andreas Unterberg (Heidelberg)

7:35

TH.01.01

Newton-Nimodipine microparticles to enhance recovery while reducing toxicity after subarachnoid hemorrhage

Daniel Hänggi, Nima Etminan, R. Loch Macdonald, Hans Jakob Steiger, Stephan A. Mayer, Francois Aldrich, Michael N. Diringer, Brian L. Hoh, J. Mocco, Poul Strange, Herbert J. Faleck, Michael Miller, for the NEWTON Investigators (Mannheim, Toronto, Düsseldorf)

7:45

TH.01.02

Acute trial of closed loop deep brain stimulation for Tourette syndrome

Kelly D. Foote, Michael S. Okun, Aysegul Gunduz (Gainesville)

7:55

TH.01.03

Operative management of adult spinal deformity results in significant increases in QALYs gained compared to nonoperative management: Analysis of 479 patients with minimum 2-year follow-up

Justin K. Scheer, Christopher I. Shaffrey, Mark E. Shaffrey, Justin S. Smith, Malla Keefe, Christopher P. Ames (La Jolla, Charlottesville, San Francisco)

8:05

TH.01.04

Brief electrical stimulation promotes nerve regeneration following in-contiguity nerve injury

Yuval Shapira, Rajiv Midha (Calgary)

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| 08:15 | TH.01.05 | NCCTG N0574 (Alliance): A phase III randomized trial of Whole Brain Radiation Therapy (WBRT) in addition to radiosurgery (SRS) in patients with 1 to 3 brain metastases
<i>Anthony L. Asher, Paul D. Brown, Karla V. Ballman, Elana Farace, Jane H. Cerhan, S. Keith Anderson, Xiomara W. Carrero, Fred G. Barker II, Richard Deming, Stuart H. Burri, Cynthia Ménard, Caroline Chung, Volker W. Stieber, Bruce Pollock, Eva Galanis, Jan C. Buckner (Charlotte, Houston, Rochester, Hershey, Boston, Des Moines, Toronto, Winston-Salem)</i> |
| 08:25 | TH.01.06 | Control of the neonatal septisome and hydrocephalus in sub-Saharan Africa
<i>Steven J. Schiff (Hershey)</i> |
| 08:35 | | Discussion |

08:45-09:20 TH.02 Special Lecture 1

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|-------|----------|---|
| 08:45 | TH.02.01 | Introduction of Andreas von Deimling, MD and Wolfgang Wick, MD
<i>Mitchel S. Berger (San Francisco) and Andreas Unterberg (Heidelberg)</i> |
| 08:50 | TH.02.02 | A new approach towards diagnosing adult glioma by molecular analyses
<i>Andreas von Deimling (Heidelberg)</i> |
| 09:05 | TH.02.03 | Neurooncology and clinical trials in Europe: The current focus
<i>Wolfgang Wick (Heidelberg)</i> |

09:20-09:40 Break in the industrial exhibition

THURSDAY, OCTOBER 8, 2015

09:40-10:30 TH.03

Special Topic 1: AVM management in the ARUBA era: Looking Back, Going Forward

Chair	Howard Riina (New York)
Speaker	Surgical Resection: Robert Solomon (New York) Endovascular: Michael Forsting (Essen) Radiosurgery: Michael McDermott (San Francisco)
Comments	Robert Spetzler (Phoenix)
Discussion	

10:30-11:50 TH.04

Peer Reviewed Abstract Session 2: Vascular, Clinical Studies and Basic Science

Chairs		Michael T. Lawton (San Francisco) Volker Seifert (Frankfurt/Main)
0:30	TH.04.01	Complication effectiveness analysis of brain AVM surgery: A prospective cohort study. <i>Michael Morgan (Sydney)</i>
0:40	TH.04.02	Effects of cerebral aneurysm clip orientation on simulated postoperative, patient-specific hemodynamics <i>Gerald J. Riccardello Jr., Abhinav R. Changa, Kiran G. Thomas, Max Roman, Luke K. Barr, I. Paul Singh, Chirag D. Gandhi, Charles J. Prestigiacomo (Newark)</i>
0:50	TH.04.03	Neuroinflammatory processes following subarachnoid hemorrhage <i>Ulf C. Schneider, Anja-Maria Davids, Susan Brandenburg, Annett Müller, Asita S. Sarrafzadeh, Etienne Ndzie Atangana, Jennifer Schiffler, Nahid Hakiy, Salima Magrini, Anna Elke, Kati Turkowski, Tobias Finger, Angelika Gutenberg, Claire Gehlhaar, Wolfgang Brück, Peter Vajkoczy (Berlin, Genève, Göttingen)</i>

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11:00	TH.04.04	eCLiPs: A novel device for treatment of bifurcation aneurysms: Preliminary clinical and angiographic results. <i>Howard Riina, Tom Marotta, Martina Wan, Joost DeVries, Ian Penn, Donald Ricci (New York)</i>
11:10	TH.04.05	Outcome of patients with long lasting cerebral vasospasm after subarachnoid hemorrhage: Is CVS treatment worthwhile? – A matched pair analysis. <i>Jürgen Konczalla, Johannes Platz, Christian Senft, Volker Seifert (Frankfurt/Main)</i>
11:20	TH.04.06	MicroRNA and gene expression changes in human cerebral aneurysms <i>Kimón Bekelis, Joanna Hamilton, Amy Teegarden, Craig R. Tomlinson, Rachael Kuintzle, Nathan Simmons, Robert J. Singer, Manolis Kellis, David Hendrix, David W. Roberts (Lebanon, Corvallis, Cambridge)</i>
11:30	TH.04.07	Use of a topical anesthetic for frame fixation for gamma knife radiosurgery: a randomized controlled trial <i>Sean Duenas, Jonathan Pun, Hesham Radwan, Meredith Akerman, Michael Schulder (Philadelphia, New York, Lake Success, Manhasset)</i>
11:40		Discussion
11:50-12:00		Break in the industrial exhibition

12:00-01:40 TH.05

Peer Reviewed Abstract Session 3: Neurobiology and Neurosurgery

Chairs		Fred G. Barker II (Boston) Gabriele Schackert (Dresden)
12:00	TH.05.01	Prognostic value of the extent of resection and IDH1 mutation status in WHO grade II astrocytomas <i>Moritz Scherer, Christine Jungk, Andreas Mock, David Capper, Alexander Radbruch, Andreas von Deimling, Christel Herold-Mende, Andreas Unterberg (Heidelberg)</i>

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| 2:10 | TH.05.02 | Face percept formation in human ventral temporal cortex
<i>Kai J. Miller, Jeffrey G. Ojemann (Stanford, Seattle)</i> |
| 2:20 | TH.05.03 | The cause of coma after head injury as identified by early magnetic resonance imaging
<i>Raimund Firsching, Martin Skalej, Michael Luchtmann (Magdeburg)</i> |
| 2:30 | TH.05.04 | Phase coupling as a mechanism for information transfer between superior temporal and visual cortices during speech perception
<i>Daniel Yoshor, Muge Ozker Sertel, Michael S. Beauchamp (Houston)</i> |
| 2:40 | TH.05.05 | Adult sporadic pilocytic astrocytomas WHO grade I – a single-center study of a rare disease
<i>Christine Jungk, David Capper, Andreas von Deimling, Christel Herold-Mende, Andreas Unterberg (Heidelberg)</i> <i>BRK from 23%, BRK value 5%</i> |
| 2:50 | TH.05.06 | Integrative mouse and human studies implicate ANGPT1 and ZBTB7C as susceptibility genes to ischemic injury
<i>Rose Du, Jing Zhou, Svetlana Lorenzano, Wenming Liu, Nareerat Charoenvimolphan, Baogang Qian, Jun Xu, Jian Wang, Xinmu Zhang, Xin Wang, Annerose Berndt, William J. Devan, Valerie J. Valant, Jinyi Wang, Karen L. Furie, Jonathan Rosand (Boston, Pittsburgh, Shaanxi, Providence)</i> |
| 1:00 | TH.05.07 | Exploiting exosomes from human bone marrow mesenchymal stem cells to deliver therapeutic microRNAs to gliomas
<i>Frederick F. Lang, Shinji Yamashita (Houston)</i> |

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| 01:10 | TH.05.08 | For which gliomas is 5-ALA of value and what does fluorescence signify in gliomas that do not look like typical glioblastomas on pre-operative imaging? A correlation between 5-ALA induced fluorescence, pre-operative MRI, FET-PET and tumor molecular factors.
<i>Mohammed Jaber, Johannes Wölfer, Christian Ewelt, Markus Holling, Martin Hasselblatt, Tarek Zoubi, <u>Walter Stummer</u> (Münster)</i> |
| 01:20 | TH.05.09 | Intravital confocal spectral microscopy with solvatochromic dyes for the detection of subtle changes in Schwann cell myelin lipid composition: implications for the study of remyelination
<i>Joey Kevin Grochmal, Wulin Teo, Hardeep Ghambir, Ranjan Kumar, Jo Anne Stratton, Ravina Dhaliwal, Craig Brideau, Peter Stys, Rajiv Midha (Calgary)</i> |
| 01:30 | | Discussion |
| 01:40-02:30 | | Lunch (Hotel Europäischer Hof) |

FRIDAY, OCTOBER 9, 2015

06:30-07:30

AAcNS Business Meeting
(Hotel Europäischer Hof)

07:30-07:35

Welcome Remarks
Robert J. Spinner (Rochester)

07:35-09:05 FR.01

**Peer Reviewed Abstract Session 4:
Clinical Trials in Neurosurgery**

Chairs

Frederick F. Lang (Houston)
Veit Rohde (Göttingen)

07:35

FR.01.01

Benzimidazoles as novel therapeutics for spinal cord injury
James Geddes, Chen-Guang Yu (Lexington)

07:45

FR.01.02

BRAT analyses by aneurysm type
Robert F. Spetzler, Cameron G. McDougall, Joseph M. Zabramski, Felipe Albuquerque, Peter Nakaji, Robert Wallace, Nancy Hills (Phoenix, San Francisco)

07:55

FR.01.03

Phase 0 trial for a first-in-class cell-cycle inhibitor in recurrent glioblastoma
Jing Li, Julie Boerner, Lynn S. Ashby, Michael E. Berens, Patricia M. Lorusso, Nader Sanaji (Phoenix)

08:05

FR.01.04

Intracranial-to-Intracranial bypass for posterior inferior cerebellar artery aneurysms: Options, technical challenges, and results in 35 patients
Michael T. Lawton (San Francisco)

08:15

FR.01.05

Fluorescein sodium-guided resection of cerebral metastases – experience with first 44 patients
Julius Hühne, Christoph Hohenberger, Martin Andreas Proescholdt, Markus J. Riemenschneider, Christina Wendl, Alexander T. Brawanski, Karl-Michael Schebesch (Regensburg)

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08:25	FR.01.06	ER Stress modulation as a target for ameliorating effects of blast induced traumatic brain injury <i>Aric Flint Logsdon, Brandon Peter Lucke-Wold, Jason Delwyn Huber, <u>Charles L. Rosen</u> (Morgantown)</i>
08:35	FR.01.07	Role of surgery in cranial dural AV-fistulas <i>Manfred Westphal (Hamburg)</i>
08:45	FR.01.08	A matched cohort comparison of clinical outcomes following microsurgical resection or gamma knife radiosurgery for patients with smaller vestibular schwannomas <i>John G. Golfinos, Travis Hill, Osamah Chaudhry, Alireza Mansouri, J. Thomas Roland, Douglas Kondziolka (New York)</i>
08:55		Discussion

09:05-09:30 FR.02

**Special Topic 2:
Immunotherapy platforms for brain tumors**

Chair	Jörg-Christian Tonn (LMU München)
Speakers	Christel Herold-Mende (Heidelberg) John Sampson (Durham)

09:30-09:50

Break in the industrial exhibition

09:50-11:10 FR.03

Peer Reviewed Abstract Session 5

Chairs	Matthew Howard (Iowa City) Manfred Westphal (Hamburg)
9:50	FR.03.01 Intended subtotal removal and natural history of tumor remnants after surgery for large vestibular schwannoma <i>Luigi Mariani, Anna-Katharina Krähenbühl, Daniel Zumofen, Susanne Zabka, Birgit Westermann (Basel, Bern)</i>

FRIDAY, OCTOBER 9, 2015

0:00	FR.03.02	Improved facial and cochlear nerves functional outcome in large vestibular schwannomas with planned subtotal resection followed by Gamma Knife radiosurgery <i>Marc Levivier, Constantin Tuleasca, Roy Thomas Daniel (Lausanne)</i>
0:10	FR.03.03	Improving facial nerve outcome in a series of 400 vestibular schwannoma resections via an interdisciplinary retrosigmoid approach <i>Cordula Matthies, Robert Nickl, Maria Hummel, José Perez, Mario Löhr, Wafaa Shehata-Dieler, Rudolf Hagen, Ralf-Ingo Ernestus (Würzburg)</i>
0:20	FR.03.04	Readmission and reoperation to treat postoperative CSF leak after lumbar spine surgery, results from the N2QOD database. <i>Praveen V. Mummaneni, Rishi K. Wadhwa, Junichi Ohya, Khoi D. Than, Anthony L. Asher, Steven D. Glassman (San Francisco, Charlotte)</i>
0:30	FR.03.05	Managing arterial injury in endoscopic skull base surgery. Case series and review of the literature. <i>Theodore H. Schwartz, Vijau K. Anand (New York)</i>
0:40	FR.03.06	Neuropathological characteristics of brachial plexus avulsion injury with and without concomitant spinal cord injury <i>Zarina S. Ali, Victoria E. Johnson, William Stewart, Eric L. Zager, Gregory G. Heuer, Maura T. Weber, Arka N. Mallela, Douglas H. Smith (Philadelphia, Glasgow)</i>
0:50	FR.03.07	Recurrent intraneural ganglion cysts: Pattern and treatment implications <i>Nicholas M. Desy, <u>Robert J. Spinner</u> (Rochester)</i>
1:00		Discussion

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11:10-11:40 FR.04

**Special Topic 3:
The Future of Neurosurgical Publishing:
What should change, what needs to change?**

Chair

Mark N. Hadley (Birmingham)

Speakers

James T. Rutka (Journal of Neurosurgery)
Nelson Oyesiku (Neurosurgery)
Veit Rohde (Central European Neurosurgery)

11:40-11:50

Break in the industrial exhibition

11:50-01:00 FR.05

**Peer Reviewed Abstract Session 6: Functional
Neurosurgery, Imaging and Biomarkers**

Chairs

Rajiv Midha (Calgary)
Ulrich Sure (Essen)

11:50

FR.05.01

Endogenous adult neural stem cells are
irreplaceable
*Terry C. Burns, Dominic Rodrigues, Matthew D. Li,
Sunny Kumar, Theo D. Palmer (Stanford)*

12:00

FR.05.02

Changing the clinical course of glioma patients
by preoperative motor mapping with navigated
transcranial magnetic brain stimulation
*Sandro M. Krieg, Nico Sollmann, Jamil Sabih,
Lucia Bulubasova, Chiara Negwer, Tobias Moser,
Doris Droese, Florian Ringel, Bernhard Meyer
(München)*

12:10

FR.05.03

The potential of magnetic resonance guided
focused ultrasound in neurosurgical disorders
Andres M. Lozano (Toronto)

12:20

FR.05.04

Tractography of the trigeminal nerve
*Tarik F. Ibrahim, Jacquelyn P. Hill, Daniel J. Burkett,
Jonathan R. Garst, Douglas E. Anderson (Maywood)*

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FRIDAY, OCTOBER 9, 2015

2:30	FR.05.05	Transsylvian selective amygdalohippocampectomy for mesiotemporal epilepsy: Experience with 162 procedures <i>Josef Zentner, Kathrin Wagner, Andreas Schulze-Bonhage, Christian Erich Elger, Bernhard Steinhoff, A. S. Wendling, Irina Mader, Marco Prinz, Christian Scheiwe, Barbara Schmeiser (Freiburg)</i>
2:40	FR.05.06	Wells P. Egleton, MD; Neurosurgical Pioneer <i>Peter W. Carmel (Newark)</i>
2:50	FR.05.07	Magnetic resonance imaging of giant intracranial aneurysms at 7 Tesla <i>Karsten H. Wrede, Toshinori Matsushige, Bixia Chen, Oliver M. Müller, Harald H. Quick, Ulrich Sure (Essen)</i>

01:00-01:35 FR.06

Presidential Address (AAcNS)

01:00	FR.06.01	Presentation of the AAcNS President <i>Michael McDermott (San Francisco)</i>
01:05	FR.06.02	Presidential Address: The organization of human language: The past, present and future <i>Mitchel S. Berger (San Francisco)</i>

SATURDAY, OCTOBER 10, 2015

7:30-07:35

Welcome Remarks

Andreas Unterberg (Heidelberg)

07:35-08:10 SA.01

Special Topic 4:

Should Cranial and Spinal Neurosurgery be Separate Certifications?

Chair

Douglas Kondziolka (New York)

Speakers

The Cons outweigh the Pros – *Daniel Barrow (Georgia)*

The Pros outweigh the Cons – *Paul McCormick (Ridgewood)*

The European Perspective – *Bernhard Meyer (TU München)*

Discussion

08:10-08:25 SA.02

Special Lecture 2:

Academy Award Presentation and Lecture

08:10

SA.02.01

Introduction of Academy Award Winner
Matthew Howard (Iowa City)

08:12

SA.02.02

Lecture: Multiple subsets of brain tumor initiating cells co-exist in glioblastoma
Achal Achrol (Stanford)

08:25-10:15 SA.03

Peer Reviewed Abstract Session 7:

Scientific Discoveries in Tumor & Spine

Chairs

Fred G. Barker II (Boston)

Bernhard Meyer (TU München)

08:25

SA.03.01

Skull base chondrosarcomas: The role of histology-specific treatment protocols
Franco DeMonte, Shaan Raza, Paul W. Gidley (Houston)

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| 08:35
8:44 | SA.03.02 | Polymeric nanoparticles for non-viral gene therapy extend brain tumor survival <i>in vivo</i>
<i>Alessandro Olivi, Antonella Mangraviti, Jordan J. Green (Baltimore)</i> |
| 08:45
8:54 | SA.03.03 | Intraoperative 3D-contrast enhanced ultrasound (CEUS): A prospective study in 50 patients with brain tumors
<i>Felix Arlt, Claire Chalopin, Andrea Müns, Jürgen Meixensberger, Dirk Lindner (Leipzig)</i> |
| 08:55
9:00 | SA.03.04 | The role of stress granules in astrocytoma cell signaling
<i>James T. Rutka, Adrienne Weeks, Christian Smith (Toronto)</i> |
| 09:05 | SA.03.05 | Retargeting measles virus using cysteine knot proteins
<i>Corey Raffel (San Francisco)</i> |
| 09:15
9:18 | SA.03.06 | Complete resection of contrast enhancing tumor volume is associated with improved survival in recurrent glioblastoma – results from the DIRECTOR trial
<i>Jörg-Christian Tonn, Bogdana Suchorska, Hans Georg Wirsching, Ghazaleh Tabatabai, Christian Senft, Peter Hau, Michael C. Sabel, Ulrich Herrlinger, Ralf Ketter, Uwe Schlegel, Christine Marosi, Guido Reifenberger, Wolfgang Wick, Michael Weller (München, Zürich, Tübingen, Frankfurt/Main, Regensburg, Düsseldorf, Bonn, Saarbrücken, Bochum, Wien, Heidelberg)</i> |
| 09:25
9:30 | SA.03.07 | Innate immunological compensatory control of gliomagenesis and malignant transformation in murine CD8 α knockout models
<i>Ganesh Rao, Amy B. Heimberger (Houston)</i> |

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SATURDAY, OCTOBER 10, 2015

09:35 09:43	SA.03.08	Randomized comparison of long-term outcome after unilateral or bilateral laminotomy versus laminectomy for decompression of lumbar spinal stenosis <i>Gerrit Alexander Schubert, Reinhard Stier, Aldemar Andres Hegewald, Peter Schmiedek, Claudius Thomé (Aachen, Mannheim, Innsbruck)</i>
09:45 09:55	SA.03.09	Anti-angiogenic stress creates a c-Met/ β 1 integrin complex promoting allosteric activation which drives invasive resistance in glioblastoma <i>Arman Jahangiri, Maxim K. Sidorov, Sung-Won Han, Manish K. Aghi (San Francisco)</i>
09:55 10:05	SA.03.10	Myoblast-mediated co-delivery of VEGF and PDGF after experimental encephalomyosynangiosis improves collateralization and functional outcome in a model of chronic cerebral hypoperfusion <i>Nils Hecht, Aiki Marushima, Johannes Woitzik, Roberto Gianni Barrera, Andrea Banfi, Peter Vajkoczy (Berlin, Basel)</i>
10:05		Discussion

09:15-10:30 Break in the industrial exhibition

10:30-11:55 SA.04 Peer Reviewed Abstract Session 8: Outcomes and Quality of Life

Chairs		Anil Nanda (Shreveport) Walter Stummer (Münster)
10:30	SA.04.01	Development of a preoperative adult spinal deformity frailty index that correlates to common quality and value metrics: length of stay, major complications and patient reported outcomes <i>Justin K. Scheer, Justin S. Smith, D. Kojo Hamilton, Daniel Sciubba, Malla Keefe, Christopher I. Shaffrey, Mark E. Shaffrey, Christopher P. Ames (La Jolla, Charlottesville, Pittsburg, Baltimore, San Francisco)</i>

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| 10:40 | SA.04.02 | Prospective multicenter assessment of complication rates associated with adult spinal deformity surgery in 291 patients with minimum 2-year follow-up
<i>Justin S. Smith, Christopher I. Shaffrey, Mark E. Shaffrey, Tamir Ailon, Malla Keefe, D. Kojo Hamilton, Daniel Sciubba, Justin K. Scheer, Christopher P. Ames (Charlottesville, San Francisco, Pittsburg, Baltimore, La Jolla)</i> |
| 10:50 | SA.04.03 | Surgical rehearsal platform use improvement measures in aneurysm clipping: A prospective, randomized trial
<i>Jonathan Pace, Alan S. Hoffer, Warren R. Selman, <u>Nicholas C. Bambakidis</u> (Cleveland)</i> |
| 11:00 | SA.04.04 | Prospective study of continuous dynamic mapping of the corticospinal tract during surgery of motor eloquent intraaxial brain tumors
<i>Kathleen Seidel, Jürgen Beck, Philippe Schucht, <u>Andreas Raabe</u> (Bern)</i> |
| 11:10 | SA.04.05 | Radiocarbon birth dating to unravel the developmental chronology of the physiological and pathological cerebrovasculature
<i>Nima Etminan, Meike Halberkann, Bruce A. Buchholz, Rita Dreier, Christian Matzenauer, Kerim Beseoglu, Michael T. Lawton, Hans-Jakob Steiger, Daniel Hänggi, Daniel Cooke, R. Loch Macdonald (Düsseldorf, Livermore, San Francisco, Toronto)</i> |
| 11:20 | SA.04.06 | The effect of weekend and after-hours surgery on morbidity and mortality rates in pediatric neurosurgery
<i>Virendra Desai, David Gonda, Sheila L. Ryan, Valentina Briceno, Sandi K. Lam, Thomas G. Luerssen, <u>Andrew Jea</u> (Houston)</i> |

SCIENTIFIC PROGRAM

SATURDAY, OCTOBER 10, 2015

- 1:30 SA.04.07 Posterior C1-C2 fixation for geriatric odontoid fractures – early morbidity and perioperative complications
Yu-Mi Ryang, Elisabeth Török, Insa Janssen, Florian Ringel, Jens Gempt, Bernhard Meyer (München)
- 1:40 SA.04.08 Comparison of outcomes for open versus minimally invasive transforaminal lumbar interbody fusion utilizing the National Neurosurgery Quality and Outcomes Database
Meic H. Schmidt, Jian Guan, Erica Bisson, Andrew Dailey (Salt Lake City)
- 1:50 Discussion

11:55-12:10 Closing Remarks

Douglas Kondziolka (New York)
Andreas Unterberg (Heidelberg)

12:10-1:00 Lunch (Hotel Europäischer Hof)