

**74<sup>th</sup> Southern Neurosurgical Society Annual Meeting**  
**March 6-9, 2024 | The Conrad Orlando | Orlando, FL**  
**PROGRAM**

Wednesday, March 6

2:00–5:00 pm Executive Council Meeting Violet/Wisteria  
 3:00–5:00 pm **Registration Opens** **Jacaranda Ballroom Foyer**

Thursday, March 7

**7:00 am Registration, Attendee & Exhibitor Breakfast** **Acacia Ballroom & Foyer**

**Session I Sustainability: Sustaining a Career in Neurosurgery** **Jacaranda Ballroom**  
*Moderators: A. Kim, MD, PhD & P. Fecci, MD, PhD*

7:30 am Welcome *K. Riley, MD*  
 7:40 am Sustaining an Academic Career *J. Markert, MD, PhD*  
 7:55 am Sustaining a Career in Private Practice *A. Brown, MD*  
 8:10 am Sustaining Education in Neurosurgery *J. Osburn, MD*  
 8:25 am Discussion  
 8:37 am Sustaining Neurosurgery Globally *C. Bonfield, MD*  
 8:49 am Sustaining Women in Neurosurgery *B. Grunch, MD*  
 9:01 am Sustaining Innovation in Neurosurgery *E. Leuthardt, MD*  
 9:13 am Sustaining a Career through Adversity and Adapting *K. New, MD*  
 9:28 am Discussion

**9:40 am Refreshment Break with Exhibitors** **Acacia Ballroom & Foyer**

**Session II Abstracts, Invited Talks, & Downing Lecture** **Jacaranda Ballroom**  
*Moderators: E. Nottmeier, MD & V. Rossi, MD*

**10:10 am Abstracts & Discussion Part A**

|          |  |
|----------|--|
| 10:10 AM | Abstract 1: Combined Mastoidectomy and Middle Fossa Craniotomy for Tegmen Defect Repair: Long-term Outcomes of a Multidisciplinary Approach<br><b>Kara A. Parikh, MD</b> ; Jordan Roach; Emal Lasha, MD; Jon H. Robertson, MD; and L. Madison Michael, MD  |
| 10:16 AM | Abstract 2: Critical Neighbors: Reading and Naming Representations in Ventral Occipitotemporal Cortex<br>Oscar Woolnough; <b>Nitin Tandon</b>  |
| 10:22 AM | Abstract 3: Primary CNS Lymphoma in Elderly Patients: A Critical Investigation of Radiosurgery and Chemotherapy Outcomes in a Prospective, Comparative, Clinical Study<br><b>Andres M. Alvarez-Pinzon, MD, PhD</b> ; Maria P. Fernandez Gomez, MD; Penelope Mantilla Farfan, MD; and Jose Valerio, MD, MBA |
| 10:28 AM | Discussion   |

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|----------|--|
| 10:32 AM | Abstract 4: Remission Recipe for Prolactinomas: Mixing Dopamine, Gender, And a Dash of Scalpels (A Multicenter Production)<br><b>Harshvardhan Iyer, MBBS</b> ; Ogechukwu Ariwodo; Chase Mckevitt, DO; Juan Medina Colon; Saurav Das; and Kaisorn Chaichana, MD   |
| 10:38 AM | Abstract 5 - McCravey Clinical Science Award Winner: Identifying Risk Factors for Adverse Surgical Outcomes Following Lumbar Disc Arthroplasty: A Multi-institutional Analysis of 473 Patients<br><b>James Mooney, MD</b> ; Karim Nathani, MBBS; Giorgos Michalopoulos, MD; Anil Mahavadi, MD; Rick Sasso, MD; Jonathan Parish, MD; Sheetal Vinayek; Ousman Jallow, BS; Mia Mazer; Todd Lanman, MD; Hyun Bae, MD; Michael Kropf, MD; Jason Cuellar, MD; Patrick Johnson, MD; Mohamad Bydon, MD; and Corey Walker, MD |
| 10:44 AM | Abstract 6: Optimal Timing of Cervical Fracture Fixation After Trauma in the United States<br><b>Christian Joel Quinones, MD</b> and Darwin Ang, MDHCA   |
| 10:50 AM | Discussion   |

10:55 am **Invited Talk:** Navigated Prone / Lateral Spine Surgery

*P. Park, MD*

**11:07 am Abstracts & Discussion Part B**

|          |  |
|----------|--|
| 11:07 AM | Abstract 7: Clopidogrel is Associated with Reduced Likelihood of Aneurysmal Subarachnoid Hemorrhage: A Multi-center Matched Retrospective Analysis<br><b>Brandon Lucke-Wold, MD, PhD</b>   |
| 11:10 AM | Abstract 8: Motor Outcomes Among Patients with Ballistic Neurologic Injuries Managed Expectantly: A 13-year Single Institution Retrospective Review<br><b>Tyler X. Giles</b> ; Nicholas P. Derrico; Rebekah J. Kimball; Benjamin W. Carroll; Katherine E. Baker; Evan Bowen; John H. Wilkinson; Gregory R. Vance; Zachary S. Smalley; and Jared J. Marks                   |
| 11:13 AM | Abstract 9: Dysembryoplastic Neuroepithelial Tumor Outcomes After Surgical Resection, a Multi-center Mayo Clinic Experience<br><b>Jesus Emiliano Sanchez-Garavito, MD</b> ; Harshvardhan Iyer; Ariwodo Ogechukwu, MD; Saurav Das, MD; Chase McKevitt, MD; Siddarth Chitta; Juan Pablo Navarro Garcia de Llano, MD; Alfredo Quinones-Hinojosa; and Sanjeet Grewal, MD       |
| 11:16 AM | Abstract 10: Mechanisms of BBB Permeability Changes Triggered by Laser Interstitial Thermal Therapy<br><b>Ryan Cleary, MD</b> ; Alicia Yang; Rowland Han, MD; Timothy Woodiwiss, MD; and Albert H. Kim, MD, PhD  |
| 11:19 AM | Abstract 11: Predicting Anastomosis Occlusion in Moyamoya Disease: The Bypass Angiographic Scoring System (BASS)<br><b>Jorge Rios Zermeno, MD</b> ; Iman Ahrari, MD; Jeyan S. Kumar, MD; and Rabih G. Tawk, MD   |
| 11:22 AM | Discussion   |
| 11:26 AM | Abstract 12: Does Pelvic Incidence Incline Towards Adjacent Segment Disease in Standalone Lateral Lumbar Interbody Fusion?<br><b>Bryan Clampitt, BS</b> ; Molly Monsour, BS; Richard Rivera, BS; Maryam Kazelka, BS; Samantha Schimmel, BS; Leila Azari, BS; John Kim, MS; Nicholas Alford, BS; Kelly Gassie, MD; Adolfo Vilorio Hidalgo, MD; and Puya Alikhani, MD, FAANS |

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| 11:29 AM | Abstract 13: Skull Base Registries: Building Consensus<br><b>Kara A. Parikh, MD</b> ; Mustafa Motiwala, MD; Furlan A. Beer, MD; Dhruv S. Khotari, MD; Garret W. Choby, MD; Varun R. Kshetry, MD; Debraj Mukherjee, MD; Corinna G. Levine, MD, MPH; Donato R. Pacione, MD; Claudia Kirsch, MD; Erin McKean, MD; Sanjeet V. Rangarajan, MD; L. Madison Michael, MD; and Jeffrey M. Sorenson, MD                    |
| 11:32 AM | Abstract 14: Parity in Functional Outcomes Following Laser Interstitial Thermal Therapy Versus Resection for Primary Motor Cortex Brain Metastases<br>Aden P. Haskell-Mendoza, MS; Ethan S. Srinivasan, MD; Emily C. Lerner, MHS; Ann Marie Flusche, BS; Ariel T. Gonzalez, BS; Ellery Hepburn Reason, BS; Ryan Edwards, MD; <b>Joshua D. Jackson, MD, PhD</b> ; David Huie, MD, MS; and Peter E. Fecci, MD, PhD |
| 11:35 AM | Abstract 15: Probing Cerebral Metabolism Change With in Vivo Magnetic Resonance Spectroscopy After Experimental Traumatic Brain Injury<br><b>Yujiao Lu, PhD</b> ; Asamoah Bosomtwi, PhD; Nicholas Moore; Abbas Jarrahi, MD; Roxan Ara; Fengchong Kong; John Vender, MD; Fernando Vale, MD; and Krishnan Dhandapani, PhD  |
| 11:38 AM | Abstract 16: Antigen Presentation by Tumor-Associated Macrophages Mediates Progenitor to Terminal Exhaustion Transition in GBM And Other Solid Tumors<br>Jessica Waibl-Polania; Xanne Hoyt-Miggelbrink; Luke Wachsmuth; Selena Lorrey; Daniel Wilkinson; Emily Lerner; Karolina Woroniecka; <b>Peter E. Fecci MD, PhD</b>  |
| 11:41 AM | Abstract 33: Adropin Protects Against Subarachnoid Hemorrhage-associated Brain Injury Through Activation of Endothelial Nitric Oxide Synthase<br><b>Brandon Lucke-Wold, MD, PhD</b>  |
| 11:44 AM | Discussion   |

11:48 am Introduction to Ned Downing Lecture

*P. Fecci, MD, PhD*

11:50 am **Ned Downing Lecture**

*Haley Fortier*

12:15 pm Raffle Drawing and Adjourn

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Friday, March 8

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|                    |  |                                    |
|--------------------|--|------------------------------------|
| <b>7:00 am</b>     | <b>Attendee &amp; Exhibitor Breakfast</b>  | <b>Acacia Ballroom &amp; Foyer</b> |
| <b>Session III</b> | <b>Sustainability: Using Technology to Sustain Patient and Surgeon<br/>(Non-CME Session)<br/>Moderators: W. Gump, MD; A. Patel, MD; &amp; G. Grant, MD</b> | <b>Jacaranda Ballroom</b>          |
| <b>7:30 am</b>     | <b>VISUALIZE</b>   |                                    |
| 7:30 am            | Visualize Networks: Applying Connectomics to Intracranial Surgery  | <i>M. Sughrue, MD</i>              |
| 7:38 am            | Novel Uses of Endoscopy for Spinal Decompression and Motion Preservation   | <i>D. Bhowmick, MD</i>             |
| 7:46 am            | Visualize the Tumor: Gleolan® (aminolevulinic acid HCl) <b>(Non CME - Medexus)</b>   | <i>R. D'Amico, MD</i>              |
| 7:54 am            | Discussion   |                                    |
| <b>8:04 am</b>     | <b>MINIMIZE</b>  |                                    |
| 8:04 am            | Minimize Surgeon and Patient Exposures in the OR   | <i>R. Isaacs, MD</i>               |
| 8:12 am            | Minimize Surgical Exposure: Robotic Spine Surgery  | <i>M. Abd-el-Barr, MD</i>          |
| 8:20 am            | Minimize the Surgeon: Fully Autonomous Robots  | <i>P. Codd, MD</i>                 |
| 8:28 am            | OptiMesh: The Ultra-Minimally Invasive Lumbar Interbody Fusion Solution<br><b>(Non-CME - Spineology)</b>   | <i>B. Grunch, MD</i>               |
| 8:36 am            | Minimize Pain with ERAs/Pain Management <b>(Non-CME - Pacira)</b>  | <i>TBD</i>                         |
| 8:44 am            | Discussion   |                                    |
| <b>8:54 am</b>     | <b>ZAP</b>   |                                    |
| 8:54 am            | Zap: Where LITT Fits in Your Brain Tumor Program <b>(Non-CME - Monteris)</b>   | <i>A. Kim, MD, PhD</i>             |
| 9:02am             | Zap: Ultrasonic Bone Aspiration <b>(Non-CME – Stryker)</b>   | <i>S. Pirris, MD</i>               |
| 9:10 am            | Zap: Focused Ultrasound  | <i>S. Harward, MD, PhD</i>         |
| 9:18am             | Zap: Sonobiopsy – Using Ultrasound to Obtain Molecular Diagnoses   | <i>E. Leuthardt, MD</i>            |
| 9:26 am            | Discussion   |                                    |
| 9:36 am            | Introduction to Presidential Address   | <i>N. Bentley, MD</i>              |
| 9:40 am            | <b>Presidential Address</b>  | <i>K. Riley, MD</i>                |
| <b>10:10 am</b>    | <b>Refreshment Break with Exhibitors</b>   | <b>Acacia Ballroom &amp; Foyer</b> |

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**Session IV**      **Abstracts, Invited Talks, & Hudson Lecture**      **Jacaranda Ballroom**  
*Moderators: S. Harward, MD & Min Park, MD*

**10:41 am**      **Abstracts & Discussion Part A**

|          |   |
|----------|---|
| 10:41 AM | Abstract 18: Radiographic Predictors of Spinal Column Instability After Gunshot Wounds: A Pragmatic Score<br><b>Nicholas P. Derrico</b> ; Tyler X. Giles; Benjamin W. Carroll; Katherine E. Baker; Evan Bowen; John Henley W. Wilkinson; Gregory R. Vance; Chad W. Washington; Zachary S. Smalley; and Jared J. Marks |
| 10:47 AM | Abstract 19: Targeted Neuromodulation for Chronic Pain Via Patient-specific Lead Localization and Programming of a Motor Cortex Stimulator<br><b>Andreas Seas, BS</b> ; Grace Futch, BS; Pranav I. Warman, BS; Vishal Venkatraman, MS; Blake Parente, PA-C; Stephen Harward, MD PhD; and Shivanand P. Lad, MD PhD     |
| 10:53 AM | Discussion  |
| 10:57 AM | Abstract 20: Comparative Analysis of Anterior Temporal Lobectomy Versus Laser Ablation for Temporal Lobe Epilepsy – Long Term Cognitive and Seizure Outcomes<br>Ellery Wheeler; Kathryn Snyder; Oscar Woolnough; Yosefa Modiano; <b>Nitin Tandon</b>  |
| 11:03 AM | Abstract 21: Implementing Regional Criteria for Neurosurgical Triage of Traumatic Brain Injury and Intracerebral Hemorrhage: Three Year Experience of a Large Tertiary Care Center<br><b>Trent VanHorn, MD</b> ; Daniel Zeitouni, MD; and Joe Bernard, MD   |
| 11:09 AM | Abstract 22: Is Screw Loosening an Issue with Facet Replacement in the Treatment of Degenerative Lumbar Spondylolisthesis. Results of a Randomized FDA Trial<br><b>Stephen Pirris, MD</b> ; Domagoj Coric; William C. Welch; Ali Chahlavi; Mark Gerber; and Michael Steinmetz   |
| 11:15 AM | Discussion  |

11:20 am      **Invited Talk:** A Novel Wearable Ear-mounted Vagal Nerve Stimulator for Vasospasm in SAH      *E. Leuthardt, MD*

**11:32 am**      **Abstracts & Discussion Part B**

|          |  |
|----------|--|
| 11:32 AM | Abstract 38: Approach, Complications, and Outcomes for 37 Consecutive Pediatric Patients Undergoing Laser Ablation for Medically Refractory Epilepsy<br><b>Gerald Grant, MD</b>  |
| 11:35 AM | Abstract 24: Risk of Kyphoplasty Failure in the Treatment of Cancer Associated Compression Fractures: A Retrospective Analysis<br><b>Bassel El Sayed, BS</b> ; Vishnu V. Iyer, BS; Samantha Schimmel, BA; Amber Valeri, DO; and Nam D. Tran, MD, PhD |
| 11:38 AM | Abstract 25: The Tipping Point in Middle Meningeal Artery Embolization: A Cost Effectiveness Analysis<br><b>Luca Debs, MD</b> ; Scott Rahimi, MD; and Fernando Vale, MD  |
| 11:41 AM | Abstract 26: Racial Disparities in Overall Survival for Newly Diagnosed IDH-Wildtype Glioblastoma Patients During the Covid Pandemic<br><b>Stephen Garrett Whipple, MD</b> ; Sungho Lee, MD, PhD; and Charles Ronkon, MD                             |
| 11:44 AM | Discussion   |

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| 11:48 AM | Abstract 27: Metabolomic Profiling of Human Meningioma Before and After Radiation<br><b>Hashim S. Syed</b> ; Mark Dougherty, MD; Jeremy Greenlee, MD; Eric Taylor, PhD; and Marlan Hansen, MD   |
| 11:51 AM | Abstract 28: Combined Gpi+vim Deep Brain Stimulation for Tremor-predominant Parkinson’s Disease<br><b>Anshit Goyal, MBBS, MS</b> ; Nirea Martin Del-Campo; Luis M. Perez-Martinez; Philip Tipton, MD; Ryan Uitti, MD; Erik Middlebrooks, MD; and Sanjeet Grewal, MD |
| 11:54 AM | Abstract 29: Connectomics of Chronic Vim vs. Rescue Vim/Vo Deep Brain Stimulation in Essential Tremor<br><b>Vyshak Chandra, MD</b> ; Anna Fusco; Yusuf Mehkri; Joshua Wong; Justin Hilliard; and Kelly Foote  |
| 11:57 AM | Discussion  |

12:00 pm Washington Update *K. Orrico, JD*

12:10 pm Introduction to the Hudson Lecture *P. Fecci, MD, PhD & P. Grossi, MD*  
 12:15 pm **Hudson Lecture** *J. Sampson, MD, PhD*

12:50 pm Raffle Drawing

12:55 pm Members’ Business Meeting and Adjourn *K. Riley, MD & C. Adamson, MD*

**1:10–2:10 pm Resident, Fellow, and Young Surgeon Workshop & Lunch** **Violet/Wisteria**  
*Chair: S. Pirris, MD* *(across from Exhibit Hall)*  
*Supported by: Greenlight Medical & Medtronic*  
*Non-CME Session*

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Saturday, March 9

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|           |   |  |
|-----------|---|--|
| 7:00 am   | Attendee & Exhibitor Breakfast  | Acacia Ballroom & Foyer                                      |
| Session V | <b>Sustaining the Argument: Showdowns</b><br><i>Moderators: M. Abd-el-Barr, MD (spine); C. David, MD (vascular/skull base); S. Blackburn, MD (vascular/skull base); N. Au Yong, MD (functional); D. Higgins, MD (tumor); &amp; H. Akbari, MD (peds)</i>                               |  |
| 7:30 am   | <b>Tumor Showdown: <u>To Tile or Not to Tile?</u></b> The Role of Gamma Tile in Brain Tumor Treatment<br>7:30 "Tile the Tumor!"<br>7:35 "Save the Tile for the Bathroom Wall"<br>7:40 Debate  | <i>K. Hoang, MD<br/>C. Deibert, MD</i>                       |
| 7:48 am   | <b>Spine Showdown: <u>How Long is Your Fuse?</u></b> Elderly Patient with Lumbar Kyphosis and Neurogenic Claudication<br>7:48 "Minimally Invasive Decompression is Good Enough"<br>7:53 "Short Segment Fusion is All You Need"<br>7:58 "Fix the Whole #\$\$@%# Thing!"<br>8:03 Debate | <i>N. Chaudhry, MD<br/>N. Kazemi, MD<br/>C. Shaffrey, MD</i> |
| 8:12 am   | <b>Vascular Showdown: <u>How Big is Big Enough?</u></b> Treatment of Unruptured Aneurysms Less than 7mm<br>8:12 "Don't Poke the Bear"<br>8:17 "Everyone Deserves a Treat!"<br>8:22 Debate   | <i>T. Lau, MD<br/>C. Ogilvy, MD</i>                          |
| 8:30 am   | <b>Functional Showdown: <u>Probing the Depths:</u></b> Neurostimulation for Epilepsy: Where Do We Go Beyond VNS?<br>8:30 "No Need to Respond – just DBS"<br>8:35 "Staying Responsive with RNS"<br>8:40 Debate   | <i>J. Gerrard, MD<br/>D. Southwell, MD</i>                   |
| 8:48 am   | <b>Skull-base Showdown: <u>Looking for an Angle:</u></b> Unilateral vs. Bilateral Approach for Planum, Olfactory Groove, and Tuberculum Meningiomas<br>8:48 "A One-sided Argument"<br>8:53 "Two Sides to Every Story"<br>8:58 Debate  | <i>A. Patel, MD<br/>T. Garzon-Muvdi, MD</i>                  |
| 9:06 am   | <b>Pediatrics Showdown: <u>Closing Time:</u></b> Postnatal vs. Prenatal Myelomeningocele Repair<br>9:06 "A Womb with a View"<br>9:11 "Awaiting Delivery"<br>9:16 Debate   | <i>J. Strahle, MD<br/>B. Rocque, MD</i>                      |

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9:24 am Introduction to Distinguished Practitioner Lecture *J. Wilson, MD*  
 9:28 am **Distinguished Practitioner Lecture** *D. Coric, MD*

**9:55 am Final Refreshment Break with Exhibitors**  
*You still have time to complete the Exhibits Treasure Hunt! Final raffle drawing at 12:30 pm*

**Session VI Abstracts, Invited Talks, & Semmes Lecture**  
*Moderators: R. Jafrani, MD & W. Gump, MD*

**10:20 am Abstracts & Discussion Part A**

|          |   |
|----------|---|
| 10:20 am | Abstract 30: <b>McCravey Basic Science Award Winner:</b> Impact of Aspirin on Decreasing Aneurysm Formation and Rupture in Male Mice Compared to Female Mice Via the Effect of 15-PGDH And EP<br><b>Samantha Spellicy, MD, PhD;</b> Basel Musmar; Kendall Reitz, BS; Jihad Abdelgadir, MD; Brian Mace; Eduardo Chaparro, MD, PhD; Ali Zomorodi, MD; and David Hasan, MD     |
| 10:26 am | Abstract 31: IL12-secreting Car-t Cells Eradicate Heterogeneous Brain Tumors and Promote Epitope Spreading Via Local Antigen Presenting Cells Without Host Lymphodepletion<br>Steven Hacoheh Shen, PhD; Aditya Mohan; <b>Anoop Patel, MD</b>  |
| 10:32 am | Abstract 32: A Transcriptome-wide Association Study of Meningioma Using Joint Tissue Imputation and Mendelian Randomization<br><b>Robert J. Dambrino, MD, MPH;</b> Phillip Lin, BA; Xavier Bledsoe, BA; Campbell Liles, MD; Lola B. Chambless, MD; Reid C. Thompson, MD; and Eric R. Gamazon, PhD, MS   |
| 10:38 am | Discussion  |
| 10:42 am | Abstract 17: Multi-center Prospective Cohort of Intractable Chronic Low Back Pain Patients Treated with Restorative Neurostimulation – Outcomes From 5-year Data<br><b>Christopher Shaffrey, MD</b>   |
| 10:48 am | Abstract 34: Type I Interferon Signaling Within Glioblastoma Tumor Cells Promotes T Cell Exhaustion and Resistance to Checkpoint Inhibitors<br><b>Joshua Jackson, MD, PhD;</b> Xiuyu Cui, PhD; and Peter Fecci, MD, PhD   |
| 10:54 am | Abstract 35: Adoptive Lymphocyte Transfer Increases Intra-tumoral T Cell Counts During Lymphocytic Sequestration and Augments Immunostimulatory Therapy in The CNS of Mice with Established Glioma<br><b>Kirit Singh, MBBS;</b> Bhairavy Puvindran, MBBS; Shannon Wallace; Pamela Noldner; Ying Zhou; Mustafa Khasraw, MD; John Sampson, MD PhD; and Peter E. Fecci, MD PhD |
| 11:00 am | Discussion  |

11:05 am **Invited Talk:** Window of Opportunity Trials in Neuro-Oncology *M. Vogelbaum, MD, PhD*



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**11:17 am Abstracts & Discussion Part B**

|          |   |
|----------|---|
| 11:17 AM | Abstract 36: Analysis of Penetrating Cerebrovascular Injuries with Computed Tomographic Angiography at a Single Institution<br><b>Tyler Warner, MD</b> ; Alec Clark, MD; Nicholas P. Derrico, MD; Tyler X. Giles, MD; Benjamin W. Carroll, MD; Katherine E. Baker, MD; Evan Bowan, MD; John Wilkinson, MD; Gregory Vance, MD; Zachary S. Smalley, MD; and Jared J. Marks, MD  |
| 11:20 AM | Abstract 37: Refractory Primary CNS T-cell Lymphomas: Evaluation of Stereotactic Radiosurgery as a Second Line Treatment<br><b>Jose Valerio, MD, MBA</b> ; Maria P. Fernandez Gomez, MD; Penelope Mantilla Farfan, MD; and Andres M. Alvarez-Pinzon, MD, PhD  |
| 11:23 AM | Abstract 23: Summary Findings of a Surgical Window-of-opportunity Clinical Trial Evaluating the Pcsk9 Inhibitor Evolocumab in Patients With Glioma<br><b>Kirit Singh, MBBS</b> ; Matthew Foster, PhD; Kelly Hotchkiss, PhD; Chelsea Railton; Emily Blandford; David Ashley, MBBS, PhD; Annick Desjardins, MD; Henry Friedman, MD; Margaret O. Johnson, MD; Allan Friedman, MD; Stephen Keir, PhD; James E. Herndon, PhD; John Sampson, MD, PhD; Chuan Yuan-Li, DSc; Anoop Patel, MD; Peter E. Fecci, MD, PhD; and Mustafa Khasraw, MD |
| 11:26 AM | Abstract 39: Awake Robotic Minimally Invasive Transforaminal Lumbar Interbody Fusion Under Spinal Anesthesia: A Prospective Study with 1-year Follow-up<br><b>Gaetano De Biase, MD</b> ; Oluwaseun Akinduro, MD; Ian Buchanan, MD; Elird Bojaxhi, MD; Shaun Gruenbaum, MD; Teodoro Forcht Dagi, MD, MPH; Alfredo Quinones-Hinojosa, MD; and Kingsley Abode-Iyamah, MD   |
| 11:29 AM | Discussion  |
| 11:33 AM | Abstract 40: Multicenter Study of Prolactinoma Patients with Prior Dopamine Agonist Therapy and Subsequent Transsphenoidal Surgery: Insights into Demographics, Treatment, and Outcomes<br><b>Ogechukwu Ariwodo</b> ; Harshvardhan Iyer, MBBS; Chase McKeivitt; Saurav Das; Juan Medina Colon; and Kaisorn Chaichana, MD  |
| 11:36 AM | Abstract 41: Social Determinants and Adjuvant Radiotherapy after Resection of Atypical Meningioma<br><b>Zvipo Mutsa Chisango</b> ; Obiadada Ugochukwu; Xiaojie J. Zhi; Jim Zhong, MD; Bree Eaton, MD; Hui-Kuo Shu, MD PhD; Arman Jahangiri, MD PhD; David Bray, MD; and Kimberly Hoang, MD  |
| 11:39 AM | Abstract 42: Minimally Invasive Parafascicular Surgical Approaches Versus Traditional Techniques for Supratentorial Intraventricular Tumors<br><b>Wade Pingel, BA</b> ; Gabrielle Gray, BS; Timothy Woodiwiss, MD; Juan Vivanco Suarez, MD; and Jeremy Greenlee, MD   |
| 11:42 AM | Abstract 43: Intracranial Tumors Elicit Systemic Sympathetic Hyperactivity that Limits Immunotherapeutic Responses<br>Selena Lorrey; Luke Wachsmuth; Jessica Waibl-Polania; Alexandra Hoyt-Miggelbrink; Xiuyu Cui; Emily Lerner; Daniel Wilkinson; Kyle Walsh; Quinn Ostrom; <b>Peter E. Fecci, MD, PhD</b>   |
| 11:45 AM | Discussion  |

11:50 am Introduction to the Semmes Lecture

*E. Leuthardt, MD*

11:55 am **Semmes Lecture**

*D. Limbrick, MD, PhD*

12:30 pm Raffle Drawing & Closing Comments

12:35 pm **Meeting Adjourns**