



**AMERICAN NEUROTOLOGY SOCIETY**  
**56<sup>th</sup> Annual Spring Meeting**  
**VIRTUAL PROGRAM**

**ALL TIMES listed are Central Time**

**SATURDAY, APRIL 10, 2021**

**SCIENTIFIC PROGRAM - "NEUROTOLOGY ACROSS THE LIFE SPAN"**

**9:00 WELCOME AND OPENING REMARKS & POSTER WINNERS ANNOUNCED**  
*Bradley W. Kesser, MD*

**9:05 PRESIDENTIAL CITATIONS - *Bradley W. Kesser, MD***  
*Paul R. Lambert, MD*  
*George T. Hashisaki, MD*  
*Paul A. Levine, MD*  
*Robert A. Jahrsdoerfer, MD*

**9:15 2<sup>ND</sup> ANNUAL NOEL L. COHEN AWARD FOR SIGNIFICANT CONTRIBUTIONS TO OTOTOLOGY AND NEUROTOLOGY**  
*Bradley W. Kesser, MD*

**9:20 INTRODUCTION OF HOUSE LECTURE**  
*Bradley W. Kesser, MD*

**9:25 WILLIAM F. HOUSE MEMORIAL LECTURE (25 min)**  
**"Vestibular Diagnosis in a Pandemic: Return of the House Call"**  
*David S. Zee, MD*  
Professor of Neurology  
Joint Appointments in Ophthalmology, Otolaryngology, Head & Neck Surgery, and Neuroscience  
The Wilmer Eye Institute  
The Johns Hopkins School of Medicine, Baltimore, MD

**9:55 DISCUSSION (5 min)**

**10:02 PANEL - "Pediatric Potpourri: Challenging Cases to Stump the Stars" (1 hour)**  
*Robert C. O'Reilly, MD, Moderator*  
*Stephanie A. Moody Antonio, MD*  
*Sharon Cushing, MD, MSc*  
*Tina C. Huang, MD*  
*John L. Dornhoffer, MD*

**11:05 INTRODUCTION OF COCHLEAR IMPLANTATION ABSTRACT PRESENTATIONS**  
*Jennifer L. Maw, MD & J. Thomas Roland Jr, MD, Moderators*

**11:06 Exploring Factors Responsible for Delay in Pediatric Cochlear Implantation**

*Jacquelyn K. DeVries, BS*  
*Yin Ren, MD, PhD*  
*Julie Purdy, PhD, CCC-A,*  
*Daniela Carvalho, MD, MMM,*  
*Elina Kari, MD*

**11:12 Outcomes in Patients Meeting Cochlear Implant Criteria in Noise but not in Quiet**

*Anthony Thai, BA*  
*Emma Tran, BS*  
*Austin Swanson, AuD*  
*Matthew B. Fitzgerald, PhD*  
*Nikolas H. Blevins, MD*  
*Jennifer C. Alyono, MD*

**11:18 ANS TRAINEE AWARD**

**Zwitterionic Coating of Cochlear Implants Reduces Friction and Force of Insertion**

*Douglas M. Bennion, MD, PhD*  
*Ryan Horne*  
*Adreann Peel*  
*C. Allan Guymon, PhD*  
*Marlan R. Hansen, MD*

**11:25 NEUROTOLOGY FELLOW AWARD**

**The Impact of Age on Noise Sensitivity in Cochlear Implant Recipients**

*Matthew A. Shew, MD*  
*Craig A. Buchman, MD*  
*Dorina Kallogjeri, MD*  
*Stephanie Chen, MD*  
*Cameron C. Wick, MD*  
*Nedim Durakovic, MD*  
*Jacques A. Herzog, MD*  
*CI532 Study Group*

**11:31 The Influence of Cochlear Implant Electrode Type and Position on Hearing Preservation**

*Elizabeth L. Perkins, MD*  
*Matthew O'Malley, MD*  
*Marc Bennett, MD*  
*David S. Haynes, MD*  
*Jack H. Noble, PhD*  
*Robert F. Labadie, MD, PhD*  
*René Gifford, PhD*

**11:37 Role of Pre-Implant Patient Expectations in Adult Cochlear Implant Outcomes**

*Theodore R. McRackan, MD, MSCR*  
*Mark S. Costello, MD*  
*Priyanka Reddy, BS*  
*Judy R. Dubno, PhD*

**11:43 Time-to-Peak Speech Perception Score after Cochlear Implantation in Single-sided Deafness**

*Ashley M. Nassiri, MD, MBA*  
*John P. Marinelli, MD*  
*Katherine P. Wallerius, MD*

*Christine M. Lohse, MS*  
*Colin L. W. Driscoll, MD*  
*Brian A. Neff, MD*  
*Aniket A. Saoji, PhD*  
*Matthew L. Carlson, MD*

**11:49 Identification of Factors Associated with Second-Side Cochlear Implant Speech Recognition Outcomes in Adults**

*James R. Dornhoffer, MD\**  
*Yuan F. Liu, MD\**  
*Elise E. Zhao, BS*  
*Elizabeth L. Camposeo, AuD*  
*Ted A. Meyer, MD, PhD*  
*Theodore R. McRackan, MD, MSCR*  
*\*Authors contributed equally to this work*

**11:55 Characterizing Cochlear Implant Magnet-Related MRI Artifact and Visualization of Indicated Structures**

*Nathan D. Cass, MD*  
*Douglas J. Totten, BA*  
*Elizabeth L. Perkins, MD*  
*John D. Ross, MD*  
*Matthew R. O'Malley, MD*

**12:01 DISCUSSION (10 min)** - *Jennifer L. Maw, MD & J. Thomas Roland Jr, MD*

**12:11 LUNCH BREAK**

**1:00 INTRODUCTION OF VESTIBULAR SCHWANNOMA ABSTRACT PRESENTATIONS**

*Ravi N. Samy, MD & Esther X. Vivas, MD, Moderators*

**1:01 Natural History of Growing Vestibular Schwannomas During Observation: An International Multi-Institutional Study of 593 Growing Tumors**

*John P. Marinelli, MD*  
*Matthew L. Carlson, MD*  
*Jacob B. Hunter, MD*  
*Ashley M. Nassiri, MD, MBA*  
*Martin Reznitsky, MD*  
*Sven-Eric Stangerup, MD, DMSc*  
*Per Caye-Thomasen, MD, DMSc*

**1:07 Effect of AR42 on Tumor Growth and Hearing Loss In Vivo and on Primary Vestibular Schwannoma Cells**

*Carly Misztal, BS*  
*Olena Bracho, BS*  
*Michael Estivill, BS*  
*Cristina Fernandez Valle, PhD*  
*Fred Telischi, MD*  
*Xue-Zhong Liu, MD, PhD*  
*Christine T. Dinh, MD*

- 1:13 Cost-effectiveness of Microsurgery, Radiosurgery, and Observation in the Management of Small and Medium-sized Sporadic Vestibular Schwannoma**  
*Robert J. Macielak, MD*  
*Viengneese Thao, PhD, MS*  
*Bijan J. Borah, PhD*  
*James P. Moriarty, MS*  
*Jamie J. Van Gompel, MD*  
*Matthew L. Carlson, MD*
- 1:19 NEUROTOLOGY FELLOW AWARD**  
**Complications after Surgical Salvage for Vestibular Schwannoma following Failed Stereotactic Radiosurgery**  
*Alexander L. Luryi, MD*  
*Seilesh Babu, MD*  
*John F. Kveton, MD*  
*Dennis I. Bojrab, MD*  
*Elias M. Michaelides, MD*  
*Christopher A. Schutt, MD*
- 1:25 Delayed Facial Nerve Palsy following Resection of Vestibular Schwannoma: Clinical and Surgical Characteristics**  
*Bridget MacDonald, BA*  
*Yin Ren, MD, PhD*  
*Bita Shahrivini, BS*  
*Kareem Tawfik, MD*  
*Omid Moshtaghi, MD*  
*Marc Schwartz, MD*  
*Rick Friedman, MD, PhD*
- 1:31 Subset of Intracanalicular Vestibular Schwannomas Demonstrate Minimal Growth over a 10 Year Period**  
*Matthew J. Wu, BS*  
*Renata M. Knoll, MD*  
*Michael J. McKenna, MD*  
*Elliott D. Kozin, MD\**  
*David H. Jung, MD, PhD\**
- 1:37 Evaluating the Impact of Frailty and Advanced Age on Morbidity following Vestibular Schwannoma Surgery**  
*Alvin DeTorres, MD*  
*Gentry Carter, BS*  
*Alvin Kwok, MD, MPH*  
*Christian Bowers, MD*  
*Neil S. Patel, MD*  
*Richard K. Gurgel, MD, MSCI*
- 1:43 The Influence of Extent of Resection and Tumor Morphology on Facial Nerve Outcomes following Acoustic Neuroma Surgery**  
*Elizabeth L. Perkins, MD*  
*Nauman F. Manzoor, MD*  
*Douglas J. Totten, BA*  
*Alexander D. Sherry, MD*  
*Matthew O'Malley, MD*

*Marc Bennett MD, MHCC*  
*David S. Haynes, MD, MHCC*

- 1:49 DISCUSSION (10 min) - Ravi N. Samy, MD & Esther X. Vivas, MD**
- 2:02 PANEL - “Lessons Learned: Neurotology in the Covid-19 Pandemic” (1 hour)**  
*Sarah E. Mowry, MD, Moderator*  
*Jennifer B. Nuzzo, DrPH*  
*Courtney C. J. Voelker, MD, PhD*  
*Sonya Malekzadeh, MD*  
*Shivesh Maharaj, MBBCH, FCORL, MMED*
- 3:02 BREAK**
- 3:14 INTRODUCTION OF HITSELBERGER LECTURER**  
*Ronna Hertzano, MD, PhD*
- 3:16 WILLIAM E. HITSELBERGER MEMORIAL LECTURE**  
**“Atorvastatin Is Associated with Reduced Cisplatin-Induced Hearing Loss in Patients with Head and Neck Cancer”**  
*Lisa L. Cunningham, PhD*  
Senior Investigator  
Laboratory of Hearing Biology and Therapeutics  
National Institute on Deafness and Other Communication Disorders  
National Institutes of Health, Bethesda, MD
- 3:41 DISCUSSION (5 min)**
- 3:47 INTRODUCTION OF 2019 ANS RESEARCH GRANT RECIPIENT**
- 3:48 ANS 2019 RESEARCH GRANT (8 min)**  
**Targeting Epigenetic Modifying Enzymes for Hair Cell Regeneration**  
*Dunia E. Abdul-Aziz, MD*  
Massachusetts Eye and Ear
- 4:00 INTRODUCTION OF ABSTRACT PRESENTATIONS – TINNITUS AND DIZZINESS**  
*Meredith E. Adams, MD & Jeffrey Sharon, MD, Moderators*
- 4:01 Diagnostic Yield and Utility of Radiographic Imaging in the Evaluation of Pulsatile Tinnitus: A Systematic Review**  
*Austin C. Cao, BA*  
*Caitlin Cavarocchi, BA*  
*Tiffany P. Hwa, MD*  
*Steven J. Eliades, MD PhD*  
*Michael J. Ruckenstein, MD*  
*Douglas C. Bigelow, MD*  
*Jason A. Brant, MD*
- 4:07 A Phase 1/2 Study of OTO-313 Given as a Single Intratympanic Injection in Patients with Moderate to Severe, Persistent Tinnitus**  
*Jeffery J. Anderson, PhD*  
*Kenneth S. Maxwell, MD (Presenter)*  
*James M. Robinson, MS*

*Ines Hoffman, PhD*  
*Gordon T. McMurry, MD*  
*Grant D. Searchfield, PhD*  
*David M. Baguley, PhD*

- 4:13 Transtemporal Sigmoid Sinus Decompression: A Novel Surgical Procedure for the Treatment of Idiopathic Pulsatile Tinnitus**  
*Patrick W. Slater, MD*  
*Bailey H. Duhon, BS*  
*Neha Korla, MDS*
- 4:19 Supervised Machine Learning Models for Predicting Common Causes of Dizziness**  
*Eric J. Formeister, MD, MS*  
*Jeffrey D. Sharon, MD*
- 4:25 Head Roll-Tilt Subjective Visual Vertical Test in the Diagnosis of Persistent Postural-Perceptual Dizziness (PPPD)**  
*Chihiro Yagi, MD*  
*Yuka Morita, MD, PhD*  
*Meiko Kitazawa, MD*  
*Kuniyuki Takahashi, MD, PhD*  
*Yoshiro Wada, MD, PhD*  
*Tadashi Kitahara, MD, PhD*  
*Arata Horii, MD, PhD*
- 4:31 ANS TRAINEE AWARD**  
**Intraoperative Electrocochleography Predicts Outcomes in Transmastoid and Middle Cranial Fossa SSCD Repair**  
*Susan E. Ellsperman, MD*  
*Steven A. Telian, MD*  
*Paul R. Kileny, PhD*  
*Christopher M. Welch, MD, PhD*
- 4:37 DISCUSSION (10 min) - Meredith E. Adams, MD & Jeffrey Sharon, MD**
- 4:47 Break**
- 5:00 INTRODUCTION OF ABSTRACT PRESENTATIONS – POTPOURRI**  
*Brian D. Nicholas, MD & Emily Z. Stucken, MD, Moderators*
- 5:01 Comparison of Outcomes of Surgical Repair of Spontaneous Temporal Bone CSF Leaks and Encephaloceles Using Bone Cement and Autologous Material**  
*Vir Patel, MD*  
*Tiffany Peng Hwa, MD*  
*Steven J. Eliades, MD, PhD*  
*Jason A. Brant, MD*  
*Douglas C. Bigelow, MD*  
*Michael J. Ruckenstein, MD*
- 5:07 Perineural Invasion of the Intratemporal Facial Nerve: How Far Proximally Do We Chase the Positive Margin?**  
*Joshua Cody Page, MD*  
*Marc-Elie Nader, MD, FRCSC*

*Diana Bell, MD*  
*Paul W. Gidley, MD*

**5:13 The Laterality of Early Age-Related Hearing Loss and Brain Beta-Amyloid**

*Alexandria L. Irace, BA*  
*Brady Q. Rippon, MS*  
*Adam M. Brickman, PhD*  
*José A. Luchsinger, MD, MPH*  
*Justin S. Golub, MD, MS*

**5:19 NICHOLAS TOROK VESTIBULAR AWARD**

**Higher Readmission Rates after Hip Fracture among Patients with Vestibular Disorders**

*Steven D. Curry, MD, MPH*  
*Alessandro Carotenuto, MD*  
*Devin A. DeLuna, BS*  
*Dennis J. Maar II, BA*  
*Ye Huang, BA*  
*Justin C. Siebler, MD*  
*Jonathan L. Hatch, MD*

**5:25 Diameter-Based Volumetric Models May Inaccurately Calculate Jugular Paraganglioma Volume following Sub-Total Resection**

*Douglas J. Totten, BA*  
*Nauman F. Manzoor MD*  
*Elizabeth L. Perkins MD*  
*Nathan D. Cass MD,*  
*Mohamed H. Khattab MD*  
*David S. Haynes MD MMHC*  
*Joseph M. Aulino MD*

**5:31 Opioid and Non-Opioid Usage in the Post-operative Period following Otologic Surgery**

*Neal Rajan Godse, MD*  
*Rahilla A. Tarfa, PhD*  
*Philip Perez, MD*  
*Barry E. Hirsch, MD*  
*Andrew A. McCall, MD*

**5:37 Opioid Prescribing Patterns after Skull Base Surgery for Vestibular Schwannoma**

*Yin Ren, MD, PhD*  
*Pasha Mehranpour, BS*  
*Omid Moshtaghi, MD*  
*Marc S. Schwartz, MD*  
*Rick A. Friedman, MD, PhD*

**5:43 DISCUSSION (10 min) - Brian D. Nicholas, MD & Emily Z. Stucken, MD**

**5:55 PANEL - “Hearing Loss and Dementia: Separating Fact from Fiction” (45 min)**

*Justin S. Golub, MD, Moderator*  
*Katharine K. Brewster, MD*  
*Carrie L. Nieman, MD, MPH*  
*Jennifer A. Deal, PhD*  
*M. Kathleen Pichora-Fuller, PhD*

**6:42 OTOLOGY & NEUROTOLOGY OPEN (ONO) ANNOUNCEMENT**

*Michael E. Hoffer, MD, ONO Editor-in-Chief*

**6:45 INTRODUCTION OF INCOMING ANS PRESIDENT - Craig A. Buchman, MD**

*Bradley W. Kesser, MD*

**6:47 CLOSING REMARKS**

*Bradley W. Kesser, MD*

**6:50 ADJOURN**