

**AMERICAN NEUROTOLOGY SOCIETY**  
**54<sup>th</sup> Annual Meeting**  
**PRELIMINARY PROGRAM**  
**May 3-4, 2019**  
**JW Marriott Austin**  
**Austin, TX**

**FRIDAY, MAY 3, 2019**

**1:00 BUSINESS MEETING** (*New member introduction*)  
(*Members Only*)

**1:30 SCIENTIFIC PROGRAM**  
(*Open to registered Members and Non-members – Badge required for admittance*)

**1:30 WELCOME & OPENING REMARKS BY THE PRESIDENT**  
*Barry E. Hirsch, MD*

**PRESIDENTIAL CITATIONS**

*Eugene N. Myers, MD*

*Jonas T. Johnson, MD*

*Donald B. Kamerer, MD*

**1:42 WILLIAM F. HOUSE MEMORIAL LECTURE**  
**Cortical Predictors of Language: A Top-down Exploration of Pediatric Cochlear Implantation**  
*Nancy M. Young, MD*  
*Lillian S. Wells Professor of Pediatric Otolaryngology*  
*Northwestern University Feinberg School of Medicine*  
*Head, Section of Otology & Neurotology, Division of Otolaryngology*  
*Ann & Robert H. Lurie Children's Hospital of Chicago*

**2:07 INTRODUCTION - OUTCOMES IN COCHLEAR IMPLANTATION**

**2:09 Five Years of Electric-Acoustic Stimulation (EAS) Listening Experience: Hearing Preservation and Benefits of Acoustic Representation of the Fundamental Frequency**  
*Elizabeth Perkins, MD*  
*Margaret Dillon, AuD*  
*Kevin Brown, MD, PhD*

**2:16 General Health Quality of Life Instruments Underestimate the Impact of Bilateral Cochlear Implantation**  
*Theodore R. McRackan, MD, MSCR*  
*Joshua E. Fabie, BS*  
*Prashant N. Bhenswala, MD*  
*Shaun A. Nguyen, MD*  
*Judy R. Dubno, PhD*

**2:23 Slim Perimodiolar Arrays are as Effective as Slim Lateral Wall Arrays for Functional Hearing Preservation after Cochlear Implantation**  
*Erika A. Woodson, MD*  
*Rebecca Nelson, MD*  
*Thomas J. Haberkamp, MD*

*Sarah Sydlowski, AuD, PhD*

**2:30 Predicting Changes in Tinnitus after Unilateral Cochlear Implantation in Adults**

*Peter R. Dixon, MD*

*David Shipp, MA*

*Kari Smilsky, MCLSc*

*Vincent Y. Lin, MD*

*Trung Le, MD, PhD*

*Joseph M. Chen, MD*

**2:37 Cognitive Functions in Adults Receiving Cochlear Implants: Predictors of Speech Recognition Outcomes and Changes after Implantation**

*Aaron C. Moberly, MD*

*Michael S. Harris, MD*

*David B. Pisoni, PhD*

*William G. Kronenberger, PhD*

*Christin Ray, PhD, CCC-SLP*

**2:44 DISCUSSION**

**2:47 BREAK WITH EXHIBITORS**

**3:15 INTRODUCTION - VESTIBULAR SCHWANNOMA - IN VIVO AND IN VITRO**

**3:17 Preclinical Evaluation of Compounds Targeting Schwannoma in an NF2 Mouse Model**

*Charles W. Yates, MD, MS*

*Waylan Bessler, BS*

*Li Jiang, MD*

*Abbie Smith, BS*

*D. Wade Clapp, MD*

**3:24 Vestibular Schwannoma Tumor Size is Correlated with Acute Vestibular Symptoms After Gamma Knife Therapy**

*Daniel Y. Lee, BS*

*David K. Lerner, MD*

*James G. Naples, MD*

*Jason A. Brant, MD*

*Douglas C. Bigelow, MD*

*John Y.K. Lee, MD, MSCE*

*Michelle Alonso-Basanta, MD, PhD*

*Michael J. Ruckenstein, MD, MSc*

**3:31 NEUROTOLOGY FELLOW AWARD**

**What Genes Can Tell: A Closer Look at Vestibular Schwannoma**

*Ksenia A. Aaron, MD*

*Zarko Manojlovic, PhD*

*Sharon Chang, BS*

*Eric Kwok, BS*

*Nathan Tu, MD, MPH*

*Kyle Hurth, MD, PhD*

*Rick A. Friedman, MD, PhD*

**3:38 Effects of Single-Fraction Radiation on Merlin-Deficient and Normal Schwann Cells in Vitro**

*Erin R. Cohen, MD*

*Brian Marples, PhD*

*Nagy Elsayyad, MD*

*Michael Ivan, MD*

*Cristina Fernandez-Valle, PhD*

*Fred F. Telischi, MD*

*Christine T. Dinh, MD*

**3:45 DISCUSSION/INTRODUCTION**

**3:50 ANS RESEARCH GRANT**

**Verbal Memory as Outcome Predictor in Adults Receiving Cochlear Implants**

*Michael S. Harris, MD*

*Medical College of Wisconsin*

*ANS Research Grant recipient 2017-18*

**4:00 INTRODUCTION**

**4:02 PANEL**

**Meniere's Disease: What Do We Know and What Don't We Know?**

*Anil Lalwani, MD, Moderator*

*Greg J. Basura, MD, PhD*

*Akira Ishiyama, MD*

*Michael J. Ruckenstein, MD, MSc*

*Alec N. Salt, PhD*

*Hinrich Staecker, MD, PhD*

*Andrea Vambutas, MD*

**5:00 ANNOUNCEMENT OF ANS & AOS POSTER WINNERS**

*Craig A. Buchman, MD - ANS Education Director*

*Marlan R. Hansen, MD - AOS Education Director*

**5:05 CLOSING REMARKS/ADJOURNMENT**

**SATURDAY, MAY 4, 2019**

**7:00 BUSINESS MEETING (Committee Reports)**

*(Members Only)*

**7:30 SCIENTIFIC PROGRAM**

*(Open to registered Members and Non-members – Badge required for admittance)*

**7:30 WELCOME & OPENING REMARKS BY THE PRESIDENT**

*Barry E. Hirsch, MD*

**7:33 INTRODUCTION - INNER EAR PHYSIOLOGY**

**7:35 The Role of The Spiral Ligament in Sensorineural Hearing Loss in Humans:  
A Temporal Bone Study**

*Karen B. Teufert, MD*

*Fred H. Linthicum Jr., MD*

- 7:42 Anatomical and Functional Consequences of Microneedle Perforation of Round Window Membrane**  
*Michelle Yu, BS*  
*Daniel N. Arteaga, BA*  
*Aykut Aksit, MS*  
*Harry Chiang, BA*  
*Jeffrey W. Kysar, PhD*  
*Anil K. Lalwani, MD*
- 7:49 TRAINEE AWARD**  
**Neurotrophin Signaling in Various Degrees of Hearing Loss using MicroRNA Perilymph Profiling**  
*Matthew Shew, MD*  
*Helena Wichova, MD*  
*Jacob New, PhD*  
*Athanasia Warnecke, MD*  
*Thomas Lenarz, MD, PhD*  
*Hinrich Staecker, MD, PhD*
- 7:56 NEUROTOLOGY FELLOW AWARD**  
**Intratympanic Diltiazem-Chitosan Hydrogel as a Novel Otoprotectant Against Cisplatin-Induced Ototoxicity in a Mouse Model**  
*James G. Naples, MD*  
*Michael J. Ruckenstein, MD*  
*Jarnail Singh, PhD*  
*Brandon C. Cox, PhD*  
*Daqing Li, MD*
- 8:03 Neuroprotection of NIR Light in Ananimal Model of Cochlear Implantation**  
*Arne Ernst, MD, PhD*  
*Dietmar Basta, PhD*
- 8:10 DISCUSSION/INTRODUCTION**
- 8:15 ANS/AAO-HNSF HERBERT SILVERSTEIN RESEARCH AWARD**  
**Novel Neurotrophin-Bisphosphonate Conjugates to Promote Cochlear Synaptogenesis**  
*David H. Jung, MD, PhD*  
*Massachusetts Eye and Ear Infirmary/Harvard Medical School*  
*Silverstein Grant recipient 2016-18*
- 8:25 INTRODUCTION - COI, ACTIVE BONE CONDUCTION, COCHLEAR IMPLANT INTEVENTIONS**
- 8:27 Evaluating the Industry Relationships of Physicians Presenting at the American Neurotology Society Spring Meetings**  
*Milap H. Desai, BS*  
*Darshak M. Vekaria BS*  
*Brian J. McKinnon, MD, MBA, MPH*
- 8:34 Active Bone Conduction Implants Improve Patient Reported Outcomes Measures – A 12-Month Prospective Study**  
*Matthew G. Crowson, MD*  
*Euna A. Hwang, MD*

*Julija Adamonis, M.Sc. Reg. CASLPO*  
*Trung Le, MD, PhD*  
*Vincent Lin, MD*  
*Joseph Chen, MD*

**8:41 Subclinical Age-Related Hearing Loss is Associated with Cognitive Impairment**

*Justin S. Golub, MD, MS*  
*Adam M. Brickman, PhD*  
*Adam J. Ciarleglio, PhD*  
*Nicole Schupf, PhD*  
*José A. Luchsinger, MD, MPH*

**8:48 Impact of Auditory-Motor Musical Training on Melodic Pattern Recognition in Cochlear Implant Users**

*Divya A. Chari, MD*  
*Anirrudh Patel, PhD*  
*Karen C. Barrett, PhD*  
*Lauren Jacobs, BS*  
*Patpong Jiradejvong, MS*  
*Charles J. Limb, MD*

**8:55 The Use of Artificial Intelligence in Cochlear Implant Programming**

*Susan B. Waltzman, PhD*  
*David C. Kelsall, MD*

**9:02 Intracochlear Pressure Transients During Cochlear Implant Electrode Insertion: Effect of Micro-mechanical Control on Limiting Pressure Trauma**

*Renee M. Banakis Hartl, MD, AuD*  
*Christopher Kaufmann, MD, MS*  
*Marlan R. Hansen, MD*  
*Daniel J. Tollin, PhD*

**9:09 Electrocochleographic Patterns in Patients with Sudden Sensorineural Hearing Loss Undergoing Cochlear Implantation**

*Michael S. Harris, MD*  
*William J. Riggs, AuD*  
*Kristin Kozloski, AuD*  
*Oliver F. Adunka, MD*

**9:16 DISCUSSION**

**9:19 WILLIAM E. HITSELBERGER MEMORIAL LECTURE  
Evolution of the Middle Fossa Access for Skull Base Disorders**

*Bruce J. Gantz, MD*  
*Head, Department of Otolaryngology - Head and Neck Surgery*  
*Brian F. McCabe Distinguished Chair in Otolaryngology - Head and Neck Surgery*  
*Professor of Otolaryngology & Neurosurgery*  
*University of Iowa*

**9:45 BREAK WITH EXHIBITORS**

**10:15 INTRODUCTION - FACIAL NERVE, VESTIBULAR SCHWANOMMA INVESTIGATIONS**

**10:17 Transgenic Mouse Model for Facial Nerve Synkinesis**

*Mostafa Ahmed, MD*

*Alex Deich, BS*

*Grace Balfour, BS*

*Ark Lorin, MD*

*Greg Kelts, MD*

*Richard Williams, DMD, PhD*

**10:24 Post Traumatic Complete Facial Palsy: Comparative Analysis of Outcomes of Conservative Management vs Surgical Exploration: A University Hospital Study and Review of Literature**

*Diptarka Bhattacharyya, MD*

*Pravin Rajgadkar, MD*

**10:31 Association between Metformin Usage and Tumor Growth Rate in Vestibular Schwannoma Patients**

*Austin Y. Feng, MD*

*Ali Kouhi, MD*

*Alejandro Enriquez-Marulanda, MD*

*Justin M. Moore, MD, PhD*

*Yona Vaisbuch, MD*

**10:38 Delayed Tumor Growth in Vestibular Schwannoma: An Argument for Lifelong Surveillance**

*Robert J. Macielak, MD*

*Neil S. Patel, MD*

*Katherine A. Lees, MD*

*Nicole M. Tombers, RN, CCRP*

*John P. Marinelli, BS*

*Matthew L. Carlson, MD*

**10:45 Rate of Initial Hearing Loss Predicts Risk of Non-Serviceable Hearing among Observed Sporadic Vestibular Schwannoma**

*Matthew L. Carlson MD*

*Eric M. Dowling, MD*

*Christine M. Lohse, MS*

*Brendan P. O'Connell, MD*

*Katherine A. Lees MD*

*David S. Haynes, MD*

*Jacob B. Hunter, MD*

**10:52 Factors Associated with Cranial Neuropathy following Gamma Knife for Vestibular Schwannoma**

*David K. Lerner, MD*

*Daniel Y. Lee, BA*

*James G. Naples, MD*

*Jason A. Brant, MD*

*Douglas C. Bigelow, MD*

*Michelle Alonso-Basanta, MD, PhD*

*Michael J. Ruckenstein, MD*

**10:59 DISCUSSION/INTRODUCTION**

**11:05 PANEL**

**Disorders of Intracranial Pressure**

*David S. Haynes, MD, Moderator*

*Paul A. Gardner, MD*

*Matthew L. Carlson, MD*

*Howard W. Francis, MD*

*Ester X. Vivas, MD*

**12:00 INTRODUCTION OF INCOMING PRESIDENT**

*Nikolas H. Blevins, MD*

**12:05 CLOSING REMARKS/ADJOURNMENT**