

**AMERICAN NEUROTOLOGY SOCIETY**  
**58<sup>th</sup> Annual Spring Meeting**  
**PRELIMINARY PROGRAM**  
**May 5 - 6, 2023**  
**Boston, MA**

**FRIDAY, MAY 5, 2023**

**1:00 BUSINESS MEETING** (*Treasurer's report/New member induction*)  
(*Members Only*)

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

**1:30 WELCOME & OPENING REMARKS BY THE PRESIDENT**  
*Fred F. Telischi, MD*

**1:32 PRESIDENTIAL CITATIONS**  
*Thomas Balkany, MD*  
*Jacques Morcos, MD*  
*Donna Sorokin*  
*Krzysztof Morawski, MD, PhD*  
*Michal Luntz-Kaminski, MD*  
*Brenda Lonsbury-Martin, PhD*

**1:40 4<sup>th</sup> ANNUAL NOEL L. COHEN AWARD FOR SIGNIFICANT CONTRIBUTIONS TO  
OTOLOGY AND NEUROTOLOGY**

**1:45 INTRODUCTION OF WILLIAM F. HOUSE MEMORIAL LECTURE**  
*Fred F. Telischi, MD*

**1:46 WILLIAM F. HOUSE MEMORIAL LECTURE**  
**“Found in Translation: At the Intersection of Biomedical Engineering, Audiology and  
Neurotology”**  
*Suhrud M. Rajguru, PhD*  
Professor of Biomedical Engineering and Otolaryngology  
University of Miami  
Director, Miami CTSI Workforce Development  
Co-director, Institute for Neural Engineering at Miami  
Research Health Scientist, Bruce W. Carter Department of Veterans Affairs Medical Center  
Miami, FL

**2:16 INTRODUCTION OF ABSTRACTS - COCHLEAR IMPLANTS: HEARING PRESERVATION**  
*Meredith E. Adams, MD, Moderator*

**2:17 Add-on Flexible Sensor Arrays for Real-time Monitoring of Cochlear Implant Electrode Insertion**  
*Jay W. Reddy, PhD*  
*Mohsen Tabrizi, PhD*  
*Douglas A. Chen, MD*  
*Abraham Jacob, MD*  
*Maysam Chamanzar, PhD*

**2:24 NEUROTOLOGY FELLOW AWARD**

**Application of Spectral Domain Optical Coherence Tomography to Visualize Cochlear Microanatomy**

*Pawina Jiramongkolchai, MD*

*Marcello M. Amaral, PhD*

*Yilin Li*

*Timothy Holden, BSE*

*Chao Zhou, PhD*

*Craig A. Buchman, MD*

**2:31 The Local Relationship between Acute Insertion Trauma and Chronic Intracochlear Ossification and Fibrosis after Cochlear Implantation: A Human Temporal Bone Study**

*Alexander R. Geerardyn, MD*

*MengYu Zhu, MS*

*Joseph B. Nadol Jr., MD*

*Nicolas Verhaert, MD, PhD*

*Alicia M. Quesnel, MD*

**2:38 Incidence of Electrode Contacts in The Functional Acoustic Region for Cochlear Implant Recipients with Hearing Preservation**

*Evan P. Nix, MD, MBA*

*Nicholas J. Thompson, MD*

*Margaret T. Dillon, AuD, PhD*

*Matthew M. Dedmon, MD, PhD*

*Morgan Selleck, MD*

*Kevin D. Brown, MD, PhD*

**2:45 DISCUSSION**

**2:50 BREAK WITH EXHIBITORS**

**3:20 INTRODUCTION OF ABSTRACTS - COCHLEAR IMPLANTS: PERFORMANCE OUTCOMES**

*J. Thomas Roland Jr., MD, Moderator*

**3:21 Factors Affecting Performance in Adults with Cochlear Implants: A Role for Cognition and Residual Cochlear Function**

*Amit Walia, MD*

*Matthew A. Shew, MD*

*Amanda Ortmann, PhD*

*Jordan Varghese, MD*

*Shannon Lefler, AuD*

*Jacques A. Herzog, MD*

*Craig A. Buchman, MD*

**3:28 Early Datalogging Predicts Cochlear Implant Performance: Building a Recommendation for Daily Device Usage**

*Nathan R. Lindquist, MD*

*Mary S. Dietrich, PhD, MS*

*Ankita Patro, MD, MS*

*René H. Gifford, PhD*

*David S. Haynes, MD*

*Elizabeth L. Perkins, MD*

*Jourdan T. Holder, AuD, PhD*

**3:35 Responsible Imputation of Missing Speech Perception Testing Data**

*Cole Pavelchek, BS*

*David S. Lee, MD*

*Amit Walia, MD*

*Amanda Ortmann, PhD*

*Jacques A. Herzog, MD*

*Craig A. Buchman, MD*

*Matthew A. Shew, MD*

**3:42 Age of Cochlear Implantation within the Pediatric Population with Congenital Sensorineural Hearing Loss**

*Ashley M. Nassiri, MD, MBA*

*John P. Marinelli, MD*

*Christine M. Lohse, MS*

*Matthew L. Carlson, MD*

**3:49 DISCUSSION**

**3:54 INTRODUCTION OF THE ANS RESEARCH GRANT**

*Fred F. Telischi, MD*

**3:55 ANS RESEARCH GRANT PRESENTATION**

**“Molecular Mechanisms of Hypofractionation and Radiation Resistance in Vestibular Schwannoma.”**

*Aida Nourbakhsh, MD, PhD*

ANS 2022 Research Grant Recipient

University of Miami Miller School of Medicine

**4:05 INTRODUCTION OF PANEL**

*Fred F. Telischi, MD*

**4:06 PANEL**

**Treating Meniere’s Disease as a Migraine-Variant: New Paradigm or Temporary Fad?**

*J. Walter Kutz, MD (Moderator)*

*Hamid Djalilian, MD*

*Jeffrey Kuhn, MD*

*Jennifer Maw, MD*

*Jeffrey Sharon, MD*

*Kristen Steenerson, MD*

**5:06 ANNOUNCEMENT OF ANS & AOS POSTER WINNERS**

*Yuri Agrawal, MD - ANS Education Director*

*Nancy Young, MD - AOS Education Director*

**5:10 CLOSING REMARKS/ADJOURNMENT**

*Fred F. Telischi, MD*

**SATURDAY, MAY 6, 2023**

**7:00 BUSINESS MEETING (O&N/Committee Reports)**  
*(Members Only)*

- 7:30 SCIENTIFIC SESSION**  
*(Open to registered Members and Non-members – Badge required for admittance)*
- 7:30 WELCOME & OPENING REMARKS BY THE PRESIDENT**  
*Fred F. Telischi, MD*
- 7:32 INTRODUCTION OF ABSTRACTS - COCHLEAR IMPLANTS: INNOVATION AND SPECIAL CONSIDERATIONS**  
*Peter C. Weber, MD, MBA, Moderator*
- 7:33 Pre-Surgical MRI Radiomics Data Predicts Post-Implantation Electrocochleography Thresholds in Radiographically Normal Pediatric Cochleae**  
*Nicholas A. George-Jones, MD*  
*Christine Etler, AuD*  
*Tanya Van Vorst, AuD*  
*Camille C. Dunn, PhD*  
*Bruce J. Gantz, MD*  
*Marlan R. Hansen, MD*
- 7:40 ANS TRAINEE AWARD**  
**Machine Learning Approach for Screening Cochlear Implant Candidates: Comparing with the 60/60 Guideline**  
*Ankita Patro, MD, MS*  
*Elizabeth L. Perkins, MD*  
*Carlos Ortega, BS*  
*Nathan R. Lindquist, MD*  
*René H. Gifford, PhD*  
*David S. Haynes, MD*  
*Naweed Chowdhury, MD, MPH*
- 7:47 The Impact of Musical Rehabilitation on Complex Sound Perception in Cochlear Implant Users: A Systematic Review**  
*Hasan Abdalbaki, BA*  
*Jonathan Mo, BS, BM*  
*Charles J. Limb, MD*  
*Nicole T. Jiam, MD*
- 7:54 Vestibular Weakness in Cochlear Implant Candidates**  
*Allison Reeder, MD*  
*Rema Shah, BS*  
*John F. Kveton, MD*  
*Eugenia Vining, MD*  
*Hannah Dunn, AuD*  
*Nofrat Schwartz, MD*
- 8:01 Estimation of Cochlear Implant Insertion Depth Using 2D-3D Image Registration of Postoperative X-Ray and Preoperative CT Image**  
*George S. Liu, MD*  
*Shayna P. Cooperman, MD*  
*Caio A. Neves, MD*  
*Nikolas H. Blevins, MD*

- 8:08 Comparison of Cochlear Implant Outcomes in Vestibular Schwannoma between Sporadic and Neurofibromatosis Type 2 Populations**  
*James R. Dornhoffer, MD*  
*Travis Haller, MD*  
*Brian A. Neff, MD*  
*Colin L.W. Driscoll, MD*  
*Matthew L. Carlson, MD*
- 8:15 DISCUSSION**
- 8:20 INTRODUCTION OF ABSTRACTS - VESTIBULAR SCHWANNOMA**  
*Courtney C.J. Voelker, MD, PhD, Moderator*
- 8:21 Metformin Reduces Tumor Growth in a Murine Flank Schwannoma Model**  
*Sudhir Manickavel, MD*  
*Yolanda Hartman, BS*  
*Andrew Burns, BS*  
*Manuel A. Lora Gonzalez, MD*  
*Jason Warram, PhD*  
*Erika M. Walsh, MD*  
*Daniel E. Killeen, MD*
- 8:28 ANS TRAINEE AWARD**  
**Identifying Tumor Microenvironment Biomarkers in Adherent and Cystic Vestibular Schwannomas**  
*Lisa Zhang, MD*  
*Hsuan-Chih Kuo*  
*Jose Otero, MD, PhD*  
*Yin Ren, MD, PhD*
- 8:35 A Mouse Model of Neurofibromatosis Type 2 Demonstrates Glial Cell Proliferation and Neuronal Loss**  
*Judith S. Kempfle, MD*  
*Andrea Zhang, BS*  
*Richard Kuang, BS*  
*Sina Schwinn, BS*  
*Konstantina Stankovic, MD, PhD*  
*D. Bradley Welling, MD, PhD*  
*David H. Jung, MD, PhD*
- 8:42 Automated Radiomic Analysis of Vestibular Schwannomas and Inner Ears using Contrast-enhanced T1-weighted and T2-weighted MRI Sequences and Artificial Intelligence**  
*Caio A. Neves, MD*  
*George S. Liu, MD*  
*Trishia El Chemaly, MS*  
*Isaac A. Bernstein, BS*  
*Nikolas H. Blevins, MD*
- 8:49 Stratifying Risk of Future Growth Among Growing Sporadic Vestibular Schwannomas**  
*John P. Marinelli, MD*  
*Zane Schnurman, MD, MBA*  
*Daniel E. Killeen, MD*  
*Jacob B. Hunter, MD*

*Douglas Kondziolka, MD*  
*J. Thomas Roland Jr., MD*  
*Matthew L. Carlson, MD*

**8:56 Limitations of Linear Tumor Measurement in Vestibular Schwannoma**

*Michael H. Freeman, MD*  
*Nathan R. Lindquist, MD*  
*Robert J. Dambrino IV, MD*  
*Nathan D. Cass, MD*  
*Peter J. Morone, MD*  
*Kareem O. Tawfik, MD*

**9:03 DISCUSSION**

**9:08 INTRODUCTION OF WILLIAM E. HITSELBERGER LECTURE**

*Fred F. Telischi, MD*

**9:10 WILLIAM E. HITSELBERGER MEMORIAL LECTURE**

**“Chemotherapy for Vestibular Schwannoma: Finding the Right Niche”**

*Scott R. Plotkin, MD, PhD*  
Executive Director, Stephen E. & Catherine Pappas Center for Neuro-Oncology  
Massachusetts General Hospital  
Armenise Family-Harvard Professor of Neurology, Harvard Medical School  
Boston, MA

**9:40 BREAK WITH EXHIBITORS**

**10:10 INTRODUCTION OF ABSTRACTS - VESTIBULAR AND OTHER TOPICS**

*Ronna Hertzano, MD, PhD, Moderator*

**10:11 Contribution of Endoplasmic Reticulum Stress to Noise-induced Hearing Loss in the Mouse Cochlea**

*Tracy Cheng, MD, MHSc*  
*Julia D. Lewis, BS*  
*Alicia M. Frank, MPPM*  
*Abigail Sanders BS*  
*Christopher L. Cunningham, PhD*

**10:18 Use of Observational Camera in Rotary Chair Test for Young Children: Clinical Experience and Outcomes**

*Guangwei Zhou, ScD*  
*Stephanie Walsh, BA*  
*Jacob Brodsky, MD*

**10:25 Nortriptyline vs. Migraine Lifestyle Modifications on Vestibular Migraine**

*Karen Tawk, MD*  
*Joshua K. Kim, BS*  
*Abdula Al-Seraji, BS*  
*Khodayar Goshtasbi, MD*  
*Mehdi Abouzari, MD, PhD*  
*Hamid R. Djalilian, MD*

**10:32 The Natural History of Observed Sdhx-Related Head and Neck Paragangliomas Using 3D Volumetric Tumor Analysis**

*Evan L. Tooker, MS*

*Richard H. Wiggins, III, MD*  
*Mana Espahbodi, MD*  
*Anne Naumer, MS*  
*Luke O. Buchmann, MD*  
*Samantha E. Greenberg, MS*  
*Neil S. Patel, MD*

**10:39 The Role of Lumbar Drains in the Perioperative Management of Primary Spontaneous Temporal Lobe Encephaloceles and Cerebrospinal Fluid Leaks**

*Zachary G. Schwam, MD*  
*Maria Mavrommatis, MD*  
*Sunder Gidumal, MD*  
*Enrique R. Perez, MD, MBA*  
*Maura K. Cosetti, MD*  
*George B. Wanna, MD*

**10:46 NICHOLAS TOROK VESTIBULAR AWARD**

**Mindfulness-Based Stress Reduction for the Treatment of Vestibular Migraine: A Prospective Trial**

*Eric J. Formeister, MD, MS*  
*James Mitchell, PhD*  
*Roseanne Krauter, FN-P*  
*Ricky Chae, BS*  
*Adam Gardi, BS*  
*Maxwell Hum, BS*  
*Jeffrey D. Sharon, MD*

**10:53 DISCUSSION**

**10:58 INTRODUCTION OF PANEL**

*Fred F. Telischi, MD*

**10:59 PANEL**

**Treatment of the Facial Nerve: from Inside Out**

*Daniel Zeitler, MD (Co-Moderator)*  
*Emily Stucken, MD (Co-Moderator)*  
*Jacques Morcos, MD*  
*Seilesh Babu, MD*  
*Myriam Loyo Li, MD, MCR*

**12:00 CLOSING REMARKS**

*Fred F. Telischi, MD*

**INTRODUCTION OF INCOMING PRESIDENT**

*Elizabeth H. Toh, MD, MBA*

**12:05 ADJOURNMENT**