

**AMERICAN OTOLOGICAL SOCIETY**  
**155<sup>th</sup> Annual Meeting**  
**PRELIMINARY PROGRAM**  
*April 29-30, 2022*  
*Dallas, TX*

**FRIDAY, APRIL 29, 2022**

- 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**  
*Marlan R. Hansen, MD*
- 1:35 PRESIDENTIAL CITATIONS**  
*Bruce J. Gantz, MD*  
*Ronna Hertzano, MD, PhD*  
*Matthew A. Howard, III, MD*  
*Jay T. Rubinstein, MD, PhD*  
*D. Bradley Welling, MD, PhD*
- 1:45 INTRODUCTION OF GUEST OF HONOR**  
*Marlan R. Hansen, MD*
- 1:48 GUEST OF HONOR LECTURE**  
**“How Does Hearing Loss Cause Dementia?”**  
*Timothy D. Griffiths, FMedSci*  
Professor of Cognitive Neurology  
Newcastle University Medical School  
United Kingdom
- 2:18 INTRODUCTION OF ABSTRACTS**  
*Moderator*
- 2:20 Microneedles Facilitate Intracochlear Delivery Without Anatomic or Physiologic Injury**  
*Stephen Leong, BA*  
*Aykut Aksit, MS*  
*Elizabeth S. Olson, PhD*  
*Jeffrey W. Kysar, PhD*  
*Anil K. Lalwani, MD*
- 2:27 Risks of Noise-Induced Hearing Loss during Cochlear Implant Insertion Errors**  
*Carolyn A. Chabuz, MD*  
*Joseph Gonzalez, MD*  
*Kenny Rodriguez, MD*  
*John Peacock, PhD*  
*Renee M. Banakis Hartl, MD*  
*Stephen P. Cass, MD*  
*Nathaniel T. Greene, PhD*

- 2:34 Predictive Value of Trans-Impedance Matrix Measurements to Detect Electrode Tip Foldovers**  
*Emily Kay-Rivest MD, MSc*  
*Sean O. McMenemy, MD*  
*Daniel Jethanamest, MD, MSc*  
*William H. Shapiro, AuD*  
*David R. Friedmann MD, MSc*  
*Susan B. Waltzman PhD*  
*J. Thomas Roland Jr. MD*
- 2:41 Dynamic Behavior and Insertional Forces of a Pre-Curved Electrode Using the Pull-Back Technique in a Fresh Micro-Dissected Cochlea**  
*Miriam R. Smetak, MD, MS*  
*Katherine E. Riojas, PhD*  
*Jack H. Noble, PhD*  
*Robert F. Labadie, MD, PhD*
- 2:48 AOS RESIDENT RESEARCH TRAVEL AWARD**  
**Comparative Analysis of Robotics-Assisted and Manual Insertions of Cochlear Implant Electrode Arrays**  
*Alexander D. Claussen, MD*  
*Seiji B. Shibata, MD, PhD*  
*Christopher R. Kaufmann, MD*  
*Allan Henslee, PhD*  
*Marlan R. Hansen, MD*
- 2:55 DISCUSSION**
- 3:00 BREAK WITH EXHIBITORS**
- 3:30 INTRODUCTION OF ABSTRACTS**  
*Moderator*
- 3:32 Prevalence of Subclinical Hearing Loss in the United States**  
*Jacqueline M. Dragon, BA*  
*Alexandria L. Irace, BA*  
*Maehar R. Grewal, BS*  
*Justin S. Golub, MD, MS*
- 3:39 Diabetes Mellitus and Sensorineural Hearing Loss: A TriNetX Network Study**  
*Saima Wase, BS*  
*Divya Balachander, BS*  
*Claudia Cabrera, MD, MS*  
*Sarah Mowry, MD*
- 3:46 Video Analysis of Otologic Instrument Movement During Resident Mastoidectomies**  
*Royal M. Pipaliya, BS*  
*Mallory J. Raymond, MD*  
*M. Andrew Rowley Jr., BS*  
*Polly Jasper, BS*  
*Ted A. Meyer, MD PhD*
- 3:53 Immediate Improvement in Subjective Visual Vertical (SVV) and Disequilibrium Predicts Resolution of Benign Paroxysmal Positional Vertigo following Single Canalith Repositioning Maneuver**  
*Christine C. Little, BA*

Zachary G. Schwam, MD  
Marc Campo PT, PhD  
James Gurley, PT, DPT  
Bryan Hujsak PT, DPT, MBA  
Maura K. Cosetti, MD  
Jennifer Kelly, PT, DPT

**4:00 DISCUSSION**

**4:05 PANEL**

**Cochlear Implants and Vestibular Schwannoma: Who to Implant and When?**

*Mia E. Miller, MD - Moderator*  
*J. Thomas Roland Jr., MD*  
*Jay T. Rubinstein, MD*  
*Cameron C. Wick, MD*  
*Erika A. Woodson, MD*

**5:05 ANNOUNCEMENT OF AOS/ANS POSTER AWARDS**

*Nancy M. Young, MD - AOS Education Director*  
*Howard W. Francis, MD, MBA - ANS Education Director*

**5:10 CLOSING REMARKS/ADJOURNMENT**

**SATURDAY, APRIL 30, 2022**

**7:00 BUSINESS MEETING** (*Treasurer & 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**

*Marlan R. Hansen, MD*

**7:33 INTRODUCTION OF ABSTRACTS**

*Moderator*

**7:35 Cochlear Implants: When Hardware Fails. Using Impedance as an Initial Indicator of Decline**

*Walleed H. Almutairi, MD*  
*Justyn F.D. Pisa, AuD*  
*Jordan B. Hochman, MD*

**7:42 Electrode Positioning after Cochlear Reimplantation with Same Device**

*Miriam R. Smetak, MD, MS*  
*Shanik J. Fernando, MD*  
*Robert T. Dwyer, AuD*  
*Benoit M. Dawant, PhD*  
*Jack H. Noble, PhD*  
*Robert F. Labadie, MD, PhD*

**7:49 Differential Speech Perception in Quiet and Noise for Adults and Children Before and After Cochlear implantation for Unilateral Sensory Hearing Loss**

*Kevin D. Brown, MD, PhD*  
*Lisa R. Park, AUD*

*Anne M. Selleck, MD*  
*Matthew M. Dedmon, MD, PhD*  
*Harold C. Pillsbury, MD*  
*Margaret T. Dillon, AUD*

**7:56 Speech Recognition Performance Differences Between Precurved and Straight Electrode Arrays**

*Rahul K. Sharma, MD*  
*Miriam R. Smetak, MD*  
*Ankita Patro, MD*  
*Nathan R. Lindquist, MD*  
*Elizabeth L. Perkins, MD*  
*Jourdan T. Holder, AuD, PhD*  
*Kareem Tawfik, MD*

**8:03 Are Cochlear Implant Recipient Speech Performance Scores Consistent Across Different Tests?**

*Nicholas S. Andresen, MD*  
*Varun Vohra, BA*  
*Stephen P. Bowditch, AuD*  
*Nae-Yuh Wang, PhD MS*  
*Charles C. Della Santina, MD PhD*  
*Daniel Q. Sun, MD*

**8:10 Initial Experience with Two Active Transcutaneous Bone Anchored Implants**

*Zachary G. Schwam, MD*  
*Samuel Oh, BA*  
*Kevin Wong, MD*  
*Caleb Fan, MD*  
*Enrique Perez MD, MBA*  
*Maura K. Cosetti, MD*  
*George B. Wanna, MD*

**8:17 DISCUSSION**

**8:22 INTRODUCTION OF SAUMIL N. MERCHANT MEMORIAL LECTURE**

*Marlan R. Hansen, MD*

**8:25 SAUMIL N. MERCHANT MEMORIAL LECTURE**

**“Precision Medicine for Hearing Loss”**

*Richard JH Smith, MD*

Sterba Hearing Research Professor and Vice Chair - Department of Otolaryngology

Director – The Molecular Otolaryngology and Renal Research Laboratories

Director – Iowa Institute of Human Genetics

Professor of Otolaryngology, Molecular Physiology & Biophysics, Pediatrics and Internal Medicine  
(Division of Nephrology)

**9:05 INTRODUCTION OF ABSTRACTS**

*Moderator*

**9:07 AOS RESIDENT RESEARCH TRAVEL AWARD**

**Dynamic Molecular Markers of Otosclerosis in the Human Cochlea**

*Sarah Hodge, MD*  
*Ivan A Lopez, PhD*  
*Hirooki Matsui, MD*  
*Gail Ishiyama MD*

*Alex Cronkite MD*  
*Akira Ishiyama, MD*

**9:14 Impact of Modern Surgical Techniques on Rates of Sensorineural Hearing Loss and Revision Surgery after Stapedotomy**

*Nabil F. Darwich, MD, PhD*  
*Alexandra E. Quimby, MD, MPH*  
*Tiffany P. Hwa, MD*  
*Stephen J. Eliades, MD, PhD*  
*Jason A. Brant, MD*  
*Douglas C. Bigelow, MD*  
*Michael J. Ruckenstein, MD, MSc*

**9:21 National and International Rates of Stapedectomy Performed at Academic and Non-Academic Centers across the Department of Defense**

*Jason K. Adams, MD*  
*John P. Marinelli, MD*  
*Ronit E. Malka, MD*  
*Carlos R. Esquivel, MD*  
*Travis R. Newberry, MD*  
*Samuel A. Spear, MD*  
*Isaac D. Erbele, MD*

**9:28 Cochlear and Vestibular Dysfunction in the COVID-19 Era: A Population Based Study**

*Claudia I. Cabrera, MD, MS*  
*Benjamin Johnson, MD*  
*Maroun Semaan, MD*  
*Alejandro Rivas, MD*  
*Sarah Mowry, MD*  
*Nauman Manzoor, MD*

**9:35 Standardization of Outcome Measures for Intratympanic Steroid Treatment for Idiopathic Sudden Sensorineural Hearing Loss**

*Neil K. Osafo, BS*  
*David R. Friedland, MD, PhD*  
*Michael S. Harris, MD*  
*Jazzmyne Adams, MPH*  
*Chasity Davis*  
*Ling Tong, MA*  
*Jake Luo, PhD*

**9:42 DISCUSSION**

**9:47 BREAK WITH EXHIBITORS**

**10:15 INTRODUCTION OF ABSTRACTS**

*Moderator*

**10:17 Changes and Trends in the Cochlear Implant Literature over a 40-year period: A Comprehensive Historical Literature Review**

*Jacob Kahane, MD*  
*Anne Maxwell, MD*  
*Moises Arriaga MD, MBA*

**10:24 Association of Baseline Frailty Status and Age with Postoperative Complications following Cochlear Implantation: A National Inpatient Sample Study**

*Kyril L. Cole, MPH*

*Alis J. Dicipinigaitis, BA*

*Eric Babajanian, MD*

*Steven A. Gordon MD MPH*

*Neil S. Patel, MD*

*Christian A. Bowers, MD*

*Richard K. Gurgel, MD, MSCI*

**10:31 Influence of Fractalkine Receptor CX3CR1 Deletion on Cochlear Hair Cell Survival and Macrophage Expression in Chronic Suppurative Otitis Media**

*Viktoria Schiel, MD, PhD*

*Anping Xia, MD, PhD*

*Jing Chen, MPH, DABT*

*Brian Bacacao, BS*

*Laurent A. Bekale, MD, PhD*

*Peter L. Santa Maria, MD, PhD*

**10:38 Evaluation of Safety and Efficacy of Povidone-Iodine Solution as an Otological Treatment in a Murine Model of Chronic Suppurative Otitis Media**

*Zaroug Jaleel, BS*

*Adam C. Kaufman, MD, PhD*

*Brian Bacacao, BS*

*Laurent Bekale, PhD*

*Peter L. Santa Maria, MD, PhD*

**10:45 Improvement of Eosinophilic Otitis Media with Targeted Biologic Therapy**

*C. Yoonhee Ryder, BS*

*Mark A. Zacharek, MD*

*Christopher M. Welch, MD, PhD*

**10:52 DISCUSSION**

**10:57 PANEL**

**“New Developments in Inner Ear Inflammation”**

*Soha N. Ghossaini, MD, Moderator*

*Keiko Hirose, MD*

*Michael Hoa, MD*

*Alicia M. Quesnel, MD*

*Andrea Vambutas, MD*

**11:57 INTRODUCTION OF INCOMING PRESIDENT**

*Lawrence R. Lustig, MD*

**12:00 CLOSING REMARKS/ADJOURNMENT**