

**AMERICAN OTOLOGICAL SOCIETY**  
**PRELIMINARY PROGRAM**  
*157<sup>th</sup> Annual Meeting*  
*May 17-18, 2024*  
*Chicago, IL*

**FRIDAY, MAY 17, 2024**

- 1:00 BUSINESS MEETING and NEW MEMBER INTRODUCTION**  
*(Open to registered Members and Non-members - Badge required for admittance)*
- 1:25 SCIENTIFIC PROGRAM**
- 1:25 WELCOME & OPENING REMARKS BY THE PRESIDENT**  
*Sujana S. Chandrasekhar, MD*
- 1:27 PRESIDENTIAL CITATIONS**  
*Karen Jo Enright, MD, PhD*  
*Derald E. Brackmann, MD*  
*Lisa Bell, AuD, CCC-A*  
*Debara L. Tucci, MD, MS, MBA*  
*Aziz Belal, MD*
- 1:37 INTRODUCTION OF GUEST OF HONOR**  
*Sujana S. Chandrasekhar, MD*
- 1:39 GUEST OF HONOR LECTURE**  
**Choices, Challenges and Opportunities in Auditory Implantation Surgery**  
*Emma Stapleton, MBChB, FRCS (ORL-HNS), MFSTEd*  
Consultant Otolaryngologist and Auditory Implant Surgeon  
Manchester Royal Infirmary, UK
- 2:14 Q&A**
- 2:19 SESSION A - Basic and Applied Otologic Science**  
*David R. Friedland, MD, PhD, Moderator - AOS Secretary/Treasurer*
- 2:20 PODIUM PRESENTATIONS - Of Mice and Men**  
*Joni K. Doherty, MD, PhD & Kenneth H. Lee, MD, PhD, Moderators*
- 2:21 Deep Phenotyping of a Mouse Model for Hearing Instability Disorders**  
*J. Dixon Johns, MD*  
*Samuel Adadey, PhD*  
*Rafal Olszewski, PhD*  
*Michael Hoa, MD*

**2:27 Inositol trisphosphate (IP3) and Ryanodine receptor (RyR) Signaling Are Essential and Have Distinct Roles in Regulating Neurite Pathfinding in Response to Micropatterned Growth Cues**

*Joseph T. Vecchi*

*Madeline Rhomberg*

*C. Allan Guymon, PhD*

*Marlan R. Hansen, MD*

**2:33 Western Blot Characterization of Human Serum Prestin, an Outer Hair Cell Biomarker**

*Heather M. McClure, MS*

*Mohsin Mirza, BS*

*Patrick Adamczyk, BS*

*Ashley Parker, PhD*

*Erika Skoe, PhD*

*Kourosh Parham, MD, PhD*

**2:39 Otoprotection and Effects on Cochlear Synaptopathy by Angiotensin Receptor Blockade in a Murine Model of Noise Induced Hearing Loss**

*Peter Eckard*

*Tanner Kempton*

*Carolina Chu*

*Rhong Zhuo Hua*

*Bryce Hunger*

*Miles J. Klimara, MD*

*Marlan R. Hansen, MD*

*Douglas M. Bennion, MD, PhD*

**2:45 Q&A**

**2:49 EXPERT PRESENTATION**

*Introduction by Moderator, Michael J. Ruckenstein, MD, MSc*

**Fluorescence Imaging of Cochlear and Vestibular Nerves during Surgery**

*Quyen Nguyen, MD, PhD*

**3:00 DISCUSSION with MODERATOR and Q&A**

**3:05 BREAK WITH EXHIBITORS**

**3:30 SESSION B - Otologic Public Health and Chronic Ear Disease**

*Nikolas H. Blevins, MD, Moderator - AOS Council Member-At-Large*

**3:31 ANNOUNCEMENT OF AOS and ANS POSTER PRESENTATION WINNERS**

*Yuri Agrawal, MD - ANS Education Director*

*Nancy Young, MD - AOS Education Director*

**3:33 PODIUM PRESENTATIONS - Systemic & Systematic Factors and The Ear**

*Sharon L. Cushing, MD, MSc & James E. Saunders, MD, Moderators*

**3:34 Effects of Smoking on Acute Postoperative Outcomes in Otologic Surgery**

*Pablo Llerena, BS*  
*Bryce Hambach, BS*  
*Kathryn Nunes, BA*  
*Joseph Lu, BS*  
*Praneet Kaki, BS*  
*Jena Patel, MD*  
*Jacob B. Hunter, MD*

**3:40 Statins and Their Effect on Hearing: An All of Us Database Study**

*Benjamin J. Homer, ScB*  
*Rishubh Jain, AB*  
*Alexander S. Homer, AB*  
*Viknesh S. Kasthuri, AB*  
*Emily Gall, MD*  
*Kathryn Y. Noonan, MD*

**3:46 Blast Exposure, Tinnitus, Hearing Loss, and Post-Deployment Quality of Life in U.S. Veterans: Longitudinal Analysis**

*Hoda AO. Mohammed, MPH*  
*Charlotte K. Hughes, MD (presenter)*  
*Kelly M. Reavis, PhD, MPH*  
*Samrita Thapa, MPH*  
*Emily Thielman, MS*  
*Wendy Helt, MA*  
*Kathleen F. Carlson, PhD, MPH*

**3:52 Analysis of Adherence to AAO-HNSF Clinical Practice Guidelines for Sudden Hearing Loss**

*Bao Y. Sciscent, BS*  
*F. Jeffrey Lorenz, MD*  
*Hanel W. Eberly, BS*  
*Andrew Rothka, BS*  
*Mark E. Whitaker, MD*  
*Neerav Goyal, MD, MPH*

**3:58 Contemporary, Individual and Community-Level Social Determinant Associations with Acoustic Neuroma Disparities in the US**

*David J. Fei-Zhang, BA*  
*Rishabh Sethia, MD*  
*Cyrus W. Abrahamson, BA*  
*Daniel C. Chelius, MD*  
*Jill N. D'Souza, MD*  
*Anthony M. Sheyn, MD*  
*Jeffrey C. Rastatter, MD, MS*

**4:04 Q&A**

**4:09 EXPERT PRESENTATION**

*Introduction by Moderator, John Greinwald, MD*

**Congenital Cytomegalovirus: Science and Social Policy**

*Stephanie A. Moody-Antonio, MD*

**4:20 DISCUSSION with MODERATOR and Q&A**

**4:25 PANEL**

**Chronic Ear Disease: How do we Improve Outcomes?**

*Dennis S. Poe, MD, PhD, Moderator - AOS Council Member-At-Large*

*Maura E. Ryan, MD*

*Aaron K. Remenschneider, MD, MPH*

*Michael Hoa, MD*

**5:10 CLOSING REMARKS/ADJOURNMENT**

*Sujana S. Chandrasekhar, MD*

**5:20 AOS MEMBER PHOTOGRAPH**

**5:30 MEET THE AUTHORS POSTER RECEPTION**

*AOS, ANS, ABEA, ALA, TRIO, ASPO*

**6:00 WIN (WOMEN IN NEUROTOLOGY) RECEPTION**

**SATURDAY, MAY 18, 2024**

**7:00 BUSINESS MEETING** *including Committee Reports and launch of AOS Development Plan  
(All welcome – Coffee, tea and continental breakfast for all registered AOS attendees)*

**7:30 SCIENTIFIC PROGRAM**

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

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

*Sujana S. Chandrasekhar, MD*

**7:31 SESSION C - Cochlear Implants and Inner Ear Biology**

*Nancy M. Young, MD, Moderator - AOS Education Director*

**7:32 PODIUM PRESENTATIONS - COCHLEAR IMPLANTS**

*Christina L. Runge, PhD & Abraham Jacob, MD, Moderators*

**ADULT COCHLEAR IMPLANTS**

**7:33 Early Use of Computer-based Auditory Training Yields Greater Speech Recognition and Quality-of-life Benefits in New Adult Cochlear Implant Recipients**

*James R. Dornhoffer, MD*

*Christian Shannon, BS*

*Kara C. Schvartz-Leyzac, AuD, PhD*

*Judy R. Dubno, PhD*

*Theodore R. McRackan, MD, MSCR*

**7:39 Preoperative Factors Predicting Electroacoustic Stimulation Usage in Adults following Cochlear Implantation**

*Ankita Patro, MD, MS*

*Connie Ma, MD*

*Natalie Schauwecker, MD*

*Nathan R. Lindquist, MD*

*Michael H. Freeman, MD*

*David S. Haynes, MD, MMHC*

*Elizabeth L. Perkins, MD*

**7:45 Impact of Implantable Hearing Devices on Delirium Risk in Patients with Hearing Loss: A National Database Study**

*Bryce Hambach, BS*

*Elliott M. Sina, BA*

*Kathryn Nunez, BS*

*Jena Patel, MD*

*Jacob B. Hunter, MD*

**7:51 Q&A**

**PEDIATRIC COCHLEAR IMPLANTS**

**7:54 Early Auditory Development of Cochlear Implanted Children with Sensorineural Hearing Loss following Congenital CMV Infection**

*Piotr H. Skarzynski, Prof*

*Anita Obrycka, PhD*

*Aleksandra Kolodziejak, MSc*

*Elzbieta Gos, PhD*

*Rita Zdanowicz, MSc*

*Artur Lorens, Prof*

*Henryk Skarzynski, Prof*

**8:00 Cochlear Implantation (CI) Outcomes in Children Under 5 Years of Age with Single-Sided Deafness (SSD): A Systematic Review and Meta-analysis**

*Corinne Pittman, MD*

*Nadia Samaha, BS*

*Myra Zaheer, BA*

*Luke Llauro, BA*

*Xue Geng, MS*

*Michael Hoa, MD*

**8:06 A Systematic Review and Meta-Analysis Examining Outcomes of Cochlear Implantation in Children with Bilateral Cochlear Nerve Deficiency**

*Jay Maturi, BS*

*Kimberley S. Noij, MD, PhD*

*Vidya Babu, BS*  
*Carolyn M. Jenks, MD*

**8:12 Q&A**

**8:15 EXPERT PRESENTATION**

*Introduction by Moderator, Hung Jeffrey Kim, MD*  
**Getting Closer to Serene Silence: Tinnitus Update 2024**  
*Konstantina M. Stankovic, MD, PhD*

**8:30 DISCUSSION with MODERATOR and Q&A**

**8:35 INTRODUCTION OF SAUMIL N. MERCHANT MEMORIAL LECTURE**

*Sujana S. Chandrasekhar, MD*

**8:36 SAUMIL N. MERCHANT MEMORIAL LECTURE**

**An Omics Path to Otoprotection**

*Ronna Hertzano, MD, PhD*  
Senior Investigator and Neurotology Branch Chief  
National Institute on Deafness and Other Communication Disorders  
National Institute of Health, Bethesda, MD  
Adjunct Clinical Professor, Department of Otolaryngology Head and Neck Surgery  
University of Maryland School of Medicine, Baltimore, MD

**9:06 Q&A**

**9:11 SESSION D - MIDDLE EAR PATHOLOGY**

*Lawrence R. Lustig, MD, Moderator - AOS Immediate Past President*

**9:12 PODIUM PRESENTATIONS - CHRONIC OTITIS MEDIA**

*Darius Kohan, MD & Huseyn Isildak, MD, Moderators*

**9:13 Tympanic Membrane Regeneration Therapy for Pediatric Tympanic Membrane Perforation**

*Shin-ichiro Kita, MD*  
*Shin-ichi Kanemaru, MD, PhD*  
*Rie Kanai, MD*  
*Tomoya Yamaguchi, MD*  
*Akiko Kumazawa, MD*  
*Ryohei Yuki, MD*  
*Toshiki Maetani, MD, PhD*

**9:19 Unique Cell-Type Specific Signaling Patterns Define Cholesteatoma**

*Christopher M. Welch, MD, PhD*  
*Shuze Wang, PhD*  
*Joerg Waldhaus, PhD*

**9:25 The NLRP3 Inflammasome in Macrophages Causes Sensory Hearing Loss in Chronic Suppurative Otitis Media (CSOM)**

*Viktoria Schiel, MD, PhD*

*Anping Xia, MD, PhD*

*Ritwija Bhattacharya, PhD*

*Ankur Gupta, MD*

*Kourosh Efthekarian, MD*

*Peter Santa Maria, MD, PhD*

**9:31 RESIDENT RESEARCH TRAVEL AWARD**

**Outcomes after Exoscopic versus Microscopic Ossicular Chain Reconstruction**

*Caleb Fan, MD*

*Jacob C. Lucas, MD*

*Robert M. Conway, DO*

*Masanari G. Kato, MD*

*Seilesh C. Babu, MD*

**9:37 Q&A**

**9:41 BREAK WITH EXHIBITORS**

**10:06 SESSION E - Sudden Hearing Loss and Vestibular Disease**

*Michael E. Seidman, MD, Moderator*

**10:07 INVITED PRESENTATION**

**Hearing Science Accelerator – SSNHL**

*William H. Slattery III MD - AOS Council President-Elect*

*Andrea Vambutas, MD - AOS Research Advisory Board, Executive Secretary*

*Seth Schwartz, MD*

*Nicholas S. Andresen, MD*

**10:22 Q&A**

**10:25 EXPERT PRESENTATION: Dizziness, We Mean Business**

*Introduction by Moderator, Michael E. Seidman, MD*

**Seeing the Whole Patient – A Practical Approach to Detecting Functional and Psychiatric Disorders in Patients with Dizziness**

*Jeffrey P. Staab, MD*

**PPPD: Persistent Postural-Perceptual Dizziness – It's Not All in Their Head**

*Maja Svrakic, MD, MSc*

**10:52 DISCUSSION with MODERATOR and Q&A**

**10:56 SESSION F - ARTIFICIAL INTELLIGENCE, MIGRAINE AND EXTERNAL EAR DISEASE**

*Marlan R. Hansen, MD, Moderator - AOS Past President*

**10:57    PODIUM PRESENTATIONS - ARTIFICIAL INTELLIGENCE AND THE BRAIN  
THE TAMING OF THE SHREW?**

*Jack Shohet, MD, Moderator*

**10:58    Temporal Integration of Multisensory Stimuli in Migraine**

*Timothy E. Hullar, MD*

*Jwala Rejimon, BS*

*Michelle E. Hungerford, AuD*

*Robert J. Peterka, PhD*

*Angela C. Garinis, PhD*

*Yonghee Oh, PhD*

*Richard F. Lewis, MD*

**11:04    Artificial Intelligence for Diagnostic and Treatment Planning: Is It Ready to Be Your Doctor?**

*Camryn Marshall, BS*

*Jessica Forbes, MS*

*Luis Roldan, MD*

*Jim Atkins, MD*

*Michael D. Seidman, MD*

**11:10    RESIDENT RESEARCH TRAVEL AWARD**

**Artificial Intelligence Tracking of Otologic Instruments in Mastoidectomy Videos**

*George S. Liu, MD*

*Sharad Parulekar*

*Trishia El Chemaly, MS*

*Melissa C. Lee, BS*

*Mohamed Diop, MD*

*Roy Park, MD*

*Nikolas H. Blevins, MD*

**11:16    Q&A**

**11:20    PANEL**

**EarWise: Spotlight on External Ear Disease**

*Erika A. Woodson, MD, Moderator*

*Matthew B. Hanson, MD*

*Emma Stapleton, MBChB, FRCS (ORL-HNS)*

*Alan G. Micco, MD*

**12:00    INTRODUCTION OF INCOMING PRESIDENT**

*William H. Slattery, III, MD*

**12:03    CLOSING REMARKS/ADJOURNMENT**

*Sujana S. Chandrasekhar, MD*