

**AMERICAN OTOLOGICAL SOCIETY**

**156<sup>th</sup> Annual Meeting**

**PRELIMINARY PROGRAM**

**May 6-7, 2023**

**Boston, MA**

*AOS Posters will be displayed on Friday & Saturday, May 5-6, 2023*

**SATURDAY, MAY 6, 2023**

**1:00 BUSINESS MEETING** (*New member introduction*)  
(*Open to members and nonmembers*)

**1:25 SCIENTIFIC PROGRAM**  
(*Open to registered Members and Non-members – Badge required for admittance*)

**1:25 WELCOME & OPENING REMARKS BY THE PRESIDENT**  
*Lawrence R. Lustig, MD*

**1:27 PRESIDENTIAL CITATIONS**  
*Robert K. Jackler, MD*  
*Samuel H. Selesnick, MD*  
*Hinrich Staecker, MD, PhD*  
*Ana H. Kim, MD*  
*Paul A. Fuchs, PhD*

**1:37 INTRODUCTION OF GUEST OF HONOR**  
*Lawrence R. Lustig, MD*

**1:39 GUEST OF HONOR LECTURE**  
**“Precision Medicine & Gene Therapy for Deafness”**  
*Prof. Karen B. Avraham*  
Dean, Faculty of Medicine  
Tel Aviv University  
Tel Aviv, Israel

**2:24 INTRODUCTION OF ABSTRACTS - BASIC AND TRANSLATIONAL SCIENCE**  
*Ronna Hertzano, MD, PhD, Moderator*

**2:25 Microneedle Mediated Delivery of siRNA-Lipofectamine is Safe for Inner Ear Gene Therapy**  
*Sharon J. Feng, BA, BS*  
*Aykut Aksit, PhD*  
*Daniella Hébert, BE*  
*Stephen Leong, BA*  
*Elizabeth S. Olson, PhD*  
*Jeffrey W. Kysar, PhD*  
*Anil K. Lalwani, MD*

**2:32 Microbiome of the Ear: A Descriptive Comparison of the External and Middle Ear in the Healthy and Diseased States**  
*Samantha Frank, MD*  
*Ruwaa Samarraai, MD*  
*Nehal Navali, BS*  
*Dong-binh Tran PhD*  
*George M. Weinstock, PhD*

**2:39 Topical Stimulation Induces Progenitor Cell Proliferation in the Tympanic Membrane**

*Sonia M. Scaria, PhD*

*Stacey M. Frumm, MD, PhD*

*Sarah A. Easow*

*Aaron D. Tward, MD, PhD*

**2:46 Cost-effectiveness of DW-MRI versus Second Look Surgery in Treating Cholesteatoma: A Modeling Study**

*Daniel D. Bu, MPP, MBA*

*Zachary G. Schwam, MD*

*Enrique Perez, MD*

*Maura K. Cosetti, MD*

**2:53 Conductive Hearing Loss Associates with Dementia, Neuropsychiatric, and Incident Adverse Life Events and Middle Ear Reconstruction Improves Outcomes – A Multi-National Database Study**

*Zachary D. Urdang, MD PhD*

*Amiti Jain, BS*

*Marwin Li, BS*

*Thomas L. Haupt, BS*

*Thomas O. Wilcox, MD*

*Rebecca C. Chiffer, MD*

*Richard K. Gurgel, MD*

**3:00 DISCUSSION**

**3:05 BREAK WITH EXHIBITORS**

**3:30 INTRODUCTION OF ABSTRACTS - HEARING LOSS**

*Nancy M. Young, MD. Moderator*

**3:31 Influence of Cognitive Performance, Sociodemographic Factors, and Pure-Tone Audiometry on Speech Discrimination: A Prospective Population-Based Study of 1,061 Older Adults**

*John P. Marinelli, MD*

*Nicholas S. Reed, AuD*

*Christine M. Lohse, MS*

*Wanda L. Fussell, MD*

*Ronald C. Petersen, MD, PhD*

*Maria Vassilaki, MD, PhD*

*Matthew L. Carlson, MD*

**3:38 Military and Non-Military TBI Associations with Hearing Loss and Self-Reported Hearing Difficulty among Active-Duty Service Members and Veterans**

*Charlotte K. Hughes, MD, MPH*

*Samrita Thapa, MPH*

*Sarah M. Theodoroff, PhD*

*Kathleen F. Carlson, PhD, MPH*

*James D. Schultz, AuD*

*Leslie D. Grush, AuD*

*Kelly M. Reavis, PhD, MPH*

- 3:45 Hearing Loss and Frailty Among Older Adults: The Atherosclerosis Risk in Communities Study (ARIC)**  
*Sahar Assi, MD*  
*Emmanuel Garcia-Morales, PhD*  
*B. Gwen Windham, MD*  
*Frank Lin, MD, PhD*  
*Karen Bandeen-Roche, PhD*  
*Priya Palta, PhD*  
*Jennifer A. Deal, PhD*  
*Nicholas S. Reed, AuD*  
*Pablo Martinez-Amezcuca, MD, PhD*
- 3:52 RESIDENT RESEARCH TRAVEL AWARD**  
**Metformin Protects Male but not Female Mice Against Noise-Induced Hearing Loss**  
*Catherine L. Kennedy, MD*  
*Benjamin Shuster*  
*Reza Amanipour, PhD*  
*Beatrice Milon, PhD*  
*Priya Patel, MD*  
*Ran Elkon, PhD*  
*Ronna Hertzano, MD, PhD*
- 3:59 DISCUSSION**
- 4:04 INTRODUCTION OF PANEL**  
*Lawrence R. Lustig, MD*
- 4:05 PANEL**  
**“The Future is Now: Innovative AI in Otology”**  
*David R. Friedland, MD, PhD , Moderator*  
*Debara L. Tucci, MD, MS, MBA*  
*Francis “Pete” X. Creighton, MD*  
*Matthew G. Crowson, MD, MPA, MASc*
- 5:05 CLOSING REMARKS/ADJOURNMENT**  
*Lawrence R. Lustig, MD*
- 5:15 AOS MEMBER PHOTOGRAPH**
- 6:30 AOS PRESIDENTS RECEPTION AND DINNER/DANCE**

**SUNDAY, MAY 7, 2023**

- 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**  
*Lawrence R. Lustig, MD*
- 7:32 INTRODUCTION OF ABSTRACTS - COCHLEAR IMPLANTS PART I**  
*Wade Chien, MD, Moderator*

**7:33 Do Elderly Patients Benefit from Expanded Centers for Medicare & Medicaid Services (CMS) Criteria for Cochlear Implantation in Bilateral Hearing Loss?**

*Sarek A. Shen, MD*

*Nicholas S. Andresen, MD*

*Stephen P. Bowditch, AuD*

*Daniel Q. Sun, MD*

**7:40 Post-Cochlear Implant Computer-based Auditory Training Yields Durable Improvements in Cochlear Implant Quality of Life**

*James R. Dornhoffer, MD*

*Christian Shannon, BS*

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

*Judy R. Dubno, PhD*

*Theodore R. McRackan, MD, MSCR*

**7:47 Combining Intraoperative Electrocochleography with Robotics-Assisted Electrode Array Insertion**

*Rustin G. Kashani, MD*

*Armine Kocharyan, MD*

*Douglas M. Bennion, MD, PhD*

*Camille C. Dunn, PhD*

*Alexander D. Claussen, MD*

*Bruce J. Gantz, MD*

*Marlan R. Hansen, MD*

**7:54 RESIDENT RESEARCH TRAVEL AWARD**

**Expression of Brain-Derived Neurotrophic Factor in Human Spiral Ganglia Neurons following Cochlear Implantation**

*Emily C. Wong, MD*

*Ivan A. Lopez, PhD*

*Akira Ishiyama, MD*

*Gail Ishiyama, MD*

**8:01 The 3D Structure of Cochlear Incomplete Partition Type-II Malformation from Digitised Human Histopathological Specimens: Implications for Cochlear Implantation**

*Chloe E. Swords, MBBS, MRCS*

*Alexander R. Geerardyn, MD*

*Mengyu Zhu, MS*

*Peizhe Wu, MD*

*Julie G. Arenberg, PhD, CCC-A*

*Manohar L. Bance, MBChB, MSc*

*Alicia M. Quesnel MD*

**8:08 Impact of Stimulus Frequency on Azimuthal Sound Source Localization in Patients with Single-sided Deafness using Cochlear Implants**

*Chioma Anidi BA*

*Gerilyn Jones, AuD*

*Madison Epperson, MD*

*Nadine Ibrahim MD*

*Renee M. Banakis Hartl, MD, AuD*

**8:15 DISCUSSION**

**8:20 INTRODUCTION OF SAUMIL N. MERCHANT MEMORIAL LECTURE**

*Lawrence R. Lustig, MD*

- 8:22 SAUMIL N. MERCHANT MEMORIAL LECTURE**  
**Intralabyrinthine Schwannomas and Hearing Rehabilitation with Cochlear Implants - Lessons Learned About Cochlear Implant and Inner Ear Function"**  
*Prof. Stefan K. Plontke*  
Chairman, Dept. of Otorhinolaryngology, Head and Neck Surgery  
University Medicine Halle (Saale), Germany
- 9:07 INTRODUCTION OF ABSTRACTS – COCHLEAR IMPLANTS PART II**  
*Ana H. Kim, MD, Moderator*
- 9:08 Discrepancies Between Expected and Actual Cochlear Implant-Related Functional Outcomes**  
*Joshua E. Fabie, MD*  
*Christian Shannon, BS*  
*Kara Leyzac, AuD, PhD*  
*Judy R. Dubno, PhD*  
*Theodore R. McRackan, MD, MSCR*
- 9:15 Investigating Deferral Rates in Cochlear Implantation: How Often Do Candidates Defer and Why?**  
*Vivian F. Kaul, MD*  
*Bryce P.G. Dzubara, BS*  
*Oliver F. Adunka, MD, MBA*  
*Yin Ren, MD, PhD*
- 9:22 Comparison of Speech Recognition and Hearing Preservation Outcomes Between the Mid-Scala and Lateral Wall Electrode Arrays**  
*Ankita Patro, MD, MS*  
*Nathan R. Lindquist, MD*  
*Jourdan T. Holder, AuD, PhD*  
*David S. Haynes, MD*  
*Elizabeth L. Perkins, MD*  
*Kareem O. Tawfik, MD*
- 9:29 Understanding Determinants of Satisfaction and Decisional Regret in Adult Cochlear Implant Users**  
*Christian M. Shannon, MS, MPAff*  
*Judy R. Dubno, PhD,*  
*Theodore R. McRackan, MD, MSCR*
- 9:36 Comparison of Pre-Curved versus Straight Electrode Intracochlear Position Using Three-Dimensional Virtual Resectioning from Implanted Human Histopathologic Specimens**  
*Emily K. Gall, MD*  
*Alexander Geerardyn, MD*  
*MengYu Zhu, MS*  
*Jennifer T. O'Malley, BA*  
*Joseph B. Nadol Jr., MD*  
*Alicia M. Quesnel, MD*
- 9:43 DISCUSSION**
- 9:48 MID-MORNING BREAK**
- 10:10 INTRODUCTION OF ABSTRACTS - HEARING LOSS PART II/GENDER IN OTOLOGY**  
*Brandon Isaacson, MD*

**10:11 Sound Localization in Active Transcutaneous Bone Conduction Users with Single-Sided Deafness**

*Madison V. Epperson, MD*

*Chioma Anidi, BA*

*Gerilyn Jones, AuD*

*Nadine Ibrahim, MD*

*Renee Banakis Hartl, MD, AuD*

**10:18 Representation of Women in Otolaryngology: A Geospatial Analysis**

*Mark Nyaeme, BS*

*Michael Pozin, MS*

*Nicholas Peterman, BS*

*Rachael Mann, BS*

**10:25 Cigarette Smoking's Association with Sensorineural Hearing Loss - A Population Database Study**

*Marwin Li, BS*

*Natalie M. Perlov, BS*

*Ayan Kumar, MD*

*Dev Amin, MD*

*Zachary D. Urdang, MD, PhD*

*Thomas O. Willcox, MD*

*Rebecca C. Chiffer, MD*

**10:32 DISCUSSION**

**10:36 INTRODUCTION OF CLINICIAN SCIENTIST AWARD**

*Lawrence R. Lustig, MD*

**10:38 CLINICIAN SCIENTIST AWARD PRESENTATION**

**"Audiovisual Communication Devices for Improved Speech Perception"**

*Gavriel Kohlberg, MD*

*University of Washington*

**10:48 INTRODUCTION OF PANEL**

*Lawrence R. Lustig, MD*

**10:49 PANEL**

**"An Overview of Otologic Disparities Across the Lifespan"**

*Matthew L. Bush, MD, PhD, MBA, Moderator*

*Yuri Agrawal, MD, MPH*

*Jacob Hunter, MD*

*Susan Emmett, MD, MPH*

*Cedric Pritchett, MD*

*Adam Thompson-Harvey, MD*

**11:50 INTRODUCTION OF INCOMING PRESIDENT**

*Sujana Chandrasekhar, MD*

**11:55 CLOSING REMARKS/ADJOURNMENT**