

SIXTEENTH
TRIENNIAL MEETING
of
**The International
Otopathology Society**

(The Schuknecht Society)



*Sponsored in part
by the*

NIDCD National Temporal Bone,
Hearing and Balance Pathology
Resource Registry

June 4, 5, and 6, 2023

Meltzer Auditorium, 3rd floor

Massachusetts Eye and Ear

243 Charles Street

Boston, Massachusetts

Program Summary

SUNDAY, JUNE 4

3:00–5:00 pm **President's Reception**
Liberty Hotel
215 Charles Street, Boston, MA
*(Across from Mass Eye and Ear
entrance)*

MONDAY, JUNE 5

7:00 am–12:00 pm **Registration**
Mass Eye and Ear, 3rd floor

8:00 am **Welcome/Opening Remarks**
President: Prof. Hubert Löwenheim
Tübingen, Germany

8:15 am **Mass Eye and Ear
Otopathology Lab Today**
Alicia Quesnel; Andreas Eckhard
Boston, MA

8:30 am **Introduction of Keynote Lecturer**
Andreas Eckhard
Boston, MA

8:32 am **Keynote Speaker #1**
M. Charles Liberman
The Functionally Important Structural
Changes in Presbycusis: Insights From
Confocal Analysis of Immunostained,
Microdissected Cochleas
Boston, MA

Innovations in Otopathology

Moderator: Ophir Handzel

9:06 am **A Brief History of Oto(histo)pathology
Techniques – Quo Vadis?**
Andreas Eckhard
Boston, MA

9:20 am **A New Methyl Methacrylate Embedding
to Enable State-Of-The-Art Histological
and Genetic Analyses of Undecalcified
Human Temporal Bone Sections**
David Bächinger;* Anbuselvan
Dharmarajan; MengYu Zhu; Jennifer
O'Malley; Jacqueline Neubauer;
Andreas Eckhard
Zurich, Switzerland

- 9:34 am **Genotype Phenotype Correlations in Human Temporal Bone Specimens: DNA Extraction Reveals GJB2 Mutation**
Jennifer O'Malley;* Elissa Murphy; Steven Senese; Sami Samir Amr; Alicia Quesnel
Boston, MA
- 9:48 am **Perilabyrinthine Cellular Voids in "Virtual Otopathology"**
Mads Sølvsten Sørensen;* Sune Bloch; Peter Trier Mikkelsen; Lars Juul Hansen
Copenhagen, Denmark
- 10:02 am **DISCUSSION**
- 10:05 am **BREAK / GROUP PHOTO (15 minutes)**
- 10:20 am **Neural Degeneration in Human Cochleas: Machine-Learning Counts and 3D Mapping in Archival Sections**
Peizhe Wu;* Jennifer O'Malley; M. Charles Liberman
Boston, MA
- 10:34 am **Comparing Tissue Contrast and Imaging Capabilities of H&E and FLARE Staining Protocols for Temporal Bone Pathology**
Thore Schade-Mann; Philipp Gamerdinge; Hubert Löwenheim; Andreas Eckhard*
Boston, MA
- 10:48 am **Predicting Supporting-Cell Survival in the Human Cochlea Based on Audiogram and Etiology**
Charanjeet Kaur;* McKayla Van Orden; Peizhe Wu; Jennifer O'Malley; M. Charles Liberman
Boston, MA
- 11:02 am **DISCUSSION**

Vestibular Schwannoma

Moderator: Pascal Senn

- 11:06 am **Hearing Function After Cyberknife for Vestibular Schwannoma: A Systematic Review**
Matheus Tavares;* Fayez Bahmad
Brasília, Brazil

*Speaker/Presenter

MONDAY, JUNE 5 *(continued)*

- 11:20 am **Histopathological Evaluation of Intralabyrinthine Schwannoma**
Christof Roosli;* Alicia Quesnel;
Michael Bagattini
Zurich, Switzerland
- 11:34 am **Distribution of Schwann Cells and Microglia in Normal Inner Ears and Temporal Bones With Vestibular Schwannoma**
Drew Montigny;* Reef Al-Asad;
Jennifer O'Malley; David Jung;
Andreas Eckhard; Judith Kempfle
Boston, MA
- 11:48 am **Analysis of the Video Head Impulse Test in Individuals Diagnosed With Vestibular Schwannoma**
Thiago Silva Almeida De Souza;*
LCV Ferreira; DR Santos; F Bahmad;
FK Alvarenga
Goiás, Brazil
- 12:02 pm **DISCUSSION**
- 12:05 pm **LUNCH**
- 12:05 pm **Executive Council Meeting**
8th Floor Board Room
- 1:05 pm **Introduction of Keynote Lecturer**
Felipe Santos
- 1:07 pm **Keynote Speaker #2**
Sumit Agrawal
Unlocking the Cochlea: The Journey from
Synchrotron Phase-Contrast Imaging to
Artificial Intelligence
Ontario, Canada

Hearing Loss, Otoprotection, and Regeneration II **Moderator:** Fayez Bahmad Jr.

- 1:41 pm **Inner Ear Glial Cells in Damage and Repair**
Drew Montigny; Reef Al-Asad; Karina Guo;
David Jung; Albert Edge; Judith Kempfle*
Boston, MA

- 1:55 pm **Effects of FABP7 Deletion on Hearing After Noise Exposure**
Jun Suzuki;* Ryoukichi Ikeda; Yohei Honkura; Tetsuaki Kawase; Yukio Katori
Sendai, Japan
- 2:09 pm **Pathophysiology of Age-Related Hearing Loss in Advanced-Aged Mice**
Yoshiaki Inuzuka;* Kunio Mizutari; Takaomi Kurioka; Jun Suzuki; Koji Araki; Akihiro Shiotani
Saitama, Japan
- 2:23 pm **Small-Molecule KV7.4 Activator ACOU085 Protects From Cisplatin-Induced Hearing Loss and Outer Hair Cell Death in a Guinea Pig Model**
Hubert Löwenheim;* Mathieu Petremann; Msarcus Müller; Michael Bös; Jonas Dyhrfeld-Johnsen
Tübingen, Germany
- 2:37 pm **WNT Activation and TGF β -Smad Inhibition Potentiate Stemness of Mammalian Auditory Neuroprogenitors for High Throughput Generation of Functional Auditory Neurons in Vitro**
Francis Rousset; Giulia Schilardi; Stéphanie Sgroi; German Nacher-Soler; Rebecca Sipione; Sonja Kleinlogel; Pascal Senn*
Genève, Switzerland
- 2:51 pm **DISCUSSION**
- 2:55 pm **BREAK (15 minutes)**
- 3:10 pm **Pseudo-Monophasic Pulses to Characterize Auditory Brainstem Implant-Evoked Responses in Mouse Inferior Colliculus**
Victor Adenis;* Stephen McInturff; Florent V. Cohen; Stéphanie Lacour; M. Christian Brown; Daniel J. Lee*
Boston, MA
- 3:24 pm **Health Utilities in Hearing Assisted Taiwanese Children**
Pa-Chun Wang;* Chen-Chi Wu; Pei-Hsuan Lin; Te-Yung Fang; Yu Ko
Taipei, Taiwan
- 3:38 pm **DISCUSSION**

*Speaker/Presenter

Cochlear Implant I

Moderator: Nicole Jiam

- 4:02 pm **Three-Dimensional Quantification of Fibrosis and Ossification After Cochlear Implantation via Virtual Re-Sectioning: Potential Implications for Residual Hearing**
Alexander Geerardyn;* MengYu Zhu;
Peizhe Wu; Jennifer O'Malley;
Joseph B. Nadol, Jr.; M. Charles Liberman;
Heidi Nakajima; Nicolas Verhaert;
Alicia Quesnel
Leuven, Belgium
- 4:16 pm **Prevalence of IBA1 Positive Macrophages Within Cochlear Vessels Following Cochlear Implantation**
Tadao Okayasu;* Jennifer O'Malley;
Joseph B. Nadol, Jr.
Nara, Japan
- 4:30 pm **Pre-curved Versus Straight Electrode Intracochlear Position and Translocation Using Three-Dimensional Reconstruction From Implanted Human Histopathologic Specimens**
Emily Gall;* Alexander Geerardyn;
MengYu Zhu; Anbuselvan Dharmarajan;
Jennifer O'Malley; Joseph B. Nadol, Jr.;
Alicia Quesnel
Boston, MA
- 4:44 pm **Variability in Cochlear Implantation Outcomes in a Large German Cohort With a Genetic Etiology of Hearing Loss**
Anke Tropitzsch;* Thore Schade-Mann;
Philipp Gamerdinger; Saskia Biskup;
Tobias B. Haack; Andreas Heyd;
Ernst Dahlhoff; Hubert Löwenheim
Tübingen, Germany
- 4:58 pm **DISCUSSION**
- 5:05 pm **ADJOURN DAY 1**
- 6:00–9:00 pm **Banquet, Liberty Hotel**
(by subscription only)

TUESDAY, JUNE 6

- 7:30 am **BREAKFAST**
- 8:00 am **Introduction of Keynote Lecturer**
Alicia Quesnel
- 8:02 am **Keynote Speaker #3**
Nicolas Verhaert
Optical Coherence Tomography for
Image-Guided Cochlear Implantation
and Diagnostics
Leuven, Belgium

Cochlear Implant II

Moderator: Judith Kempfle

- 8:36 am **Magnetic Intracochlear Stimulation:
Foundation for a Next-Generation
Cochlear Implant**
Ryan Bartholomew;* Jae-Ik Lee;
Victor Adenis; M. Christian Brown;
Julie Arenberg; Shelley Fried; Daniel J. Lee
Boston, MA
- 8:50 am **Three-Dimensional Histopathologic
Analysis of Human Inner Ears With
Enlarged Vestibular Aqueduct:
Implications for Radiologic Diagnosis
and Cochlear Implantation**
Archana Podury;* Nicole T. Jiam;
Anbuselvan Dharmarajan; Chloe Swords;
Alexander Geerardyn; Andreas Eckhard;
Peizhe Wu; Alicia Quesnel
Boston, MA
- 9:04 am **Cochlear Implant and Tinnitus:
Prospective Cohort**
Pauliana Lamounier*
Goiânia-GO, Brasil
- 9:18 am **The Local Effect of Cochlear Implantation
Trauma and Insertion Technique on
Intracochlear Ossification and Fibrosis:
A Human Temporal Bone Study**
Alexander Geerardyn;* MengYu Zhu;
Joseph B. Nadol, Jr.; Nicolas Verhaert;
Alicia Quesnel
Boston, MA

*Speaker/Presenter

TUESDAY, JUNE 6 *(continued)*

9:32 am **Model-Based Inference of Electrode Position and Neuronal Density From Measured Detection Thresholds in Cochlear Implant Listeners**
Julie Arenberg;* David J Perkel;
Joshua H. Goldwhly
Boston, MA

9:46 am **DISCUSSION**

9:51 am **BREAK (15 minutes)**

Hearing Loss, Otoprotection, and Regeneration I **Moderator:** Alexander Geerardyn

10:07 am **Conductive Hearing Loss With Age**
Christof Roosli;* Daniel Dillinger;
Letizia Meier; Dorothe Veraguth;
Flurin Pfifner; Rudolf Probst
Zurich, Switzerland

10:21 am **Does Audiogram Shape Predict Strial Atrophy?**
Charanjeet Kaur;* Peizhe Wu;
Jennifer O'Malley; M. Charles Liberman
Boston, MA

10:35 am **Rheumatoid Arthritis: Otopathologic Findings From the Middle to the Inner Ear**
Melissa Castillo-Bustamante;* Prithwiji Roychowdhury; Marc Polanik; Dhrumi Gandhi; Elliott D. Kozin; Mio Uchiyama; Sebahattin Cureoglu; Aaron K. Remenschneider
Medellín, Colombia

10:49 am **Hearing Loss in Alport's Syndrome**
Felipe Santos;* Jennifer O'Malley;
MengYu Zhu
Boston, MA

11:03 am **Otologic Manifestations of Fabry Disease: A Cross-Sectional Study From Taiwan**
Yen-Fu Cheng;* Chii-Yaun Huang;
Dau-Ming Niu; Heng-Ching Lin
Taipei, Taiwan

11:17 am **Hearing Impairment in Xeroderma Pigmentosum**

Takeshi Fujita;* Tatsuya Furukawa;
Natsumi Uehara; Mariko Tsujimoto;
Akinobu Kakigi; Chikako Nishigori;
Ken-ichi Nibu
Kobe, Japan

11:31 am **Correlation of Blast-Induced Tympanic Membrane Perforation With Peripheral Cochlear Synaptopathy**

Kunio Mizutari;* Kurioka Takaomi;
Yasushi Satoh; Akihiro Shiotania
Saitama, Japan

11:45 am **DISCUSSION**

11:50 am **LUNCH**

Imaging and Technical Innovation in Otology

Moderator: Christof Roosli

1:01 pm **Optical Coherence Tomography Imaging and Vibrometry of Cochlear Structures in Intact Human Cadaveric Temporal Bones**

Paul Secchia;* Christopher McHugh;
Nam Hyun Cho; Michael Ravicz; Andrew Tubelli; Lukas Graf; Aleksander Zosuls;
John Guinan; Sunil Puri; Heidi Nakajima
Boston, MA

1:15 pm **FMRI Neurofeedback Outperforms Cognitive Therapy in Chronic Severe Tinnitus**

Dimitrios Daskalou;* Nicolas Gninenko;
Stéphanie Trznadel; Luca Grammatica;
François Voruz; Claudia Lardi Robyn;
Anne Spadazzi; Aude Yulzari; Pascal Senn;
Dimitri Van De Ville; Sven Haller
Genève, Switzerland

1:29 pm **The Efficacy of Exoscope in Otologic Surgery for Children With Cervical Spine Instability and Cervical Spine Immobilization**

Takahisa Watabe;* Yasunobu Amari;
Natsuki Takata; Takeshi Inoue; Mariko Hara;
Noriko Morimoto
Tokyo, Japan

*Speaker/Presenter

1:43 pm **Effect of Round Window Reinforcement on Sound Transmission in the Human Cochlea with Superior Canal Dehiscence**
Yew Song Cheng;* Xiying Guan;
Heidi Hideko Nakajima
Boston, MA

1:57 pm **DISCUSSION**

Chronic Otitis Media

Moderator: Divya Chari

2:03 pm **Structural Variations May Explain the Tendency of Eustachian Tube Disorders to Preferentially Affect the Posterior-Superior Tympanic Membrane Quadrant**
Firas Kassem; Or Dagan; Ameen Biadsee;
Muhammed Masalha; Ariela Nachmani;
Ben Nageris; Daniel J. Lee; Omer Umgar;
Ophir Handzel*
Boston, MA

2:17 pm **A Novel Association of Annexin-13 to Secretory Otitis Media Along With Studying of Genetics of Chronic Non-suppurative Otitis Media**
Argyro Bizaki-Vallaskangas;* Eeva Sliz;
Joel Rämö; Elmo Saarentaus;
Ilkka Kivekäs; Tytti Willberg;
Sanna Toppila-Salmi; Aarno Palotie;
Antti Mäkitie; Johannes Kettunen
Pirkkala, Finland

2:31 pm **DISCUSSION**

2:35 pm **BREAK (15 minutes)**

Meniere's

Moderator: Andreas Eckhard

2:51 pm **Rat Model of Acute Ménière's Attack: Direction-Changing Spontaneous Nystagmus and Hearing Fluctuations Induced by Intratympanic Injection of Potassium Chloride**
Takefumi Kamakura;* Tadashi Kitahara;
Makoto Kondo; Arata Horii; Yukiko Hanada;
Yasumitsu Takimoto; Yusuke Ishida; Yukiko Nakamura; Takao Imai; Hidenori Inohara;
Shoichi Shimada
Osaka, Japan

- 3:05 pm **The Biomechanics of Meniere’s Disease:
Dynamic Aspects**
Daniel Pender*
Milford, PA
- 3:19 pm **Vestibular Perceptual Thresholds and
Inner Ear Imaging in Meniere’s Disease:
Tools for the Diagnostic Differentiation
of Episodic Vestibular Disorders**
Cameron Fattahi; Amsal Madhani;
Susan King; Faisal Karmali; Amy Juliano;
Richard F. Lewis; Divya Chari*
Boston, MA
- 3:33 pm **DISCUSSION**
- 3:40 pm **Business Meeting** (*members only*)
Meltzer Auditorium, 3rd Floor
Mass Eye and Ear
- 4:10 pm **Presentation of the Schuknecht and
Merchant Travel Awards**
- 4:15 pm **Closing Remarks and Introduction of
the Incoming President**
- 4:30 pm **ADJOURN**

*Speaker/Presenter

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Pascal Senn, MD, Bern, Switzerland

2006

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2010

Andreas Eckhard, MD, Tübingen, Germany

2013

Kunio Mizutari, MD, Tokyo, Japan
Nils Guinand, MD, Genève, Switzerland

2016

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