



8:30-9:00 Opening Ceremony

Room A

Opening Remarks by President

Ito J (Japan)

History of IEB

Gummer A (Germany)

9:00-9:30 Presidential Lecture

Room A

Chair: Lim DJ (USA)

PL

Regeneration Medicine for the Inner Ear DisordersIto J (Japan)

9:30-10:15 Keynote Lecture 1

Room A

Chair: Yamamoto N (Japan)

KL1

Cell Death and Repair in Hair Cell EpitheliaGale JE (UK)

10:30-11:50 Podium 1: Ototoxicity 1

Room A

Chairs: Schacht J (USA)
Hara A (Japan)10:30 1
Target Lecture**Development of Designer Aminoglycoside Antibiotics without Ototoxicity**Matt T (Switzerland), Shcherbakov D (Switzerland), Sha S-H (USA), Perez-Fernandez D (Switzerland), Akbergenov R (Switzerland), Meyer M (Switzerland), Duscha S (Switzerland), Freihofer P (Switzerland), Dubbaka SR (Switzerland), Xie J (USA), Vasella A (Switzerland), Böttger EC (Switzerland), Schacht J (USA)

10:50

2

How the Exposure to Styrene Affects the Different Sources of DPOAEsSisto R, Moleti A, Botti T, Sanjust F (Italy)

11:02

3

The Influence of Sphingosine Kinase Inhibitor and Sphingosin on Cisplatin-induced Hair Cell Loss of the Rat CochleaTani K, Tabuchi K, Nakayama M, Hara A (Japan)

11:14

4

Protective Role of Ecabet Sodium against Neomycin-induced Hair Cell Damage in ZebrafishChoi J, Chang J, Im GJ, Chae SW, Jung HH (Korea)

11:26

5

Purinergic P2 Receptor Signaling Enhances Neomycin OtotoxicityLin SCY, Vlajkovic SM, Thorne PR (New Zealand)

11:38

6

Netrin-1 Protects Hair Cells against AminoglycosideYamahara K, Yamamoto N, Nakagawa T, Ito J (Japan)

12:00-13:00 Luncheon Seminar 1

Room A

Chair: Kumakawa K (Japan)

LS1

EAS- DXMb-eluting Electrodes Protect against Electrode Insertion Trauma (EIT)-induced Increases in Hearing Thresholds, Impedance and Loss of Cochlear Sensory Receptor CellsVan De Water TR, Bas E, Bohorquez J, Eshraghi AA, He J, Perez E, Melchionna T, Garnham C, Jolly C (USA, Austria)

Co-sponsor: Med-El Medical Electronics, Med-El Japan Co., Ltd.

Chairs: Ryan AF (USA)
Kitamura K (Japan)

10:30 7 Proteomics of Noise-induced Hearing Loss

Target Lecture Savas J, Pak K, Ryan AF (USA)

10:50 8 Variation Analysis of RNA-seq Data for Identification of Candidate Genes Associated with Individual Variation in Cochlear Responses to Acoustic Trauma

Hu BH, Yang S, Cai Q, Vethanayagam RR, Dong YY, Bard J, Jamison J (USA)

11:02 9 Characterization of Transcriptomes of Cochlear Inner and Outer Hair Cells

Liu HZ, Pecka Jason L, Zhang Q, Soukup GA, Beisel KW, He DZZ (USA)

11:14 10 An Inducible Gene Expression System Using a Modified Hair Cell Promoter for Myosin 7a

Asai Y, Géléoc GSG, Holt JR (USA)

11:26 11 Establishment of a Novel Mouse Model for Hearing Impairment by Selective Ablation of Outer Hair Cells in the Inner Ear

Kikkawa Y, Miyasaka Y, Wada K, Tokano H, Kitamura K, Matsuoka K (Japan)



14:30-15:15 Keynote Lecture 2

Room A

Chair: Usami S (Japan)

- KL2 The Genomics of Deafness: Exploring Gene Function and Regulation**
Avraham KB (Israel)

15:30-17:38 Podium 3: Inner Ear Damage

Room A

Chairs: Canlon B (Sweden)
Yamasoba T (Japan)

- 15:30 12 TrkB Mediated Protection against Circadian Sensitivity to Noise Trauma**
 Target Lecture Meltser I, Cederroth CR, Basinou V, Savelyev S, Schmitz Lundkvist G, Canlon B (Sweden)
- 15:50 13 Mitophagy can be Observed in the Inner Ear but is not an Universal Response to Mitochondrial Damage**
Bodmer D, Setz C (Switzerland)
- 16:02 14 Physiological Significance of p62-mediated Autophagy in Auditory Cells**
Hayashi K, Goto F, Tsuchihashi N, Nomura Y, Masuda T, Fujioka M, Kanzaki S, Ogawa K (Japan)
- 16:14 15 The Role of Purinergic Signalling in Cochlear Response to Stress and Injury**
Vlajkovic SM (New Zealand), Housley GD (Australia), Thorne PR (New Zealand)
- 16:26 16 Assessing Ototoxicity of Terbinafine Eardrops in Guinea Pigs Using Caloric, OVEMP and CVEMP Tests**
Yang TH, Chung FL, Young YH (Taiwan)
- 16:38 17 Protective Role of Edaravone against Cisplatin Induced Apoptosis in HEI-OC1 Cell**
Chang J, Park S-K, Kim H-J, Im GJ, Lee S, Jung HJ, Choi J, Chae SW, Jung HH (Korea)
- 16:50 18 Hyaluronan Up-regulation is Linked to Renal Dysfunction and Hearing Loss Induced by Silver Nanoparticles**
 Feng H (Finland), Pyykkö I (Finland), Zou J (Finland, China)
- 17:02 19 Epithelial Healing in the Organ of Corti after a Deafening Insult**
Anttonen T, Belevich I, Kirjavainen A, Laos M, Brakebusch C, Jokitalo E, Pirvola E (Finland)
- 17:14 20 Accelerated Noise-induced Hearing Loss and Audiogenic Seizure in Mice Lacking Thrombospondins**
 Wangsawihardja FV, Sundaresan S, Mendus D, Leu R, Grillet N, Ghoddoussi F, Holt AG, Mustapha M (USA)
- 17:26 21 Routes, Dynamics, and Correlates of Bacterial Invasion and Inflammatory Cell Infiltration in the Inner Ear during Pneumococcal Meningitis**
Thomasen PC, Miyazaki H, Nue Møller M, Worsøe L, Brandt CT, Ostergaard C (Denmark)

15:30-16:54 Podium 4: Inner Ear Pathology

Annex 2

Chairs: Neef J (Germany)
Ikeda K (Japan)

- 15:30 22 **Assembly and Disruption of Cochlear Gap Junction Macromolecular Complex are Regulated by Connexin 26**
Kamiya K, Minowa O, Ikeda K (Japan)
- 15:42 23 **Different Contribution of NKCCs in Two Epithelial Layers of the Lateral Cochlear Wall to the Unidirectional K⁺-transport in the Inner Ear**
Yoshida T, Nin F, Ogata G, Komune S, Hibino H (Japan)
- 15:54 24 **Water Homeostasis of the Inner Ear can be Influenced by the Anti-diuretic Hormone**
Gleiser C (Germany), Runggaldier D (Germany), Brockhues J (Germany), Taguchi D (Japan), Müller M (Germany), Löwenheim H (Germany), Hirt B (Germany)
- 16:06 25 **Targeting Translation during Cellular Stress: Manipulating Stress Granule Formation and Identifying RNA Components**
Goncalves AC, Dawson SJ, Gale JE (UK)
- 16:18 26 **The Quantitative Analysis of the Aquaporin Expression Levels in the Inner Ear of Slc26a4^{-/-} Mice**
Miyoshi T, Yamamoto N, Yamaguchi T, Tona Y, Ogita K, Nakagawa T, Ito J (Japan)
- 16 :30 27 **Glucocorticoids Stimulate Endolymphatic Water Reabsorption in Inner Ear through Aquaporin 3 Regulation**
Nevoux J, Viengchareun S, Lema I, Lecoq AL, Lombès M, Ferrary E (France)
- 16:42 28 **Natural History of Resident Macrophages in the Mouse Cochlea**
Okano T, Ito J (Japan)

17:00-17:40 Evening Seminar

Annex 2

Chair: Murakami S (Japan)

- ES **Mystery of Inner Ear Anomaly - Incomplete Partition Type II with Large Vestibular Aqueduct**
Takahashi H, Hara M, Kanda Y, Hatachi K (Japan)

Co-sponsor: J.Morita Mfg. Corp.