

Tuesday, 16. September

Session 9: Protection, Repair, Regeneration Chairpersons: I. Varela-Nieto, H. Löwenheim

- 08:30 – 08:45 O44 Single-cell RNA sequencing identifies organ-specific progenitor populations in the mouse otocyst
*X. Bao, S. Chakraborty, J. Liu, *J. Waldhaus*
- 08:45 – 09:00 O45 The function of NFI transcription factors in cochlear differentiation and hair cell regeneration
**A. Doetzlhofer, C. Morgan*
- 09:00 – 09:15 O46 Unraveling Notch-mediated regulation of hair cell regeneration in the auditory system
**L. Khalaily, S. Kasirer, K. Domb, B. Shao, S. Taiber, M. Sperber, O. Loza, L. Tao, R. Elkon, D. Sprinzak, K. B. Avraham*
- 09:15 – 09:30 O47 Chemistry-dependent efficacy of antisense oligonucleotides for DFNA9 across human cell and mouse models
*F. Aben, E. Fousert, D. Verdoodt, W. van den Boogaard, S. de Bruijn, J. Oostrik, L. Sels, K. Szewczyk, W. van der Valk, P. Ponsaerts, H. Locher, V. Van Rompaey, E. van Wijk, *E. de Vrieze*
- 09:30 – 09:45 O48 NOX4 as a key regulator of cochlear redox homeostasis during ageing
**I. Varela-Nieto, M. Tapias-Martin, J. Contreras, J. M. Zubeldia, S. Murillo-Cuesta*
- 09:45 – 10:00 O49 Evidence of otoconia biogenesis outside of the macular organs
**D. M. Correa, R. Osgood, A. A. Indzhukulian, S. Krämer, A. H. Eckhard*
- 10:00 – 10:30 **Break**

Session 10: Speech Processing, Auditory Perception and Cognition Chairpersons: A. Fetoni, M. Knipper

- 10:30 – 11:00 O50 Target Lecture:
Hearing and cognition across the life course: Evidence from behaviour, electrophysiology, and brain stimulation
**H. Nuttall*
- 11:00 – 11:15 O51 Use of OPM-MEG for auditory processing and cognition-related hearing disorders
**R. A. Donoso-San Martín, S. M. Wolpert, S. Fink, P. H. Delano, C. Braun, L. Rüttiger, M. Knipper*
- 11:15 – 11:30 O52 Psychiatric comorbidity in patients with tinnitus or auditory hallucination and sleep evaluation, sound therapy and Shared Decision Making (SDM)
**K. Kiyomizu, T. Nakamura, K. Takahashi, H. Funahashi*
- 11:30 – 11:45 O53 Alterations in the auditory cortex synaptic activity contribute to early noise-induced cognitive decline in a mouse model of Alzheimer's disease
**F. Paciello, V. Mohamed Hizam, C. Vernamonte, A. Pisani, M. Rinaudo, A. R. Fetoni, C. Grassi*
- 11:45 – 12:00 O54 Hearing loss differentially impacts behavioral assays of memory
*S. Hemachandran, *A. J. Ricci*
- 12:00 – 13:00 **Lunch**
- 13:00 – 14:30 **Poster Presentations III**
P83 – P90: [Protection, Repair, Regeneration](#)
P91 – P96: [Cochlear Implants](#)
P97 – P105: [Speech Processing, Auditory Perception, Cognition](#)

Session 11: Novel Approaches to Cochlear and Cortical Stimulation and Assessment in Primates
Chairpersons: M. Jeschke, S. Hage

14:30 – 15:00	O55	Target Lecture: Neural coding mechanisms in auditory cortex <i>*X. Wang</i>
15:00 – 15:15	O56	Translational auditory gene therapy in non-human primates: From genetic modeling to optogenetic restoration <i>*M. Jeschke, R. Behr, F. Benseler, A. Berenson, N. Brose, T. Bruegmann, C. Drummer, T. Kahland, K. Kusch, D. L. Lindenwald, T. Mager, A. Meyer, T. Moser, A. Rambousky, N. Rüger, O. Tkachenko Eikel, M. Uhl, B. Wolf, S. S. Yalamarthy</i>
15:15 – 15:30	O57	The electrically-evoked compound-action potential-derived Failure Index as neural health marker <i>*W. Konerding, A. Günther, P. Baumhoff, C. Batsoulis, S. Vormelcher, S. Strahl, H. Benav, A. Büchner, A. Kral</i>
15:30 – 15:45	O58	Model-based characterisation of auditory nerve responses to electrical stimulation <i>R. Felsheim, *D. Sly, S. O'Leary, M. Dietz</i>
15:45 – 16:30		Business Meeting Close of Workshop