

Session Program

8–12 Sept 2026

Forum Acusticum 2026

***A14.03 Hidden hearing loss & synaptopathy: Diagnostics,
treatment & functional consequences***

Wednesday 9 September

10:20

A14.03 Hidden hearing loss & synaptopathy: Diagnostics, treatment & functional consequences: S174

Session | Location: Messe Congress Graz, Saal 12A | Conveners: Lukas Rüttiger, Emmanuel Ponsot

10:20–10:40

Electrophysiological markers of auditory nerve integrity in humans: insights from recordings and computational modeling

Speaker

Miguel Temboury-Gutierrez

10:40–11:00

Age-Related Declines in Subcortical Sound Coding Are Not Associated with Perceptual Discrimination Deficits

Speaker

David López-Ramos

11:00–11:20

Neurophysiological and Behavioral Consequences of Cochlear Synaptopathy in Chinchillas

Speaker

Michael Heinz

11:20–11:40

Neurophysiological underpinnings of perceptual changes with cochlear synaptopathy: insight from animal models

Speaker

Kenneth Henry

11:40–12:00

Development of an Awake Animal Model for Hyperacusis Screening

Speaker

Boris Gourevitch

12:00

14:20

A14.03 Hidden hearing loss & synaptopathy: Diagnostics, treatment & functional consequences: S292

Session | Location: Messe Congress Graz, Saal 12A | Conveners: Lukas Rüttiger, Emmanuel Ponsot

14:20–14:40

Auditory Brainstem Responses in Aging Rats are Specific for the Spectral Content in Human Syllables

Speaker

Lukas Rüttiger

14:40–15:00

Auditory-Nerve Spontaneous-Rate Types and Neural Coding of Complex Sounds

Speaker

Laurel H. Carney

15:00–15:20

Does It Matter Which Fibers You Lose? A Computational Analysis of Cochlear Synaptopathy

Speaker

Marta Campi

15:20–15:40

Effects of Low- and Medium-Spontaneous Rate Fiber Loss on Speech-in-Noise Discrimination: A cross-species Modelling and Experimental Study**Speaker**

Morgan Thienpont

15:40

16:00

A14.03 Hidden hearing loss & synaptopathy: Diagnostics, treatment & functional consequences: S293**Session** | **Location:** Messe Congress Graz, Saal 12A | **Conveners:** Emmanuel Ponsot, Lukas Rüttiger

16:00–16:20

Effect of Aging on Forward-Masking Estimates of Medial Olivocochlear Gain Reduction: Computational simulations and Behavioral Data**Speaker**

David López-Ramos

16:20–16:40

Auditory Nerve Fiber Loss And Vowel Discrimination: Evidence From Machine Learning Analysis Of Single-Unit Recordings**Speaker**

Daniil Kiselev

16:40–17:00

Differentiating Threshold-Specific Responses of the Human Auditory Nerve via Refractoriness**Speaker**

Ross Maddox

17:00–17:20

Extended high frequency hearing for cortical processing of speech**Speaker**

Lukas Rüttiger

17:20–17:40

The NExpo Study: Behavioral, Physiological, and Neuroimaging Measures to Assess the Effects of Noise Exposure on the Auditory Pathway**Speaker**

Rebecca Dewey

17:40–18:00

Digit-Triplet Speech-in-Noise Performance Is Minimally Sensitive to Noise Exposure History: Evidence from a Large Population-Based Sample of Middle- aged and Older Adults**Speaker**

Katrin Krumbholz

18:00