

HEARING: High-resolution structural and functional EAR imagING

Sunday 21 May 2023 - Wednesday 24 May 2023

Monte Verità



HEARING WORKSHOP
**High-resolution structural
and functional EAR
imagING**
- From bench to bedside

Book of Abstracts

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Basic research lecture 1: Basics and Principles of Synchrotron Imaging

Corresponding Author: marco.stampanoni@psi.ch

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Scientific Session 1: Assessing Biomechanics of the middle ear

Dr. med. Remenschneider, surgeon-scientist, Eaton Peabody Lab., Mass. Eye and Ear, Harvard medical school

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Scientific session 1: Conductive hearing loss: causes and treatment

Prof. Dr. med. Huber, Clinic Director ORL, University Hospital Zurich

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Unlocking the Cochlea: The Journey from Synchrotron Phase-Contrast Imaging to Artificial Intelligence

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Dynamic SR X-PCI Imaging of fish ear

Dr. Schlepütz, Beamline Scientist, Paul Scherrer Institut

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Dynamic SR X-PCI Imaging of biological tissue

Corresponding Author: margaux.schmeltz@psi.ch

Dr. Schmeltz, Post-Doc, Paul Scherrer Institut

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Basic research lecture 6: SR X-PCI Morphology of Inner Ear

Prof. Rask-Andersen, Department of Surgical Sciences, University of Uppsala

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Basic research lecture 7: Physiology of Hearing

Dr. med. Hideko, ass. Professor and investigator, Eaton Peabody Lab, Harvard medical school

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Clinical lecture 4: From bench to bedside: innovative solutions for the treatment of sensorineural hearing loss

PD Dr. med. Arweiler-Harbeck, Medical Director Cochlear Implant Centrum Ruhr, Uniklinikum Essen

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Corresponding Author: anschuetz.lukas@gmail.com

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Corresponding Author: anschuetz.lukas@gmail.com

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Corresponding Authors: anne.bonnin@psi.ch, anschuetz.lukas@gmail.com

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Corresponding Authors: aleksandra.ivanovic@psi.ch, anne.bonnin@psi.ch

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Corresponding Author: hector.dejea@bme.lth.se

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Corresponding Author: hao.li@surgsci.uu.se

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Corresponding Author: georgios.mantokoudis@insel.ch

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Corresponding Author: anne.bonnin@psi.ch