



Hearing4all International Symposium 2021

The Future of Hearing

Thursday, 04.11.2021 – Friday, 05.11.2021 – Oldenburg, Germany

Agenda

Thursday, 04.11.2021 09:00 – 17:35

Time		Chair
09:00 – 09:20	Welcome and Introduction (Birger Kollmeier, Thomas Lenarz)	Kollmeier
09:20 – 10:50	Research Thread II: IT-based diagnostics and rehabilitation (Büchner, Kollmeier, Doclo)	
09:20 – 09:50	Klaus Robert Müller Immediate brain plasticity after one hour of brain-computer interface (BCI)	
09:50 – 10:50	Overview and Highlights from Research Thread II (including Poster Overview)	N.N.
	Waldo Nogueira Towards a Deep Learning based Sound Coding Strategy for Cochlear Implants	
	Stephan Ewert Auditory Modelling and Virtual Acoustic Environments	
	Mareike Buhl Towards a clinical decision-support system for audiology based on combined clinical databases and Common Audiological Functional Parameters (CAFPAs)	
10:50 – 11:10	Coffee Break	
11:10 – 11:40	JRA Highlights	
11:40 – 12:10	Poster Session I	
12:10 – 13:10	Lunch Break	
13:10 – 15:10	Research Thread I: Auditory processing deficits throughout the lifespan (Thiel, Kral, Klump)	
13:10 – 13:40	Samira Anderson Effects of age and training on auditory processing from brainstem to cortex	
13:40 – 14:40	Overview and Highlights from Research Thread I (including Poster Overview)	N.N.
	Katja Bleckmann Behavioral, physiological, and anatomical assessment of the hearing performance in C57BL/6.CAST-Chd23Ahl+ mice missing the glutathione peroxidase 1	
	Rüdiger Land Testing the development of sensory borders in hearing and congenitally deaf mice with combined EEG and intra-cortical recordings	
	Sebastian Puschmann Naturalistic neuroimaging using inter-subject synchronization of brain responses	
14:40 – 15:10	Colleen Le Prell Hearing Across the Lifespan: Effects of Noise on Communication Ability	
15:10 – 15:30	Coffee Break	

15:30 – 16:00	Josh McDermott New Models of Human Hearing Via Machine Learning	
16:00 – 16:30	TRC Highlight Jan RENNIES-HOCHMUTH (Fraunhofer IDMT/HSA) Modeling and enhancement of speech perception in broadcast applications	
16:30 – 17:00	Poster Session II	
17:00 – 17:30	Poster Session III	
17:30 – 17:35	Announcements for the evening /next day (N.N)	
From 19:00	Evening Event: ORLANDOviols concert	

Thursday, 04.11.2021 16:30 – 18:30

16:30 – 17:30	Translational Advisory Committee (internal)
17:30 – 18:30	Scientific Advisory Board Meeting (internal)

Friday, 05.11.2021 08:30 – 14:30

08:25 – 08:30	Welcome (Birger Kollmeier)	
08:30 – 10:30	Research Thread IV: The Hearing Device of the future (Hohmann, Blume, Büchner)	
08:30 – 09:00	Yi Shen Machine-learning approach for individualized listener profiling	
09:00 – 09:30	Martin Kompis Bone conduction hearing aids: past, present and future	
09:30 – 10:30	Overview and Highlights from Research Thread IV (including Poster Overview)	N.N.
	Hendrik Kayser Advanced fitting for complex listening environments and development of a biosensor-based closed-loop hearing device with a portable re-search platform	
	Marvin Tammen , Henri Gode , Tom Gajecki , Waldo Nogueira Vazquez Clarity Machine-Learning Challenge	
	Marcos Cantu Speech Enhancement Processing with an Eyeglass-Integrated Microphone Array	
10:30 – 10:50	Coffee Break	
10:50 – 11:20	Poster Session IV	
11:20 – 14:20	Research Thread III: Auditory precision medicine: research-based novel intervention methods (Lenarz, Kollmeier, Behrens)	
11:20 – 12:20	Overview and Highlights from Research Thread III (including Poster Overview)	N.N.
	Peter Behrens Mentoring Neurites: Steps on the Way to a Neuronal Guidance Scaffold for the Inner Ear	
	Eugen Kludt Using Electrocochleography and Fluoroscopy during Cochlear Implantation	
	Samira Saak Clinical profiling of audiological patients	
12:20 – 13:20	Lunch Break	
13:20 – 13:50	Daniel Lee Microstructured thin-film electrode technology enables proof-of-concept of scalable, soft auditory brainstem implants	
13:50 – 14:20	David Moore Relation between hearing and cognition revealed by big and not-so-big data approaches	
14:20 – 14:30	Farewell and closing remarks (Birger Kollmeier, Thomas Lenarz)	
14:30	End of Official Part of the Symposium	
15:15 – 17:30	25th anniversary of Hörzentrum Oldenburg The anniversary event at the Hörzentrum Oldenburg will be broadcast live to the Hearing4all Symposium.	

