

8th International Conference on Auditory Cortex



Maastricht September 14th-18th.

Crowne Plaza Hotel
Ruiterij 1, 6221 EW Maastricht, The Netherlands

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About ICAC

The 8th International Conference on Auditory Cortex (ICAC) will bring together around 300 diverse researchers from backgrounds, all sharing a common interest in the auditory system. The meeting will take place On from September 14-18, 2025, in Maastricht, The Netherlands, and will serve as a platform for presenting and discussing the latest discoveries in hearing research and auditory cortex function. The program will include four keynote lectures, 18 invited presentations, 15 trainee talks (by graduate students and postdoctoral fellows selected from submitted abstracts), as well as poster sessions.

The ICAC is distinguished by its breadth of research topics, its focus on cutting-edge science, the close interaction between researchers at all career stages and from different disciplines and regions, its intimate scale, and the extended discussion time that allows for meaningful scientific exchange. These characteristics reflect both the traditions of the ICAC and the collaborative culture of the auditory research field.

The **clinical importance** of auditory research will also be emphasized through presentations that address the mechanisms underlying human auditory disorders and translational approaches aimed at treating them.

The **2025 ICAC** in **Maastricht** continues the conference's tradition of providing a unique and stimulating environment for advancing auditory cortex research, following the success of the 7th ICAC in Magdeburg.

Our Goal

The goal of the 8th ICAC is to advance our understanding of the neural and cognitive mechanisms underlying auditory perception and cognition, and to translate this knowledge toward mitigating hearing disorders. The conference aims to bring together researchers in auditory physiology, cognitive auditory science, and clinical research, spanning both human and animal models, while also exploring emerging connections between auditory processing and artificial intelligence. A central objective of ICAC is to foster an open and inclusive environment that encourages exchange across disciplines, methodologies, and career stages.



Welcome

to the 8th International Conference on Auditory Cortex

Dear colleagues,

It is with great enthusiasm that we welcome you to Maastricht for the 8th International Conference on Auditory Cortex. Over the past two decades, ICAC has developed into a key meeting point for researchers dedicated to understanding the auditory cortex, from its cellular foundations to its role in complex behavior and clinical disorders. We are honored to continue this tradition here in the Netherlands.

This year's program showcases the breadth of approaches and perspectives that make our community so dynamic. Through thematic sessions, oral presentations, and posters, researchers from around the world will share new discoveries and insights that push the field forward. We are particularly pleased that a selection of these contributions will be featured in a forthcoming Special Issue of *Hearing Research*, extending the impact of the meeting well beyond Maastricht.

The success of this program is the result of the creativity and hard work of our Local Organizing Committee, Scientific Program Committee, and the many scientists who submitted their research. We also extend our gratitude to our sponsors and funders, whose generous support has enabled the conference and travel awards for trainees and early-career researchers, which is an investment in the future of auditory neuroscience.

Outside the conference sessions, we invite you to experience the unique atmosphere of Maastricht. With its rich cultural heritage, riverside views, and welcoming cafés, the city offers an inspiring backdrop for both scientific dialogue and informal exchange. We hope you will find time to enjoy these surroundings while connecting with colleagues old and new.

We look forward to a stimulating and memorable week of science, discussion, and community. Thank you for joining us and for contributing to the success of ICAC 2025.

With warm regards, Michelle Moerel and Lars Riecke Conference Co-Chairs

ICAC Leadership

Local Organizing chairs

Michelle Moerel (chair), *Maastricht University* Lars Riecke (co-chair), *Maastricht University*

Local Organizing Committee

Sonja Kotz, Maastricht University
Sanne ten Oever, Maastricht University
Elia Formisano, Maastricht University
Michael Schwartze, Maastricht University
Lars Hausfeld, Maastricht University
Fren Smulders, Maastricht University
Federico De Martino, Maastricht University
Giancarlo Valente, Maastricht University

Scientific Program Committee

Kasia Bieszscad, Rutgers University (USA) Jennifer Bizley, University College London, (UK) Michael Brosch, Leibniz-Institut für Neurobiologie (Germany)

Nai Ding, Zhejiang University (China)
Mounya Elhilali, Johns Hopkins University (USA)
Jonathan Fritz, New York University (USA)
Lori Holt, The University of Texas at Austin (USA)
Steve Lomber, McGill University (Canada)
Eli Nelken, Hebrew University (Israel)
Shihab Shamma, University of Maryland (USA)

A brief History

Of the International Conference on Auditory Cortex

The idea for the International Conference on Auditory Cortex (ICAC) originated in 2002, when Henning Scheich (May 12, 1942 – May 30, 2025), founding director of the Leibniz Institute for Neurobiology in Magdeburg, proposed uniting scientists studying the auditory cortex in humans and animals. His vision was to foster exchange across methods and disciplines—bridging noninvasive human studies (fMRI, EEG, MEG) with invasive anatomical and physiological work in animal models. This concept resonated widely, and in 2003 the first ICAC took place in Magdeburg with over 200 participants. Its subtitle, *Towards a Synthesis of Human and Animal Research*, set the tone for the series, which combined excellent science with lively discussion and close interaction.

Since then, the ICAC has grown into a leading forum for advancing the investigation of the auditory system, from its cellular foundations to its role in complex behavior and clinical disorders. Meetings in Magdeburg, Nottingham, Lausanne, Banff have continued to highlight the integration of human and animal research, the exploration of auditory coding and plasticity, the study of speech, music, and cognition and advances in the understanding of aberrant auditory processing. Each conference has introduced new themes—from computational principles to multisensory processing and clinical applications—while maintaining its core mission of **bringing together diverse approaches to understand auditory perception and cognition**.

Now in its 8th edition, the ICAC continues this tradition by providing a unique, collaborative, and inclusive environment for researchers from around the world.

General Conference Information

Venue

Crowne Plaza Hotel Ruiterij 1, 6221 EW Maastricht, The Netherlands

Registration

Registration for the conference includes admission to all sessions, the Welcome Reception, lunch and daily coffee breaks during the conference, the Conference Dinner, the Conference Party, all Poster Sessions and the Wednesday social activity.

Name Badges

Your name badge is your admission ticket to the conference sessions, coffee breaks, meals and special events. **Please wear it at all times.** *ICAC Staff will be identified by t-shirts.*

Dress Code

Dress is casual for all ICAC meetings and social events.

Information Desk Hours

The Registration and Information Desk, located at the Crowne Plaza Hotel entry floor will have the following dates and times:

Sunday	Sept 14	16:00 - 19:00
Monday	Sept 15	09:00 - 17:30
Tuesday	Sept 16	09:00 - 17:30
Wednesday	Sept 17	09:00 - 13:30
Thursday	Sept 18	09:00 - 17:30

Speaker Information

A laptop (OS: Windows 11) will be available for all presenters, together with a pointer. All presenters are recommended to bring their slides on a USB stick, preferably the morning (8:00-8:45) or in the break immediately preceding their session.

For those speakers that prefer to use their own laptop (e.g. MacOS), we recommend bringing your own connector (HDMI).

Electronic Posters

We will publish all posters on a public repository (e.g. Zenodo). If you want your poster to be in the collection, please send a (link to) pdf to: icac2025@maastrichtuniversity.nl with the object of the email: Poster ICAC2025.

Poster Information

Poster presentations have been divided into 3 sessions. The poster room is on Level -1 of the Crowne Plaza hotel. Posters will be available to view on their assigned poster session and have to be removed by the presenter before the next session. Poster that are not removed the morning after the poster session will be removed by the staff and kept. Poster unclaimed at the end of the conference will be disposed of.

Pins for setting up posters are available on the poster boards, and should be left on poster boards for the next presenter.

Poster Session 1

Monday, Sept 15 13:30 – 15:30

Setup

08:00 – 13:30

Removal

15:30 – 22:00

Poster Session 2

Tuesday, Sept 16 13:30 – 15:30 Setup 08:00 – 13:30 Removal 15:30 – 22:00

Poster Session 3

Thursday, Sept 18 13:30 – 15:30

Setup

08:00 – 13:30

Removal

Information on Poster

Authors (Lead), Poster Numbers, and Poster Titles begins on page 14.

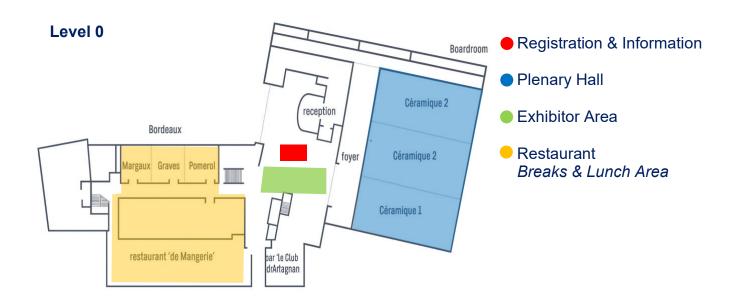
15:30 - 22:00

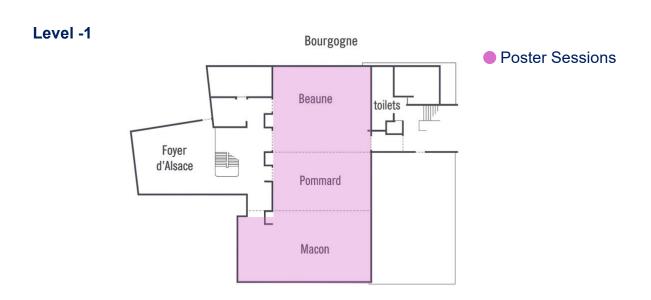
For a complete copy of all the poster abstracts, please visit the ICAC website, where you can download an electronic copy of the abstract book.

Internet Services

ICAC attendees have access to complimentary WI-FI while at Crowne Plaza. Simply connect to the network called IHG ONE REWARDS and

Crowne Plaza Hotel Floor Plan





ICAC Wednesday Socials



Boat and cave tour

Combine a boat trip on the Maas with an unforgettable visit to the **Zonneberg Caves**. After cruising along the river, you'll disembark at the Sint Pietersberg for a guided tour of the caves. The Zonneberg Caves feature an extensive network of approximately 80 kilometers of tunnels. An experienced guide will take you underground to explore this fascinating and unique site.



Maastricht city tour (by foot)

Discover the heart of Maastricht through a guided walking tour. Along the journey, you'll visit iconic landmarks such as the Vrijthof and other historic squares, the modern Mosae Forum, and the beautiful city park. As you ride, enjoy fascinating insights into Maastricht's rich history.



Apostelhoeve vineyard

The **Apostelhoeve** is the oldest winery in the Netherlands. You will start with a guided tour that includes visits to the vineyard, press house, and wine cellars, followed by a wine tasting of Apostelhoeve wines.

Special Events

Welcome reception

Join us to start the ICAC at the Welcome Reception on Sunday evening! Connect with fellow attendees and enjoy some bites and drinks. Whether you're reconnecting with old colleagues or making new connections, this is the perfect way to start your conference. Don't miss this chance to network, relax, and get excited for what's ahead, right at the conference!



Conference dinner

memorable Conference Join for us **Dinner** on **Tuesday** evening at the Sint Janskerk, a stunning Gothic church in the heart of Maastricht's city center, facing the Vrijthof. This magnificent venue, rich in architectural and cultural significance, provides a unique and breathtaking setting for an unforgettable evening. Savor a delightful meal on Tuesday evening in a historic atmosphere while enjoying company.



Conference party

What's ICAC without a great party? Join us for an unforgettable Wednesday night of music and dancing at Muziekgieterij, a vibrant venue in the heart of Maastricht! Whether you want to hit the dance floor or just enjoy the atmosphere, we make sure to celebrate the final evening of the conference. Don't miss out on a night of fun, music, and great company!

Group Photo

Wednesday, Sept 17 12.30 – 12.45 The meeting point for the photo will be the Crowne Plaza hotel.

Keynote Speakers

Monday September 15th 9:15 – 10:15

Patrick Kanold

Professor of Biomedical Engineering and Neuroscience John Hopkins University, USA

Learning how to hear: The Influence of Early Sensory Experience and Action on Early Cortical Circuits

Our research aims to understand how experiences and interactions with the world shape the brain. Since hearing is a crucial sense for communication in both humans and animals, we focus on the auditory system. We investigate how sensory representations in the auditory cortex evolve over time and how they are influenced by experience, utilizing in vivo and in vitro imaging and electrophysiological methods. Recent studies from our lab have uncovered insights into the early development and experience-driven plasticity of the auditory cortex.

The brain's ability to process sounds is established during early development, refined through experience during a "critical period," and further shaped by lifelong learning. Our findings reveal that the early developing cortex contains specialized circuits formed by subplate neurons. These circuits provide an early foundation for experience-dependent changes, even before the traditional "critical period."

Our results suggest that both sensory experiences and self-generated actions during early development, before the critical period, can have influences on brain function. Our current research focuses on unraveling the complex nature of these early life experiences and their long-term impact on auditory processing.

Tuesday September 16th 9:00 - 10:00

Jennifer Bizley

Professor of Auditory Neuroscience Ear Institute, University College London, UK

What has neurophysiology taught us about how auditory cortex parses auditory scenes?

Auditory scene analysis is the process through which the mixture of sounds arriving at ears is organised into a perceptual representation in the brain. While decades of behavioural work have provided insights into the properties of sound that facilitate scene analysis, our understanding of the underlying neural mechanisms remains limited. A key element of auditory scene analysis is the ability to extract temporal structure that unfolds over time. This exists on multiple timescales; for example, we extract short-term statistical regularities, link together individual speech sounds based on pitch continuity or their timbre, and even integrate information from other sensory and motor systems to build stable representations which can ultimately guide behaviour.

The auditory cortex is uniquely sited to be play a fundamental role in this process; cells here integrate across frequency and time, are sensitive to context, combine auditory and non-auditory information, and are highly connected to a host of other brain regions. Electrophysiology provides us with the temporal and spatial resolution to understand how neural circuits support auditory scene analysis, but must ideally be combined with behavioural tasks that appropriately engage scene analysis mechanisms. In this talk I will describe some of our attempts to better understand auditory scene analysis across multiple time scales and sound features, considering both spatial and non-spatial representations.

Wednesday September 17th 9:00 – 10:00

Ione Fine

Professor

University of Washington, USA & University of Leeds,

I can hear what you see: The effects of visual deprivation on auditory processing

Almost one-quarter of the brain is normally devoted to processing visual information: reading text, recognizing faces, following the Sunday football match, and much more. In congenitally blind individuals, much of the 'visual' cortex responds strongly to auditory and tactile input rather than to visual stimuli, a phenomenon known as cross-modal plasticity.

Here I will discuss what our laboratory has discovered about the representation of auditory motion perception in early blind individuals, and what this reveals about the plasticity of the human brain.

Thursday September 18th 9:00 – 10:00

Erich Schroeger

Professor for Cognitive including Biological Psychology Wilhelm Wundt Institute for Psychology, Leipzig University, Germany

On the impact of action on auditory processing

Brain responses to sound are modulated by endogenous factors like attention and musical expertise. This presentation focuses on how intentional action influences auditory processing, examining three scenarios involving self-generated sounds:

1. Suppression Studies: Self-generated sounds attenuate auditory ERPs (N1, P2) compared to externally generated sounds.

- 2. Omission Studies: Unexpected omission of action-contingent sounds elicits an omission N1 (oN1), demonstrating that silence can evoke sensory ERPs when sound is predicted. The oN1 is presumably generated in auditory cortex, though it's topography slightly differs from the sound-related N1.
- 3. Active Oddball Studies: Sounds violating an established physical regularity (deviants) elicit prediction error signals such as the Mismatch Negativity (MMN). When listeners intentionally produce sounds, physically regular (standard) sounds can elicit prediction errors if they mismatch action goals. Vice versa, physically irregular sounds fail to elicit prediction errors if they match action goals.

These findings demonstrating the impact of action on sound processing are compatible with several theories. Motor-to-sensory forward models (efference copy, e.g. von Holst & Mittelstaedt 1950; corollary discharge, e.g., Sperry 1950) state that the predicted consequences of the motor command are sent forward in order to inform the sensory areas about a forthcoming sensory change, which in turn, can be considered by the sensory areas. Also the more general predictive coding theory (e.g. Friston 2021) explains these results quite well. In contrast, however, ideomotor-theory based action selection models (GOALIATH, Hommel 2022); IDEONAMIC, Vogel-Blaschka et al. 2024) can explain the results without recurrence to predictive processes. According to these models, the selection of the action is governed by the action goal. Thus the intended outcome of the action, precedes the selection and execution of the action and no separate prediction mechanism is required for comparing the sensory outcome of the action with the action goal. An extension of the auditory event representation system (AERS) model (Winkler & Schröger 2015) by Korka et al. (2021) is able to integrate predictive and non-predictive comparator models. AERS originally describes the formation of auditory event representations (corresponding to the percepts) as the results of an iterative process of aligning a predictive sensory model (housed in auditory cortex) of what we already know about the acoustic world with the (preperceptual) auditory sensory representation driven by the current auditory input. So, in AERS the predictions are derived from a model within the auditory system. According to the extended AERS the predictive auditory model can receive its information not only via bottom-up auditory input, but also via top-down input from nonauditory modules such as the action system. This topdown input must not necessarily be predictive in nature.

Invited Speakers

Ryszard Auksztulewicz (Maastricht University, The Netherlands)

Deniz Baskent (University of Groningen, The Netherlands)

Yves Boubenec (PSL Research University, France)

Emily Coffey (Concordia University, Canada)

Frederic Dick (UCL, United Kingdom)

Yi Du (Chinese Academy of Sciences, China)

Jean-Marc Edeline (Paris-Saclay Institute of Neuroscience, France)

Bernhard Englitz (Donders Institute for Brain Cognition and Behaviour, The Netherlands)

Bruno Giordano (Institut de Neurosciences de la Timone, France)

Nori Jacobi (Cornell University, United States of America)

Yukiko Kikuchi (Newcastle University, United Kingdom)

Kishore Kuchibhotla (John Hopkins University, United States of America)

Huan Luo (Peking University, China)

Malinda McPherson (Purdue University, United States of America)

Michelle Moerel (Maastricht University, The Netherlands)

Jennifer Resnik (Ben Gurion University, Israel)

Kerry Walker (University of Oxford, United Kingdom)

Ross Williamson (University of Pittsburgh, United States of America)

ICAC 2025 Detailed Daily Program

Sunday September 14th

16:00 – 19:00 **Registration**

19:00 – 20:30 Welcome Reception

Monday September 15th

09:00 – 09:15 Opening Remarks

Session 1 Chair: Kasia Bieszscad, Federico De Martino

- 09:15 10:15 **Keynote: Patrick Kanold –** Learning how to hear: The Influence of Early Sensory Experience and Action on Early Cortical Circuits. (ID 318)
- 10:15 10:30 In Memory of Henning Scheich
- 10:30 11:00 Coffee Break.
- 11:00 11:30 **Invited Speaker: Ross Williamson –** *Brain-wide Neural Circuits for Sensory-Guided Behavior (ID 125).*
- 11:30 12:00 **Invited Speaker: Jean-Marc Edeline –** *Is auditory cortex necessary for the discrimination of communication sounds in noise? (ID 239)*
- 12:00 12:30 **Invited Speaker: Jennifer Resnik –** Repeated stress gradually impairs auditory processing and perception. (ID 109)
- 12:30 13:30 Lunch.
- 13:30 15:30 **Poster Session 1**

<u>Session 2 (sponsored by Eriksholm)</u> Chair: Michael Brosch, Sanne ten Oever

15:30 – 16:00 Selected Poster Presentations

Diya Yi – Global cortical dynamics during vocal communication in common marmosets (Callithrix jacchus). (ID 238)

Chen Lu – Distinct auditory temporal processing deficits contributed by hearing loss and genetic risk for schizophrenia in the Df1/+ mouse. (ID 254)

Rebekah E. Gilliland – High density electrophysiological recordings from the medial voice-patch in marmoset auditory cortex. (ID 304)

- 16:00 16:30 **Invited Speaker: Yi Du –** The Role of Motor Simulation and Entrainment in Speech and Music Perception. (ID 323)
- 16:30 17:00 **Invited Speaker: Emily Coffey –** Periodicity encoding and entrainment across auditory and vibrotactile senses in the human cortex. (ID 320)
- 17.00 17.30 **Invited Speaker: Huan Luo –** Beyond Chunking: Hierarchical Folding in Auditory Working Memory. (ID 315)

Tuesday September 16th

Session 1 Chair: Jonathan Fritz, Lars Hausfeld

- 09:00 10:00 **Keynote: Jennifer Bizley –** What has neurophysiology taught us about how auditory cortex parses auditory scenes? (ID 317)
- 10:00 10:30 **Invited Speaker: Bruno Giordano –** The perceptual and cerebral representation of natural sounds. (ID 298)
- 10:30 11:00 Coffee Break.
- 11:00 11:30 Selected Poster Presentations

Takahiro Noda – Representational maps in the auditory cortex. (ID 172)

Dana Boebinger – Rapid and dynamic construction of acoustically invariant speech representations in the human auditory cortex. (ID 221)

Tommaso Zeppillo – Intensity-tuned neurons in the primary auditory cortex are critical for processing complex sounds. (ID 279)

- 11:30 12:00 **Invited Speaker: Kishore Kuchibhotla –** *The neural basis of flexible auditory learning. (ID 316)*
- 12:00 12:30 **Invited Speaker: Yukiko Kikuchi –** *Targeted neuromodulation of fronto-temporal circuits via auditory stimulation in nonhuman primate models. (ID 251)*
- 12:30 13:30 Lunch.
- 13:30 15:30 **Poster Session 2.**

Session 2 Chair: Lori Holt, Michael Schwartze

15:30 – 16:00 **Selected Poster Presentations**

Jan J. Hirtz – Auditory learning modulates sound and choice selectivity of layer 5 corticocollicular neurons. (ID 211)

Tyler Perrachione – Structural variation in human auditory cortex gyrification revealed by data-driven curvature-based clustering. (ID 306)

Estelle E in 't Zandt – Categorical encoding of gerbil vocalizations by auditory cortex populations. (ID 310)

- 16:00 16:30 **Invited Speaker: Malinda McPherson –** *Pitch representations are richer and more diverse than previously though. (ID 148)*
- 16:30 17:00 **Invited Speaker: Frederic Dick –** Active interaction shapes auditory perception and representation. (ID 308)
- 17.00 17.30 **Invited Speaker: Nori Jacobi –** *Mapping cross-cultural internal-representations in music. (ID 321)*
- 18:30 22:00 Conference Dinner Sint Janskerk.

Wednesday September 17th

Session 1 Chair: Steve Lomber, Sonja Kotz

- 09:00 10:00 **Keynote: lone Fine –** *I can hear what you see: The effects of visual deprivation on auditory processing. (ID 319)*
- 10:00 10:30 **Invited Speaker: Bernhard Englitz –** The representation of omitted sounds in the mouse auditory cortex. (ID 157)
- 10:30 11:00 Coffee Break.
- 11:00 11:30 Selected Poster Presentations

James Alexander Taylor – Cortical implants enhance hearing restoration and mimic natural auditory processing more closely than cochlear implants. (ID 114)

Marco Barillari – When visual areas become auditory areas: ultra-high-field fMRI (7T) reveals layer-dependent feedforward auditory motion processing in the hMT+/V5 of blind people. (ID 226)

Irene Onorato - Role of cortical and subcortical regions in detection of sound statistics. (ID 277)

- 11:30 12:00 **Invited Speaker: Deniz Baskent –** Auditory development of voice cue and vocal emotion perception in school-aged children with or without hearing devices. (ID 314)
- 12:00 12:30 **Invited Speaker: Michelle Moerel –** *Probing the role of the human corticothalamic circuitry in auditory attention. (ID 244)*
- 12:30 12:45 Conference photo.
- 12:45 13:30 Lunch.
- 13:30 18:00 Social Activity.
- 20:00 24:00 Conference Party Muziekgieterij.

Thursday September 18th

Session 1 Chair: Eli Nelken, Lars Riecke

- 09:00 10:00 **Keynote: Erich Schroeger –** On the impact of action on auditory processing. (ID 322)
- 10:00 10:30 Invited Speaker: Kerry Walker Cortical representations of pitch for effective real-world listening. (ID 143)
- 10:30 11:00 Coffee Break.
- 11:00 11:30 Selected Poster Presentations

Ying Huang – Match suppression in auditory and prefrontal cortices of monkeys during working memory readout. (ID 220)

Jorie van Haren – Dissociating Contributions of Expectation and Repetition Suppression Using High-Field fMRI and MEG. (ID 111)

Steven J. Eliades – Role of Auditory Cortex in Vocal Control (ID 140)

11:30 – 12:00 **Invited Speaker: Ryszard Auksztulewicz –** Auditory prediction and memory in context. (ID 151)

- 12:00 12:30 **Invited Speaker: Yves Boubenec –** Temporal integration in the auditory cortex across across cortical areas and vigilance levels. (ID 262)
- 12:30 13:30 Lunch.
- 13:30 15:30 **Poster Session 3.**
- 15:30 16:30 Thematic Discussion Chair: Shihab Shamma, Elia Formisano
 How Al Can Drive Progress in Auditory Neuroscience

16:30 - 17:30 Awards Announcements & Closing remarks.

Travel Award Recipients

The following delegates received travel awards to attend the International Conference on Auditory Cortex. These awards were made possible among others through generous donation by the National Institute on Deafness and Other Communication Disorders of the U.S. National Institutes of Health.

Tommaso Zeppillo, Department of Biomedicine, University of Basel, Switzerland

Nathan A. Schneider, Department of Otolaryngology, University of Pittsburgh, USA

Diya Yi, Academy for Advanced Interdisciplinary Studies, Peking University, China

Estelle E. in t' Zandt, New York University, USA

Veronica M. Tarka, Department of Physiology, Anatomy and Genetics, University of Oxford, UK

Stefan Zigic, University College of London, UK

Chen Lu, Ear Institute, University College London, London, UK

John O'Doherty, Trinity College, Ireland

Rabekah E. Gilliland, University of Western Ontario, Canada

Akhil Bandreddi, University of Rochester, USA

Su Jin Kim, Department of Psychological and Brain Sciences, Johns Hopkins University, USA

Poster Author Index

For the extended abstracts please refer to the abstract booklet using the corresponding Abstract ID.

Abstract ID	Authors	Title	Day	Poster ID
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102	Frühholz, Sascha Staib, Matthias	Voice-sensitivity in auditory cortex is based on acoustic pattern decoding	Monday	2
103	Bader, Maysan Deuoell, Leon Nelken, Israel	When do we hear?	Monday	3
104	Seiler, Johannes Cazzetta, Giuseppe Noda, Takahiro Rumpel, Simon	Representational geometry of pulsed sound stimuli in the auditory cortex explains perceptual decision-making in mice	Monday	4
105	Zaltz, Yael Bracha, Stav	Tracking Auditory Plasticity: fNIRS Insights into Rapid Neural Reorganization Following Brief Auditory Training	Monday	5
106	Jehn, Constantin Vavatzanidis, Niki Katerina Hahne, Anja Reichenbach, Tobias	Divergent Cortical Speech Tracking at the Cocktail Party: Preserved in Hearing Aid Users, Impaired in Cochlear Implant Users	Monday	6
107	Sotero Silva, Nancy Kayser, Christoph Bröhl, Felix	Relation of eye movement-related eardrum oscillations (EMREOs) amplitude and time course with saccade direction and tympanometric measurements	Monday	7
108	Shujah, Maria Barkat, Tania Rinaldi	Curriculum Learning: sequential acquisition of task complexity enhances neuronal discriminability	Monday	8
110	Steinebach, Janna Reichenbach, Tobias	Attentional Modulation of Otoacoustic Emissions Evoked by Speech-Derived Stimuli: Examining the Role of Resolved and Unresolved Harmonics	Monday	9
111	van Haren, Jorie Kotz, Sonja de Lange, Floris De Martino, Federico	Dissociating Contributions of Expectation and Repetition Suppression Using High-Field fMRI and MEG.	Monday	10
112	Zou, Alexis Wingert, Jereme C. David, Stephen V.	Topography of binaural spectro- temporal tuning in primary auditory cortex	Monday	11

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114	Taylor, James Alexander Jovanovic, Natasa Navntoft, Charlotte Albon, Amelie Rezaei-Mazinani, Shahab Batthelier, Brice Rinaldi Barkat, Tania	Cortical implants enhance hearing restoration and mimic natural auditory processing more closely than cochlear implants	Monday	13
115	Souffi, Samira Nelken, Israel	Early music exposure affects neural activity in the ventral tegmental area (VTA)	Monday	14
116	Levinton, Felicie Boubenec, Yves Shamma, Shihab Feral, Flavien	Action and Perception in the context of a sensorimotor task in the ferret	Monday	15
117	Phokhinanan, Waradon Nordmark, Jonatan Shamma, Shihab Boubenec, Yves	Task engagement modulates spatial coding in the ferret auditory cortex	Monday	16
118	Brechmann, André Stadler, Jörg Angenstein, Nicole Lommerzheim, Marcel Wolff, Susann	Towards real-time policy inference in multidimensional auditory category learning	Monday	17
119	Enan, Mahdi Castellanos, Agustin Lage Auksztulewicz, Ryszard Martino, Federico De	The Laminar Patterns of Predicting Content in Learned Audio-Visual Associations	Monday	18
120	Gouyette, Hortense Sabat, Magdalena Goriachenkov, Arsenii Orhan, Pierre Norman-Haignere, Sam V Boubenec, Yves	Influence of vigilance states on neuronal integration windows in the ferret auditory cortex	Monday	19
121	Kamacioglu, Altug Vargas, Pamela Osuna Aschauer, Dominik Kaschube, Matthias Rumpel, Simon	Imaging collective synaptic dynamics in the mouse auditory cortex during learning	Monday	20

122	Buck, Alexa Dupont, Typhaine Andrews Cavanagh, Rupert Postal, Olivier Bourien, Jérôme Michalski, Nicolas Gourevitch, Boris	The reliability of neural response as a marker of the transition of neural codes along auditory pathways	Monday	21
123	Martin, Mathilde Boubenec, Yves	Sound-evoked facial motion in ferrets: behavioral responses to natural and artificial sounds	Monday	22
124	Baram, Netta Sapir, Hila Bisharat, Ghattas Resnik, Jennifer	Altered Auditory Cortex Neuronal Dynamics in ASD modeled mice: Implications for Auditory Hypersensitivity	Monday	23
126	Fernandez Pujol, Carolina Blundon, Elizabeth Dykstra, Andrew R.	Laminar specificity of the auditory perceptual awareness negativity: a biophysical modeling study	Monday	24
127	Kazibrodskis, Ričards Kousa, Moussa Tafech, Issam Ibrahim, Omar Besle, Julien	Does frequency magnification in primary auditory cortex predict individual frequency hyperacuity thresholds?	Monday	25
128	Norman-Haignere, Sam Keshishian, Menoua Devinsky, Orrin Doyle, Werner McKhann, Guy Schevon, Catherine Flinker, Adeen Mesgarani, Nima	Temporal integration in human auditory cortex is predominantly yoked to absolute time, not structure duration	Monday	26
129	Lomber, Stephen G. Cornwell, Paul	A HIERARCHICALLY ORGANIZED SOUND DISCRIMINATION PATHWAY IN AUDITORY CORTEX	Monday	27
324	Roswandowitz, Claudia Mahner, Florian Hebart, Martin Dellwo, Volker	Core dimensions of the perceptually relevant voice-identity space	Monday	28
131	Zhou, Xiaoyue Wang, Muzhi Fan, Ying Luo, Huan	Higher-Order Network Structures mediate Neural Responses to Tone Sequences	Monday	29
132	Melikyan, Arev Aksel Dahmen, Johannes Willmore, Ben King, Andrew Walker, Kerry	Spectrotemporal receptive fields of auditory cortical responses measured with 2-photon calcium imaging	Monday	30

133	Lopez-Madrona, Victor J. Giroud, Jeremy Mercier, Manuel Giordano, Bruno Trebuchon, Agnes Poeppel, David Morillon, Benjamin	Theta and gamma rhythms in the human auditory cortex are evoked by speech	Monday	31
134	Schorscher-Petcu, Ara Saenz, Mauricio Benamer, Najate Safieddine, Saaid Barral, Jérémie	Effects of gene therapy on central auditory processing in a mouse model of congenital DFNB9 deafness	Monday	32
135	Sterckx, Brent Moonen, Marc Wouters, Jan	Investigating the relation between temporal envelope modulations and speech perception	Monday	33
136	Skriabine, Sophie De Launoit, Elisa Méchaussier, Sabrina Pérès, Etienne Jean, Philippe Dupont, Typhaine Pommé, Rémi Rajot, Domitille Doumazane, Etienne Rousseau, Charly Lecomte, Marie- José Lahlou, Ghizlene Safieddine, Saaid Michalski, Nicolas Renier, Nicolas	Vascular plasticity of hte auditory cortex in health and disease	Monday	34
137	Xing, Lidongsheng Formisano, Elia Riecke, Lars	Deep Sound Synthesis Reveals Novel Category-Defining Sound Features in the Human Auditory Cortex	Monday	35
138	MacIntyre, Alexis Deighton Goehring, Tobias Davis, Matt	Tracking of Acoustic and Linguistic Speech Features by the Brain	Monday	36
139	Puffay, Corentin Mischler Moore, Gavin Choudhari, Vishal Vanthornhout, Jonas Antonello, Richard Dindar, Sukru Samet Van hamme, Hugo Francart, Tom Mesgarani, Nima	Large Language Models Embeddings as Predictors of Electrocorticography Responses in a Multi-Talker Attention Paradigm	Monday	37

140	Eliades, Steven J Tsunada, Joji	Role of Auditory Cortex in Vocal Control	Monday	38
141	Thornton, Mike Varano, Enrico Kolossa, Dorothea Zeiler, Steffen Reichenbach, Tobias	Speech-in-noise enhancement through natural and simplified facial movements is linked to the cortical tracking of speech in the delta band	Monday	39
142	Thioux, Marc de Kleine, Emile Pyott, Sonja J. Willemsen, Antoon de Vries, Erik van Dijk, Pim	GABA receptor binding in tinnitus: a PET study in humans	Monday	40
144	Kolken, Ylka Li, Chengran Auksztulewicz, Ryszard de Weerd, Peter van de Ven, Vincent Bianco, Roberta Chait, Maria de Martino, Federico	Neural correlates of implicit memory for repeated regular sound patterns	Monday	41
145	Saliën, Ellen Benrubi, Ugo Calcus, Axelle	Does puberty influence auditory and audiovisual processing of speech?	Monday	42
146	Dor, Lior Bisharat, Ghattas Resnik, Jennifer	How Acute Stress Modulates Neural Dynamics in the Auditory Cortex?	Monday	43
147	Merrikhi, Yaser Sacco, Alessandra Gordon, Stephen G. Lomber, Stephen G.	Network Control Theory Reveals Altered Energy Efficiency in the Deaf Brain	Monday	44
149	Zhu, Siyu Bao, Xiaohan Lomber, Stephen G.	Time Course of Cortical Plasticity Following Adult-Onset Deafness in Cats	Monday	45
150	Puschmann, Sebastian Karawani, Hanin Sandmann, Pascale Ruigendjik, Esther Thiel, Christiane	Neural and perceptual benefits of audiovisual speech in second-language learners	Monday	46

152	Kopel, Lars van Gastel, Evi Murphy, Peter van Gaal, Simon Suzuki, Mototaka de Gee, Jan Willem	Pupil-linked arousal tracks belief updating in dynamic auditory environment	Monday	47
328	Araújo Vitória, Maria Plegat, Marie Marinato, Giorgio Ferreyra, Christian Esposito, Michele Herff, Christian Giordano, Bruno Formisano, Elia	Acoustic-to-Semantic Transformation of Natural Sounds: The role of Frontal Areas	Monday	48
154	Stadler, Jörg Brechmann, André Angenstein, Nicole	Changes in auditory cortex activity in older and younger adults during training of listening tasks with different hemispheric involvement	Monday	49
325	Riegel, Jasmin Schüller, Alina Reichenbach, Tobias	Integration of auditory and visual stimuli in the auditory cortex	Monday	50
156	Benocci, Elena Alain, Claude Calcus, Axelle	Neural signatures of stream segregation: from childhood to adulthood	Monday	51
158	Lamekina, Yulia Panela, Ryan A. Herrmann, Björn	Event processing during listening: The relative contributions of discourse structure and prosody	Monday	52
159	Biçer, Ada Koelewijn, Thomas Başkent, Deniz	The Effect of Voice Training on Speech-on-Speech Intelligibility and Listening Effort in Cochlear Implant Users	Monday	53
160	Emmendorfer, Alexandra K Riecke, Lars Hausfeld, Lars	Cortical speech tracking is modulated by linguistic predictability	Monday	54
161	Esposito, Michele Valente, Giancarlo Giordano, Bruno L. Formisano, Elia	Modeling Auditory Cortical Processing: A Deep Learning Approach to Hierarchical Auditory Integration	Monday	55
162	Friedrich, Paul	Adaptation rate and persistence across multiple sets of spectral cues for sound localisation	Monday	56

163	Ambridge, Ellie Lalor, Edmund Sohoglu, Ediz	Neuronal Mechanisms Supporting the Perceptual Learning of Degraded Speech	Monday	57
164	Ou, Yongtian Kay, Kendrick Oxenham, Andrew	Using vowels to dissociate the representations of three distinct spectrotemporal features within and beyond human auditory cortex	Monday	58
331	Moore, Sharlen You, Travis Zhu, Ziyi Kuchibhotla, Kishore	The dynamics of auditory cortical astrocytes during sensorimotor learning	Monday	59
166	Pilaszanovich, Jakab Müller, Kirke Domini, Fulvio Schönwiesner, Marc	Rethinking JNDs: Evidence Against Signal Detection Theory in Sound Lateralisation	Monday	60
167	West, Dominic Mitchell, Jeff Forster, Sophie Sohoglu, Ediz	Neural tracking of phonetic predictability under varying attentional load	Monday	61
168	Carbajal Chavez, Ana Belen Smit, Maaike Gillis, Marlies Vandermosten, Maaike Ghesquière, Pol Wouters, Jan	Measuring neural synchronization to syllabic and phonemic speech envelopes using nested modulations	Monday	62
169	Dang, Thu Ngan Martin, Andrea E. Ten Oever, Sanne	Behavioral beta oscillations are visible for the categorization of Mandarin Chinese words manipulated in lexical tone and frequency	Monday	63
170	Neamaalkassis, Hakam Boubenec, Yves Fiebach, Christian J. Muralikrishnan, R. Tavano, Alessandro	The fundamental frequencies of our own voice	Monday	64
171	Tang, Zheyi Norris, Rebecca Hallou, Clem Town, Stephen Bizley, Jennifer	Tracking brain-wide projections to and from the ferret's non-primary auditory cortex	Monday	65

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172	Noda, Takahiro Aschauer, Dominik F Eppler, Jens- Bastian Kaschube, Matthias Loewenstein, Yonatan Rumpel, Simon	Representational maps in the auditory cortex	Monday	66
326	Washington, Stuart Shattuck, Kyle Steckel, Jan Peremans, Herbert Jonckers, Elisabeth Hinz, Rukun Venneman, Tom Van den Berg, Monica Van Ruijssevelt, Lisbeth Verellen, Thomas Pritchett, Dominique Scholliers, Jan Liang, Sayuan Von den Berg, Sönke Savoia, Stephen Mitra, Partha Lin, Stephen Wang, Paul Verhoye, Marleen Van der Linden, Annemie Esser, Karl-Heinz Keliris, Georgios	Chiropteran Neuroimaging: Structural and Functional Magnetic Resonance Imaging of the Pale Spear-Nosed Bat	Monday	67
174	Verwaerde, Elise David, Wouter Schott, Julian Gransier, Robin Wouters, Jan	Phase-locked neural responses to temporal modulations are associated with speech perception in CI users	Monday	68
175	Akkaya, Asena Winchester, Martin Bishop, Sonia Di Liberto, Giovanni	Characterizing the impact of emotional prosody on the neural processing of continuous speech	Monday	69
176	Winchester, Martin M. Di Liberto, Giovanni M.	Investigating neural predictive mechanisms during spontaneous speech production	Monday	70
177	Colak, Hasan Guo, Xiaoxuan Simon, Adèle Benzaquén, Ester Sedley, William Linden, Jennifer F. Griffiths, Timothy D.	Sound Offset Encoding is Related to Speech-in-Noise Perception at Sentence Level in Older Adults	Tuesday	1

178	Cooper, John Vanthornhout, Jonas van Wieringen, Astrid Francart, Tom Lamothe, Charly	Exploring Objective Measures of Audiovisual Benefit in Speech-in- Noise Using Modeled Inferior Colliculus Responses	Tuesday	3
	Bagur, Sophie Gosselin, Etienne Bathellier, Brice	highly informative in the auditory cortex.	·	
180	Muller, Allan Bagur, Sophie Bathellier, Brice	The geometry of cortical sound processing in slow wave sleep	Tuesday	4
181	Barchet, Alice Vivien Bruera, Andrea Wend, Jasmin Rimmele, Johanna M. Obleser, Jonas Hartwigsen, Gesa	Neural Signatures of Attentional Engagement Predict Speech Comprehension in Multitalker Environments	Tuesday	5
182	Michalek, Annika Wenk, Patricia Angenstein, Nicole Budinger, Eike	Effects of punishment on performance and auditory-evoked brain activation patterns in discrimination learning – an auditory fMRI study in the Mongolian gerbil	Tuesday	6
183	Plegat, Marie Marinato, Giorgio Ferreyra, Christian Araújo Vitória, Maria Esposito, Michele Schon, Daniele Formisano, Elia Giordano, Bruno	Temporal dynamics of natural sounds representation in the human brain	Tuesday	7
184	Errington, Steven P. Agayby, Beshoy Poirier, Colline Ayala, Yaneri A. Berger, Joel I. Griffiths, Timothy D. Petkov, Christopher I. Kikuchi, Yukiko	Neural encoding of identity and ordinal information during auditory sequences in the macaque frontotemporal cortex	Tuesday	8
185	Schneider, Nathan A. Malina, Michael Williamson, Ross S.	Deep-layer projection neurons develop representations of perceptual categories and behavioral choice	Tuesday	9

186	Woolgar, Emma Errington, Steven Slater, Benjamin Morris, Christopher Vuong, Quoc Constandinou, Timothy G Jackson, Andrew Kikuchi, Yukiko	Modulation of behavioural states in free-moving marmosets using emotionally salient acoustic stimuli	Tuesday	10
187	Zargarnezhad, Nima Johnsrude, Ingrid S	Naturalistic Stimulation Evokes Homotopic Functional Connectivity Patterns in the Auditory Cortices That Are Not Present in Resting State	Tuesday	11
188	Nourski, Kirill V. Steinschneider, Mitchell Rhone, Ariane E. Howard, Matthew A.	Transformation of Stimulus-driven into Behavior-driving Activity along the Cortical Auditory Pathways	Tuesday	12
189	Köse-Özkan, Büşra Wang, Weihua Bao, Shaowen	Differential activation of TNFR1 and TNFR2 in cortical parvalbumin-positive neurons following noise trauma	Tuesday	13
190	Solyga, Magdalena Keller, Georg	MULTIMODAL MISMATCH RESPONSES: a common phenomenon in mouse and human auditory cortex	Tuesday	14
191	Martin, Alexandra Motsch, Elise Chloé, Huetz Jean-marc, Edeline	The consequences of inactivating auditory cortex on behavioral discrimination performance in situations of acoustic degradations.	Tuesday	15
330	Peters, Janek Arends, Samuel Knoben, Andreas Englitz, Bernhard	Primary and secondary functional divisions of the mouse auditory cortex	Thursday	16
193	Ou, Yongtian Wolter, Mara Cantisani, Giorgia Norman-Haignere, Sam	Invasive and non-invasive human brain recordings to natural sounds are predictable from a shared subspace common across brain regions and participants	Tuesday	17
194	Ginzburg, Jérémie Cloutier Debaque, Émilie Borderie, Arthur Martineau, Laurence Lessard Bonaventure, Paule Zatorre, Robert J Albouy, Philippe	Decoding speech and music from intracranial recordings: evidence for domain-general representations of sound in the human brain	Tuesday	18

195	Berger, Joel I Kawasaki, Hiroto Banks, Matthew I Kumar, Sukhbinder Howard, Matthew A Nourski, Kirill V	Single neuron responses to simple sounds in human auditory cortex and insula during passive listening	Tuesday	19
196	Poole, Katarina C. Cappotto, Drew Martin, Vincent Sztandera, Jakub Chait, Maria Picinali, Lorenzo Shiell, Martha	Assessing Behavioral and Neural Correlates of Change Detection in Spatialized Acoustic Scenes	Tuesday	20
197	Tada, Mariko Suda, Yuki Uka, Takanori	Gamma-band auditory steady- state responses (ASSR) are altered differently in the frontal and temporal cortices in awake monkey	Tuesday	21
198	Schulz, Andreas L Lippert, Michael T Ohl, Frank W	Dopamine-Dependent Modulation of Auditory Evoked Potentials in the Striatum During Passive Sound Processing	Tuesday	22
199	Chen, Honghua Wang, Jing Gao, Jiaxin Ding, Nai	Adaptive Encoding of Temporal Intervals in Human Auditory Cortex	Tuesday	23
200	Wolpert, Max Austin Ding, Nai	Individual rhythms in solo and joint speech	Tuesday	24
201	Guilleminot, Pierre Hieu Morillon, Benjamin	Differential processing of predictive strength and dispersion in naturalistic speech	Tuesday	25
202	Lui, Troby Ka-Yan De Combles De Nayves, Victorina Cappe, Céline Zoefel, Benedikt	A phase-based mechanism of attentional selection in the auditory system	Tuesday	26
203	Billig, Alexander J Berger, Joel I McWalter, Richard Teichert, Tobias Garcia, Christopher M Kovach, Christopher K Petkov, Christopher I Kawasaki, Hiroto Howard, Matthew A McDermott, Josh H Griffiths, Timothy D	Neural bases of illusory acoustic texture perception	Tuesday	27

173	Benzaquén, Ester Dheerendra, Pradeep Griffiths, Timothy D. Kumar, Sukhbinder	Conditioned and social predictions of sound intensity and related aversiveness	Tuesday	28
205	Roulet, Margaux Fallegger, Florian Anschuetz, Lukas Lacour, Stéphanie Trouillet, Alix	Cortical Stimulation of the Auditory Cortex to Restore Hearing: Validation In-Vivo in Minipigs	Tuesday	29
206	Wang, Jing Liu, Wei Ding, Nai	Rhythm of speech, music, and other vocalizations	Tuesday	30
207	Galeano-Otálvaro, Juan-Daniel Francart, Tom Dieudonné, Benjamin Wouters, Jan	Neural responses of binaural hearing in simulated Cochlear Implant users	Tuesday	31
208	Fu, Xueying Riecke, Lars	Top-down attention modulates phase effects on audio-tactile processing	Tuesday	32
209	Manríquez, Rodrigo Kotz, Sonja A. Ravignani, Andrea de Boer, Bart	A spiking neural network for investigating auditory rhythm processing	Tuesday	33
210	Cavicchiolo, Francesca Gillis, Marlies Johnson, Joseph Francois Puertollano, Marta Prud'homme, Luna Wens, Vincent De Tiège, Xavier Calcus, Axelle	Puberty-related electrophysiological changes underlying speech perception in noise	Tuesday	34
211	Andrea, Kira M.A. Hirtz, Jan J.	Auditory learning modulates sound and choice selectivity of layer 5 corticocollicular neurons	Tuesday	35
212	Zigic, Stefan Khandhadia, Amit Aghili Kordmahale, Nadia Bizley, Jennifer	Neural Representations of Auditory Space During Sound Localisation	Tuesday	36
334	Nikolic Margan, Angela Kosec, Andro	Assessment of sensory integration in children with cochlear implants rehabilitated using the verbotonal method	Tuesday	37

214	Mares, Diana-Ioana Lenc, Tomas Barbero, Francesca M. Polak, Rainer Jacoby, Nori Nozaradan, Sylvie	Investigating culture-driven neural plasticity in rhythm categorization	Tuesday	38
215	Mohammadi, Yousef Billig, Alexander McWalter, Richard Callaghan, Martina Griffiths, Timothy	Auditory Cortex Representation of Naturalness in Sound Textures	Tuesday	39
216	Alavash, Mohsen Catena, Riccardo Herrmann, Björn Obleser, Jonas	Gradients of neural excitation- inhibition ratio across areas of human auditory cortex	Tuesday	40
217	Contadini-Wright, Claudia Chait, Maria	Quantifying Sustained Attention and Susceptibility to Distraction using EEG and Eyetracking	Tuesday	41
218	Smit, Maaike Carbajal Chavez, Ana B. Gillis, Marlies Vandermosten, Maaike Ghesquière, Pol Wouters, Jan	The Effect of Masker Type on Neural Tracking of Continuous Speech in Noise	Tuesday	42
219	Huang, Ying Brosch, Michael	Persistent neuronal activity in auditory and prefrontal cortices is related to working memory in monkeys	Tuesday	43
220	Huang, Ying Brosch, Michael	Match suppression in auditory and prefrontal cortices of monkeys during working memory readout	Tuesday	44
221	Boebinger, Dana Skrill, David Liao, Guoyang Nourski, Kirill V. Howard, Matthew A. Garcia, Christopher M. Wychowski, Thomas Pilcher, Webster Norman-Haignere, Sam	Rapid and dynamic construction of acoustically invariant speech representations in the human auditory cortex	Tuesday	45

222	Bandreddi, Akhil Boebinger, Dana Skrill, David Nourski, Kirill V. Howard, Matthew A. Garcia, Christopher M. Wychowski, Thomas Pilcher, Webster Norman-Haignere, Sam	Representational disentangling of spoken words and talker identity in the human auditory cortex	Tuesday	46
223	Welp, Suong Tuyet Schönwiesner, Marc	Spatial and Identity Factors in Voice Perception: Implications for Understanding Auditory Verbal Hallucinations	Tuesday	47
224	Belisle, Rebecca Michele Liu, Yinuo Stephen, Emily P. Perrachione, Tyler K.	Structural predictors of receptive language selectivity in temporal cortex	Tuesday	48
225	Levchenko, Egor Razin, Raha Richardson, Simon Gardner, Matthew Chow-Wing-Bom, Hugo Hannon, Kevin Murphy, James Skipper, Jeremy Tierney, Adam Callaghan, Martina Carmichael, David Dick, Fred	Prospective and retrospective evaluation of the efficacy of a new device to reduce head motion during auditory MRI: MR MinMo	Tuesday	49
226	Barilari, Marco Matuszewski, Jacek Gau, Remi Giraudet, Eléonore Van Baelen, Marc Huber, Renzo Collignon, Olivier	When visual areas become auditory areas: ultra-high-field fMRI (7T) reveals layer-dependent feedforward auditory motion processing in the hMT+/V5 of blind people.	Tuesday	50
227	Dappen, Emily R. Billig, Alexander J. Rhone, Ariane E. Steinschneider, Mitchell Banks, Matthew I. Nourski, Kirill V.	Intracranial Electrophysiology of Cortical Responses to Speech in Delirium	Tuesday	51
228	Hannah, Jaimy Anne Di Liberto, Giovanni M.	The Neural Consequences of Trust on Speech Perception	Tuesday	52

229	Bastug, Berfin Sun, Yue Schroger, Erich Poeppel, David	Auditory Object Formation in Temporally Complex Acoustic Scenes	Tuesday	53
230	Huviyetli, Mert Chait, Maria	The Effect of Aging on Auditory Change Detection: EEG and Eye Tracking Investigations in humans	Tuesday	54
231	Parida, Satyabrata Wingert, Jereme C Stickney, Jonah Norman-Haignere, Sam V David, Stephen V	Auditory cortical manifold for natural soundscapes enables neurally aligned category decoding	Tuesday	55
232	Hausfeld, Lars Krause, Anna-Lena Wiley, Sabina	Room for the Cocktail Party: Neural Tracking of Target and Distractor Speech in Reverberant Environments	Tuesday	56
233	Jabeen, Talat Fung, Jami Lau, Bonnie	Cortical Gain Enhancement in an Immature Central Auditory System	Tuesday	57
234	Rajendran, Vani G. Marquez, Juan Pablo Prado, Luis Merchant, Hugo	Monkeys have rhythm	Tuesday	58
235	Moshitch, Dina Nelken, Israel	Stimulus-specific adaptation (SSA) to pure tones in local networks of mouse auditory cortex	Tuesday	59
236	Talwar, Siddharth Mattioni, Stefania Giraudet, Eléonore Calce, Roberta Barbero, Francesca Barilari, Marco Collignon, Olivier	Temporal dynamics of sound representation in the brain of sighted and blind	Tuesday	60
237	Domżalski, Tomasz Blenkmann, Alejandro Omar Szurowska, Edyta Basiński, Krzysztof	Investigating hierarchical auditory predictive processing with inharmonic sound sequences	Tuesday	61
238	Yi, Diya Komatsu, Misako Tsunada, Joji	Global cortical dynamics during vocal communication in common marmosets (Callithrix jacchus)	Tuesday	62

240	Barbero, Francesca M. Lenc, Tomas Gallard, Alban Jacoby, Nori Polak, Rainer Foulon, Arthur Moghimi, Sahar Nozaradan, Sylvie	Evidence for neural categorization of rhythm in human newborns	Tuesday	63
241	Herbst, Sophie	Predicting when – how do temporal predictions benefit hearing?	Tuesday	64
242	Liu, Xena Chait, Maria	Oculomotor dynamics as a window into auditory selective attention	Tuesday	65
243	Josephs, Oliver Richardson, Simon Dick, Fred	High fidelity, reliable, and comfortable earbuds for auditory fMRI at all field strengths: OMEMS (Oto Micro Electrical Mechanical Systems)	Tuesday	66
245	Adam, Buse Chait, Maria	Tracking the Statistical Structure of Rapidly Unfolding Sound Sequences - Evidence from EEG in Humans	Tuesday	67
246	Salgado, Carla Sturm, Stefanie Valencia Torres, Luisa Maria Via, Marc SanMiguel, Iria	From suppression to enhancement: the effects of self- generation on sensory responses and perceived loudness depend on sound intensity	Tuesday	68
247	Battal, Ceren Lenc, Tomas Collignon, Olivier Nozaradan, Sylvie	Similarities in processing simple and complex rhythms: behavioral and fMRI evidence	Tuesday	69
248	O'Doherty, John Marion, Guilhem Gouyette, Hortense Di Liberto, Giovanni M. Boubenec, Yves	Statistical Learning of Melodies in the Auditory Cortex	Tuesday	70
250	Fox*, Lior Rosinski*, Arielle Linden, Jennifer F. Sahani, Maneesh	Investigating the computational principles underlying auditory cortical representations using recurrent networks	Thursday	1
252	Norris, Rebecca H C Tang, Zheyi Aghili, Nadia Bizley, Jennifer K	Auditory selective attention is impacted by the temporal coherence of a task-irrelevant visual stimulus in ferrets	Thursday	2
253	McDermott, Hannah H Enan, Mahdi de Martino, Federico	Dissociable dynamic effects of expectation during statistical learning across cortical layers.	Thursday	3

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254	Lu, Chen Li, Zimo Sahani, Maneesh Linden, Jennifer F.	Distinct auditory temporal processing deficits contributed by hearing loss and genetic risk for schizophrenia in the Df1/+ mouse	Thursday	4
255	SEHRAWAT, KAMINI NELKEN, ISRAEL	Stimulus-Specific Adaptation in auditory cortex and Inferior colliculus	Thursday	5
256	Rushworth, Carl David Asghar, Michael Francis, Susan Krumbholz, Katrin	Investigating the sub-parcellation of the human primary auditory cortex using adaptational properties, cortical myelination and connectomics	Thursday	6
257	Simon, Adele Chait, Maria Linden, Jennifer F.	Role of sound onsets and offsets in cortical tracking of transient events during naturalistic speech listening	Thursday	7
258	Chen, Zhiwei Gentile, Francesco Kurzawski, Jan W. Dowdle, Logan T. Gozukara, Dora Castellanos, Agustin Lage Bonte, Milene	Neural Activation Patterns of Letters and Numbers Overlap in the Temporo-Parieto-Occipital Junction	Thursday	8
259	Boucher, Jeff Evan Lebert, Jules Dauron, Louise Griffiths, Carla Bizley, Jennifer	Representation, formation, and segregation of auditory streams from auditory to frontal cortices	Thursday	9
260	Pari, Ram K Inyutina, Marina Dedies, Camille Enriquez-Geppert, Stefanie Marx, Mathieu Herrmann, Christoph S Zoefel, Benedikt	Specific enhancement of neural responses to speech through neurofeedback	Thursday	10

263	Li, Wei Benamer, Najate Safieddine, Saaid Barral, Jeremie	Deficits in spike timing and transmission of auditory information in a mouse model lacking ribbon synapses	Thursday	11
264	Aharoni, Moran Drouet, Lucas Huetz, Chloé Edeline, Jean-Marc	Behavioral discrimination between harmonic sounds in mice	Thursday	12
265	Hołubowska, Zofia Anna Herkenberg, Marlen Schönwiesner, Marc	Frequency-elevation mapping is driven by pitch rather than spectral content.	Thursday	13
266	Ferreyra, Christian Plegat, Marie Marinato, Giorgio de Araújo Vitória, Maria Esposito, Michele Formisano, Elia Artières, Thierry Giordano, Bruno L.	Auditory redundant and synergistic representations between brain and artificial neural networks revealed by information-theoretic decomposition	Thursday	14
267	Schneider, Letitia Maria Zulfiqar, Isma Balbastre, Yaël Holt, Lori Callaghan, Martina Schmidt, Tim Nagy, Zoltan Dick, Frederic	Characterising the auditory hemodynamic response function in the era of fast fMRI	Thursday	15
268	Vidal, Yamil van Haren, Jorie De Martino, Federico de Lange, Floris P.	How predictions and update signals shape our auditory experience	Thursday	16
270	Johnson, Joseph Francois Puertollano, Marta Cavicchiolo, Francesca Prud'homme, Luna Rovai, Antonin Wens, Vincent Dobri, Simon De Tiège, Xavier Calcus, Axelle	Neuroplasticity in speech-in-noise processing across pubertal stages: A longitudinal study of adolescent cognitive and auditory development	Thursday	17

271	Tafakkor, Ali Tutton, Madison Motala, Aysha Herrmann, Björn Johnsrude, Ingrid	Probing Connectivity among Auditory Cortex Subdivisions and the Multiple Demand Network During Listening to Clear and Degraded Speech	Thursday	18
272	Härtwich, Nina Deliano, Matthias Budinger, Eike Ohl, Frank W. Dar, Asim H. Tomana, Ewelina Sielużycki, Cezary König, Reinhard May, Patrick J.C.	Lifetimes of sensory memory traces in the auditory cortex of gerbils and humans: an interdisciplinary investigation	Thursday	19
273	Holt, Lori L. Llanos, Fernando Murphy, Timothy K. Wu, Yunan Charles Thorburn, Craig A. Zhou, Lin N. Dick, Frederic Nozari, Nazbanou	Rapid neurodynamic adjustments to cortical speech encoding influence speech production	Thursday	20
274	Ottolin, Fabian Onorato, Irene de Hoz, Livia	Auditory Discrimination and Generalization in Mice Across Different Behavioral Paradigms	Thursday	21
275	Mesquita, Bruno Reichenbach, Tobias Johnsrude, Ingrid	Neural correlates of selective attention to familiar voices.	Thursday	22
276	Rautu, Sabina Bourguignon, Mathieu Wens, Vincent Bertels, Julie De Tiège, Xavier	Vibrotactile enhancement of attended speech cortical tracking in the supratemporal auditory cortex in a cocktail-party scenario	Thursday	23
277	Onorato, Irene de Hoz, Livia McAlpine, David	Role of cortical and subcortical regions in detection of sound statistics	Thursday	24

278	Khandhadia, Amit Zigic, Stefan Wallace, Damien Voit, Kay-Michael Kerr, Jason Bizley, Jennifer	Head movement and behaviour of ferrets during naturalistic auditory localization	Thursday	25
279	Zeppillo, Tommaso Studer, Florian Rinaldi Barkat, Tania	Intensity-tuned neurons in the primary auditory cortex are critical for processing complex sounds	Thursday	26
280	Tarka, Veronica M. Willmore, Ben D. B. King, Andrew J. Gaucher, Quentin Walker, Kerry M. M.	Harmonic and temporal pitch cues are encoded in distinct but overlapping populations of auditory cortical neurons	Thursday	27
281	Marinato, Giorgio Ferreira, Christian Esposito, Michele Plegat, Marie Formisano, Elia Giordano, Bruno L.	Learned semantic associations from real-world events co- occurrences influence the auditory perceptions of naturalistic sounds scenes.	Thursday	28
282	Noyce, Abigail Liang, Wusheng Manjunath, Madhumitha Luthra, Sahil Shinn-Cunningham, Barbara	Mapping functional specializations for auditory cognition in human prefrontal cortex	Thursday	29
283	de Kerangal, Mathilde Varano, Enrico Auernheimer, Jonas Reichenbach, Tobias	Audio-visual enhancement of speech perception across the lifespan: evidence from behavioural and EEG data.	Thursday	30
284	Kim, Su Jin Kuchibhotla, Kishore	The auditory thalamus controls stimulus-driven choices	Thursday	31
285	Blenkmann, Alejandro O Leske, Sabine Volehaugen, Vegard Rezende Carvalho, Vinicius Kochen, Silvia Endestad, Tor Knight, Robert T Solbakk, Anne- Kristin	Intracranial high-frequency activity and oscillatory cortical dynamics of auditory prediction error propagation in humans	Thursday	32

286	Bao, Xiaohan Sabourin, Carina J Huang, Ying Lomber, Stephen G	Temporal Dynamics of Functional Connectivity in Awake Cat Auditory Cortex is Disrupted by Acoustic Stimulations	Thursday	33
287	Li, Zehua Kcriss	Human auditory cortex integrates across similar timescales in music and speech bilaterally	Thursday	34
288	Hübenette, Saira Jameela Solbakk, Anne- Kristin Blenkmann, Alejandro Omar Danielsen, Anne Endestad, Tor	Joint spatial and temporal processing of moving sounds	Thursday	35
289	Kachlicka, Magdalena Jasmin, Kyle Saito, Kazuya Dick, Fred Tierney, Adam	Cue weighting and frontotemporal functional connectivity during speech perception in tonal and non-tonal language speakers	Thursday	36
290	Kachlicka, Magdalena van den Bosch, Jasper Kang, Jian Dick, Fred	A selection of environmental sounds for behavioural and neuroimaging research: Introducing the EnviSounds dataset	Thursday	37
291	Nidiffer, Aaron O'Sullivan, Aisling Lalor, Edmund C	Unique contribution of visible articulations on speech perception in noise	Thursday	38
329	Harmon, Tom Jin, Andrew Hardin, Evelyn Mooney, Richard	Brain-wide mapping of neuroanatomical connections to the auditory cortex of hearing and deaf mice	Thursday	39
293	Agrawal, Deepashri Malo, Palash Kumar Issac, Thomas Gregor	Right-Ear Advantage as a Peripheral Signature of Cognitive Resilience in Indian Superagers	Thursday	40
294	Grenier, Anne Sophie Sharp, Andréanne Gotti, Clarisse Borderie, Arthur Chauvette, Loonan Martineau, Laurence Lessard Bonaventure, Paule Coffey, Emily	Tactile Frequency-Following Response measured with intra- cranial recordings in humans	Thursday	41

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