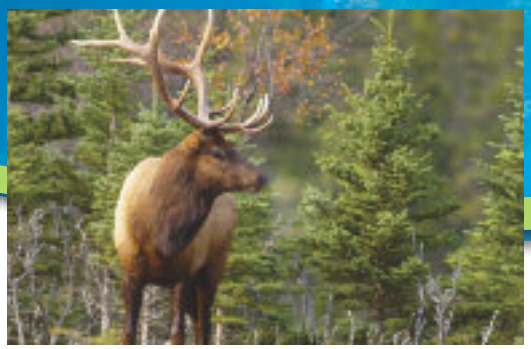
6th International Conference on Auditory Cortex



International Conference on Auditory Cortex

September 10-15, 2017

The Banff Centre
Banff, Alberta
Canada

auditorycortex.org

Program Contents

International Conference on Auditory Cortex
Banff 2017

About ICAC

The 6th meeting of the **International Conference on Auditory Cortex**, which consists of approximately 300 scientists of diverse expertise all of whom work on the auditory cortex, will convene on September 10-15, 2017 at the Banff Centre in Alberta, Canada, to discuss and debate new findings in hearing-research and auditory-cortex function. The meeting will consist of four Keynote Lectures, 21 invited talks, and 21 talks from trainees (graduate students and postdoctoral fellows) that are selected from submitted abstracts, and poster sessions.

The ICAC offers a unique combination of features, including: breadth of research, cutting-edge emphasis, mingling of investigators from all ranks (and diverse sub-fields and locales), intimate size, and extended discussion time allowing for sustained interactions. Some of these features arise from unique qualities of the hearing-research field and others from the tradition of the International Conference on Auditory Cortex. Different model systems and technologies are spread throughout the sessions, so that each session has something for everyone – encouraging cross-fertilization across disciplines. The clinical importance of auditory research will be highlighted with presentations that consider the mechanisms underlying human disorders and translational efforts to correct these disorders.

Finally, the 2017 ICAC is unique because this is the first time, since the meeting's inception in 2003, that it will be held in North America.

Our Goal

The goal of the 6th ICAC is to understand the neurophysiological mechanisms that underlie auditory perception and cognition and to use this knowledge to mitigate hearing disorders. In particular, the organizers of ICAC are interested in attracting scientists that employ methodologies and conceptual/theoretical paradigms that are often novel to studies of auditory cortex; and whose research focuses on studying the structure and function of the auditory cortex through a synthesis of both human and animal research.

Welcome

to the 6th International Conference on Auditory Cortex

Yale Cohen

Steve Lomber

It is our distinct pleasure to welcome you to Banff and the 6th International Conference on Auditory Cortex! This vibrant and exciting meeting has continued to grow since our first meeting in 2003 in Magdeburg. This year's registration has passed the 300 mark – a new record for the conference! We have registrants from 22 countries representing all corners of the globe. With a fundraising effort that has exceeded $100,000, we were pleased to offer 63 travel awards to trainees in addition to financial support of all the keynote and invited speakers. We also have a record number of posters, surpassing 200 submissions.

We are grateful to the Program Committee for all their hard work in organizing an exciting scientific program. The success of this meeting is, in large part, due to their tremendous efforts. The Program Committee was led by Jennifer Bizley and Robert Liu and included Mounya Elhilali, Ingrid Johnsrude, Andrej Kral, Manuel Malmierca, Lizabeth Romanski, Chris Stecker, and Robert Zatorre. From their efforts, we have four keynote speakers, 21 invited speakers, and 21 oral presentations selected from the over 200 abstract submissions. Papers related to these and other topics of the conference will appear in a Special Issue of *Hearing Research*.

This year's meeting also features a pre-conference satellite meeting on hearing loss and tinnitus. This satellite celebrates Jos Eggermont's work on these two important topics in hearing science. "JosFest", as it has become known, features 10 international-recognized speakers and will occur on Sunday, just prior to the kick-off of the main meeting.

Please enjoy the wonder that is Banff National Park and the excellent facilities of the Banff Centre. Rocky Mountain peaks, turquoise glacial lakes, a picture-perfect mountain town and village, abundant wildlife and scenic drives come together in Banff National Park – Canada's first national park and the flagship of Canada's park system. Over three million visitors a year make the pilgrimage to the park for a variety of activities including hiking, biking, skiing and camping in some of the world's most breathtaking mountain scenery. Banff is part of the Canadian Rocky Mountain Parks UNESCO World Heritage Site. Wednesday afternoon there are a number of excursions to choose from. If you have not already registered for an excursion, please visit the registration desk and decide among the opportunities.

Another unique aspect of this year's meeting is that it is occurring in 2017 – the 150th anniversary of Canada. 2017 is the sesquicentennial anniversary of Canadian Confederation, which occurred in 1867. To celebrate this event, admission to all national parks is complementary in 2017. Therefore, if you are fortunate enough to spend time in the area after the meeting, be sure to enjoy some of the other nearby national parks including Jasper, Yoho, and Kootenay.

We are grateful for all the behind the scenes work by Marischal De Armond and Podium Conference Specialists. They have been wonderful partners in putting the conference together and planning over the past few years.

Warm Regards,

Steve Lomber and **Yale Cohen**

Conference Co-Chairs

ICAC Leadership

Organizers / Co-Chairs

Steve Lomber, University of Western Ontario

Yale Cohen, University of Pennsylvania

Program Committee Co-Chairs

Jenny Bizley, University College London

Robert Liu, Emory University

Program Committee

Mounya Elhilali, Johns Hopkins University

Ingrid Johnsrude, University of Western Ontario

Andrej Kral, Medical University Hannover

Manuel Malmierca, University of Salamanca

Liz Romanski, University of Rochester

Chris Stecker, Vanderbilt University

Robert Zatorre, McGill University

Conference Management Services

Podium Conference Specialists

Marischal De Armond

Laurie De Armond

A brief history

of the International Conference on Auditory Cortex (ICAC)

In 2002, Henning Scheich, founding director of the Leibniz Institute for Neurobiology in Magdeburg, proposed that it was time to bring together scientists working on the auditory cortex of humans with those working on that part of the brain in animals. An international meeting would enable these scientists to learn and benefit from each other's knowledge and experience by exchanging concepts, approaches, and thoughts. The researchers studying the human auditory cortex, mainly using noninvasive techniques such as functional magnetic resonance imaging, magneto- and electroencephalography, often seemed rather unaware of the progress made by the researchers studying the auditory cortices of animals, mainly using invasive anatomical and physiological methods and vice versa. Henning Scheich's idea fell on fertile grounds and, after a short survey among several local and outside experts, the ICAC was born.

In 2003, more than 200 participants from all over the world attended the first ICAC in Magdeburg, hosted by the Leibniz Institute for Neurobiology. Taking up Henning Scheich's idea, it consequently carried the subtitle "Towards a Synthesis of Human and Animal Research". The conference agenda covered three main themes: (i) auditory cortical fields and their functions, (ii) coding of sounds, and (iii) plasticity, learning, and cognition. The presentations of the 35 invited talks and more than 100 posters were excellent, the discussions were lively, and the social events facilitated increased communication between the participants. The scientific outcome resulted in the publication of the 500-page book *The Auditory Cortex – A Synthesis of Human and Animal Research*.

The success of this first conference triggered a second one; in fact, it started a series. In 2006, the second conference took place in Grantham, east of Nottingham (UK). It was organized by Dave Moore, Alan Palmer, Deborah Hall, Chris Sumner, Lisa Fretwell, Angie Killoran, and colleagues of the MRC Institute of Hearing Research. The meeting was subtitled "The Listening Brain" to indicate both the importance of active engagement with acoustic signals, an issue that has already emerged from the 2003 meeting, and the advances that had been made in understanding the role of the auditory cortex in "active hearing" or "listening". Some 160 participants discussed the 20 invited talks and 80 posters, which covered three main topics: (i) the distributed, (ii) the computational, and (iii) the cognitive auditory cortex. Papers related to these and other topics of the conference appeared in a Special Issue of *Hearing Research*.

Returning to Magdeburg, the subtitle of the 2009 conference "Current Concepts in Human and Animal Research" again reflected our main goal: to bring together scientists who study the auditory cortex in humans with those who study it in animals. The conference was arranged around five sessions comprising 33 invited talks: (i) how to define auditory cortex, (ii) coding principles in the auditory cortex, (iii) the adaptive auditory cortex, (iv) processing of vocalizations, speech, and music, and (v) functional circuitry in the auditory cortex. During a round table discussion, seven renowned experts contrasted concepts of auditory functions together with 200 attendees. About 120 posters, some also advertised in short oral presentations, completed the scientific program. A collection of papers based on the invited talks of the conference was again published in a Special Issue of *Hearing Research*.

In 2012, the scientific organizers of the fourth conference (Daphne Bavelier, Stephanie Clarke, Jonathan Fritz, Troy Hackett, Andrew King, Micah Murray, David Poeppel, Shihab Shamma, Mark Wallace) in Lausanne (Switzerland) decided to organize the meeting on the basis of submitted proposals for scientific symposia. The five proposals winning the competition were: (i) integrating behavior and neurophysiology, (ii) dynamic spatial processing in the auditory cortex, (iii) shedding light on auditory cortex, (iv) computational principles of auditory cortex, and (v) perceptual operations and underlying mechanisms in the primate auditory cortices. These five symposia comprised 23 talks and were complemented by a graduate students' award symposium, a moderated (heated) debate, and about 170 posters. In March 2015, some of the contributions were available as papers in a Special Issue of *Brain Topography*.

In order to avoid temporal overlap with the International Symposium on Hearing, it was agreed upon to deviate from the 3-year interval and to hold the fifth ICAC in 2014, again in Magdeburg. The 5th Conference was the largest ICAC to date. The subtitle of the 5th International Conference on Auditory Cortex was again "Towards a Synthesis of Human and Animal Research" because of the continued intention to join the two fields. The scientific program reflected current topics studied in both fields and was arranged around the six sessions: (i) auditory cortex in different species, (ii) the hearing action cycle, (iii) auditory cortex: it's about time, (iv) auditory cortex: clinical aspects, (v) multisensory interplay in auditory cortex, and (vi) learning in auditory cortex. Invited speakers from each of these sessions agreed to contribute to a Special Issue of the *European Journal of Neuroscience*.

This year, the 6th ICAC takes place in Banff (Canada), and it has been organized by Steve Lomber from the University of Western Ontario (Canada) and Yale Cohen from the University of Pennsylvania (USA).

In 2020, the 7th ICAC conference will return to Magdeburg.

Adapted from Budinger et al (2015) *European Journal of Neuroscience* 41: 515–517.

General Conference Information

Conference Venue

The Banff Centre
107 Tunnel Mountain Drive
Banff, Alberta, Canada T1L 1H5

Please review the floor plan on page 5 of this program for further details

Conference Registration

Registration for the conference includes admission to all sessions, the Welcome Dinner, breakfast, lunch and daily coffee breaks during the conference, the Offsite BBQ Dinner, 3 Poster Sessions and the Farewell Dinner.

Additional Tickets

Tickets can be purchased separately for your guests and/or children for the following items:

- Daily Breakfasts and Lunches
- Welcome Dinner
- MountView BBQ Dinner (offsite)
- Farewell Dinner
- Voyager Canoe Tour
- Distillery Tour
- Airport Shuttle

Please visit the Registration and Information Desk to purchase additional tickets.

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. At the end of the conference we ask that you return your badge to the registration desk, or at one of the badge recycling stations.

ICAC Leadership, Exhibitors and Staff will be identified by appropriate ribbons.

Dress Code

Dress is casual for all ICAC meetings and social events.

Registration and Information Desk Hours

The Registration and Information Desk, located in the Kinnear Centre 100 Galleria (1st floor), will be open during the following dates and times:

Sunday	Sept 10	5:00 PM – 7:00 PM
Monday	Sept 11	7:30 AM – 4:00 PM
Tuesday	Sept 12	8:00 AM – 4:00 PM
Wednesday	Sept 13	8:00 AM – 12:30 PM
Thursday	Sept 14	8:00 AM – 4:00 PM

Speaker Information

The main meeting room is equipped with the following:

- 1 PC laptop
- 3 screens
- 1 lapel microphone
- 3 projectors
- 1 podium microphone
- 2 floor microphones (for questions)

Poster Information (Set-up and Removal)

Poster presentations have been divided into 3 sessions and arranged based on poster themes. All posters will be available to view on the 2nd and 3rd floors of the Kinnear Centre (KC 201/203/205 & 303/305) for the duration of the conference. Poster presenters must set up and remove their posters during the following times:

Poster Set-up:

Sunday, September 10 from 5:00 PM – 7:00 PM
Monday, September 11 from 7:30 AM – 8:30 AM

Poster Removal:

Thursday, September 14 from 6:00 PM - 7:00 PM

Dedicated Poster Session times are as follows:

Poster Session 1:
Monday, September 11 from 3:30 PM – 6:00 PM

Poster Session 2:
Tuesday, September 12 from 3:30 PM – 6:00 PM

Poster Session 3:
Thursday, September 14 from 3:30 PM – 6:00 PM

Information on Poster Authors (Lead), Poster Numbers, and Poster Titles begins on page 27. For a complete copy of all the poster abstracts, please visit the ICAC website, where you can download an electronic copy.

Poster floor plans can be found on page 39.

Staff

ICAC staff from Podium Conference Specialists can be identified by the orange ribbons on their name badges. Feel free to ask any one of our staff for assistance.

Internet Services

ICAC attendees have access to complimentary WI-FI while on campus at The Banff Centre. Simply connect once to the network called **Banff Centre** and you should stay connected for the duration of your stay.

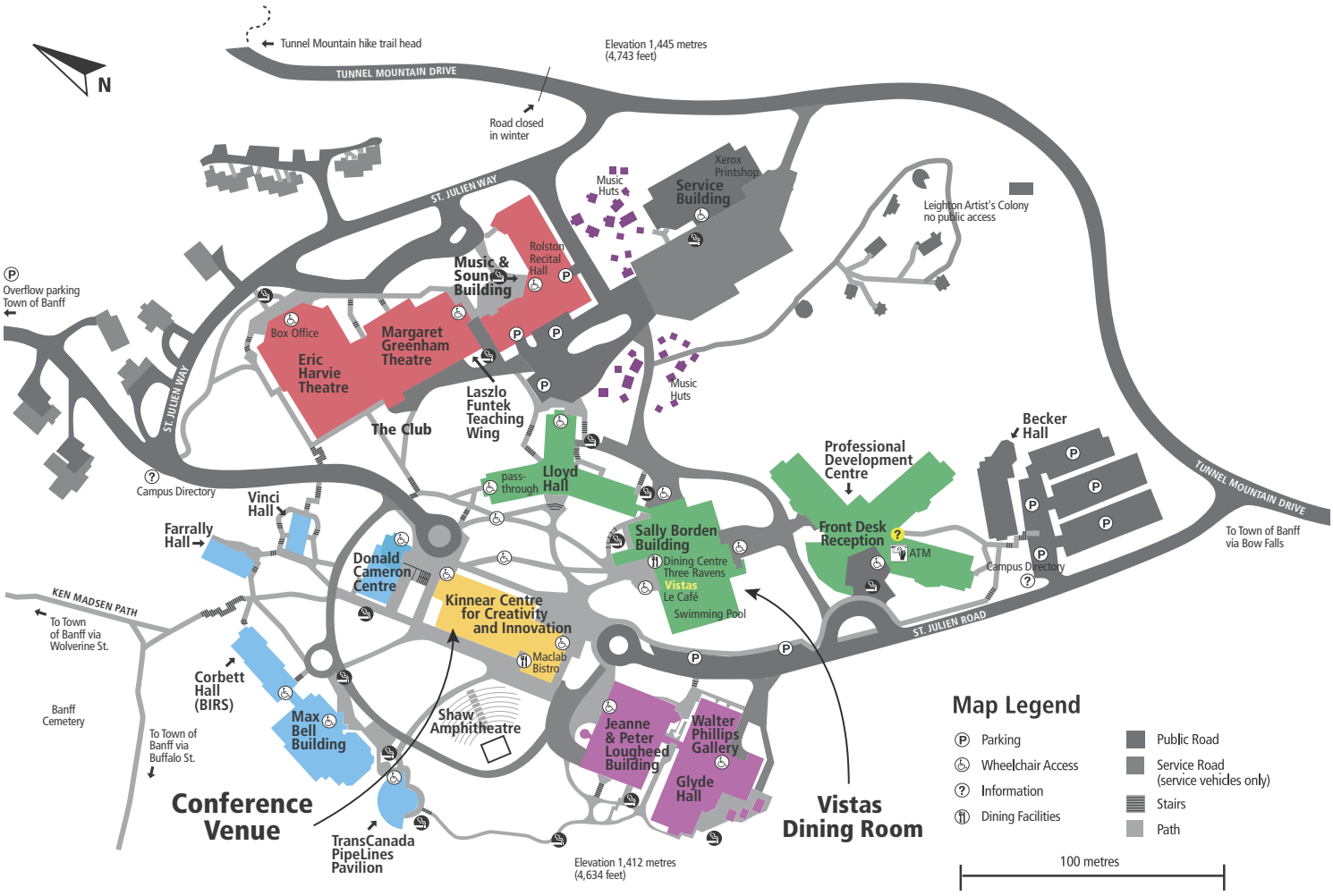
Wildlife

With 6641-square kilometres of protected wilderness, **Banff National Park** is a haven for wildlife. While the likelihood of an encounter with an animal is unpredictable, when it does happen – and the animal is viewed from a safe distance – it can be a magical experience.

Banff is home to black and grizzly bears, wolves, cougars, elk, deer, bighorn sheep, bald eagles and many other mammal and bird species. It is important you are aware of how to help protect both yourself and the animals. **Please review the following safety tips**:

- Do not disturb the wildlife; observe silently and keep a safe distance (100 meters +)
- Never feed the wildlife; properly store and dispose of your food and garbage
- Keep pets and small children close
- If you see a wild animal, do not run away; remain calm
- If you are approached by a wolf, coyote or cougar, act aggressively (stomp, yell, throw something)
- If you are approached by a bear, try to appear non-threatening and speak in a calm voice

Banff Centre Map



JosFest

Sunday, September 10
8:30 AM – 5:00 PM
Kinnear Centre Room 301 (KC 301)

International Symposium on Hearing Loss and Tinnitus – Celebrating the Work of Jos J. Eggermont

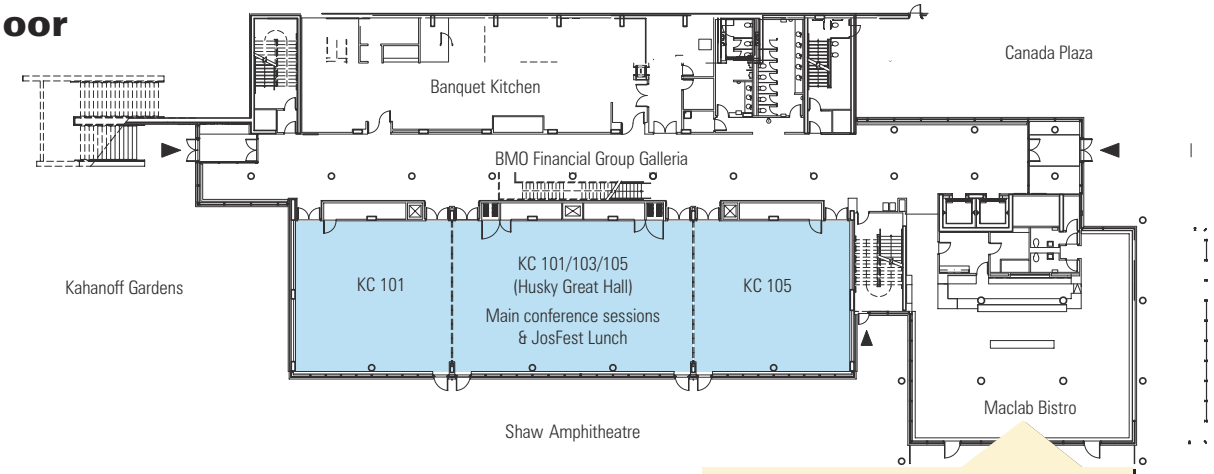
Jos Eggermont PhD is Professor Emeritus, University of Calgary, Departments of Physiology and Pharmacology, and Psychology. He received his PhD in Physics at Leiden University in his native country, The Netherlands, in 1972. He has been retired since July 1st, 2013. His research in Calgary comprised most aspects of audition with an emphasis on the electrophysiology of the auditory system in test animals, and was specifically focused on the role played by neural synchrony in the coding of complex sounds in the auditory

cortex. His group developed an animal model of noise-exposure induced tinnitus to further understanding of this disorder and, by comparison with the effects of external sounds of similar nature, to investigate how normal and pathological sound sensations are encoded in the central nervous system and the role of cortical reorganization played herein. Lately, he has focused on the effects of long-term non-traumatic sound exposure on cortical activity and organization. In 2014, Jos was named a Fellow of the Royal Society of Canada.

A detailed JosFest Schedule is on page 10.

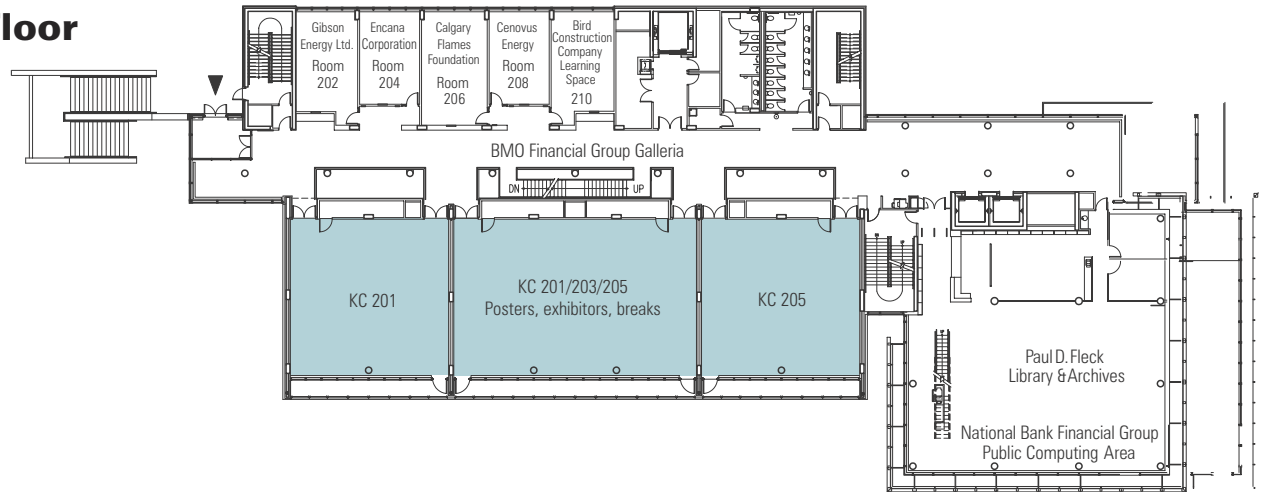
Kinnear Centre Floor Plans

1st Floor

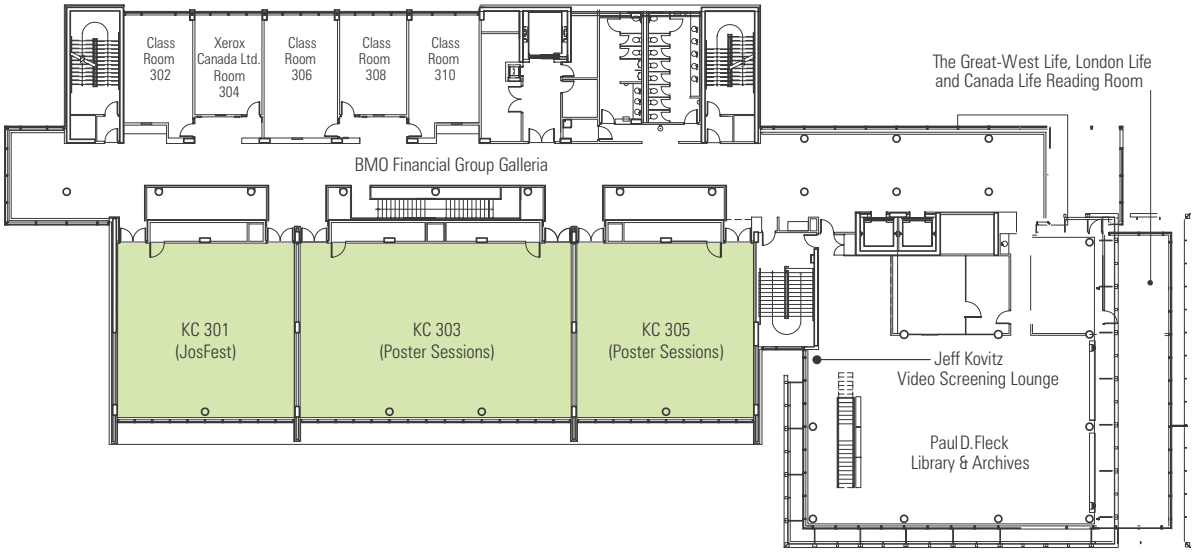


Maclab Bistro - Kinnear Centre
Grab a meal with friends, or meet up for a lively evening on the fireside patio with views extending out over the Bow Valley. **Hours: 7 AM – midnight**

2nd Floor



3rd Floor



ICAC Excursions

The ICAC 2017 organizing committee has created a conference program that provides for half a day of exploration on Wednesday, September 13. Join in one of the suggested tours below, or explore the beautiful town of Banff on your own.

Enjoy the serenity of the Bow River and marvel at the surroundings whilst on a Big Canoe Tour. As you journey upstream, our guides will entertain you with stories of the past, history of canoeing and interesting local facts. Every tour includes life jackets and paddles plus instruction on how to paddle as a team.

Wednesday, September 13 • 3:30 PM or 4:45 PM
Duration: 1 hour • Cost: $42

Meeting Point: Banff Adventures. Corner of Wolf Street and Bow Avenue. Participants are responsible for their own transportation to and from the meeting point. It is a 25-minute walk from The Banff Centre.

Capacity for this tour is limited so book early! Visit the Registration Desk to book.

Take a tour of the only distillery within a national park. Their water originates at six glaciers high in the Rocky Mountains and gains minerality as it travels across rich limestone deposits. Their grains are sourced from high-altitude family farms in the Alberta foothills. They hand-mill, hand-mash and hand-distill to preserve the purity of their ingredients. Park Distillery's line of craft spirits are only available at a small store outside the distillery and a handful of restaurants and stores around the province of Alberta. Stay a while after your tour and enjoy dinner on your own in the attached restaurant – reservations are recommended.

Wednesday, September 13 • 7:00 PM or 8:30 PM
Duration: 30 minutes • Cost: $30

Meeting Point: Park Distillery Restaurant & Bar. 219 Banff Ave. Participants are responsible for their own transportation to and from the meeting point. It is a 25-minute walk from The Banff Centre.

Capacity for this tour is limited so book early! Visit the Registration Desk to book.

As a delegate of ICAC 2017, you save 20% on Brewster's Banff Gondola and associated packages. This excursion can be booked at your leisure using the code ICAC2017.

Journey to the top of the Banff Gondola to see a whole new side of Sulphur Mountain and the Canadian Rockies. We've completely rebuilt, redesigned and reimagined our mountaintop experience, creating a world-class indoor experience that equals the awe-inspiring ridgetop boardwalk 2900 ft. above Banff. From new restaurants and interactive exhibits to a multisensory theatre and a breathtaking 360-degree rooftop observation deck, the all-new Banff Gondola experience heightens every sense.

For more information regarding the Banff Gondola, Mountaintop Dining and Brewster's deal and packages, contact Brewster directly.

Brewster
Phone: 1.888.285.0376
Website: www.brewster.ca
Booking Code: ICAC2017

Dining

The following restaurants have offered discounts to ICAC delegates. Simply show your name badge when you arrive to receive your discount.

Rose & Crown
202 Banff Ave.
Website: www.roseandcrown.ca
Phone: 403.762.2121
20% discount* on regular menu food items
*does not apply to our daily food special

High Rollers Banff
110 Banff Ave.
Lower Level
www.highrollersbanff.com
Phone: 403.762.BOWL (2695)
10% discount on all regularly priced food and drinks

Special Meetings & Events

International Conference on Auditory Cortex
Banff 2017

JosFest
Sunday, September 10
8:30 AM – 5:00 PM
The Banff Centre
Kinnear Centre Room 301

Welcome Dinner
Sunday, September 10
7:00 PM – 10:00 PM
The Banff Centre
Kinnear Centre – Husky Great Hall

Join us to celebrate ICAC! Enjoy good food while catching up with old friends and making new ones to start off the 6th International Conference.

Group Photo
Monday, September 11
12:00 PM – 12:15 PM
The Banff Centre
Shaw Amphitheatre

MountView BBQ Dinner
Tuesday, September 12
7:00 PM – 10:00 PM
Buses depart The Banff Centre - Professional Development Centre at 6:30 PM

MountView Barbecue offers a truly unique, western Canadian experience. You will enjoy a delicious, hearty meal, featuring our famous Alberta hip of beef. The central bonfire of the roundhouse provides warmth and atmosphere to mingle and dance the night away! Get ready for an unforgettable evening, and a highlight of your visit to the mountains.

Please note, transportation will be provided. We recommend casual comfortable clothes and shoes so you can be ready for some line dancing!

Farewell Dinner
Thursday, September 14
6:00 PM – 9:00 PM
The Banff Centre
Kinnear Centre – Husky Great Hall

Keynote Speakers

Monday, September 11
9:00 AM – 10:00 AM

Dexter Irvine

Bionics Institute and Monash University
Melbourne, Australia

Dexter Irvine is an Emeritus Professor in the School of Psychological Sciences at Monash University and has an appointment at the Bionics Institute (Melbourne, Australia) as a Professorial Research Fellow and Senior Research Advisor.

Learning to hear: Auditory perceptual learning and changes in the conceptualization of auditory cortical function

The last 30 or so years have seen profound changes in our conceptualization of auditory cortical function, driven by the demonstration of various forms of plasticity in the auditory system. Auditory perceptual learning (APL), improvement in discriminative ability as a consequence of training, provides an instructive example of the findings responsible for these changes. Although perceptual learning had been studied in various sensory modalities for many years, it was generally assumed to involve changes in task performance rather than in sensory processing mechanisms themselves. The recognition that many forms of visual perceptual learning are specific to the region of the retina to which the training stimuli are presented or to a particular stimulus attribute led to the view that it involved changes in sensory representation at early stages of cortical processing (in primary visual cortex). "Early-stage" models of this sort have been contrasted with "late-stage" models that propose the changes take place in areas associated with decision making and the allocation of attention. A number of studies of APL in animals have described changes in sensory representation in primary auditory cortex, but in other studies such changes were not observed. A possible reconciliation of these conflicting results is provided by evidence that changes in sensory representation constitute a transient stage in the processes underlying perceptual learning. Human neuroimaging studies provide some support for this suggestion, but also indicate that auditory training (e.g., in musicians) results in long-term changes in auditory cortical function. Psychophysical evidence suggests that the level at which changes occur depends on the nature of the discrimination task and the stage of training. The characteristics of APL reflect the fact that auditory cortex forms part of distributed networks that integrate the representation of auditory stimuli with attention, decision, and reward processes.

Tuesday, September 12
8:30 AM – 9:30 AM

Stephanie Clarke

Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, Switzerland

Stephanie Clarke is the Head of the Neuropsychology and Neurorehabilitation Clinic at CHUV and a Professor in the Faculty of Biology and Medicine at the Université de Lausanne, Switzerland.

Through the jungle of sounds

In complex auditory surroundings we rely on our expertise to recognize objects, animals and people by their sounds; on the combination of the meaning of a sound and its location; and on attending to sound objects in different parts of space. Neural representations which underlie these aptitudes and their relationship to the influential dual-stream model of auditory processing were investigated in a series of recent studies.

Several lines of evidence indicate that recognition of environmental sounds involves the ventral auditory stream and proceeds through discrimination steps from broad to more narrow categories. Recent studies have investigated how high-level expertise involving fine-grained discrimination within narrow categories is acquired and how it impacts on specific steps of auditory processing. Their results highlight the importance of supramodal semantic representations in fine-grained discrimination and hence the role of top-down afferents.

A series of human behavioral, activation and lesion studies strongly suggests that in addition to the position-independent representation of the meaning in the ventral auditory stream and to the spatial representation in the dorsal stream, specific neural populations respond to sound objects as a function of their specific position.

Activation studies have shown that auditory-spatial attention, similarly to visuo-spatial attention, relies on the right-dominant ventral attentional system. Its lesions are often associated with visuo-spatial and auditory neglect. One therapeutic intervention which alleviates visuo-spatial and auditory neglect symptoms consists of visuo-motor adaptation via rightward-deviating prisms. In the visual modality this effect is due to a shift of hemispheric dominance within the ventral attentional system. Recent studies indicate that similar neural mechanisms underlie the effect on auditory neglect symptoms and suggest that auditory-spatial attention is modulated by supramodal afferents.

Wednesday, September 13
8:30 AM – 9:30 AM

Michael Brainard

University of California, San Francisco
San Francisco, CA, USA

Michael Brainard is a Professor of Physiology and Psychiatry and the Director of the Center for Integrative Neuroscience at the University of California, San Francisco.

Auditory and vocal learning in the songbird

Adult birdsong in many species is 'crystallized' in that song is highly stereotyped in its structure and normally changes little over time. In this talk I will focus on the effects of auditory feedback perturbation on the songs of adult finches. These experiments indicate that given appropriate instruction adult birds can rapidly and adaptively modify the structure of their songs. Song modification can be elicited both by a process of externally guided reinforcement and by a process of self driven error correction. These experiments demonstrate that the remarkable stability of adult song does not reflect an incapacity for adaptive vocal modification. Rather, they indicate that adult song remains fixed due to an ongoing process of feedback evaluation in which birds match their songs to a stable sensory target. Much of the neural circuitry that subserves song production and song plasticity has been well-elucidated. Previous work has identified a primary song motor pathway that is required throughout life for normal song production and that is the presumed locus of much of the plasticity that reflects modification of song. In addition, songbirds have a simplified but conserved cortical-basal ganglia circuit (the anterior forebrain pathway, AFP) that is specialized for song. I will describe work indicating that the AFP is not required for the production of well-learned adult song. However, disruptions of the AFP prevent a variety of forms of adult vocal plasticity, indicating a

crucial role for this pathway in feedback-dependent adult vocal learning. Because the AFP is a simplified cortico-basal ganglia circuit that contributes to a single, quantifiable behavior, it may prove to be a useful system for further testing mechanism whereby such circuits contribute to auditory vocal learning and to learning more generally.

Thursday, September 14
8:30 AM – 9:30 AM

Barbara Shinn-Cunningham

Boston University
Boston, MA, USA

Barbara Shinn-Cunningham is a Professor of Biomedical Engineering at Boston University, Director of the CELEST NSF Science of Learning Center, and Director of the Center for Computational Neuroscience and Neural Technology.

Cortical control of auditory attention

In many social settings, there are multiple, competing sounds vying for attention. The ability to separate sound streams coming from different sources and focus on whatever source you want to understand is critical for communication in such environments. This talk reviews behavioral, EEG, and fMRI studies that explore how listeners control auditory attention. Results show that when listeners decide to focus attention on a sound stream from a particular direction or from a particular talker, there is preparatory activity in various brain networks. Once the sound stimuli begin to play, the cortical representation of the competing sound streams is modulated, such that responses to an attended stream of sound is strong relative to streams that are being ignored. Importantly, if attention is focused on a sound from a particular direction vs. focused on sound with particular non-spatial sound features, seemingly similar behavioral tasks actually engage very different brain networks. The network engaged by spatial auditory attention includes prefrontal and parietal areas, while non-spatial attention engages regions associated with high-level auditory processing. By contrasting fMRI activity during comparable auditory and visual selective attention tasks, we find that the cortical networks engaged by spatial auditory attention map directly to regions that are commonly assumed to comprise a visuo-spatial attention network. Conversely, the prefrontal regions that appear to be preferentially engaged during auditory processing are recruited during visual tasks that require analysis of stimulus timing. Together, these results support the view that auditory inputs are naturally processed differently from visual inputs, but that the brain has the capacity to recruit different brain networks to process the same inputs, based on task demands.

Invited Speakers

Pascal Belin
Aix-Marseille Université, Marseille, France

Maria Chait
University College London, London, United Kingdom

Rhodri Cusack
Trinity College Dublin, Dublin, Ireland

Yi Du
Chinese Academy of Sciences, Beijing, China

Maria Geffen
University of Pennsylvania, Philadelphia, PA, USA

Karen Gordon
Hospital for Sick Children, Toronto, Canada

Steffen Hage
University of Tübingen, Tübingen, Germany

Lori Holt
Carnegie Mellon University, Pittsburgh, PA, USA

Robert Liu
Emory University, Atlanta, GA, USA

Christoph Kayser
Bielefeld University, Bielefeld, Germany

Jennifer Linden
University College London, London, United Kingdom

Matthew McGinley
Baylor College of Medicine, Houston, TX, USA

Uta Noppeney
University of Birmingham, Birmingham, United Kingdom

Daniel Polley
Massachusetts Eye and Ear Infirmary, Boston, MA, USA

Gregg Recanzone
University of California, Davis, Davis, CA, USA

Liz Romanski
University of Rochester, Rochester, NY, USA

Jan Schnupp
City University of Hong Kong, Hong Kong, China

Marc Schoenwiesner
University of Leipzig, Leipzig, Germany

Shihab Shamma
University of Maryland, College Park, MD, USA

Michael Wehr
University of Oregon, Eugene, OR, USA

Sarah Woolley
Columbia University, New York, NY, USA

For presentation details, please see the Detailed Program following.

ICAC Detailed Daily Program

6th ICAC • September 10-15, 2017

The Banff Centre • Banff, Alberta, Canada

All sessions will be held in the Kinnear Centre (KC).

Please note that the program is subject to change.

Sunday, September 10

JosFest Program • KC 301

8:30 – 9:00 **Opening Remarks**, Steve Lomber

MORNING SESSION • Moderator: Steve Lomber

9:00 – 9:30 **Congenital deafness affects corticocortical effective connectivity**
Andrej Kral, Medical University Hannover

9:30 – 10:00 **Loud and clear: the rat auditory system is robust to long term ambient noise exposure**
Boris Gourévitch, CNRS, Paris-Saclay Institute of Neuroscience

10:00 – 10:30 Coffee Break • KC 3rd Floor Galleria

10:30 – 11:00 **Can long-term exposure to non-damaging noise lead to tinnitus and hyperacusis?**
Martin Pienkowski, Salus University

11:00 – 11:30 **Differences in capillary network structure between primary and non-primary auditory cortex**
Robert V. Harrison, The Hospital for Sick Children/University of Toronto

11:30 – 12:00 **Is hidden hearing loss really hidden? A perspective**
Frank Musiek, University of Arizona

12:00 – 1:30 Celebration Lunch • KC 103

AFTERNOON SESSION • Moderator: Larry Roberts

1:30 – 2:00 **Neuromodulation reverses dorsal cochlear nucleus circuit plasticity to reduce tinnitus**
Susan R. Shore, University of Michigan

2:00 – 2:30 **Tinnitus pathology and auditory thalamus**
Donald M. Caspary, Southern Illinois University School of Medicine

2:30 – 3:00 Coffee Break • KC 3rd Floor Galleria

3:00 – 3:30 **"Hidden" hearing loss in individuals with tinnitus and normal audiograms**
Brandon T. Paul, Université de Montréal

3:30 – 4:00 **Sensory precision in tinnitus: a unifying framework for understanding, modelling and treatment?**
William Sedley, University of Newcastle

4:00 – 4:30 **Auditory and extra-auditory networks implicated in tinnitus: evidence from fMRI studies**
Fatima Husain, University of Illinois

4:30 – 5:00 **JosFest Concluding Remarks**, Larry Roberts

7:00 – 10:00 ICAC Welcome Dinner • Husky Great Hall (KC 101/103/105)

ICAC Conference Program

Monday, September 11

7:00 – 8:30 Breakfast • Vistas Dining Room (Sally Borden Building, top floor)

8:30 – 9:00 **Opening Remarks**

SESSION 1 • Chair: Jennifer Bizley

9:00 – 10:00 **Keynote Speaker** – Dexter Irvine, Bionics Institute and Monash University
Learning to hear: Auditory perceptual learning and changes in the conceptualization of auditory cortical function

10:00 – 10:30 Coffee Break • KC 201/203/205 & 303

SESSION 2 • Chairs: Robert Liu and Molly Henry

10:30 – 11:00 **Invited Speaker - Matthew McGinley**, Baylor College of Medicine
Neuromodulation of auditory perception during brain states and behaviors

11:00 – 11:30 **10 Minute Trainee Talks**
Stephen Town, University College London
Egocentric and allocentric representations in auditory cortex
Janani Sundararajan, Duke University
Mechanisms of movement-related changes in auditory detection thresholds
Omer Gulban, Maastricht University
Mapping functional and anatomical connections within the human auditory pathway with ultra-high field MRI

11:30 – 12:00 **Invited Speaker - Marc Schoenwiesner**, University of Leipzig
In-ear modification of spatial hearing

12:00 – 12:15 Group Photo

12:15 – 1:30 Lunch • Vistas Dining Room

SESSION 3 • Chairs: Chris Stecker and Michael Ortiz Rios

1:30 – 2:00 **Invited Speaker - Maria Geffen**, University of Pennsylvania
Neuronal mechanisms for dynamic auditory perception

2:00 – 2:30 **Invited Speaker – Uta Noppeney**, University of Birmingham
How the brain forms spatial representations from vision and audition

2:30 – 3:00 **10 Minute Trainee Talks**
Alice Milne, Newcastle University
Auditory and visual sequence learning in humans and monkeys
Yishai Elyada, Hebrew University
Stability and plasticity of sensory representation in the auditory cortex
Björn Hermann, University of Western Ontario
Altered adaptation to sound-level statistics in the auditory cortex of older adult humans

3:00 – 3:30 **Invited Speaker - Gregg Recanzone**, University of California, Davis
Hearing and listening with an aged auditory cortex

3:30 – 6:00 **Poster Session 1** • KC 201/203/205 & 303/305

Tuesday, September 12

7:00 – 8:30 Breakfast • Vistas Dining Room

SESSION 4 • Chair: Robert Zattore

8:30 – 9:30 **Keynote Speaker – Stephanie Clarke**, Centre Hospitalier Universitaire Vaudois (CHUV)
Through the jungle of sounds

9:30 – 10:00 **Invited Speaker - Liz Romanski,** University of Rochester
The role of the ventral prefrontal cortex in processing, integrating, and remembering face and vocal information

10:00 – 10:30 Coffee Break • KC 201/203/205 & 303

SESSION 5 • Chairs: Elia Formisano and Max Happel

10:30 – 11:00 **Invited Speaker - Christoph Kayser,** Bielefeld University
Contributions of local speech encoding and functional connectivity to audio-visual speech integration

11:00 – 11:30 **10 Minute Trainee Talks**
Vladimir Jovanovic, University of California, San Diego
A comparison of marmoset frontal cortex neuron responses to acoustic stimuli in multiple behavioral contexts

Katherine Molloy, University College London
Auditory scene segregation can be impaired under high visual load

Nicolas Michalski, Institut Pasteur
Auditory cortex interneuron development requires cadherins operating hair-cell mechanoelectrical transduction

11:30 – 12:00 **Invited Speaker - Sarah Woolley**, Columbia University
Vocal learning drives auditory development

12:00 – 12:15 **Dr. Amy Poremba and Dr. Janet Cyr**, NIDCD, Bethesda, Maryland
Funding and Training Opportunities with NIDCD

12:15 – 1:30 Lunch • Vistas Dining Room

1:30 – 2:00 **Invited Speaker - Rhodri Cusack,** Trinity College Dublin
Why does language not emerge until the second year?

SESSION 6 • Chairs: Fred Dick and Sam Norman-Haignere

2:00 – 2:30 **Invited Speaker - Daniel Polley**, Massachusetts Eye and Ear Infirmary
Turtles all the way down: reorganized sound processing in the cholinergic basal forebrain drives cortical plasticity during learning

2:30 – 3:00 **10 Minute Trainee Talks**

Brian Monson, University of Illinois, Urbana-Champaign
Microstructural development of human primary and nonprimary auditory cortex during the perinatal period

Todd Mowery, New York University
GABAA receptor activation during developmental hearing loss leads to a broad recovery of cellular properties in adults

Meenakshi Asokan, Harvard University
Visualizing homeostatic normalization in the output of long-range auditory subcortical projection neurons following a sudden drop in peripheral afferent drive

3:00 – 3:30 **Invited Speaker - Karen Gordon**, Hospital for Sick Children
Can cortical plasticity compensate for abnormal hearing in childhood?

3:30 – 6:00 **Poster Session 2** • KC 201/203/205 & 303/305

6:00 – 6:30 Break

6:30 Buses leave for MountView BBQ• Professional Development Centre

7:00 – 10:00 MountView BBQ Dinner

Wednesday, September 13

7:00 – 8:30 Breakfast • Vistas Dining Room

SESSION 7 • Chair: Liz Romanski

8:30 – 9:30 **Keynote Speaker – Michael Brainard,** University of California, San Francisco
Auditory and vocal learning in the songbird

9:30 – 10:00 **Invited Speaker - Pascal Belin,** Aix-Marseille Université
The vocal brain: cerebral processing of voice information

10:00 – 10:30 Coffee Break • KC 201/203/205 & 303

SESSION 8 • Chairs: Edmund Lalor and Kerry Walker

10:30 – 11:00 **Invited Speaker - Steffen Hage**, CIN, University of Tübingen
Neural networks underlying vocal behavior in primates

11:00 – 11:30 **10 Minute Trainee Talks**
Steven Eliades, University of Pennsylvania
Role of auditory cortex in self-monitoring and feedback-dependent vocal control

Claudia Roswandowitz, Max Planck Institute for Human Cognitive and Brain Sciences
Obligatory and facultative brain regions for voice-identity recognition

Kelly Chong, Georgia Institute of Tech, Emory University
Behavioral relevance enhances responses at the offset of natural vocalizations in auditory cortex

11:30 – 12:00 **Invited Speaker - Yi Du**, Chinese Academy of Sciences
Lips and tongue are close to ears: Motor contribution to speech perception

12:00 – 12:30 **Invited Speaker - Jennifer Linden**, University College London
Putting sounds in context

12:30 – 2:00 Lunch • Vistas Dining Room

2:00 Individual Activities & Group Excursions

Thursday, September 14

7:00 – 8:30 Breakfast • Vistas Dining Room

SESSION 9 • Chair: Ingrid Johnsrude

8:30 – 9:30 **Keynote Speaker – Barbara Shinn-Cunningham**, Boston University
Cortical control of auditory attention

continues next page

SESSION 9 • *continued*

9:30 – 10:00 **Invited Speaker - Jan Schnupp**, City University of Hong Kong
What can we learn from statistical models of auditory cortex neurons

10:00 – 10:30 Coffee Break • KC 201/203/205 & 303

SESSION 10 • Chairs: Manolo Malmierca and Manon Grube

10:30 – 11:00 **Invited Speaker – Robert Liu,** Emory University
From learning to memory: New insights from auditory neuroethology

11:00 – 11:30 **10 Minute Trainee Talks**

Corrie Camalier, NIMH, National Institutes of Health
Single-neuron correlates of spatial attention and choice in auditory and prefrontal cortex

Yaneri Aguilar Ayala, Instituto de Neurobiologia, UNAM
Monkeys share with humans the neurophysiological basis for encoding sound periodicities as captured by the frequency following response (FFR)

Jennifer Lawlor, Ecole Normale Supérieure, PSL Research University
Mapping the cortical representations of statistical changes from auditory cortices to frontal cortex

11:30 – 12:00 **Invited Speaker - Maria Chait**, University College London
How the human brain detects, represents and uses patterns in sound sequences

12:00 – 1:30 Lunch • Vistas Dining Room

SESSION 11 • Chairs: Lee Miller and Catherine Perrodin

1:30 – 2:00 **Invited Speaker - Michael Wehr**, University of Oregon
A cortico-collicular amplification mechanism for gap detection

2:00 – 2:30 **Invited Speaker - Lori Holt**, Carnegie Mellon University
Incidental auditory category learning

2:30 – 3:00 **10 Minute Trainee Talks**

Liberty Hamilton, University of California, San Francisco
Parallel streams define the temporal dynamics of speech processing across human auditory cortex

Daniel Abrams, Stanford University
Intrinsic functional architecture of Wernicke's, Broca's, and Geschwind's areas of the human speech comprehension network

Kirill Nourski, University of Iowa
Functional organization of human auditory cortex: An intracranial electrophysiology perspective

3:00 – 3:30 **Invited Speaker - Shihab Shamma,** University of Maryland
Emergence of category percepts in auditory cortex

3:30 – 6:00 **Poster Session 3** • KC 201/203/205 & 303/305

6:00 – 9:00 Farewell Dinner • Husky Great Hall (KC 101/103/105)

Friday, September 15

8:00 AM **ICAC Airport Shuttle departs** • Professional Development Centre

ICAC Delegates

This list was compiled on August 26, 2017.

First Name	Last Name	Affiliation	Country
Daniel	Abrams	Stanford University	United States
Yaneri	Aguilar Ayala	Instituto de Neurobiologia, UNAM	Mexico
Caroline	Alencar	University of Western Ontario	Canada
Emily	Allen	University of Minnesota	United States
Christian	Altmann	Kyoto University	Japan
Carly	Anderson	Action on Hearing Loss	United Kingdom
Nicole	Angenstein	Leibniz Institute for Neurobiology	Germany
Meenakshi	Asokan	Harvard University	United States
Ryszard	Auksztulewicz	University of Oxford	United Kingdom
Khurshid Ali	Bangash	CMH Multan Cantt	Pakistan
Matthew	Banks	University of Wisconsin School of Medicine and Public Health	United States
Xiaohan	Bao	Cumming School of Medicine, University of Calgary	Canada
Mehran	Barari	Pejvak Clinic	Iran
Tania	Barkat	Basel University	Switzerland
Edward	Bartlett	Purdue University	United States
Sara	Beach	Harvard University & MIT	United States
Monique	Beaudoin	US Office of Naval Research (ONR) Global	United Kingdom
Adam	Bednar	Trinity College Dublin	United States
Pascal	Belin	Aix-Marseille University	France
Daniel	Bendor	University College London	United Kingdom
Eva	Berlot	University of Western Ontario	Canada
Kasia	Bieszczad	Rutgers University	United States
Alexander	Billig	University of Western Ontario	Canada
Célian	Bimbard	École Normale Supérieure - ENS Paris, PSL Research University	France
Jennifer	Bizley	University College London	United Kingdom
Jennifer	Blackwell	University of Pennsylvania	United States
Dana	Boebinger	Harvard University	United States
Yves	Boubenec	École Normale Supérieure	France
Catherine	Boucher	University of Western Ontario	Canada
Michael	Brainard	University of California, San Francisco / HHMI	United States
André	Brechmann	Leibniz Institute for Neurobiology	Germany
Christian	Brodbeck	University of Maryland	United States
Michael	Broderick	Trinity College Dublin	Ireland
Marcel	Brosch	Leibniz Institute for Neurobiology	Germany
Michael	Brosch	Leibniz Institute for Neurobiology	Germany
Michael	Brunk	Systems Physiology of Learning	Germany
Eike	Budinger	Leibniz Institute for Neurobiology Magdeburg	Germany
Blake	Butler	University of Western Ontario	Canada
Maude	Cadieux-Laurin	Lobe	Canada
Corrie	Camalier	NIMH/National Institutes of Health	United States
Daniel	Cameron	Georgetown University	United States
Francesco	Caprini	Birkbeck, University of London	United Kingdom
Melissa	Caras	New York University	United States
Hannalice	Cavalcanti	UFPB	Brazil
Maria	Chait	UCL	United Kingdom
Jordan	Chambers	University of Melbourne	Australia
Bharath	Chandrasekaran	The University of Texas at Austin	United States
Kelly	Chong	Georgia Institute of Tech / Emory University	United States
Mike	Cisneros-Franco	McGill University	Canada
Stephanie	Clarke	Centre Hospitalier Universitaire Vaudois (CHUV)	Switzerland

ICAC Delegates

First Name	Last Name	Affiliation	Country
H Ruth	Clemo	Virginia Commonwealth University School of Medicine	United States
Emily	Coffey	Montreal Neurological Institute, McGill University	Canada
Yale	Cohen	University of Pennsylvania	United States
Jonathan	Cote	McGill University	Canada
Rodica	Curtu	University of Iowa	United States
Rhodri	Cusack	Trinity College Dublin	Ireland
Janet	Cyr	NIH	United States
Sandra	Da Costa	CIBM, EPFL	Switzerland
Stephen	David	Oregon Health & Science University	United States
Etienne	de Villers-Sidani	Montreal Neurological Institute	Canada
Susann	Deike	Leibniz Institute for Neurobiology Magdeburg	Germany
Kiki	Derey	Maastricht University	Netherlands
Fred	Dick	Birkbeck College and UCL	United Kingdom
Niels	Disbergen	Maastricht University, Maastricht, The Netherlands	Netherlands
Joshua	Downer	UCSF	United States
Yi	Du	Institute of Psychology, Chinese Academy of Sciences	China, People's Republic of
Jos	Eggermont	University of Calgary	Canada
Steven	Eliades	University of Pennsylvania	United States
Gabriel	Elias	University of California Irvine	United States
Yishai	Elyada	Hebrew University	Israel
Crystal	Engineer	The University of Texas at Dallas	United States
Jenelle	Feather	MIT	United States
Martina	Feierabend	Department of Neurology, University of Tübingen	Germany
Justin	Fleming	Harvard University	United States
Elia	Formisano	Maastricht University	Netherlands
Neal	Fox	University of California, San Francisco	United States
Tom	Francart	University of Leuven - KU Leuven	Belgium
Jonathan	Fritz	University of Maryland	United States
Mathilde	Gagliardini	Institut Pasteur	France
Darik	Gamble	Johns Hopkins University	United States
Phillip	Gander	University of Iowa	United States
Jennifer	Gay	Northeast Ohio Medical University	United States
Maria	Geffen	University of Pennsylvania	United States
Jaimie	Gilbert	University of Northern Iowa	United States
Bruno	Giordano	Centre National de la Recherche Scientifique	France
Karen	Gordon	Hospital for Sick Children	Canada
Boris	Gourevitch	Inserm, Pasteur Institute	France
Jessica	Grahn	University of Western Ontario	Canada
Robin	Gransier	KU Leuven	Belgium
Anais	Gregoire	University Hospital of Saint Luc	Belgium
TImothy	Griffiths	Newcastle Unviersity	United Kingdom
Tiffany	Grisendi	Centre Hospitalier Universitaire Vaudois (CHUV)	Switzerland
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Dominik	Güntensperger	University of Zurich	Switzerland
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Steffen	Hage	CIN, University of Tübingen	Germany
Aida	Hajizadeh	Leibniz Institute for Neurobiology	Germany
Liberty	Hamilton	University of California, San Francisco	United States
Natalie	Hansen	Air Force Research Labs	United States
Max	Happel	Leibniz Institute for Neurobiology	Germany

First Name	Last Name	Affiliation	Country
Nicol	Harper	University of Oxford	United Kingdom
Robert	Harrison	The Hospital for Sick Children	Canada
Peggy	Hatzoulis	NexGen Hearing	Canada
Lars	Hausfeld	Maastricht University	Netherlands
Minoru	Hayashi	Meisei University	Japan
Peter	Heil	Leibniz Institute for Neurobiology	Germany
Molly	Henry	University of Western Ontario	Canada
Julia	Henschke	Leibniz Institute for Neurobiology	Germany
Björn	Herrmann	University of Western Ontario	Canada
Jens	Hjortkjær	Technical University of Denmark	Denmark
Emma	Holmes	University of Western Ontario	Canada
Lori	Holt	Carnegie Mellon University	United States
Natsumi	Homma	University of California San Francisco	United States
Peter	Hubka	Hannover Medical School	Germany
Mark	Hymers	University of York	United Kingdom
Dexter	Irvine	Monash University and Bionics Institute	Australia
Aleksandar	Ivanov	The University of Oxford	United Kingdom
Zahra	Jafari	Lethbridge University	Canada
Ingrid	Johnsrude	University of Western Ontario	Canada
Neha	Joshi	University of Maryland	United States
Vladimir	Jovanovic	University of California, San Diego	United States
Natalya	Kaganovich	Purdue University	United States
Christoph	Kayser	Bielefeld University	Germany
Stephanie	Kayser	University of Glasgow	United Kingdom
Alexander	Kell	MIT	United States
Abbas	Khani	University of Geneva	Switzerland
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Nina	Kraus	Northwestern University	United States
Jens	Kreitewolf	University of Lübeck	Germany
Jennifer	Krizman	Northwestern University	United States
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Edmund	Lalor	University of Rochester	United States
Jennifer	Lawlor	Ecole Normale Supérieure - PSL Research University	France
Jackson	Lee	Duke University	United States
Luis	Lemus	National Autonomous University of Mexico	Mexico
Alexandra	Levine	University of Western Ontario	Canada
Jennifer	Linden	University College London	United Kingdom
Robert	Liu	Emory University	United States
Wanyi	Liu	University of Maryland, College Park	United States
Diana	Lomber	University of Western Ontario	Canada
Stephen	Lomber	University of Western Ontario	Canada
Psyche	Loui	Wesleyan University	United States
Artur	Luczak	University of Lethbridge	Canada
Guangting	Mai	University College London	United Kingdom
Manuel	Malmierca	University of Salamanca	Spain
Ido	Maor	The Hebrew University of Jerusalem	Israel
Matthew	McGinley	Baylor College of Medicine	United States
M Alex	Meredith	Virginia Commonwealth University School of Medicine	United States
Michael	Metke	University of California, San Diego	United States
Nicolas	Michalski	Institut Pasteur	France
John	Middlebrooks	University of California at Irvine	United States

ICAC Delegates

First Name	Last Name	Affiliation	Country
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Lee	Miller	University of California, Davis	United States
Alice	Milne	Newcastle University	United Kingdom
Adi	Mizrahi	Hebrew University	Israel
Michelle	Moerel	Maastricht University	Netherlands
Jennifer	Mohn	University of California Davis	United States
Brian	Monson	University of Illinois, Urbana-Champaign	United States
Todd	Mowery	NYU	United States
Frank	Musiek	University of Arizona	United States
Israel	Nelken	Hebrew University	Israel
Hartmut	Niekisch	Leibniz Institute for Neurobiology	Germany
Fernando	Nodal	University of Oxford	United Kingdom
Uta	Noppeney	University of Birmingham	United Kingdom
Jonatan	Nordmark	École Normale Supérieure, Paris	Sweden
Sam	Norman-Haignere	École Normale Supérieure	France
Kirill	Nourski	The University of Iowa	United States
Yulia	Oganian	University of California, San Francisco	United States
Michael	Ortiz Rios	Newcastle University	United Kingdom
Aisling	O'Sullivan	Trinity College Dublin and University of Rochester	United States
James	O'Sullivan	Columbia University	United States
Tobias	Overath	Duke University	United States
Min-Hyun	Park	Seoul National University, Boramae Medical Center	South Korea
Kristina	Penikis	New York University	United States
Catherine	Perrodin	University College London	United Kingdom
Mimi	Phan	Rutgers University	United States
Martin	Pienkowski	Salus University	United States
Daniel	Polley	Harvard Medical School / Mass. Eye and Ear Infirmary	United States
Melissa	Polonenko	The Hospital for Sick Children, The University of Toronto	Canada
Amy	Poremba	NIH	United States
David	Prete	McMaster University	Canada
Sebastian	Puschmann	Montreal Neurological Institute, McGill University	Canada
Jiyao	Qi	University of Calgary	Canada
Farhad	Qureshi	University of Calgary	Canada
Araceli	Ramirez-Cardenas	University of Iowa	United States
John	Ratnanather	Johns Hopkins University	United States
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Rachel	Reetzke	University of Texas at Austin	United States
Jennifer	Resnik	Harvard Medical School	United States
Jonathan	Riley	University of Texas at Dallas	United States
John	Rinzel	New York University	United States
Francisco	Rodriguez Campos	University of Pennsylvania School of Medicine	United States
Lizabeth	Romanski	University of Rochester School of Medicine	United States
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Sanne	Rutten	University Geneva	Switzerland
Srivatsun	Sadagopan	University of Pittsburgh	United States
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Catia	Sameiro Barbosa	Centre Hospitalier Universitaire Vaudois (CHUV)	Switzerland
Iria	SanMiguel	University of Barcelona	Spain
Stefanie	Schelinski	Max Planck Society	Germany
Jan	Schnupp	City University of Hong Kong	Hong Kong
Marc	Schönwiesner	University of Leipzig; University of Montreal	Germany; Canada

First Name	Last Name	Affiliation	Country
William	Sedley	Newcastle University	United Kingdom
Jermyn	See	UCSF	United States
Luke	Shaheen	Oregon Health & Science University	United States
Shihab	Shamma	University of Maryland and Ecole Normale Superieure	United States
Martha	Shiell	Maastricht University	Netherlands
Barbara	Shinn-Cunningham	Boston University	United States
Tomoyo	Shiramatsu	The University of Tokyo	Japan
Jonathan	Simon	University of Maryland	United States
Yosef	Singer	University of Oxford	United Kingdom
Joel	Snyder	University of Nevada, Las Vegas	United States
Joseph	Sollini	University College London	United Kingdom
Magdalena	Solyga	Basel University	Switzerland
Barrett	St. George	The University of Arizona	United States
G. Christopher	Stecker	Vanderbilt University School of Medicine	United States
Gerry	Stefanatos	Temple University	United States
Hannah	Stewart	Cincinnati Children's Hospital	United States
Mitchell	Sutter	University of California, Davis	United States
Hirokazu	Takahashi	The University of Tokyo	Japan
Claire	Tang	University of California, San Francisco	United States
Huizhong	Tao	University of Southern California	United States
Gen-ichi	Tasaka	The Hebrew University of Jerusalem	Israel
Xiangbin	Teng	Max Planck Institute for Empirical Aesthetics	Germany
Emily	Teoh	Trinity College Dublin	United States
Hiroki	Terashima	NTT	Japan
Maryse	Thomas	McGill University	Canada
Jessica	Thompson	Université de Montréal	Canada
Shruti	Ullas	Maastricht University	Netherlands
Jonas	Vanthornhout	KU Leuven	Belgium
Sarah	Verhulst	Ghent University	Belgium
Mathias	Voigt	Hannover Medical School	Germany
Kerry	Walker	University of Oxford	United Kingdom
Qian	Wang	Sanbo Brain Hospital, Capital Medical University	China, People's Republic of
Stuart	Washington	University of Antwerp	Belgium
Mike	Wehr	University of Oregon	United States
Travis	White-Schwoch	Northwestern University	United States
Ross	Williamson	Massachusetts Eye and Ear Infirmary	United States
Carmen	Wong	University of Western Ontario	Canada
Sarah	Woolley	Columbia University	United States
Jan	Wouters	University of Leuven	Belgium
Jun	Yan	University of Calgary	Canada
Justin	Yao	New York University	United States
Han	Yi	University of California, San Francisco	United States
Pingbo	Yin	University of Maryland	United States
Robert	Zatorre	McGill University	Canada
Maria -Marina	Zempeltzi	Leibniz Institute for Neurobiology	Germany
Li	Zhang	University of Southern California	United States
Sijia	Zhao	University College London	United Kingdom
Jennifer	Zuk	Harvard University	United States
Nathaniel	Zuk	University of Rochester	United States

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GORDON RESEARCH CONFERENCE 2018

AUDITORY SYSTEMS

FUNCTION, DYSFUNCTION & RESTORATION

Bryant University, Smithfield Rhode Island, USA

CONFERENCE

JULY 8-13, 2018

ORGANIZERS:

JEFF HOLT

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GORDON RESEARCH SEMINAR

For graduate students and post-docs

JULY 7-8, 2018

ORGANIZER: MELISSA CARAS *caras@nyu.edu*

ICAC 2017 Travel Award Recipients

The following delegates received travel awards to attend the International Conference on Auditory Cortex. These awards were made possible through generous donations by the **National Institute on Deafness and Other Communication Disorders** of the **U.S. National Institutes of Health**, the **Canadian Institutes of Health Research**, **Action on Hearing Loss**, and the **Wellcome Trust**.

Yaneri Aguilar Ayala, Instituto de Neurobiología, UNAM, Mexico

Emily Allen, University of Minnesota, United States

Meenakshi Asokan, Harvard University, United States

Ryszard Auksztulewicz, University of Oxford, United Kingdom

Xiaohan Bao, University of Calgary, Canada

Jennifer Blackwell, University of Pennsylvania, United States

Christian Brodbeck, University of Maryland, United States

Blake Butler, University of Western Ontario, Canada

Francesco Caprini, Birkbeck, University of London, United Kingdom

Kelly Chong, Georgia Institute of Tech / Emory University, United States

Emily Coffey, Montreal Neurological Institute / McGill University, Canada

James Cooke, Univeristy College London, United Kingdom

Jonathan Cote, McGill, Canada

Gabriel Elias, University of California Irvine, United States

Gangyi Feng, The University of Texas at Austin, United States

Neal Fox, University of California, San Francisco, United States

Darik Gamble, Johns Hopkins University, United States

Jennifer Gay, Northeast Ohio Medical University, United States

Faruk Gulban, Maastricht University, Netherlands

Liberty Hamilton, University of California, San Francisco, United States

Molly Henry, University of Western Ontario, Canada

Björn Herrmann, University of Western Ontario, Canada

Natsumi Homma, University of California San Francisco, United States

Aleksandar Ivanov, The University of Oxford, United Kingdom

Zahra Jafari, University of Lethbridge, Canada

Neha Joshi, University of Maryland, United States

Vladimir Jovanovic, UC San Diego, United States

Stephanie Kayser, University of Glasgow, United Kingdom

Alexander Kell, MIT, United States

Abbas Khani, University of Geneva, Switzerland

Jennifer Lawlor, Ecole Normale Supérieure - PSL Research University, France

Jackson Lee, Duke University, United States

Alexandra Levine, University of Western Ontario, Canada

Wanyi Liu, University of Maryland, College Park, United States

Guangting Mai, University College London, United Kingdom

Ido Maor, The Hebrew University of Jerusalem, Israel

Alice Milne, Newcastle University, United Kingdom

Jennifer Mohn, University of California Davis, United States

Katharine Molloy, University College London, United Kingdom

Brian Monson, University of Illinois, Urbana-Champaign

Sam Norman-Haignere, École Normale Supérieure, United States

Yulia Oganian, University of California, San Francisco, United States

Michael Ortiz Rios, Newcastle University, United Kingdom

James O'Sullivan, Columbia University, United States

Indra Pal, All India Institute of Medical Sciences, New Delhi, India

Catherine Perrodin, University College London, United Kingdom

Melissa Polonenko, The Hospital for Sick Children, The University of Toronto, Canada

David Prete, McMaster University, Canada

Sebastian Puschmann, Montreal Neurological Institute, McGill University, Canada

Farhad Qureshi, University of Calgary, Canada

Rachel Reetzke, University of Texas at Austin, United States

Jennifer Resnik, Harvard Medical School, United States

Francisco Rodriguez Campos, University of Pennsylvania School of Medicine, United States

Claudia Roswandowitz, Max Planck Institute for Human Cognitive and Brain Sciences, Germany

William Sedley, Newcastle University, United Kingdom

Yosef Singer, University of Oxford, United Kingdom

Joseph Sollini, University College London, United Kingdom

Barrett St. George, The University of Arizona, United States

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Sijia Zhao, University College London, United Kingdom

The 7th International Conference on Auditory Cortex

Magdeburg, Germany 2020

Hotel Herrenkrug

International Conference on Auditory Cortex

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Poster Sessions | Authors, Titles and Affiliations

The 6th International Conference on Auditory Cortex is pleased to present a wide range of current research through the poster sessions. Poster presentations have been divided into 3 sessions and arranged based on poster themes. All posters will be available to view for the duration of the conference.

Poster Session 1

Monday, September 11, 3:30 PM – 6:00 PM

Poster Session 2

Tuesday, September 12, 3:30 PM – 6:00 PM

Poster Session 3

Thursday, September 14, 3:30 PM – 6:00 PM

The poster numbers are divided first by session, then by theme and finally with a unique number:

Session – Theme – Board Number (eg. 1-A-1)

Themes

A Novel Neurotechnologies
B Thalamocortical Circuitry and Function
C Multisensory Processes
D Correlates of Auditory Behavior/Perception
E Neuroethology and Communication
F Brain Processing of Language
G Hierarchical Sensory Organization
H Subcortical Auditory Processing
I Auditory Disorders
J Auditory Memory and Cognition
K Cross-Species Comparisons
L Neural Coding

Session 1

Monday, September 11

3:30 PM – 6:00 PM

Posters are listed by theme.

1-A-1 VSAD: A new battery for the evaluation of visuo-spatial abilities in deafness

Emilie Lacroix[1], Naïma Deggouj[1], Martin Edwards[2]

[1]Cliniques universitaires Saint-Luc - UCL, [2]Université Catholique de louvain

1-A-2 Mesoscopic topographically measurements of the auditory cortex with newly developed flexible and transparent multichannel electrodes

Marcel Brosch[1], Michael Lippert[1], Martin Deckert[2], Kentaroh Takagaki[1], Andreas Brose[2], Bertram Schmidt[2], Frank Ohl[1]

[1]Leibniz Institute for Neurobiology, [2]Institute of Micro and Sensor Systems, University Magdeburg

1-A-3 Hearing loss and neurotechnology: New approaches to improve speech perception

Lee Miller[1], Andrew Kessler[1], Britt Yazel[1], Kristina Backer[1], Markham Anderson[1], Nathaniel Guttierrez[1], Laurel Lawyer[1], Sanjay Joshi[1], David Corina[1]

[1]Univ. California, Davis

1-B-8 Abnormal cortical spike timing in Cdhr15+/- mutant mice displaying a reduced number of auditory cortex parvalbumin interneurons

Marie-Alexandra Strigalev[1], Typhaine Dupont[1], Baptiste Libé-Philippot[1], Nicolas Michalski[1], Christine Petit[1], Boris Gourevitch[1]

[1]Inserm, Pasteur Institute

1-B-9 Experience is required for development of longer-range, but less for local cortical connectivity

Peter Hubka[1], Jochen Tillein[2], Andrej Kral[1]

[1]Hannover Medical School, [2]J.W. Goethe University

1-B-10 Spectrally-directed attention in human auditory cortex is topographically organized and related to myeloarchitecture

Frederic Dick[1], Matthew Lehet[2], Martina Callaghan[3], Tim Keller[2], Martin Sereno[4], Lori Holt[2]

[1]Birkbeck College, University of London, [2]Carnegie Mellon University, [3]University College London, [4]San Diego State University

1-C-19 Auditory N1 morphology associated with dynamic visual gestures

Jaimie Gilbert[1]

[1]University of Northern Iowa

1-C-20 Early sensory deprivation alters the morphology of supragranular pyramidal neurons in primary sensory cortices

Tamar Macharadze[1], Julia Henschke[1], Henning Scheich[1], Frank Ohl[1], Eike Budinger[1]

[1]Leibniz Institute for Neurobiology Magdeburg

1-C-21 Multisensory effects in natural audiovisual speech processing are reflected in EEG predictions

Aisling O'Sullivan[1], Michael Crosse[2], Edmund Lalor[3]

[1]Trinity College Dublin and University of Rochester, [2]Albert Einstein College of Medicine, [3]University of Rochester

1-D-26 Prestimulus influences on auditory perception - Consistency along the life-span

Stephanie Kayser[1], Steven McNair[1], Christoph Kayser[1]

[1]University of Glasgow

1-D-27 Mapping frequency specific tone predictions in human auditory cortex at high spatial resolution

Eva Berlot[1], Elia Formisano[2], Federico De Martino[2]

[1]University of Western Ontario, [2]Maastricht University

1-D-28 Probing neural mechanisms of auditory streaming in humans by transcranial direct current stimulation

Susann Deike[1], Matthias Deliano[1], Patrick J.C. May[1], André Brechmann[1]

[1]Leibniz Institute for Neurobiology Magdeburg

1-D-29 Representation of pitch across spectral regions in human auditory cortex

Jens Hjortkjær[1], Federica Bianchi[1]

[1]Technical University of Denmark

1-D-30 How are familiar voices represented in auditory cortex?

Emma Holmes[1], Ingrid Johnsrude[1]

[1]University of Western Ontario

1-D-31 Preference test of sound among multiple alternatives in rats

Ryo Soga[1], Tomoyo Shiramatsu[1]

[1]The University of Tokyo

1-D-32 Developmental hearing loss impairs fast temporal processing

Justin Yao[1], Dan Sanes[1]

[1]New York University

1-D-33 Self-induction of sound motion does not attenuate the auditory motion-onset response

Christian Altmann[1], Daiki Yamasaki[1], Benoit Bucher[1]

[1]Kyoto University

1-D-34 Human auditory cortex representation of spatial separation between concurrent sounds

Martha Shiell[1], Lars Hausfeld[1], Elia Formisano[1]

[1]Maastricht University

1-D-35 Spiking activity in auditory cortex to identity-preserving changes in sounds

Francisco Rodriguez Campos[1], Josh McDermott[2], Yale Cohen[1]

[1]University of Pennsylvania School of Medicine, [2]Massachusetts Institute of Technology

1-D-36 A task-dependent gradient of spatial sensitivity in human auditory cortex

Kiki Derey[1], Josef Rauschecker[2], Elia Formisano[1], Giancarlo Valente[1], Beatrice De Gelder[1]

[1]Maastricht University, [2]Georgetown University

1-D-37 Distinct temporal processing schemes for speech and music

Nathaniel Zuk[1], Jeremy Murphy[2], Edmund Lalor[1]

[1]University of Rochester, [2]Trinity College

1-D-38 Prolonged development of temporal integration in auditory cortex

Jennifer Gay[1], Merri Rosen[1]

[1]Northeast Ohio Medical University

1-D-39 A freely-moving operant system for auditory discrimination in common marmosets

Michael Metke[1], Cory Miller[1]

[1]UC San Diego

1-D-40 Do oscillatory dynamics of pre-stimulus EEG predict trial-by-trial fluctuations in auditory pattern identification?

Natalie Hansen[1], Matthew Wisniewski[1], Nandini Iyer[1], Brian Simpson[1], Assaf Harel[2]

[1]Air Force Research Laboratory, [2]Wright State University

1-D-41 Multimodal assessment of training-induced plasticity of the cholinergic system

Miguel Cisneros-Franco[1], Maryse Thomas[1], Min-Su Kang[1], Pedro Rosa-Neto[1], Etienne de Villers-Sidani[1]

[1]McGill University

1-D-42 On the effect of interpersonal familiarity on auditory distance perception

Ozgen Demirkaplan[1], Huseyin Hacihabiboglu[2]

[1]Middle East Technical University, [2]Middle East Technical University (METU)

1-D-43 Rapid plasticity in auditory cortical receptive fields can be reproduced in a neural network model by changing synaptic strengths

Jordan Chambers[1], Jonathan Fritz[2], Shihab Shamma[2], Anthony Burkitt[1], David Grayden[1]

[1]University of Melbourne, [2]University of Maryland

1-E-81 Bilateral song processing in the zebra finch auditory forebrain reflects asymmetric sensitivity to temporal and spectral features

Lisbeth Van Ruijssevelt[1], Stuart Washington[1], Julie Hamaide[1], Marleen Verhoye[1], Georgios Keliris[1], Annemie Van der Linden[1]

[1]University of Antwerp

1-F-83 Lexical and audiovisual influences on phoneme boundary recalibration: an fMRI study

Shruti Ullas[1], Lars Hausfeld[1], Frank Eisner[2], Anne Cutler[3], Elia Formisano[1]

[1]Maastricht University, [2]Radboud University Nijmegen, [3]Max Planck Institute for Psycholinguistics

1-F-84 Selective attention in a spectro-temporally complex auditory scene: a ferret cocktail party

Joseph Sollini[1], Stephen Town[1], Kath Wood[2], Jennifer Bizley[1]

[1]University College London, [2]University of Pennsylvania

1-F-85 Neural encoding of attended speech in primary and non-primary human auditory cortices

James O'Sullivan[1], Jose Herrero[2], Sameer Sheth[3], Guy McKhann[3], Ashesh Mehta[2], Nima Mesgarani[1]

[1]Columbia University, [2]Feinstein Institute for Medical Research, [3]Department of Neurological Surgery, The Neurological Institute

1-F-86 Unique roles for delta and theta frequency bands in the cortical analysis of temporal speech structure

Jackson Lee[1], Aurelio Falconi[1], Tobias Overath[1]

[1]Duke University

1-F-87 Representations of amplitude modulations in auditory onsets, ramp tones, and speech in the human superior temporal gyrus

Yulia Oganian[1], Edward Chang[1]

[1]University of California, San Francisco

1-F-88 Development of timing of turn-taking from adolescence to adulthood

Lilla Magyari[1, 2]

[1]Pázmány Péter Catholic University, [2]Eötvös Loránd Tudomány Egyetem

1-G-102 Exploring the robustness of cortical sound encoding to real-world background noise

Alexander Kell[1], Josh McDermott[1]

[1]MIT

1-G-103 Frequency-selective sustained attention training modulates cortical and subcortical electrophysiological responses

Aeron Laffere[1], Frederic Dick[2], Adam Tierney[1]

[1]Dept of Psychological Sciences, Birkbeck College, [2]Dept of Psychological Sciences, Birkbeck College, and Experimental Psychology, UCL

1-G-104 Using a V1 model to understand the disordered topography and "complex" pitch cells of A1

Hiroki Terashima[1], Masato Okada[2]

[1]NTT, [2]The University of Tokyo

1-G-105 Electrocorticographic (ECoG) investigation of auditory predictive coding in the human brain across levels of consciousness

Matthew Banks[1], Kirill Nourski[2], Ariane Rhone[2], Mitchell Steinschneider[3], Hiroto Kawasaki[2], Matthew Howard III[2]

[1]University of Wisconsin School of Medicine and Public Health, [2]The University of Iowa, [3]Albert Einstein College of Medicine

1-G-106 Feedforward and feedback mechanisms governing sensory gating in mice auditory pathway

Abbas Khani[1], Florian Lanz[1], Karl Schaller[1], Christoph Michel[1], Charles Quairiaux[1]

[1]University of Geneva

1-H-116 Pitch and phonetic cues are coded by independent mechanisms in the subcortical auditory system

Travis White-Schwoch[1], Jennifer Krizman[1], Trent Nicol[1], Nina Kraus[1]

[1]Northwestern University

1-I-123 Altered expression of glutamic acid decarboxylase (GAD1) in the aging human inferior colliculus

Indra Pal[1], Tony Jacobe[1], Daya Bhardwaj[1], Rima Dada[1], Tara Roy[1]

[1]All India Institute of Medical Sciences, New Delhi

1-I-125 Relationship between speech-evoked neural responses in the auditory sensory system and perception of speech in noise in older adults

Guangting Mai[1], Jyrki Tuomainen[1], Peter Howell[1]

[1]University College London

1-I-126 Speech and non-speech cortical activation in children with listening difficulties using fMRI

Hannah Stewart[1], Kim Leiken[1], Scott Holland[1], Tom Maloney[1], Nicholette Sloat[1], Audrey Perdew[1], Lisa Hunter[1], Jennifer Vannest[1], David Moore[1]

[1]Cincinnati Children's Hospital Medical Center

1-I-127 Sensory precision in tinnitus: a unifying framework for understanding, modelling and treatment?

William Sedley[1], Sukhbinder Kumar[1], Phillip Gander[2], Karl Friston[3], Timothy Griffiths[1]

[1]Newcastle University, [2]University of Iowa, [3]University College London

1-J-138 Extracellular matrix in auditory cortex of adult rodents: impact on remote memory control and learning flexibility

Hartmut Niekisch[1], Julia Steinhardt[2], Julia Berghäuser[3], Jana Kasper[1], Erika Kaschinski[1], Sara Bertazzoni[1], Judith Weber[1], Renato Frischknecht[4], Max Happel[1]

[1]Leibniz Institute for Neurobiology, [2]University of Lübeck, [3]Technical University Dresden, [4]Friedrich Alexander University Erlangen-Nürnberg

1-J-139 Imaging neural correlates of learning in awake ferrets using functional UltraSound

Célian Bimbard[1], Charlie Demené[2], Shihab Shamma[1], Mickael Tanter[2], Yves Boubenec[1]

[1]École Normale Supérieure - ENS Paris, PSL Research University, CNRS, [2]Institut Langevin, ESPCI, PSL Research University, CNRS, Inserm

1-J-140 Behavioural evidence for a relationship between auditory object grouping and speech-in-noise processing

Phillip Gander[1], Inyong Choi[1], Bob McMurray, Tim Griffiths[2]

[1]University of Iowa, [2]Newcastle University

1-J-141 Rhythmic perceptual prior revealed by iterated reproduction

Nori Jacoby[1], Josh McDermott[2]

[1]Columbia University, [2]Massachusetts Institute of Technology

1-K-117 Phasic pupil-linked arousal reduces decision biases in mice and humans

Jan Willem de Gee[1], Konstantinos Tsetsos[1], David A McCormick[2], Matthew McGinley[3], Tobias H Donner[1]

[1]Department of Neurophysiology and Pathophysiology, University Medical Center Hamburg-Eppendorf, [2]Department of Neurobiology, Kavli Institute for Neuroscience, Yale University School of Medicine, [3]Duncan Neurological Research Institute, Baylor College of Medicine

1-L-151 A perceptual model of timbre in human auditory cortex

Emily Allen[1], Michelle Moerel[2], Elia Formisano[2], Andrew Oxenham[1]

[1]University of Minnesota, [2]Maastricht University

1-L-152 Reverberant sound processing in the auditory system

Aleksandar Ivanov[1], Benjamin Willmore[1], Andrew King[1], Kerry Walker[1], Nicol Harper[1]

[1]The University of Oxford

1-L-153 The cortical representation of sounds with speech-like modulation rates tested with multi-dimensional scaling

Xiangbin TENG[1], David Poeppel[1]

[1]Max Planck Institute for empiriral aesthetics

1-L-154 Looming enhanced frequency following responses in rats

Xiaohan Bao[1], Qian Wang[2], Liang Li[3]

[1]Cumming School of Medicine, University of Calgary., [2]Capital Medical University / Sanbo Brain Hospital, [3]Peking University

1-L-155 On the neural representation of sound categories in human auditory cortex

Vittoria De Angelis[1], Federico De Martino[1], Michelle Moerel[1], Elia Formisano[1]

[1]Maastricht University

1-L-156 Physiological correlates of the effects of musical scale structures on learning syntactic regularities in melodies

Claire Pelofi[1], Mohsen Rezaeizadeh[1], Mary Farbood[2], Shihab Shamma[1]

[1]Institute for Systems Research, University of Maryland, [2]Steinhardt school, New York University

1-L-157 Information processing by coordinated neuronal ensembles in the primary auditory cortex

Jermyn See[1], Craig Atencio[1], Vikaas Sohal[1], Christoph Schreiner[1]

[1]UCSF

1-L-158 Pattern classification of temporal cortex responses to self-delivered sounds and their omissions

Iria SanMiguel[1], Erich Schröger[2], Marc Schönwiesner[2]

[1]University of Barcelona, [2]Leipzig University

1-L-159 Encoding of irregular amplitude modulations in gerbil auditory cortex

Kristina Penikis[1], Malcolm Semple[1], Dan Sanes[1]

[1]New York University

Session 2

Tuesday, September 12

3:30 PM – 6:00 PM

Posters are listed by theme.

2-A-4 Behavioral impact of vagus nerve stimulation paired with speech sounds in rats

Jonathan Riley[1], Crystal Engineer[1], Kristofer Loerwald[1], Rachel Herd[1], Kimiya Rahebi[1], Manolo Rios[1], Jesse Bucksot[1], Alan Carroll[1], Michael Kilgard[1]

[1]University of Texas at Dallas

2-A-5 Human primary auditory cortex tonotopic map estimated with magnetoencephalography

Jonathan Cote[1], Jean-Pierre Falet, Etienne de Villers-Sidani[1]

[1]McGill

2-B-11 Distinct sensory and extra-sensory processing differences in two types of deep layer auditory cortex projection neuron

Ross Williamson[1], Daniel Polley[1]

[1]Massachusetts Eye and Ear Infirmary

2-B-12 Neurotransmitter receptor transcript expression by neurons and glia in the auditory forebrain: transcriptome-guided cellular phenotyping

Troy Hackett[1]

[1]Vanderbilt University Medical Center

2-B-13 Layer-specific modulation of vagus nerve stimulation on information representation of the sustained activities in rat auditory cortex

Tomoyo Shiramatsu[1], Kenji Ibayashi[1], Kensuke Kawai[2], Hirokazu Takahashi[1]

[1]The University of Tokyo, [2]Jichi Medical University

2-B-14 Cortical plasticity with bimodal listening in children with asymmetric hearing loss

Melissa Polonenko[1], Blake Papsin[1], Karen Gordon[1]

[1]The Hospital for Sick Children, The University of Toronto

2-C-22 Optogenetic activation of the claustrum induces divisive normalization of tone evoked responses in the auditory cortex

Gal Atlan[1], Anna Terem[1], Noa Peretz-Rivlin[1], Guy Pozner[1], Kamini Sehrawat[1], Ben Gonzales[1], Gen-ichi Tasaka[1], Yael Goll[1], Ron Refaeli[1], Ori Zviran[1], Byungkook Lim[2], Maya Groysman[1], Inbal Goshen[1], Adi Mizrahi[1], Israel Nelken[1], Ami Citri[1]

[1]Hebrew University of Jerusalem, [2]University of California, San Diego

2-C-23 Changes in audiovisual word perception during mid-childhood: an ERP study

Natalya Kaganovich[1], Elizabeth Ancel[1]

[1]Purdue University

2-D-45 Linking neuronal response properties to a decision variable in the auditory cortex

Rasmus Christensen[1], Mari Nakamura[2], Henrik Linden[1], Tania Barkat[2]

[1]Copenhagen University, [2]Basel University

2-D-46 Modification of the adult rat tonotopic map through passive sound exposure impairs performance on a tone discrimination task

Maryse Thomas[1], J. Miguel Cisneros-Franco[1], Saishree Badrinarayanan[1], Kristina Drudik[1], Etienne de Villers-Sidani[1]

[1]McGill University

2-D-47 Relating speech intelligibility to neural entrainment of the speech envelope

Tom Francart[1], Jonas Vanthornhout[1], Lien Decruy[1], Eline Verschueren[1], Damien Lesenfants[1], Jan Wouters[1]

[1]University of Leuven - KU Leuven

2-D-48 Circuit processing in rodent auditory cortex underlying auditory learning in cognitively demanding tasks

Maria -Marina Zempeltzi[1], Lina Schneider[1], Michael Brunk[1], Matthias Deliano[1], Frank W. Ohl[1], Max Happel[1]

[1]Leibniz Institute for Neurobiology

2-D-49 Pupil dilation responses to violation but not emergence of auditory patterns

Sijia Zhao[1], Maria Chait[1], Shigeto Furukawa[2], Hsin-I Liao[2]

[1]University College London, [2]NTT Communication Science Laboratories

2-D-50 Activity in the ferret auditory cortex during localisation and categorization judgements of multisensory stimuli

Amy Hammond-Kenny[1], Victoria Bajo[1], Andrew King[1], Fernando Nodal[1]

[1]University of Oxford

2-D-51 Linking tonotopy to myeloarchitecture: an in-vivo MRI investigation of the association between frequency selectivity and R1 relaxation rates in the human auditory cortex

Francesco Caprini[1], Micah Allen[2], Martina Callaghan[2], Sam Schwarzkopf[3], Frederic Dick[1]

[1]Birkbeck, University of London, [2]Wellcome Trust Centre for Neuroimaging, UCL, [3]UCL

2-D-52 Separating stimulus-driven and entrained neural responses using musical rhythms

Molly Henry[1], Aaron Gibbings[1], Jessica Grahn[1]

[1]The University of Western Ontario

2-D-53 Auditory-motor temporal recalibration: relationship between illusory reversal of action and sensation with auditory semantic representations

Catia Sameiro Barbosa[1], Eveline Geiser[1], Stephanie Clarke[1]

[1]Centre Hospitalier Universitaire Vaudois (CHUV)

2-D-54 Perceptual alternation in auditory streaming as an evidence accumulation process

Rodica Curtu[1], Anh Nguyen[1], John Rinzel[2]

[1]University of Iowa, [2]New York University

2-D-55 Effects of feature selective attention in single neurons in primary and belt auditory cortex

Jennifer Mohn[1], Joshua Downer[1], Kevin O'Connor[1], Mitchell Sutter[1]

[1]University of California Davis

2-D-56 Streaming music in the brain: Investigating the top-down modulation of auditory stream segregation and integration with polyphonic music.

Niels Disbergen[1], Giancarlo Valente[1], Robert Zatorre[2], Elia Formisano[1]

[1]Maastricht University, [2]McGill University

2-D-57 The effect of musical experience on the organization of neural stimulus selectivity in human auditory cortex

Dana Boebinger[1], Josh McDermott[2], Nancy Kanwisher[2]

[1]Harvard University, [2]MIT

2-D-58 Multivariate fMRI and MEG responses to vocalizations reveal temporally and spatially segregated representations of emotion categories and dimensions

Bruno Giordano[1], Caroline Whiting[2], Nikolaus Kriegeskorte, Sonja Kotz[3], Pascal Belin[4], Joachim Gross[2]

[1]Centre National de la Recherche Scientifique, [2]University of Glasgow, [3]Maastricht University, [4]Aix-Marseille Université

2-D-59 Cortical responses reveal individual differences in speech-in-noise understanding ability

Inyong Choi[1], Subong Kim[1], Adam Schwalje[2], Phillip Gander[2], Robert McMurray[1], Timothy Griffiths[3]

[1]University of Iowa, [2]University of Iowa Hospitals and Clinics, [3]Newcastle University

2-D-60 Steady state-evoked potentials reflect context-induced perception of musical beat in an ambiguous rhythm

Karli Nave[1], Erin Hannon[1], Joel Snyder[1]

[1]University of Nevada Las Vegas

2-D-61 Neural responses in auditory cortex predict motion processing thresholds in deaf and hearing individuals

Alexandra Levine[1], Charlotte Codina[2], David Buckley[2], Heidi Baseler[3]

[1]University of Western Ontario, [2]The University of Sheffield, [3]Hull York Medical School (HYMS)

2-D-62 A three-dimensional digital atlas of the mustached bat brain

Stuart Washington[1], Julie Hamaide[1], Gwendolyn Van Steenkiste[1], Ben Jeurissen[1], Jan Sijbers[1], Geert De Groof[1], Sayuan Liang[1], Johan Van Audekerke[1], Jeffrey Wenstrup[2], Annemie Van der Linden[1], Susanne Radtke-Schuller[3], Marleen Verhoye[1]

[1]University of Antwerp, [2]Northeast Ohio Medical University, [3]Biocenter of Ludwig Maximilians University

2-F-89 The effect of bilingualism on syntactic and semantic recognition in children

Delgertsetseg Chuluundorj[1], Nyamsuren Dorjpalam[1], Chuluundorj Begz[1]

[1]University of the Humanities

2-F-90 Effects of selective attention and language experience on cortical entrainment to continuous speech

Rachel Reetzke[1], Zilong Xie[1], Bharath Chandrasekaran[1]

[1]University of Texas at Austin

2-F-91 Electrophysiological markers of auditory temporal processing impairment in word deafness

Gerry Stefanatos[1], Harry Zobel[2]

[1]Temple University, [2]Phliladelphia College of Osteopathic Medicine

2-F-92 Transforming continuous temporal cues to a categorical spatial code in human speech cortex

Neal Fox[1], Matthias Sjerps[2], Matthew Leonard[1], Edward Chang[1]

[1]University of California, San Francisco, [2]University of California, Berkeley

2-F-93 O-15 water PET study of speech in noise processing in cochlear implant patients

Phillip Gander[1], Inyong Choi[1], Laura Ponto[1], Bob McMurray[1], Tim Griffiths[2]

[1]University of Iowa, [2]Newcastle University

2-F-94 Modulation of human auditory cortical responses by a short disruption of auditory feedback

Araceli Ramirez-Cardenas[1], David Peters[1], Ryan Kelley[1], Roozbeh Behroozmand[2], Hiroyuki Oya[1], Hiroto Kawasaki[1], Matthew Howard III[1], Jeremy Greenlee[1]

[1]University of Iowa, [2]University of South Carolina

2-F-95 Examining relationships between brain structure in infancy and subsequent language skills in preschool

Jennifer Zuk[1], Michael Figuccio, Joseph Sanfilippo, Jade Dunstan, Clarisa Carruthers, Nicolas Langer, Xi Yu, Ellen Grant, Nadine Gaab

[1]Harvard University

2-G-107 Neural representation of temporal fine structure and envelope in human auditory cortex

Qian Wang[1], Guoming Luan[1], Liang Li[2]

[1]Sanbo Brain Hospital, Capital Medical University, [2]Peking University

2-G-108 Model-matched sounds reveal that spectrotemporal modulations capture neural tuning in primary but not non-primary auditory cortex

Sam Norman-Haignere[1], Josh McDermott[2]

[1]École Normale Supérieure, [2]MIT

2-G-109 Repetition suppression effect for emotional content

Tiffany Grisendi[1], Olivier Reynaud[2], Sandra Da Costa[2], Stephanie Clarke[1]

[1]CHUV, [2]EPFL

2-G-110 Effects of auditory selective attention on phoneme-level processing in a multi-speaker environment

Emily Teoh[1], Giovanni Di Liberto[1], Edmund Lalor[2]

[1]Trinity College Dublin, [2]University of Rochester

2-H-118 Frequency-specificity of corticofugal postsynaptic potentials in the mouse midbrain

Jiyao Qi[1], Jun Yan[1]

[1]University of Calgary

2-H-119 Task based modulation of MGB at 7T. A frequentist and Bayesian analysis

Paul Mihai[1], Katharina von Kriegstein[1]

[1]Max Planck Institute for Human Cognitive and Brain Sciences

2-H-120 Experiential- and online-changes in subcortical auditory processing arise through distinct mechanisms

Jennifer Krizman[1], Adam Tierney[1], Trent Nicol[1], Nina Kraus[1]

[1]Northwestern University

2-I-128 Auditory steady state brain responses as a measure for atypical neural encoding of speech

Jan Wouters[1], Robin Gransier[1], Ehsan Darestani[1], Astrid De Vos[1], Tom Francart[1], Tine Goossens[1], Robert Luke[1], Astrid van Wieringen[1]

[1]KU Leuven

2-I-129 Acute and long-term circuit level effects of sound trauma in the auditory cortex

Max Happel[1], Marcus Jeschke[1], Konstantin Tziridis[2], Holger Schulze[2], Frank Ohl[1]

[1]Leibniz-Institut f Neurobiologie, [2]Friedrich-Alexander University Erlangen-Nürnberg (FAU)

2-I-130 Cortical auditory evoked potential in children at risk of dyslexia

Aryelly Dayane Nunes[1], Kaio Ramon Lima[1], Anna Paula Dionízio Campelo[2], Cíntia Alves Azoni[1], Hannalice Cavalcanti[3], Antonio Pereira[4], Sheila Balen[1]

[1]Federal University of Rio Grande do Norte, [2]University of São Paulo, [3]Federal University of Paraíba, [4]Federal University of Pará

2-I-131 Impact of unilateral cochlear implantation in single sided deafness in multi-sound environments

Martina Feierabend[1], Ida Zürndorf[1], Anke Tropitzsch[2], Hans-Otto Karnath[1]

[1]Department of Neurology, University of Tübingen, [2]University of Tübingen

2-I-132 Structural imaging of the deafened brain - a review

Tilak Ratnanather[1]

[1]Johns Hopkins University

2-J-142 Predictions for human and animal experiments linking neural adaptation to temporal binding in auditory cortex

Aida Hajizadeh[1], Nina Härtwich[1], Artur Matysiak[1], Reinhard König[1], Patrick May[1]

[1]Leibniz Institute for Neurobiology

2-J-143 Epigenetic mechanisms modulate the formation of auditory memories in songbirds

Mimi Phan[1], Mark Gergues[1], Shafali Mahidadia[1], Rendell Bernabe[1], Jorge Jimenez-Castillo[1], David Vicario[1], Kasia Bieszczad[1]

[1]Rutgers University

2-J-144 Structural correlates of auditory cognition and language in early adolescence

Manon Grube[1], Sukhbinder Kumar[2], Freya Cooper[2], Faye Smith[2], Timothy Griffiths[2]

[1]TU Berlin, [2]Newcastle University

2-K-149 Two-photon imaging reveals "salt and pepper" tonotopy in ferret primary auditory cortex

Quentin Gaucher[1], Mariangela Panniello[1], Aleksandar Ivanov[1], Johannes Dahmen[1], Andrew King[1], Kerry Walker[1]

[1]University of Oxford

2-L-124 Neuronal activity packets as basic units of neuronal code

Artur Luczak[1], Bruce L. McNaughton[1], Kenneth D. Harris[1]

[1]University of Lethbridge

2-L-160 Towards a better understanding of music processing by studying responses in mouse auditory cortex evoked by complex sounds

Magdalena Solyga[1], Tania Barkat[1]

[1]Basel University

2-L-161 Intracortical microstimulation enhances the induced response following post-excitatory inhibition in the primary auditory cortex

Mathias Voigt[1], Andrej Kral[1]

[1]Hannover Medical School

2-L-162 New fMRI evidence supporting an opponent hemifield code representation for space in the auditory cortex of primates

Michael Ortiz Rios[1]

[1]Newcastle University

2-L-163 Persistent activity in auditory cortex during passive listening

James Cooke[1], Julie Lee[1], Edward Bartlett[2], Xiaoqin Wang[3], Daniel Bendor[1]

[1]Univeristy College London, [2]Purdue University, [3]Johns Hopkins University

2-L-164 Optimal features for auditory recognition

Shi Tong Liu[1], Michael Osmanski[2], Xiaoqin Wang[2], Srivatsun Sadagopan[1]

[1]University of Pittsburgh, [2]The Johns Hopkins University

2-L-165 Modulation of neuronal activity by acoustic context in rodent auditory cortex

Gabriel Elias[1], Norbert Fortin[1]

[1]University of California Irvine

2-L-166 Network receptive field modelling reveals extensive integration and multifeature selectivity in auditory cortical neurons

Nicol Harper[1], Oliver Schoppe[2], Benjamin Willmore[1], Zhanfeng Cui[1], Jan Schnupp[3], Andrew King[1]

[1]University of Oxford, [2]Technische Universität München, [3]City University of Hong Kong

2-L-167 Decoding the cortical representation of auditory motion using EEG

Adam Bednar[1], Edmund Lalor[2]

[1]Trinity College Dublin, [2]University of Rochester

Session 3

Thursday, September 14

3:30 PM – 6:00 PM

Posters are listed by theme.

3-A-6 Pairing vagus nerve stimulation with speech sounds alters multiple auditory fields

Crystal Engineer[1], Michael Borland[1], Elizabeth Buell[1], Pryanka Sharma[1], Nicole Moreno[1], John Buell[1], Michael Kilgard[1]

[1]The University of Texas at Dallas

3-A-7 Musical effects on oscillatory markers of sustained attention

Psyche Loui[1], Emily Przysinda[1], Gonçalo Sampaio[1], Tedra James[1], Adam Hewett[1], Benjamin Morillon[2]

[1]Wesleyan University, [2]INSERM

3-B-15 Optogenetic stimulation of the VTA: self-.stimulation behavior and impact on cortical processing in primary auditory cortex of Mongolian gerbils

Michael Brunk[1], Frank Ohl[1], Michael Lippert[1], Max Happel[1]

[1]Leibniz Institute for Neurobiology

3-B-16 Influence of earlier exposure to sound on the development of cortical auditory evoked potentials in premature infants during the first three months

Hannalice Cavalcanti[1], Sheila Balen[1], Aryelle Nunes[2], Antonio Pereira[3]

[1]Federal University of Rio Grande do Norte-UFRN, [2]UFRN, [3]Federal University of Pará-UFPR

3-B-17 Role of thalamocortical interactions in stimulus discrimination and detection

Natsumi Homma[1,3], Max Happel[2,3], Fernando Nodal[3], Frank Ohl[2], Christoph Schreiner[1], Andrew King[3], Victoria Bajo[3]

[1]University of California San Francisco, [2]Leibniz Institute for Neurobiology, [3]University of Oxford

3-B-18 Mutual information in the auditory thalamocortical circuit diminishes with loss of consciousness

Ryan Verner[1], Edward Bartlett[1]

[1]Purdue University

3-C-24 Natural aging diminishes multisensory connections of primary sensory cortices

Julia Henschke[1], Frank Ohl[1], Eike Budinger[1]

[1]Leibniz Institute for Neurobiology

3-C-25 Role of perceptual reasoning in reading skill

Sunita Gudwani[1], S. Senthil Kumaran[1], Rajesh Sagar[1], Madhuri Behari[2], SadaNand Dwivedi[1], NR Jagannathan[1]

[1]All India Institute of Medical Sciences, New Delhi, [2]Fortis, Vasant Kunj, New Delhi

3-D-63 Frequency-specific attentional modulation in human primary auditory cortex and midbrain

Lars Riecke[1], Judith Peters[1], Giancarlo Valente[1], Benedikt Poser[1], Valentin Kemper[1], Elia Formisano[1], Bettina Sorger[1]

[1]Maastricht University

3-D-64 Selective attention modulates the cortical segregation of irrelevant sounds in natural listening situations

Lars Hausfeld[1], Lars Riecke[1], Giancarlo Valente[1], Elia Formisano[1]

[1]Maastricht University

3-D-65 Effect of spectral resolution on neural entrainment of the speech envelope

Jonas Vanthornhout[1], Lien Decruy[1], Tom Francart[1]

[1]KU Leuven

3-D-66 Early cochlear stimulation can restore auditory cortical glucose metabolism in short term period

Min-Hyun Park[1], Jin Su Kim[2], Doo Hee Kim[3], June Jae Choi[3], Seung Ha Oh[3]

[1]Seoul National University, Boramae Medical Center, [2]Molecular Imaging research Center, Korea Institute of Radiological and Medical Sciences, [3]College of Medicine, Seoul National University

3-D-67 Modulation of the cortical frequency-following response (FFR) via transcranial magnetic stimulation

Emily Coffey[1], Annie Qin[1], Sylvain Baillet[1], Robert Zatorre[1]

[1]Montreal Neurological Institute / McGill University

3-D-68 Reorganization of cortical microcircuits following perceptual auditory learning

Ido Maor[1], Adi Mizrahi[1]

[1]The Hebrew University of Jerusalem

3-D-69 Dynamic conversion of sensory evidence to decision signal in ferret frontal cortex

Jennifer Lawlor[1], Célian Bimbard[1], Shihab Shamma[1], Yves Boubenec[1]

[1]École Normale Supérieure

3-D-70 Cortical mechanisms of perceptual learning in juveniles

Melissa Caras[1], Dan Sanes[1]

[1]New York University

3-D-71 Genetic access to active neurons in the mouse auditory cortex

Gen-ichi Tasaka[1], Casey Guenthner[2], Amos Shalev[1], Omri Gilday[1], Maya Groysman[1], Liqun Luo[2], Adi Mizrahi[1]

[1]The Edmond and Lily Safra Center fro Brain Science (ELSC), The Hebrew University of Jerusalem, [2]Howard Hughes Medical Institute, Stanford University

3-D-72 Neural substrate of sound object segregation

Isabel Tissières[1], Sonia Crottaz-Herbette[1], Lucas Spierer[2], Stephanie Clarke[1]

[1]Lausanne University Hospital, [2]University of Fribourg

3-D-73 Contributions of glottal-pulse rate and vocal-tract length to perceptual grouping in the cocktail party

Jens Kreitewolf[1], Samuel Mathias[2], Régis Trapeau[3], Marc Schönwiesner[4]

[1]University of Lübeck, [2]Yale University, [3]Université de Montréal, [4]Leipzig University

3-D-74 Functional neuroimaging of binaural sensitivity in human auditory cortex

G. Christopher Stecker[1], Nathan Higgins[1], Susan McLaughlin[2], Sandra Da Costa[1]

[1]Vanderbilt University School of Medicine, [2]University of Washington

3-D-75 Selective auditory attention to a single sound stream suppresses responses to temporally non-coherent sounds in ferret auditory cortex

Kai Lu[1], Wanyi Liu[1], Jonathan Fritz[1], Shihab Shamma[1]

[1]University of Maryland, College Park

3-D-76 Neural decoding of word identity and acoustic prototypicality during speech perception in listeners with and without aphasia

Sara Beach[1], Caroline Niziolek[2], Swathi Kiran[2]

[1]Harvard University, [2]Boston University

3-D-77 Neural source dynamics of brain responses to continuous speech: from acoustics to comprehension

Christian Brodbeck[1], Alessandro Presacco[2], Jonathan Simon[1]

[1]University of Maryland, [2]University of California, Irvine

3-D-78 Corticostriatal learning systems in auditory categorization

Han Yi[1], Gangyi Feng[1], Bharath Chandrasekaran[1]

[1]The University of Texas at Austin

3-D-79 Perceptual and motor skills

Stepanov Sergey[1]

[1]Children Music School

3-D-80 Prenatal noise stress impairs HPA axis and cognitive performance in mice

Zahra Jafari[1], Bryan Kolb[1], Majid Mohajerani[1]

[1]University of Lethbridge

3-E-82 Identifying perceptually informative acoustic cues in mouse social communication

Catherine Perrodin[1], Daniel Bendor[1]

[1]University College London

3-F-96 Contextual effects on the neural encoding of speech sounds

Sanne Rutten[1], Roberta Santoro[1], Alexis Hervais-Adelman[2], Elia Formisano[3], Narly Golestani[1]

[1]University Geneva, [2]Max Planck Institute for Psycholinguistics, [3]Maastricht University

3-F-97 Cortical responses in human superior temporal gyrus that differentiate intonation contours in speech are a response to pitch, not fundamental frequency

Claire Tang[1], Liberty Hamilton[1], Edward Chang[1]

[1]University of California, San Francisco

3-F-98 Brain signatures of vocal emotional perception

Ana Pinheiro[1], Sonja Kotz[2]

[1]University of Lisbon, [2]University of Maastricht

3-F-99 Neural responses to behaviorally relevant syllable sequences in the ferret auditory- and frontal cortices

Daniel Duque[1], Neha Joshi[1], Diego Elgueda[1], Jonathan Fritz[1], Shihab Shamma[1]

[1]University of Maryland

3-F-100 Corticostriatal circuitry associated with speech representational plasticity in the superior temporal gyrus

Gangyi Feng[1], Han-Gyol Yi[1], Bharath Chandrasekaran[1]

[1]The University of Texas at Austin

3-F-101 Clarify the upper limit of the speech rate for reading systems

Minoru Hayashi[1]

[1]Meisei University

3-G-111 Dendritic spine properties distribute differently across different subregions of cat auditory cortex

H Ruth Clemo[1], Stephen Lomber[2], M Alex Meredith[1]

[1]Virginia Commonwealth University School of Medicine, [2]University of Western Ontario

3-G-112 Modern views on the anatomy of planum temporale

Barrett St. George[1], Andrew Demarco[2], Frank Musiek[1]

[1]The University of Arizona, [2]Georgetown University Medical Center

3-G-113 The representation of spatial location and temporal modulation in marmoset parabelt auditory cortex

Darik Gamble[1], Xiaoqin Wang[1]

[1]Johns Hopkins University

3-G-114 Keeping track of sound objects in space

Sandra Da Costa[1], Rolf Gruetter[1], Sonia Crottaz-Herbette[2], Stephanie Clarke[2]

[1]CIBM, EPFL, [2]Neuropsychology and Neurorehabilitation Service, CHUV

3-G-115 Sonification of auditory models via synthesis of statistically matched stimuli

Jenelle Feather[1], Josh McDermott[1]

[1]MIT

3-H-121 Activating distinct neuronal cell types in auditory cortex differentially affects collicular responses to sounds

Jennifer Blackwell[1], Mark Aizenberg[1], Winnie Rao[1], Maria Geffen[1]

[1]University of Pennsylvania

3-H-122 Measuring effects of attention and predictability on bidirectional interactions between cortex and subcortex during auditory processing

David Prete[1], Laurel Trainor[1]

[1]McMaster University

3-I-133 Quantifying and comparing connectivity within auditory cortex and between sensory cortices in hearing and deaf cats

Blake Butler[1], Stephen Lomber[1]

[1]University of Western Ontario

3-I-134 Vocal pitch perception impairments might contribute to vocal emotion recognition difficulties in high-functioning autism spectrum disorder

Stefanie Schelinski[1], Katharina von Kriegstein[1]

[1]Max Planck Society

3-I-135 Treating chronic tinnitus with neurofeedback

Dominik Güntensperger[1], Martin Meyer[1], Patrick Neff[1], Steffi Weidt[2], Tobias Kleinjung[2]

[1]University of Zurich, [2]University Hospital Zürich

3-I-136 Neuronal plasticity in auditory cortex and brainstem after auditory deafferentation

Min-Hyun Park[1], HOSUN LEE[1], Jae Joon Han[1], Seung Ha Oh[1]

[1]Seoul National University, Boramae Medical Center

3-I-137 Plasticity in cortical fast-spiking GABA networks supports recovered sensory processing following peripheral nerve injury

Jennifer Resnik[1], Ross Williamson[2], Daniel Polley[2]

[1]harvard medical school meei, [2]Harvard Medical School

3-J-145 Contribution of sequential comparison on lateralized activity in the human auditory cortex

Nicole Angenstein[1], André Brechmann[1]

[1]Leibniz Institute for Neurobiology

3-J-146 Transforming auditory information from learning experiences into lasting memories by removing an epigenetic brake on auditory system plasticity

Kasia Bieszczad[1], Andrea Shang[1], Sooraz Bylipudi[1], Mark Gergues[1], Elena Rotondo[1]

[1]Rutgers University

3-J-147 MEG reveals neural correlates of successful "cocktail party" listening

Sebastian Puschmann[1], Sylvain Baillet[1], Robert Zatorre[1]

[1]Montreal Neurological Institute, McGill University

3-J-148 Categorical memory representation in ferret auditory and frontal cortices

Pingbo Yin[1], Jonathan Fritz[1], Shihab Shamma[1]

[1]University of Maryland

3-K-150 Comparing human and nonhuman primate brain responses to auditory sequences using EEG

Daniel Cameron[1], Jessica Grahn[2], Luis Prado[3], Hugo Merchant[3]

[1]Georgetown University, [2]University of Western Ontario, [3]Universidad Nacional Autonoma de Mexico

3-L-168 Dual-scale oscillatory mechanism for speech segmentation

Robin Gransier[1], Astrid van Wieringen[1], Jan Wouters[1]

[1]KU Leuven

3-L-169 Temporal orienting and auditory frequency decoding: a human MEG/EEG study

Ryszard Auksztulewicz[1], Jan Schnupp[2], Anna Nobre[1]

[1]University of Oxford, [2]City University of Hong Kong

3-L-170 Spectrotemporal receptive fields in mouse primary auditory cortex

Farhad Qureshi[1], Jun Yan[1]

[1]University of Calgary

3-L-171 Does sensory cortex use the most predictive neural code?

Yosef Singer[1], Yayoi Teramoto[1], Ben Willmore[1], Andrew King[1], Jan Schnupp[2], Nicol Harper[1]

[1]University of Oxford, [2]City University of Hong Kong

3-L-172 The challenging recognition of emotions from whispered voices

Sascha Frühholz[1]

[1]University of Zurich

3-L-173 Encoding of dynamic ripple mixtures in human auditory cortex using 7T fMRI

Jessica Thompson[1], Federico De Martino[2], Marc Schönwiesner[3], Elia Formisano[2]

[1]Université de Montréal, [2]Maastricht University, [3]University of Leipzig

3-L-174 Integrating behavioral context into auditory encoding models

Luke Shaheen[1], Zachary Schwartz[1], Stephen David[1]

[1]Oregon Health and Science University

3-L-175 Attentional effects on neural responses in a cocktail party model in the ferret auditory cortex

Neha Joshi[1], Daniel Duque[1], Jonathan Fritz[1], Shihab Shamma[1]

[1]University of Maryland

10 Minute Trainee Talk Posters

TT-L-1 Egocentric and allocentric representations in auditory cortex

Stephen Town[1], Owen Brimijoin[2], Jennifer Bizley[1]

[1]University College London, [2]MRC/CSO Institute of Hearing Research - Scottish Section

TT-D-2 Mechanisms of movement-related changes in auditory detection thresholds

Janani Sundararajan[1], David Schneider[1], Richard Mooney[1]

[1]Duke University

TT-B-3 Mapping functional and anatomical connections within the human auditory pathway with ultra-high field MRI

Omer Faruk Gulban[1], Fabrizio Esposito[2], Federico De Martino[1]

[1]Maastricht University, [2]Università degli Studi di Salerno

TT-F-4 Auditory and visual sequence learning in humans and monkeys

Alice Milne[1], Benjamin Wilson[1], Christopher Petkov[1]

[1]Newcastle University

TT-D-5 Stability and plasticity of sensory representation in the auditory cortex

Yishai Elyada[1], Ido Maor[1], Omri Gilday[1], Adi Mizrahi[1]

[1]Hebrew University

TT-L-6 Altered adaptation to sound-level statistics in the auditory cortex of older adult humans

Björn Herrmann[1], Burkhard Maess[2], Ingrid Johnsrude[1]

[1]University of Western Ontario, [2]MPI for Human Cognitive and Brain Sciences

TT-D-7 A comparison of marmoset frontal cortex neuron responses to acoustic stimuli in multiple behavioral contexts

Vladimir Jovanovic[1], Cory Miller[1]

[1]UC San Diego

TT-J-8 Auditory scene segregation can be impaired under high visual load

Katharine Molloy[1], Nilli Lavie[1], Maria Chait[1]

[1]University College London

TT-I-9 Auditory cortex interneuron development requires cadherins operating hair-cell mechanoelectrical transduction

Baptiste Libé-Philippot[1], Vincent Michel[1], Jacques Boutet de Monvel[1], Marie Alexandra Strigalev[1], Sébastien Le Gal[1], Typhaine Dupont[1], Boris Gourevitch[1], Paul Avan[2], Christine Métin[3], Nicolas Michalski[1], Christine Petit[1]

[1]Institut Pasteur, [2]Université d'Auvergne, [3]Institut du Fer à Moulin

TT-G-10 Microstructural development of human primary and nonprimary auditory cortex during the perinatal period

Brian Monson[1], Einat Liebenthal[2], Simon Warfield[3], Terrie Inder[2], Jeffrey Neil[3]

[1]Harvard Medical School, Brigham & Women's Hospital, [2]Brigham & Women's Hospital, Harvard Medical School, [3]Harvard Medical School, Boston Children's Hospital

TT-I-11 GABAA receptor activation during developmental hearing loss leads to a broad recovery of cellular properties in adults

Todd Mowery[1], Jordane Dimidschstein[1], Vibhakar Kotak[1], Gordon Fishell[1], Dan Sanes[1]

[1]NYU

TT-I-12 Visualizing homeostatic normalization in the output of long-range auditory subcortical projection neurons following a sudden drop in peripheral afferent drive

Meenakshi Asokan[1], Ross Williamson, Kenneth Hancock, Daniel Polley

[1]Harvard University

TT-E-13 Role of auditory cortex in self-monitoring and feedback-dependent vocal control

Steven Eliades[1], Joji Tsunada[1]

[1]University of Pennsylvania

TT-D-14 Obligatory and facultative brain regions for voice-identity recognition

Claudia Roswandowitz[1], Claudia Kappes[1], Hellmuth Obrig[1], Katharina von Kriegstein[1]

[1]Max Planck Institute for Human Cognitive and Brain Sciences

TT-E-15 Behavioral relevance enhances responses at the offset of natural vocalizations in auditory cortex

Kelly Chong[1], Alex Dunlap[1], Robert Liu[2]

[1]Georgia Institute of Tech / Emory University, [2]Emory University

TT-D-16 Single-neuron correlates of spatial attention and choice in auditory and prefrontal cortex

Corrie Camalier[1], Mortimer Mishkin[1], Bruno Averbeck[1]

[1]NIMH/National Institutes of Health

TT-K-17 Monkeys share with humans the neurophysiological basis for encoding sound peridiocities as captured by the frequency-following response (FFR)

Yaneri A. Ayala[1], Alexandre Lehmann[2], Luis Prado[1], Hugo Merchant[1]

[1]Instituto de Neurobiología, UNAM, [2]McGill University

TT-D-18 Mapping the cortical representations of statistical changes from auditory cortices to frontal cortex

Jennifer Lawlor[1], Shihab Shamma[1], Yves Boubenec[1]

[1]Ecole Normale Supérieure - PSL Research University

TT-G-19 Parallel streams define the temporal dynamics of speech processing across human auditory cortex

Liberty Hamilton[1], Erik Edwards[1], Edward Chang[1]

[1]University of California, San Francisco

TT-F-20 Intrinsic functional architecture of Wernicke's, Broca's, and Geschwind's areas of the human speech comprehension network

Daniel Abrams[1], John Kochalka[1], Tianwen Chen[1], Sayuli Bhide[1], Srikanth Ryali[1], Vinod Menon[1]

[1]Stanford University

TT-G-21 Functional organization of human auditory cortex: An intracranial electrophysiology perspective

Kirill Nourski[1], Mitchell Steinschneider[2], Ariane Rhone[1], Matthew Banks[3], Hiroto Kawasaki[1], Matthew Howard[1]

[1]The University of Iowa, [2]Albert Einstein College of Medicine, [3]University of Wisconsin - Madison

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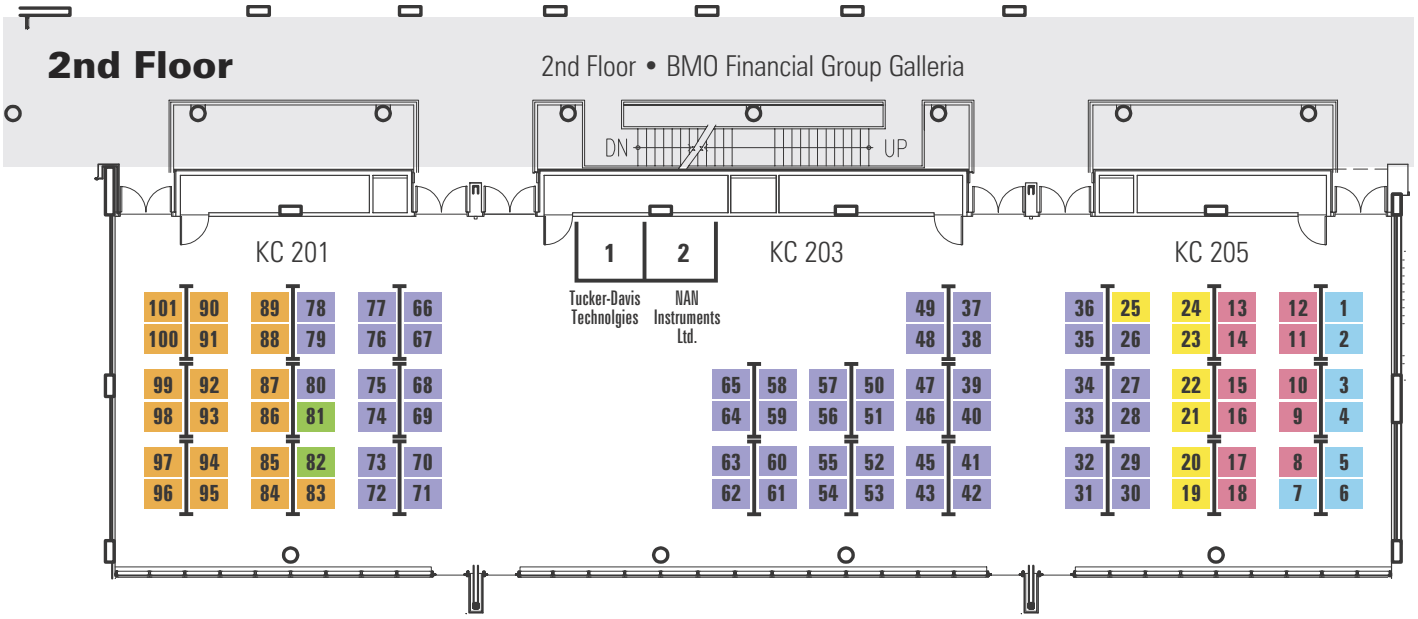
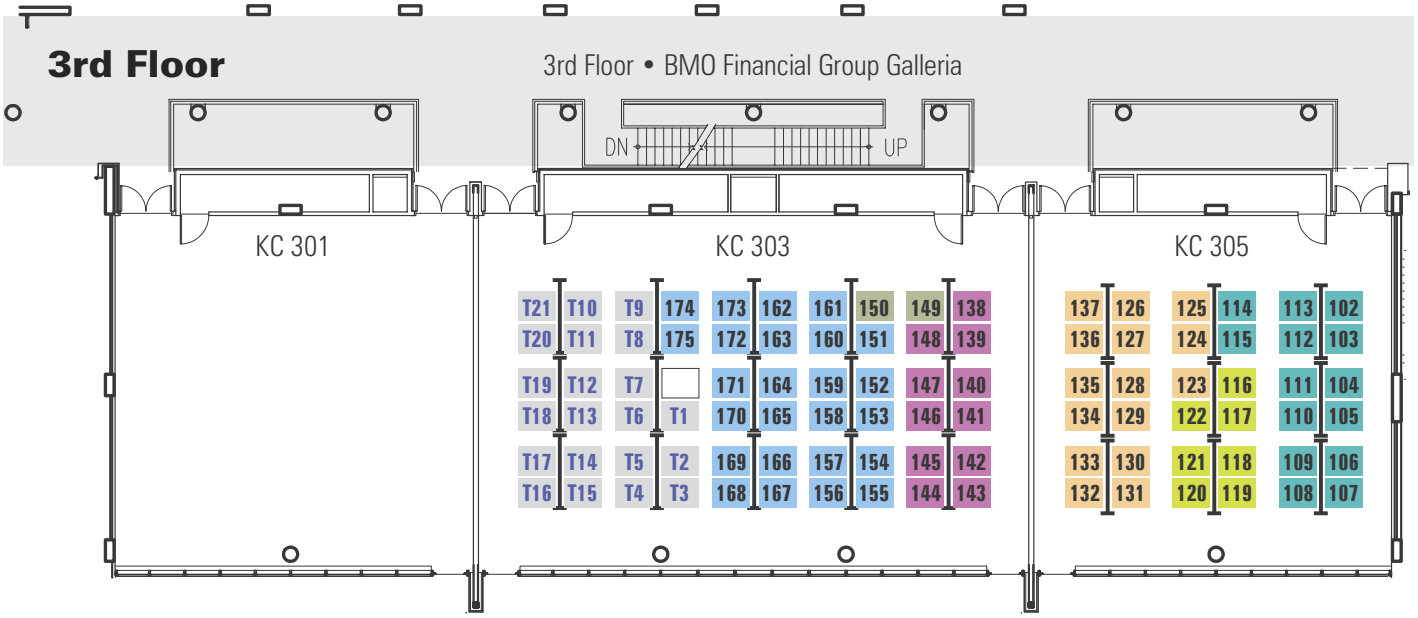
Poster Session Floor Plans



Poster Themes • 2nd Floor

- A Novel Neurotechnologies
- B Thalamocortical Circuitry and Function
- C Multisensory Processes
- D Correlates of Auditory Behavior/Perception
- E Neuroethology and Communication
- F Brain Processing of Language



Poster Themes • 3rd Floor

- G Hierarchical Sensory Organization
- H Subcortical Auditory Processing
- I Auditory Disorders
- J Auditory Memory and Cognition
- K Cross-Species Comparisons
- L Neural Coding
- T Trainee Talks

Notes

Program at a Glance

6th International Conference on Auditory Cortex • Sept 10-15, 2017

Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep
7:00 AM		**Breakfast** Vistas Dining Room (7:00am - 8:00am)	**Breakfast** Vistas Dining Room (7:00am - 8:00am)	**Breakfast** Vistas Dining Room (7:00am - 8:00am)	**Breakfast** Vistas Dining Room (7:00am - 8:00am)	Departure
7:15 AM						
7:30 AM						
7:45 AM						
8:00 AM						
8:15 AM						
8:30 AM	JosFest	**Opening** (8:30am - 9:00am)	**Stephanie Clarke** (8:30am - 9:30am)	**Michael Brainard** (8:30am - 9:30am)	**Barbara Shinn-Cunningham** (8:30am - 9:30am)	
8:45 AM						
9:00 AM		**Dexter Irvine** (9:00am - 10:00am)				
9:15 AM						
9:30 AM			**Liz Romanski** (9:30am - 10:00am)	**Pascal Belin** (9:30am - 10:00am)	**Jan Schnupp** (9:30am - 10:00am)	
9:45 AM						
10:00 AM		**Coffee Break** (10:00am-10:30am)	**Coffee Break** (10:00am-10:30am)	**Coffee Break** (10:00am-10:30am)	**Coffee Break** (10:00am-10:30am)	
10:15 AM						
10:30 AM		**Matthew McGinley** (10:30am - 11:00am)	**Christoph Kayser** (10:30am - 11:00am)	**Steffen Hage** (10:30am - 11:00am)	**Robert Liu** (10:30am - 11:00am)	
10:45 AM						
11:00 AM		**10 min Trainee Talks** (11:00am - 11:30am)	**10 min Trainee Talks** (11:00am - 11:30am)	**10 min Trainee Talks** (11:00am - 11:30am)	**10 min Trainee Talks** (11:00am - 11:30am)	
11:15 AM						
11:30 AM		**Marc Schoenwiesner** (11:30am - 12:00pm)	**Sarah Woolley** (11:30am - 12:00pm)	**Yi Du** (11:30am - 12:00pm)	**Maria Chait** (11:30am - 12:00pm)	
11:45 AM						
12:00 PM		Group Photo	NIDCD	**Jennifer Linden** (12:00pm - 12:30pm)	**Lunch** Vistas Dining Room (12:00pm - 1:30pm)	
12:15 PM						
12:30 PM		**Lunch** Vistas Dining Room (12:15pm - 1:30pm)	**Lunch** Vistas Dining Room (12:15pm - 1:30pm)	**Lunch** Vistas Dining Room (12:30pm - 2:00pm)		
12:45 PM						
1:00 PM						
1:15 PM						
1:30 PM		**Maria Geffen** (1:30pm - 2:00pm)	**Rhodri Cusack** (1:30pm - 2:00pm)		**Michael Wehr** (1:30pm - 2:00pm)	
1:45 PM						
2:00 PM		**Uta Noppeney** (2:00pm - 2:30pm)	**Daniel Polley** (2:00pm - 2:30pm)	Individual Activities & Optional Group Excursions	**Lori Holt** (2:00pm - 2:30pm)	
2:15 PM						
2:30 PM		**10 min Trainee Talks** (2:30pm - 3:00pm)	**10 min Trainee Talks** (2:30pm - 3:00pm)		**10 min Trainee Talks** (2:30pm - 3:00pm)	
2:45 PM						
3:00 PM		**Gregg Recanzone** (3:00pm - 3:30pm)	**Karen Gordon** (3:00pm - 3:30pm)		**Shihab Shamma** (3:00pm - 3:30pm)	
3:15 PM						
3:30 PM		**Posters Session 1** (3:30pm - 6:00pm)	**Posters Session 2** (3:30pm - 6:00pm)		**Posters Session 3** (3:30pm - 6:00pm)	
3:45 PM						
4:00 PM						
4:15 PM						
4:30 PM						
4:45 PM						
5:00 PM	**Registration** (5:00pm - 7:00pm)					
5:15 PM						
5:30 PM						
5:45 PM						
6:00 PM						
6:15 PM						
6:30 PM			Buses leave for Mountainview BBQ			
6:45 PM						
7:00 PM	**Welcome Dinner** The Banff Centre Kinnear Centre (7:00pm - 10:00pm)		**Offsite Mountainview BBQ Dinner** (7:00pm - 10:00pm)		**Farewell Dinner** The Banff Centre Kinnear Centre (6:00pm - 9:00pm)	
7:15 PM						
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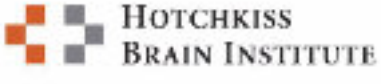

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