

Israeli Society for Auditory Research (ISAR) 2017 Annual Scientific Conference

Meyerbaum Hall, Sackler School of Medicine
Tel Aviv University, Tel Aviv, Israel

Monday, October 16, 2017



ISAR Scientific Committee

Prof. Karen Avraham (President), Dr. Ronen Perez (Treasurer), Dr. Cahtia Adelman, Prof. Joseph Attias, Prof. Karen Banai, Dr. Leah Fostick, Dr. Yael Henkin, Prof. Liat Kishon-Rabin, Dr. Limor Lavie, Prof. Michal Luntz

ISAR Conference Organizing Committee

Prof. Karen Banai, Dr. Yael Henkin, Prof. Karen Avraham

Program

08:30 - 09:20 **Registration and coffee reception**
09:20 **Opening remarks**

Session 1: Diagnosis of Hearing Impairment. *Chair: Karen Banai*

- 9:30 – 9:45 **Shai Chordekar, Ronnie Perez, Catia Adelman, Haim Sohmer, Liat Kishon-Rabin.** Does hearing in response to soft-tissue stimulation involve skull vibrations? A within-subject comparison between skull vibration magnitudes and hearing thresholds
- 9:45 – 10:00 **Shaden Bsoul, Joseph Attias, Doron Urbach.** The effectiveness of bone conduction (BC) Chirp stimulation in evaluating Auditory Brainstem Response (ABR): Comparing to Air conduction (AC) Chirp and to Clicks ABR
- 10:00 – 10:15 **Yonatan Koral, Oded Stawitzky, Shlomo Weiss, Miriam Furst.** An efficient simulation tool of the human auditory system for hearing impairment diagnosis and hearing aid fitness
- 10:15 – 10:30 **Miriam Geal-Dor, Shai Chordekar, Cahtia Adelman, Michal Kaufmann-Yehezky, Haim Sohmer.** Fluid stimulation audiogram - A type of soft tissue conduction

Plenary session. *Chair: Liat Kishon-Rabin*

- 10:30 – 11:15 **Plenary speaker: Wade Chien.** NIDCD, NIH: Development of Gene Therapy for Hereditary Hearing Loss
- 11:15 – 11:45 **Roundtable: Is genetic therapy a reality?** Moderator: Karen Avraham. Participants: Wade Chien, Michal Luntz, Ophir Handzel

11:45 – 12:30 Lunch

Session 2. Cochlear Implants. *Chair: Michal Luntz*

- 12:30 – 12:45 **Maria Khoury, Rama Novogrodsky, Talma Shpak, Michal Luntz.** The relationship between direct measures of speech perception and the PEACH questionnaire scores among Arabic speaking toddlers using cochlear implants
- 12:45 – 13:00 **Elad Sagi, Mario A. Svirsky.** A computational modeling approach to electrode deactivation in cochlear implant users
- 13:00 – 13:15 **Yael Zaltz, Raymond L. Goldsworthy, Liat Kishon-Rabin, Laurie S. Eisenberg.** Early implantation improves vocal-tract length perception for voice discrimination in adults with pre-lingual deafness

Poster power session. Chair: Ronnie Perez

13:15 – 13:45

Nada Danial-Farran, Zippora Brownstein, Morad Khayat, Luna Tamer, Suleyman Gulsuner, Tom Walsh, Gil Ast, Mary-Claire King, Karen B. Avraham, Stavit A. Shalev. Genomic analysis discovers novel variants and genes causing deafness in northern Israel

Mor Bordeynik Cohen, Ofer Yizhar-Barnea, Zippora Brownstein, Rebecca Haffner, Wade Chang, Matthew W. Kelley, Karen B. Avraham. The transcription factor Atoh1 and its association with deafness in humans

Yehudah L. Werner, Alexandra Kunin, Daniel Abergil. Size and age effects on lizard hearing, and a first indication of presbycusis

Yael Noy, Ofer Yizhar-Barnea, Kathy Ushakov, Ran Elkon, Karen B. Avraham. Epigenetic and non-coding RNA regulation during development of the mammalian inner ear

Prathamesh T. Nadar Ponniah, Tal Koffler, Liat Lahav-Ariel, Karen B. Avraham, Rina Rosin-Arbesfeld. Striatin: A novel tight junction protein with a potential role in auditory function

R. Levine. Somatosensory Pulsatile Tinnitus Syndrome: A 10-year progress report

Tammy Harel, Ella Leslau, Meital Avivi-Reich, Mitchell S. Sommers, Mitchell, Boaz M. Ben-David. The time-course of dichotic listening and associated effort: evidence from eye-movements

Ruth Dinahet, Maysoon Ballout, Noga Feiglin, Michael Finkelstein, Hanin Karawani, Limor Lavie, Karen Banai. Speech in noise learning in older adults following short-term training

Gal Nitsan, Limor Lavie, Art Wingfield, Boaz M. Ben-David. The interaction of working memory load, working memory span, and noise on spoken word recognition: evidence from eye movements

Maram Tarabeih-Ghanayim, Karen Banai, Yizhar Lavner. The effect of talker variability on the perceptual learning of time-compressed speech and its generalization

Zippora Brownstein, Fabio T.A. Martins, Nada Danial-Faran, Suleyman Gulsuner, Maria Birkan, Lara Kamal, Silvia Casadei, Ofer Isakov, Noam Shomron, Bella Davidov, Lina Basel, Moshe Frydman, Michal Sagi, Michal Macarov, Michal Sagi, Tzipora Falik-Zaccai, Reuven Sharony, Tom Walsh, Moein Kanaan, Stavit Alon-Shalev, Mary-Claire King, Karen B. Avraham. Hear-Seq for determining the spectrum of inherited mutations for deafness in the Israeli Jewish population

13:45 – 14:00

Coffee

Session 3: Genetic and Physiological Mechanisms. Chair: Joseph Attias

14:00 – 14:15 **Bshara Awwad, Israel Nelken.** Cortical mechanisms underlying responses to temporal gaps

14:15 – 14:30 **Ofer Yizhar-Barnea, Cristina Valensisi, Kamal Kishore, Naresh Doni Jayavelu, Colin Andrus, Tal Koffler-Brill, Kathy Ushakov, Yael Noy, Yoni Bhonker, Mattia Pellizola, R. David Hawkins, Karen B. Avraham.** DNA methylation dynamics during embryonic development and postnatal maturation of the auditory organ of Corti

Session 4. Auditory System Characteristics in Clinical Populations. Chair: Yael Henkin

14:30 – 14:45 **Leah Fostick, Anael Bechor, Sapir Hillel Ben-Lulu.** Music-related abilities among dyslexic readers

14:45 – 15:00 **Ophir Handzel, Joseph B. Nadol Jr.** Temporal bone histopathology in Cockayne Syndrome