

POSTER SESSION M:**MONDAY – 8AM TO MIDNIGHT**

- M01a: AN INTRINSIC TIME CONSTANT OF THE COCHLEAR NUCLEUS REVEALED BY ABI ELECTROPHYSIOLOGICAL MEASUREMENTS: Andreas Bahmer, Tina Kroneis, Wafaa Shehata-Dieler
- M01b: TONOTOPIC NEURAL RESPONSES TO ACOUSTIC AND ELECTRIC STIMULI IN THE RAT'S PRIMARY AUDITORY CORTEX: Allison Coltisor, Taylor Myers, Guangchen Ji, Volker Neugebauer, Yang-soo Yoon
- M02a: PHYSIOLOGICAL EFFECTS OF STIMULUS POLARITY AND INTERPHASE GAP AS POTENTIAL ESTIMATES OF NEURAL HEALTH: Michelle L. Hughes, Sangsook Choi, Erin E. Glickman
- M02b: STIMULUS POLARITY EFFECTS ACROSS A LARGE GROUP OF COCHLEAR IMPLANT RECIPIENTS: IMPLICATIONS FOR ESTIMATING NEURAL HEALTH: Sangsook Choi, Michelle L Hughes, Joshua D Sevier
- M03a: LONG-TERM SAFETY OF FOCUSED MULTIPOLAR STIMULATION: Robert K Shepherd, Andrew K Wise, Ya Lang Enke, Paul M Carter, James B Fallon
- M03b: CORTICAL RESPONSES EVOKED BY COCHLEAR IMPLANT IN THE GUINEA PIG PRIMARY AUDITORY CORTEX.: Victor Adenis, Pierre Stahl, Dan Gnansia, Jean-Marc Edeline
- M04a: PRELIMINARY DATA ON INTRA- AND POSTOPERATIVE ELECTROCOCHLEOGRAPHIC RECORDINGS VIA THE ADVANCED BIONICS COCHLEAR IMPLANT SYSTEM: Carolin Frohne-Buechner, Michael Bardt, Sabine Haumann, Patrick Boyle, Gunnar Geissler, Kanth Koka, Rolf Salcher, Thomas Lenarz, Andreas Buechner
- M04b: AN OBJECTIVE MEASURE OF COCHLEAR HEALTH; IDENTIFYING NEURAL DEAD REGIONS: Andrew K Wise, Simone Classen, Ella Trang, Brianna Flynn , James B Fallon
- M05a: USING A CUSTOMIZED MODEL OF THE AUDITORY PERIPHERY TO PREDICT INDIVIDUAL PSYCHOPHYSICAL DATA: Joshua S Stohl, Robert D Wolford, Blake S Wilson
- M05b: SIGMOIDAL ECAP AMPLITUDE GROWTH FUNCTIONS: PHYSIOLOGICAL MODEL WITH BENEFITS: Konrad Schwarz, Angelika Dierker, Philipp Spitzer, Stefan Strahl, Lutz Gaertner
- M06: CURRENT FOCUSING IMPROVES AUDITORY CORTICAL RESPONSES TO INTRACOCHELEAR ELECTRICAL STIMULATION IN AWAKE PRIMATE: Kai Yuen Lim, Kristin Hageman, Charles C Della Santina, Xiaoqin Wang
- M07a: RECONSTRUCTION OF A HIGH-RESOLUTION COCHLEAR MODEL FOR COCHLEAR IMPLANT RESEARCH: Siwei Bai, Joerg Encke, Robin Weiss, Klaus Achterhold, Frank Boehnke, Katharina Braun, Werner Hemmert
- M07b: A BIOPHYSICAL MODEL OF THE AUDITORY NERVE BASED ON HIGH-RESOLUTION MICROCT SCANS.: Joerg Encke, Siwei Bai, Niclas Baehr, Werner Hemmert
- M08a: MODELLING POLARITY AND PULSE SHAPE EFFECTS ON A POPULATION OF SPIRAL GANGLION NEURON UNDER ELECTRO-STIMULATION: Matthieu Recugnat, Jaime Undurraga, David McAlpine
- M08b: MODELED IMPEDANCE AND TISSUE GROWTH IN THE IMPLANTED COCHLEA: Christopher J. Buswinka, Deborah J. Colesa, Chuming Zhao, Yehoash Raphael, Karl Grosh, Bryan E. Pflugst

- M09: TEMPORAL ANALYSIS OF A PURELY CONDUCTANCE BASED STOCHASTIC HUMAN AUDITORY NERVE FIBRE MODEL: Werner Badenhorst, Tania Hanekom, Johan Jurgens Hanekom
- M10a: RESPONSIVENESS OF THE ELECTRICALLY STIMULATED COCHLEAR NERVE AND CORTICAL NEURAL ENCODING OF ELECTRICAL PULSE TRAINS IN CHILDREN WITH COCHLEAR NERVE DEFICIENCY: Shuman He, Nancy He, Holly F.B. Teagle
- M10b: TAKING MODELS FROM THE LAB TO THE CLINIC: MODEL-BASED DIAGNOSTIC APPROACH TO A TEENAGE USER'S FACIAL NERVE STIMULATION COMPLICATIONS: Liezl Gross, Tania Hanekom, Werner Badenhorst, Johan J Hanekom
- M11a: A PHENOMENOLOGICAL MODEL FOR PREDICTING RESPONSES OF ELECTRICALLY STIMULATED AUDITORY NERVE FIBER TO ONGOING PULSATILE STIMULATION: Marko Takanen, Bernhard U. Seeber
- M11b: INDIVIDUAL FITTING AND PREDICTION WITH A PHENOMENOLOGICAL AUDITORY NERVE FIBER MODEL FOR CI USERS: Kaue Werner, Bernhard U. Seeber
- M12a: A POLYMER-BASED INTRACOCHELEAR ELECTRODE ARRAY FOR ANIMAL STUDY: Jin Won Kim
- M12b: DEVELOPING A FLEXIBLE COCHLEAR IMPLANT RESEARCH STIMULATION INTERFACE FOR ANIMAL: STIMULATOR AND DEDICATED ELECTRODE ARRAYS: Pierre Stahl, Jonathan Laudanski, Matthieu Recugnat, Paco Coutaud, Dan Gnansia
- M13: MODEL EVALUATION OF A NOVEL DYNAMIC CURRENT FOCUSING SPEECH CODING STRATEGY: Margriet van Gendt, Jeroen Briaire, Randy Kalkman, Johan Frijns
- M14a: EFFECTS OF THE ELECTRODE POSITION AND FIBER DIAMETER ON SPECTRAL RIPPLE DISCRIMINATION IN COCHLEAR IMPLANT USERS: A COMPUTER MODEL STUDY: Hyejin Yang, Jong Ho Won, Jihwan Woo
- M14b: THE EFFECTS OF BILATERAL COCHLEAR IMPLANTS ON VOCAL CONTROL: Justin M. Aronoff, Abigail C. Buente, Melanie J. Samuels, Elizabeth Abbs, Torrey M. Loucks
- M15a: EFFECT OF STIMULUS FOCUSING ON THE MAGNITUDE OF NEURAL RESPONSES IN HUMAN SUBJECTS: Christopher Joseph Long, Wendy Balsley Potts, Timothy A Holden
- M15b: RELATING ECAP MEASURES WITH SPEECH PERCEPTION IN ADULT CI LISTENERS: Kathleen F Faulkner, Katie L Hogue, Elizabeth L Humphrey, Kristen E.T. Mills, Mark S Hedrick
- M16: RESIDUAL HAIR CELL AND NEURAL RESPONSES TO SOUND IN COCHLEAR IMPLANT SUBJECTS: Douglas C Fitzpatrick, Tatyana E Fontenot, Chris K Giardina, Brendan Lutz, kendall A Hutson
- M17: MODELING CURRENT SPREAD IN A DYNAMICALLY FOCUSED COCHLEAR IMPLANT STRATEGY: Gabrielle OBrien, Wendy Parkinson, Julie Arenberg
- M18a: LOW-THRESHOLD POTASSIUM CHANNELS AND THEIR EFFECT ON POLARITY SENSITIVITY OF THE ELECTRICALLY STIMULATED AUDITORY NERVE: Suyash Narendra Joshi, Jeremy Marozeau, Bastian Epp, Laurel H Carney
- M18b: MODELING POLARITY SENSITIVITY OF ELECTRICALLY STIMULATED AUDITORY NERVE FIBERS IN HUMANS : Suyash Narendra Joshi, Jaime A. Undurraga, Matthieu Recugnat, Torsten Dau, David McAlpine
- M19a: LOW-FREQUENCY ELECTROCOCHLEOGRAPHY IN A GUINEA PIG MODEL OF COCHLEAR IMPLANTATION WITH HEARING PRESERVATION: Youssef Adel, Jochen Tillein, Timo Stoeber, Uwe Baumann
- M19b: DETECTION OF NEURAL RESPONSES IN SINGLE ECAP RECORDINGS USING AN AUDITORY NERVE MODEL: Stefan Strahl, Konrad Schwarz, Angelika Dierker, Philipp Spitzer, Lutz Gaertner

- M20: MECHANISMS ASSOCIATED WITH OPTOGENETIC CONTROL OF SPIRAL GANGLION NEURONS: Xiankai Meng, Swetha Murali, Christian M. Brown, Jeffrey R. Holt, Daniel J. Lee, Albert S. Edge
- M21a: ACROSS-ELECTRODE SENSITIVITY TO DIFFERENCES IN THE ENVELOPE AND ITS RELATION TO THE ELECTRODE-NEURON INTERFACE: Sean R Anderson, Alan Kan, Ruth Y Litovsky
- M21b: BINAURAL SENSITIVITY IN BILATERALLY IMPLANTED CHILDREN: MECHANISMS INVOLVED IN DISCRIMINATION VS. IDENTIFICATION TASKS: Alan Kan, Rachael M. Jocewicz, Shelly P. Godar, Ruth Y. Litovsky
- M22a: USING THE ACOUSTIC SIGNAL TO TIME-LOCK THE PULSES IN THE LEFT AND RIGHT COCHLEAR IMPLANT: Justin M. Aronoff, Ann E. Todd, Hannah E. Staisloff, Daniel H. Lee, David M. Landsberger
- M22b: BILATERAL PITCH MATCHES ADAPT BASED ON THE PROCESSOR FREQUENCY ALLOCATION FOR BILATERAL COCHLEAR IMPLANT USERS: Justin M. Aronoff, Julia Stelmach, Daniel H. Lee
- M23a: FACTORS THAT INFLUENCE INTERAURAL TIMING SENSITIVITY IN BILATERAL COCHLEAR IMPLANT USERS: Shaikat Hossain, Susan Bissmeyer, Raymond Goldsworthy
- M23b: THE INTERAURAL PHASE MODULATION FOLLOWING RESPONSE: TOWARDS AN OBJECTIVE MEASURE OF INTERAURAL ELECTRODE MISMATCHES IN BILATERAL COCHLEAR IMPLANT USERS: Lindsey N Van Yper, Jaime A Undurraga, Nicholas R Haywood, David McAlpine
- M24a: SPATIAL HEARING BY BILATERAL COCHLEAR IMPLANT USERS WITH FINE-STRUCTURE PROCESSING: Sebastian Ausili, Martijn Agterberg, Andreas Engel, Stefan Brill, John van Opstal, Stefan Dazzert, Emmanuel Mylanus
- M24b: EVALUATION OF ITD BASED LATERALIZATION SKILLS OF COCHLEA IMPLANT USERS WITH A FINE STRUCTURE CODING STRATEGY: Andreas Buechner, Tobias Rottmann, Thomas Lenarz
- M25a: A NEW METHOD FOR DELIVERING BINAURAL CUES FROM MULTIPLE SOURCES TO CI USERS: Bradford C. Backus, Adama Diakhite, Pierre Stahl, Kamil Adiloğlu, Tobias Herzke
- M25b: ENHANCING BEHAVIORAL ITD SENSITIVITY WITH SHORT INTER-PULSE INTERVALS IN AMPLITUDE MODULATED PULSE TRAINS: Sridhar Srinivasan, Bernhard Laback, Piotr Majdak
- M26: CORRECTIVE BINAURAL PROCESSING IMPROVES LOCALIZATION PERFORMANCE BY BILATERAL COCHLEAR IMPLANT: Christopher A. Brown
- M27: OPTIMIZING PITCH MATCHING FOR BILATERAL COCHLEAR IMPLANT USERS: Stefano Cosentino, Olga Stackovskaya, Joshua G.W. Bernstein, Matthew J. Goupell
- M28: FACTORS UNDERLYING THE BINAURAL SPEECH UNMASKING AND INTERFERENCE FOR BILATERAL COCHLEAR-IMPLANT USERS: Matthew Goupell, Olga Stakhovskaya, Joshua Bernstein
- M29a: SIMULTANEOUS VERSUS SEQUENTIAL BILATERAL COCHLEAR IMPLANTATION IN ADULTS: A RANDOMIZED CONTROLLED TRIAL ON OBJECTIVE AND SUBJECTIVE MEASURES: Veronique JC Kraaijenga, Geerte GJ Ramakers, Yvette E Smulders, Alice van Zon, Inge Stegeman, Adriana L Smit, Robert J Stokroos, Nadia MG Hendrice, Rolien H Free, Bert Maat, Johan HM Frijns, Jeroen J Briaire, Emmanuel AM Mylanus, Wendy J Huinck, Gijsbert A van Zanten, Wilko Grolman
- M29b: CORRELATION BETWEEN SUBJECTIVE AND OBJECTIVE HEARING TESTS AFTER UNILATERAL AND BILATERAL COCHLEAR IMPLANTATION: Geerte Gertrudis Johanna Ramakers, Yvette E. Smulders, Alice van Zon, Inge Stegeman, Gijsbert A. van Zanten, Wilko Grolman

- M30a: ELECTRICALLY EVOKED AUDITORY BRAINSTEM RESPONSES AND ACOUSTIC CHANGE COMPLEXES IN ADOLESCENT COCHLEAR IMPLANT USERS WITH LONG INTER-IMPLANT INTERVALS : Marc Lammers, Bernard Vonck, Geerte Ramakers, Huib Versnel, Gijsbert van Zanten, Wilko Grolman
- M30b: SEQUENTIAL BILATERAL IMPLANTATION IN OLDER CHILDREN: INTER IMPLANT MAP DIFFERENCES AND THEIR EFFECTS ON FUNCTIONAL OUTCOMES: Cristina Simoes-Franklin, Isobel Flood, Jyoti Thapa, Fergal Glynn, Peter Walshe, Richard B Reilly, Laura Viani
- M31: EXPLAINING VARIABILITY IN SPEECH AND LANGUAGE OUTCOMES FOR CHILDREN WITH BILATERAL COCHLEAR IMPLANTS: A LONGITUDINAL STUDY: Sara M Misurelli, Shelly P Godar, Ruth Y Litovsky
- M32: VOICE GENDER RELEASE FROM MASKING IN COCHLEAR IMPLANT USERS IS CORRELATED WITH BINAURAL PITCH FUSION: Yonghee Oh, Curtis Hartling, Lina Reiss, Nirmal Srinivasan, Kasey Jakien, Anna Diedesch, Frederick Gallun
- M33: HEALTH UTILITY IN UNILATERAL VERSE BILATERAL COCHLEAR IMPLANT RECIPIENTS: Hillary Rose Perry, Ward Drennan
- M34: BINAURAL OPTIMIZATION OF COCHLEAR IMPLANTS: DISCARDING FREQUENCY CONTENT WITHOUT SACRIFICING HEAD-SHADOW BENEFIT: Sterling W Sheffield, Matthew Goupell, Nathaniel J Spencer, Olga Stakhovskaya, Joshua G.W. Bernstein
- M35a: COMPARING METHODS FOR PAIRING ELECTRODES ACROSS EARS WITH COCHLEAR IMPLANTS : Hannah E. Staisloff, Daniel H. Lee, Justin M. Aronoff
- M35b: INFLUENCE OF BILATERAL FITTING PARAMETERS ON BINAURAL UNMASKING IN BICI USERS: Stefan Zirn, Susan Arndt, Thomas Wesarg
- M36: MULTI-ELECTRODE LATERALIZATION USING REALISTIC INTERAURAL LEVEL DIFFERENCES IN BILATERAL COCHLEAR-IMPLANT LISTENERS: Olga A. Stakhovskaya, Matthew J. Goupell
- M37a: AN UPDATED ALGORITHM FOR IMPROVING ITD-BASED LOCALIZATION OF BILATERAL CI USERS USING ENVELOPE ONSET ENHANCEMENT: Aswin Wijetillake, Sonja A. Shalaby, Bernhard U. Seeber
- M37b: VERIFICATION OF THE VIRTUAL SOUND LOCALIZATION SYSTEM FOR HEARING IMPAIRED: Jingpeng Xiang, Jinqiu Sang, Chengshi Zheng, Xiaodong Li
- M38: QUANTIFYING CONNECTIVITY TO AUDITORY CORTEX: IMPLICATIONS FOR CROSSMODAL PLASTICITY AND HEARING RESTORATION: Blake E. Butler, Stephen G. Lomber
- M39: EFFECT OF CHRONIC STIMULATION AND LEVEL ON TEMPORAL PITCH PERCEPTION BY COCHLEAR-IMPLANT LISTENERS: John Michael Deeks, Francois M Guerit, Alexander J Billig, Yu Chuen Tam, Frances Harris, Robert P Carlyon
- M40a: DEVELOPMENT AND EVALUATION OF AUDITORY NEURAL STIMULATOR FOR ANIMAL RESEARCH: Doo Hee Kim, Ho Seung Lee, Woo Jin Ahn, Kyou Sik Min, Jin Won Kim, Jeonghoan Park, Jaeyong Yu, Seung-ha Oh
- M40b: AAV-MEDIATED NEUROTROPHIN GENE THERAPY PROMOTES IMPROVED SURVIVAL OF COCHLEAR SPIRAL GANGLION NEURONS IN NEONATALLY DEAFENED CATS: Patricia A Leake, Stephen J. Rebscher, Chantale Dore , Christian Fahlman, Lawrence R. Lustig, Bas Blits, Omar Akil
- M41a: PAIRED STIMULATION OF THE COCHLEA AND THE VAGUS NERVE FAILS TO INDUCE CORTICAL MAP PLASTICITY IN THE MONGOLIAN GERBIL: Maike Vollmer, Thomas Dietrich, Armin Wiegner
- M41b: TEMPORAL INPUT CHARACTERISTICS FROM COCHLEAR IMPLANTS SELECTIVELY DRIVE TEMPORAL PLASTICITY IN THE INFERIOR COLLICULUS: Maike Vollmer, Patricia A. Leake, Ralph E. Beitel

- M42a: INVESTIGATING A MODEL FOR MUSIC COMPLEXITY APPLIED TO MUSIC PREPROCESSING FOR COCHLEAR IMPLANTS: Wim Buyens, Marc Moonen, Jan Wouters, Bas van Dijk
- M42b: EFFECTS OF COMPRESSION ON MUSICAL SOUND QUALITY IN COCHLEAR IMPLANT USERS: Melanie Gilbert, Patpong Jiradejvong, Charles Limb
- M43a: PERCEPTION OF MUSICAL EMOTIONS IN CI RECIPIENTS WITH CONTRALATERAL ACOUSTIC HEARING: Josef Chalupper, Alessandra Murri, Anna Minardi, Domenico Cuda
- M43b: MUSICAL PITCH DISCRIMINATION WITH A NEW INTERLACED CI CODING STRATEGY: Dietmar Wohlbauer, Norbert Dillier, Wai Kong Lai
- M44: MUSIC TRAINING AND ITS EFFECT ON SPEECH PERCEPTION FOR CHILDREN WITH COCHLEAR IMPLANTS: Chi Yhun Lo, Catherine M. McMahon, Valerie Looi, William F. Thompson
- M45: MULTIPLE PITCH PERCEPTION WITH LIMITED SPECTRAL RESOLUTION: IMPLICATIONS FOR COCHLEAR IMPLANTS: Anahita H Mehta, Andrew J Oxenham
- M46: MUSICAL EMOTION RECOGNITION WITH NORMAL HEARING AND COCHLEAR IMPLANTS: Xin Luo, Kathryn Pulling
- M47a: PITCH PERCEPTION WITH COMBINED PLACE AND TEMPORAL CUES ON PHANTOM ELECTRODE: Xin Luo, Christopher Garrett
- M47b: CONGRUENT TIMBRE CUES IMPROVE MELODIC CONTOUR IDENTIFICATION WITH COCHLEAR IMPLANTS: Xin Luo