

Saturday, February 22, 2014													
8:00 AM - 12:00 PM		Presidential Symposium: First-in-Human Trials of Neurotechnology: Past, Present and Future											
		Introduction				Jay		Rubinstein					
		The Cochlear Implant: Past, Present And Future				Jim		Patrick					
		The Development Of Second Sight's Argus II Retinal Prosthesis				Robert		Greenberg					
		Neurosurgical Studies of The Functional Organization of Human Auditory Cortex				Matthew		Howard					
		Human Trial of an Implantable Vestibular Prosthesis				Jim		Phillips					
		Striatal Stimulation for Tinnitus Modulation				Steven		Cheung					
		Learning And Feedback for a Sensorimotor Brain-Computer Interface				Jeff		Ojemann					
12:00 PM - 2:00 PM		Travel Awards Luncheon / Mid-afternoon Break											
2:00 PM - 5:30 PM		Podium: Genetics				Podium: Inner Ear-Prestin/Motility				Symposium: Structural and Physiological Development of Auditory Synapses			
		PD - 007 Gene Discovery by Next Generation Sequencing: Which is the Real Mutation?		Ofer Yizhar-Barnea		PD - 001 Prestin and heterologously expressed membrane proteins are constrained by the trilaminar lateral wall of outer hair cells		Tetsuji Yamashita		Physiological maturation of ribbon synapses		Tobias Moser	
		PD - 008 The Use of Different NGS Protocols to Study Inherited Forms of Hereditary Hearing Loss (HHL)		Paolo Gasparini		PD - 002 Prestin activity contributes to the stereocilia deflection phase		Pierre Hakizimana		Ribbon development and function in zebrafish hair cells		Teresa Nicolson	
		PD - 009 Copy number variation of deafness genes analyzed with the next-generation sequencing method		Haoting Ji		PD - 003 Intracellular chloride level affects nonlinear capacitance but neither frequency response nor magnitude of electromotility in outer hair cells.		Joseph Santos-Sacchi		Development of spiral ganglion neurons and their synaptic connections		Lisa Goodrich	
		PD - 010 Sequential Utilization of Custom Targeted Capture Platforms in Non-Syndromic Hearing Loss: Impacts on Diagnosis and Novel Gene Discovery		Christina Sloan		PD - 004 Voltage under fire: IR Laser-induced perturbations of the voltage-dependent solute carrier protein, SLC26a5.		Oluwarotimi Okunade		Differential plasticity at developing type I afferent synapses		Johanna Montgomery	
		PD - 011 The Newborn Mouse Inner Ear Hair Cell-Specific Transcriptome – Lessons From Microarray and RNA-Seq, and a Critical Comparative Analysis of Both Methods		Ronna Hertzano		PD - 005 Prestin function		Guillaume Duret		Activity and Endbulb Development		David Ryugo	
		PD - 012 CHD7 and SOX11 Contributions to Inner Ear and Craniofacial Development		Ethan Sperry		PD - 006 LPA Activation of a RhoA/cPKCalpha-mediated Signaling Pathway Regulates Outer Hair Cell Motility by Phosphorylating the Cytoskeletal Protein Adducin		Channy Park		Structural dynamics of neurons and glia during rapid growth of the calyx of Held		George Spirou	
		PD - 013 A Common Lipase: The Role of the Poorly Annotated Gene C2orf43 in Hearing Loss, Obesity and Prostate Cancer		Benjamin Currall						Activity of neuronal ensembles during hearing development: clusters of co-active neurons or propagating waves?		Adrian Rodriguez-Contreras	
		PD - 014 Death of a Hair Cell: How is the Auditory Apoptosis that Causes Acquired Hearing Loss Regulated?		Rachel Burt									
		6:00 PM - 7:00 PM		Welcome Reception									
		Workshops - TBD											
		Saturday/Sunday Poster Sessions (1:00pm Saturday to 12:00pm Sunday)											
		Aging											
		PS - 001 Age-related changes in subcortical-cortical encoding and categorical perception of speech				Gavin Bidelman							
		PS - 002 Aldosterone Augments Pre-Pulse Inhibition but not Startle Amplitude in Middle-Aged CBA Mice				Joshua Halonen							
		PS - 003 The Role of Age-related Auditory and Cognitive Declines in Understanding Speech in Noise				Tim Schoof							
		PS - 004 The Roles of Mitochondrial Isocitrate Dehydrogenase in Age-Related Hearing Loss				Mi-Jung Kim							
		PS - 005 Fatty Acid-Binding Protein 7 Deficiency Slows the Progression of Age-Related Hearing Loss in Mice by Modulating Metabolic Pathways				Jun Suzuki							
		PS - 006 Morphological Predictors of Cortical Theta Band Desynchronization for Younger and Older Adults				Kelly C Harris							
		PS - 007 Cortical Spectrotemporal Responses and Parvalbumin Expression in Aging Mice				Dustin Brewton							
		PS - 008 Aldosterone Reduces Spiral Ganglion Neuron Loss in Middle-aged CBA/CaJ Mice				Xiaoxia Zhu							
		PS - 009 Isoform Selectivity and Age-Related Expression of Na, K-ATPase in the Cochlear Stria Vascularis				Bo Ding							
		PS - 010 Musical Experience and Hearing Loss: Perceptual, Cognitive and Neural Benefits				Alexandra Parbery-Clark							
		PS - 011 Estrogen Improves ABR Gap Responses Following Hormone Treatment in Middle Age Mice				Tanika Williamson							
		PS - 012 Age-Related Changes in the Stria Vascularis in C57BL/6 Mice				Mitsuya Suzuki							
		PS - 013 The Roles of Glutathione Reductase in Age-related Hearing Loss				Chul Han							
		PS - 014 TrkB mediated protection against circadian sensitivity to noise trauma in the murine cochlea				Inna Meltser							
		PS - 015 High-fat diets delay the progression of age-related hearing loss in C57BL/6J mice.				Takeshi Fujita							
		PS - 017 Effects of age on the ABR Wave I latency and amplitude in HET4 mice				David Dolan							
		PS - 018 Age-related Structural Change in Blood-labyrinth Barrier of the Stria Vascularis				Xiaorui Shi							
		PS - 019 Methionine Sulfoxide Reductase A (MsrA) Expression in the Mouse Cochlea				Marcello Peppi							
		PS - 020 Effect of aging on parameter of distortion product otoacoustic emission				Jae-Hun Lee							
		PS - 021 Decoding the Locus of Attention to Visual, Auditory, and Audiovisual Stimuli from Single-Trial EEG Data				Lenny Varghese							
		PS - 022 In Vivo and Modeling Study of Age Related Changes in Frequency Tuning and Spontaneous Activity in the Inferior Colliculus				Brandon Coventry							
		PS - 023 Comparative Measurements of Distortion Product Otoacoustic Emissions and Frequency-Following Responses Evoked by Amplitude Modulated Tones in Young and Aged Rats				Jesyin Lai							
		PS - 024 Mapping the Call Perception Circuit in Awake-Behaving Wild Type Mice and Genetic Models of Speech and Language Disorders				Gregg Castellucci							
		PS - 025 Hearing Loss in C57BL6/J Mice is not Influenced by Dietary Supplement with ACEMg or CEMg				Colleen Le Prell							
		Auditory Corex and Thalamus I											
		PS - 078 Developmental Conductive Hearing Loss boosts Inhibitory Synaptic Strength in the Medial Temporal Lobe				Vibhakar Kotak							
		PS - 079 Responses to Sinusoidal Amplitude Modulated Stimuli with Variable Presentation Sequences in Auditory Thalamic Neurons of Young and Aged Awake Rats				Rui Cai							
		PS - 080 Spatial and Frequency Sensitivity in the Subdivisions of the Medial Geniculate Body				Justin Yao							
		PS - 081 High Gamma Responses to Auditory Stimuli Adapt Over Multiple Time Scales in Human Cortex				Steven Eliades							
		PS - 082 Attention Modulates the Reset of the Auditory Steady State Response				Brandon Paul							
		PS - 083 Simultaneous, 3-dimentional mapping of spatio-temporal activity in auditory cortex and thalamus of rats				Kazusa Takahashi							
		PS - 084 Signal Representation in Anesthetized Auditory Cortex is Impervious to Informational Masking				Peter Bremen							
		PS - 085 Anesthetic effect on tonotopic organization in rat auditory cortex				Takahiro Noda							
		PS - 086 Mismatch Negativity (MMN) in Rat Auditory Cortex				Tomoyo Shiramatsu							
		PS - 087 Awake State and Auditory Cortex Microstimulation Enhance Contralateral-Noise Suppression of Cochlear Responses in Chinchillas				Macarena Bowen							
		PS - 088 Attentional modulation strength of auditory-evoked cortical response predicts selective attention performance				Inyong Choi							
		PS - 089 Influence of acoustic context on auditory responses in the basolateral amygdala				Marie Gadziola							
		PS - 090 Intensity Tuning in the Pallid Bat Auditory Cortex: Topography and Mechanisms				Kevin Measor							
		PS - 091 Characterization of cell-death mechanisms within the central auditory pathway upon repeated noise exposure				Felix Fröhlich							
		PS - 092 Oscillatory Dynamics of EEG Correlate with Build-up in an Informational Masking Task				Matthew Wisniewski							
		PS - 093 Are There Ear and Sex Differences in Auditory Processing of Signals in Noise seen in AMLR?				Holden Sanders							
		PS - 094 Neural Representations of Background Speakers at the Cocktail Party				Krishna Puvvada							
		PS - 095 Representation of ITD in the Human Brain: Evidence for the π -limit?				Nelli Salminen							
		PS - 096 Functional Characterisation of Thalamic Input to the Mouse Auditory Cortex				Sebastian Vazquez-Lopez							
		PS - 097 Mechanisms of noise robust representation of speech in primary auditory cortex				Nima Mesgarani							
		PS - 848 Neural Correlates Of Streaming, Selective Attention, And Expectation In Bilateral Concurrent Sound Segregation				Anahita Mehta							
		PS - 016 Mismatch Negativity-like Responses in the Rat Auditory System in the Oddball Paradigm				Haruka Nakahara							

Auditory Pathways: ERPs

PS - 044	Auditory Brainstem Response: Binaural Difference Potential in the Mongolian Gerbil (Meriones unguiculatus)
PS - 045	A Electroencephalography Study of Binaural Interactions in Humans Using the Frequency Following Response
PS - 046	High school music classes enhance the neural processing of speech in noise
PS - 047	Moving to a Beat and Reading Rely on Neural Timing
PS - 048	Effects of Frequency Compression on the Neural Encoding of Complex Sounds in the Human Brainstem
PS - 049	Brainstem correlates of temporal-spectral resolution tradeoff in the human auditory system
PS - 050	A Human Auditory Brainstem Response Model for Broadband Stimulation
PS - 051	Sub-Cortical Phase Locking to Attended and Unattended Streams of Resolved and Unresolved Harmonic Complex Tones
PS - 052	Simultaneous Measurement of Cortical Responses, Sub-cortical Responses, and Behavior Performance in an Auditory Attention Task
PS - 053	Post-concussion Brainstem Neural Processing in Quiet and Noise
PS - 054	Cochlear Neuropathy in "Normal Hearing" Humans and the Coding of Supra-threshold Sound
PS - 055	Sensitivity of Speech-evoked Envelope Following Responses (EFR) to Level and Amplification in Normal Hearing and Hearing Impaired Adults
PS - 056	Effects of Adverse Listening Conditions on Subcortical Neural Representation of Speech Sounds in Normal and Impaired Ears
PS - 057	Individual Differences in Auditory Brainstem Response Latency in Noise: A Measure of Auditory Nerve Fiber Deafferentation?

Geneviève	Laumen
Le	Wang
Jennifer	Krizman
Adam	Tierney
Jillian	Wendel
Ameenuddin	Khaja
Sarah	Verhulst
Dorea	Ruggles
Lengshi	Dai
Kathy	Vander Werff
Hari	Bharadwaj
Vijayalakshmi	Easwar
Saradha	Ananthakrishnan
Golbarg	Mehraei

Auditory Pathways: Midbrain

PS - 058	Persistent Neonatal Exposure to a Moderately-Intense Narrowband Sound Stimulus Alters Tonotopic Maps in Auditory Midbrain
PS - 059	Adaptive Coding of Sound Level in Auditory Midbrain Neurons: an in vivo Intracellular Study
PS - 060	The Role of BK channels in Shaping Receptive Field Properties in the Mouse Inferior Colliculus
PS - 061	Multiple Combination of Inputs to Inferior Colliculus (IC) Determines Synaptic Domains for Stimulus-Specific Adaptation (SSA) in Rat
PS - 062	Optogenetic stimulation of the mouse primary auditory cortex enhances concurrent tone-evoked activity in the lateral – but not central – nucleus of the inferior colliculus
PS - 063	Neuronal Processing Mechanisms Underlying Masking and Spatial Release from Masking in Gerbils
PS - 064	Asymmetric Temporal Interactions of Excitatory and Inhibitory Inputs in the Auditory Midbrain.
PS - 066	Rostral Pole of the Inferior Colliculus is a Distinct Entity: Morphological Evidence in Cat, Mole and Rat
PS - 067	In-Vivo Whole Cell Recordings Revealed Binaural Mechanism for EI Neurons
PS - 068	Fine-Scale Tonotopic Arrangement in the Dorsal Cortex of the Mouse Inferior Colliculus studied with Two-Photon Calcium Imaging
PS - 069	Auditory Cortical Axons Contact Both GABAergic and Non-GABAergic Cells in the Auditory Midbrain that Project to the Medial Geniculate Body
PS - 070	Converging Midbrain Afferent Patterns and Auditory Brainstem Responses in Ephrin-B3 Mutant Mice.
PS - 071	Perisomatic Rings of Glutamatergic Terminals Identify a Subset of GABAergic Cells in Inferior Colliculus that are Surrounded by Perineuronal Nets
PS - 072	Harmonicity outplays Direction Cues in Grouping Tasks
PS - 073	The Acoustic Environment Matters: Differential Effects of Different Kinds of Cochlear Damage on Spontaneous Activity in the Central Auditory System of Mice
PS - 074	The Effect of 16p11.2 Chromosomal Deletion on Mouse Hearing
PS - 075	Spatial Distribution of Gap Detection Thresholds and Temporal Modulation Sensitivity in the Mouse Inferior Colliculus
PS - 076	Nonlinear temporal envelope processing in the inferior colliculus
PS - 077	Neural Correlates of Behavioral Comodulation Masking Release in the Rabbit

Lisa	D'Alessandro
Roberta	Donato
Elliott	Brecht
Yaneri	Ayala
Keith	Darrow
Astrid	Klinge-Strahl
Munenori	Ono
Motoi	Kudo
Na	Li
Oliver	Barnstedt
Jeffrey	Mellott
William	Noftz
Nichole	Foster
Lena	Eipert
Warren	Bakay
Elena	Mahrt
Rüdiger	Land
Hemant	Srivastava
Muhammad	Zilany

Development I

PS - 176	Label-Free Quantitative Mass Spectrometry of Protein Expression in the Developing Cochlear Sensory Epithelium
PS - 177	FGF and Wnt Signaling Interactions During Otic Placode Induction
PS - 178	Morphological Changes in the Auditory and Vestibular Systems of Transgenic Pax2-Islet1 Mice
PS - 179	Tracing Sox10-expressing Cells Elucidates the Dynamic Development of the Mouse Inner Ear
PS - 180	Analysis of transcription factor mediated organ of Corti cell fate changes Help in understanding the specific pattern of Innervation.
PS - 181	Atoh1 enhance the expression of Pou4f3 and Gfi1 during mouse ES cell differentiation
PS - 182	In Vivo Overactivation of Notch Signaling Pathway in Developing Cochlear Epithelium
PS - 183	Mutation of ELMOD1 Disrupts Stereocilia and Cuticular Plate Development in Vestibular Hair Cells
PS - 184	The Meckel Gruber Syndrome Protein TMEM67/Meckelin Regulates Basal Body Planar Polarization and Ciliogenesis in the Organ of Corti
PS - 185	Differential Small RNA Expression in Hair Cells of Dgcr8 and Dicer1 Conditional Knockout Mice.
PS - 186	Rho GTPase Cdc42 Regulates Patterning and Polarization of Hair Cells in the Embryonic Organ of Corti

Lancia	Darville
Kevin	Wright
Tetyana	Chumak
Takanori	Wakaoka
Israt	Jahan
Hyong-Ho	Cho
Tomoko	Tateya
Jocelyn	Krey
Dan	Jagger
Isha	Dewan
Anna	Kirjavainen

Inner Ear: Damage and Protection I

PS - 026	ERK2 Mediates Hair Cell Survival and Protects Noise-Induced Hearing Loss in Mice
PS - 027	Maxipost, a Potassium Channel Modulator Demonstrates High-Frequency Protection against Salicylate-Induced Hearing Loss
PS - 028	D-methionine Reduces Tobramycin-Induced Ototoxicity without Antimicrobial Interference
PS - 029	Protective effect of silymarin against cisplatin-induced ototoxicity
PS - 030	The potential of human induced pluripotent stem cells for spiral ganglion neuron replacement in the deaf cochlea
PS - 031	Temporal Bone Histopathology in Drug Addiction and the Expression of Mu Opioid Receptor in the Human Inner Ear
PS - 032	Proteomic analysis of the mouse cochlea in lipopolysaccharide induced endotoxemia model
PS - 033	DNA Repair Adjuvant Therapy Regenerates Neural Sensitivity When Administered After Noise Trauma
PS - 034	Diametric Effect of "Localized" Thermal Exposure on Cisplatin Induced Ototoxicity
PS - 035	Auditory Sensory Cells Potentiate TNF-α-induced ROS Generation in Response to IFN-γ Through NOX1 Activation
PS - 036	Pyroloquinoline quinone protect vestibular hair cells against the neomycin ototoxicity
PS - 037	Survey Of Current Auditory Monitoring For Ototoxicity In Oncology, Audiology And Cystic Fibrosis Services In The UK
PS - 038	Ototoxic Efec of Daptomycin Applied to the Guinea Pig Middle Ear
PS - 039	Auditory Responses in Normal-Hearing, Noise-Exposed Human Ears
PS - 040	CD36 is not needed for hair cell phagocytosis and plays a role in hair cell vulnerability to ototoxic agents
PS - 041	Pulmonary Drug Delivery for Rescue of NIHL in a Chinchilla Model
PS - 042	Sound Preconditioning Therapy Inhibits Ototoxic Hearing Loss in Mice
PS - 043	Long-Term Effects of Noise Exposure and Antioxidant Treatment on Chinchilla Cochleae

Takaomi	Kurioka
Adam	Sheppard
Kathleen	Campbell
Sung-Il	Cho
Niliksha	Gunewardene
Kimanh	Nguyen
Jae Hong	Park
O'neil	Guthrie
Christopher	Spankovich
Jeong-Im	Woo
Kazuma	Sugahara
Ghada	Al-Malky
Hidetoshi	Oshima
Greta	Stamper
SONG-ZHE	LI
Ronald	Jackson
Soumen	Roy
Xiaoping	Du

Localization: Physiological

PS - 098	Influence of Double Stimulation on the Representation of Interaural Time Difference in the Barn Owl's ICX: Adaptation in the Auditory Space Map
PS - 099	Representation of spatial and spectro-temporal cues in the midbrain and forebrain of barn owls.
PS - 100	Spectral and temporal integration in the auditory system of barn owls
PS - 101	Uncertainty Mapped by Frequency-dependent Spatial Tuning in the Owl's Midbrain
PS - 102	Reversible Inactivation of Primary Auditory Cortex by Cooling in the Awake, Behaving Ferret: Effect on Sound Localisation Ability
PS - 103	The Effect of Task on Auditory Localization Cues in Human Auditory Cortex
PS - 104	Effects of Interaural Decorrelation on Psychophysical and Physiological Sensitivity to Low-Frequency Interaural Level Difference Cues
PS - 105	Searching for the "What" and "Where" Pathways in the Owl's Auditory Forebrain
PS - 106	The nicotinic acetylcholine receptor α7 subunit and its modulator lynx1 are highly expressed in sound localization processing nuclei of the gerbil
PS - 107	Coding frequency-dependent interplay between low threshold voltage-gated K+ channels and synaptic inhibition in chicken sound localizing neurons
PS - 108	The Effects of Ipsilateral and Contralateral Noise on the "Mid-Level Hump" in Intensity Discrimination
PS - 109	Differential Constraints on the Acquisition and Consolidation of Learning on an Interaural Level Difference Discrimination Task

Roland	Ferger
Philipp	Tellers
Lutz	Kettler
Fanny	Cazettes
Katherine	Wood
Nathan	Higgins
Andrew	Brown
Michael	Beckert
Sonia	Weimann
William	Hamlet
Elin	Roverud
Robert	Baudo

Otoacoustic Emissions

PS - 110	Slow Oscillations of Number, Level and Frequency of Spontaneous Otoacoustic Emissions after Low-frequency Sound Exposure in Human Subjects
PS - 111	The Intracochlear DP-gram: A Noninvasive Assay of Basilar Membrane Distortion Products in Noise-Exposed Rabbits
PS - 112	Extraction of Distortion Product Otoacoustic Source Components for Auditory Threshold Estimation
PS - 113	Comparison of DPOAE Source Components Measured at High Frequencies in Children and Young Adults
PS - 114	Mapping Cochlear Regions Affected by Acute Acoustic Overstimulation with Distortion Product Otoacoustic Emissions.
PS - 115	Probing the Generation Region of Stimulus-frequency Otoacoustic Emissions with Exposures to Intense Tones
PS - 116	Effects of a Third Tone on Distortion Product Otoacoustic Emissions and Their Intracochlear Sources
PS - 117	Low-frequency Sound Exposure Causes Biphasic Changes of the Mechano-electrical Transducer Operating Point

Kathrin	Kugler
Barden B.	Stagner
Anthony	Gummer
Laura	Dreisbach
Yingyue	Xu
Jonathan	Siegel
Wei	Dong
Markus	Drexl

PS - 118	Basal SFOAE sources and fine-structure of the reflectivity function	Renata	Sisto
PS - 119	Tuning of SFOAEs Evoked by Low-frequency Tones Is Not Compatible with Localized Emission Generation	Karolina	Charaziak
PS - 120	DPOAE generation mechanisms and frequency ratio functions	Teresa	Botti
PS - 121	Sources of Otoacoustic-Emission Noise-Floor Changes in The Presence of Middle-Ear Liquid	Olubunmi	Akinpelu
PS - 122	Experimental evidence for basal place-fixed generation of short-latency TEOAE components	Arturo	Moleti
PS - 123	Multi-Frequency Acquisition of Input-Output Functions Using Short-Pulse Distortion Product Otoacoustic Emissions	Dennis	Zelle
PS - 124	Repeatability and Stability of Medial Olivocochlear Reflex Effects on Short- and Long-latency Transient-evoked Otoacoustic Emissions	Ian	Mertes
PS - 125	Optimal Transient Stimulation Rate for Recording OAEs in MOC based Assays	Sriram	Boothalingam
PS - 126	The Origin of Short-Latency Transient-Evoked Otoacoustic Emissions	James	Lewis
PS - 127	Associations Between Threshold Fine Structure and Stimulus-Frequency Otoacoustic Emissions	James	Dewey
PS - 129	Discrete and Swept-Frequency SFOAE with and without Suppressor Tones	Maryam	Naghibolhosseini
Plasticity of Central Auditory System			
PS - 130	Differential Patterns of Thalamo-cortical and Cortico-cortical Projections to the Primary Auditory Cortex in Early- and Late-deaf Cats	Blake	Butler
PS - 131	Acute and Chronic Changes in Synaptic Plasticity Gene Expression in Rat Inferior Colliculus following Unilateral Noise Induced Hearing Loss	Francesca	Russo
PS - 132	Development of a noninvasive neuromodulation approach for treating tinnitus	Benjamin	Smith
PS - 133	Hearing Experience Changes Neuron-Glia Interaction in the Midbrain of Adult Rats	Nicole	Rosskothén-Kuhl
PS - 134	Functional Near-infrared Spectroscopy Reveals Cross-modal Reorganisation in Auditory Cortex following Deafness.	Rebecca	Dewey
PS - 135	Auditory Brainstem Development: Insights from Expert and Disordered Populations	Erika	Skoe
PS - 137	Tracking Brain Plasticity with Event-Related Optical Signal (EROS) in Cochlear Implant Patients	Chun-Yu	Tse
PS - 138	How musical expertise influences speech perception in noise: A comparison of drummers, vocalists and non-musicians.	Jessica	Slater
PS - 139	Cross-modal plasticity of intracortical connections in auditory cortex	Xiangying	Meng
PS - 140	Stimulus-Timing Dependent Plasticity in Dorsal Cochlear Nucleus is Altered in Tinnitus	Seth	Koehler
Psychoacoustics I			
PS - 141	Measurement of Medial Olivocochlear Efferent Activity During Psychophysical Overshoot	Wei	Zhao
PS - 142	Consonant Identification using Temporal-Fine Structure and Recovered Envelope Cues for Normal-Hearing and Hearing-Impaired listeners	Agnès	Léger
PS - 143	Inter-individual Variation of Sensitivities to Frequency Modulation, Amplitude Modulation, and Interaural-phase Difference: Relation with Click-evoked Otoacoustic Emissions	Sho	Otsuka
PS - 144	A test of the assumptions of the temporal masking curve method of assessing cochlear nonlinearity	Patricia	Pérez-González
PS - 145	A Fast Method for Psychophysical Estimation of Nonlinear Cochlear Processing using Schroeder Phase Harmonic Complexes.	Sarah	Rahmat
PS - 146	Effect of Precursor Duration on Cochlear Gain and Compression Estimates	Vit	Drga
PS - 147	The Effect of Tone Duration on Detection and its Neuronal Correlates in the Subcortical Auditory System of Nonhuman Primates	Abigail	Bernard
PS - 148	Audiograms, Gap Detection Thresholds, and Frequency Difference Limens in Cannabinoid Receptor 1 Knockout Mice	Katrina	Toal
PS - 149	Better-ear Glimpsing Efficiency in Hearing-Impaired Listeners	Virginia	Best
PS - 150	The Role of Harmonic Spectral Structure in Speech Segregation	Josh	McDermott
PS - 151	Perceptual Calibration to Modest, Predictable Spectral Peaks in Precursor Sounds Influences Vowel Identification	Paul	Anderson
Psychoacoustics: Masking, Noise and Reverberation			
PS - 152	Evaluating Single Channel Noise Reduction Algorithms for Hearing Impaired listeners	Jessica	Monaghan
PS - 153	Effects of Noise Reduction on Temporal Fine Structure and Temporal Envelope Cues	Shayesteh	Kiaei
PS - 154	Release from sequential informational masking by spatial cues	Lena-	
PS - 155	Developmental auditory deprivation reduces modulation masking release	Vanessa	Dollezal
PS - 156	The Perception of Reverberation is Constrained by Environmental Statistics	Anĳe	Ihlefeld
PS - 157	Severe Selective Inner Hair Cell Loss in Chinchillas; Impaired listening in noise with near normal audiograms	James	Traer
PS - 158	Central Unmasking in a Melody Recognition Task	Edward	Lobarinas
PS - 159	Estimating loudness growth from tone-burst evoked responses at audiometric frequencies	Corey	Stoelb
PS - 160	Spectral, Temporal and Spatial filters for Noise Masking of Detection of Tones	Michael	Epstein
PS - 161	Making Sound Features Disappear	Peter	Bohlen
PS - 162	Prevention of auditory perceptual learning attributed to distinct representations of the same auditory stimulus in quiet and in noise	Neil	Rabinowitz
PS - 163	Ultrasonic Noise in the Animal Facility and Laboratory: The "Silent" Confound	David	Little
PS - 164	The Relationship between Concert Hall Reverberance, Listener Envelopment, Tonal Quality and Overall Listener Preference	Jeremy	Turner
PS - 165	Enhanced Amplitude Modulation Sensitivity in Reverberant Soundfields: Effects of Prior Listening Exposure, Soundfield, and Modulation Frequency	Michelle	Vigeant
		Pavel	Zahorik
Psychoacoustics and Sound Localization: Modeling			
PS - 166	Quadrature Model of Binaural Unmasking	Rainer	Beutelmann
PS - 167	Development and Validation of a Measure of "Hearing-related Quality of Life" Sensitive to Binaural Hearing in Adults	Adele	Goman
PS - 168	The Haas Effect: Psychophysical Data and Modeling	M.	
PS - 169	Modeling based Performance Evaluation of Sound Localization for Binaural CI-Listeners for different Listening Environments	Torben	Pastore
PS - 170	A mechanism for neural coding of sound-source distance: Experiment and model	Christian	Wirtz
PS - 171	Modeling the Role of the Dorsal Cochlear Nucleus in Sagittal-plane Localization of Human Listeners	Duck	Kim
PS - 172	A Novel Paradigm to Investigate Temporal Fine-Structure Processing	Robert	Baumgartner
PS - 173	Modeling of Speech Localization in a Multitalker Mixture Using "Glimpsing" Models of Binaural Processing	Christian	Lorenzi
PS - 174	Optimal Prediction of Moving Sound Source Direction in the Owl	Peter	Toth
PS - 175	Neural coding of acoustic temporal fine structure and envelope: Psychophysiological assessment of peripheral encoding on sound localization	Brian	Fischer
		Heath	Jones
Regeneration I			
PS - 187	Effects of Growth Hormone (GH) and GH Antagonist on Zebrafish Auditory Hair Cell Regeneration	Amy	Ni
PS - 188	Targeted mutagenesis for zebrafish inner ear (S100s) using transcription activator-like effector nucleases (TALENs)	In Seok	Moon
PS - 189	Regulation of hair cell fate: transcription factor combinations and epigenetics	ryoukichi	ikeda
PS - 190	Fate-Mapping Supporting Cells in Damaged Organ of Corti	Elizabeth	Oesterle
PS - 191	Gene Expression Profiling of Neonatal Mouse Supporting Cells by Next Generation Sequencing	Juan	Maass
PS - 192	Ablation of Different Quantities of Hair Cells in the Neonatal Mouse Cochlea to Examine Mechanisms of Regeneration	Michelle	Randle
PS - 193	Characterization of an in vivo Mouse Model of Vestibular Hair Cell Degeneration/Regeneration	Zahra	Sayyid
PS - 194	An Independent Construct for Conditional Expression of Atonal Homolog-1 (Atoh1)	Mark	Parker
PS - 195	Activation of HER2 Signaling Causes Supporting Cells to Divide in Mouse Neonatal Cochlea	Jingyuan	Zhang
PS - 196	Temporally Controlled Inactivation of the Retinoblastoma Family of Proteins in the Auditory Supporting Cells	Sonia	Rocha-Sanchez
PS - 197	Characterization of a novel Rb1 inducible dominant negative mouse model	Shikha	Tarang
PS - 198	DNA Damage Signalling Plays a Critical Role in Proliferative Capacity of the Inner Ear Supporting Cells	Maarja	Laos
PS - 199	Alteration of Musashi1 distribution following gentamicin-induced hair cell loss in the guinea pig crista ampullaris	Makoto	Kinoshita
PS - 200	Hair Cell Death and Clearance in Undamaged Adult Mouse Utricles	Stephanie	Furrer
PS - 201	Characterization of Hair Cell Survival Genes in Regenerated Hair Cells in the Neonatal Mouse Cochlea	Sumedha	Karmarkar
Vestibular: Basic Research I			
PS - 202	Effects of unilateral intratympanic gentamicin on vestibulo-ocular reflex function in rhesus monkeys	Chenkai	Dai
PS - 203	Comparison of Gentamicin Distribution in the Inner Ear following Administration via the Round Window or Stapes footplate	Ting	Zhang
PS - 204	Responses of Non-Eye Movement Central Vestibular Neurons to Sinusoidal Horizontal Translation in Compensated Macaques after Unilateral Labyrinthectomy	Shawn	Newlands
PS - 205	Current Density Differences between Action Potential Firing Patterns in Vestibular Ganglion Neurons	Christopher	Ventura
PS - 206	Central Vestibular Neurons of the Vestibulo-Sympathetic Reflex Pathway	Giorgio	Martinelli
PS - 207	Vasovagal Oscillations from the Vestibulo-Sympathetic Reflex have a Critical Role in Production of Vasovagal Responses in the Rat	Sergei	Yakushin
PS - 208	Adult mice with vestibular hair cell ablation show a decrease in the vestibulo-autonomic reflex and an increase in reactivity to stress	Jennifer	Stone
PS - 209	Response of Mice to Fluctuating Hyper-G Acceleration is Influenced by Orientation and Repetition	Donald	Swiderski
PS - 210	Effect of an Emetic Gastrointestinal Input on the Processing of Labyrinthine Inputs by Cerebellar Rostral Fastigial Nucleus Neurons	Michael	Catanzaro
PS - 211	Time Constant for Stimulus Transfer from the Scalp to the Macular Vestibular Epithelium in the Mouse	Timothy	Jones
PS - 212	Detection of velocity storage mechanism in C57BL6 mice	Naoki	Shimizu
PS - 213	Acetylcholine-mediated Ionotropic Currents in Vestibular Calyx Afferents and Type II Hair Cells	Zhou	Yu
PS - 214	Physiological Vestibular Dysfunction in Alpha9 and Alpha9/10 Knockout Mice	Barbara	Morley

	<div>PS - 215 Characterization of CreER activity in the Adult Vestibular Sensory Epithelium for Eight CreER Mouse Lines</div> <div>PS - 216 Strong Static Magnetic Fields Elicit Swimming Behaviors Consistent with Direct Vestibular Stimulation in Adult Zebrafish</div> <div>PS - 217 Visualization of mouse vestibular systems using optical coherence tomography (OCT)</div> <div>PS - 218 Tomographic analyses of afferent synapses in mouse utricular hair cells</div> <div>PS - 219 Development of micro-endoscope for in vivo Ca and FRET imaging.</div> <div>Tinnitus: Animal Models</div> <div>PS - 818 Transdermal Somatosensory Stimulation induces Stimulus Timing Dependent Plasticity in guinea pig Dorsal Cochlear Nucleus</div>										Brandon Bryan Yosuke Ivan Ichiro	Cox Ward Tona Lopez Nakahara
Sunday, February 23, 2014												
8:00 AM - 10:00 AM	Symposium: Consider Bone Conducted Hearing				Symposium: Central Vestibular Control of Essential Autonomic Functions				Podium: Auditory Nerve			
	Basic mechanisms of bone conduction hearing		Stefan	Stenfelt	Anatomical basis for vestibular control of blood pressure		Gay	Holstein	Quantifying Efferent-Induced Inhibition of Cochlear Amplifier Gain from Changes in Human Compound Action Potentials			
	Intracochlear pressure measurements in human temporal bone evoked with bone conduction stimulation		Heidi	Nakajima	Vestibulo-autonomic dysfunction: A clinical perspective		Greg	Whitman	PD - 015	Comparing Otoacoustic, Auditory-Nerve, and Behavioral Estimates of Cochlear Tuning in the Ferret	Jeffery	Lichtenhan
	Computational modeling approach to understanding Carhart’s Notch		Namkeun	Kim	Multisensory integration of vestibular and other inputs influencing cardiovascular control		Bill	Yates	PD - 017	Neural cell adhesion molecule L1 modulates type I but not type II inner ear spiral ganglion neurite outgrowth in an in vitro alternate choice assay	Christian	Sumner
	Animal models of bone conduction		John	Rosowski	Post-flight Orthostatic Hypotension and Related Vestibulo-Autonomic Challenges Associated with Spaceflight		Joan	Vernikos	PD - 018	Suppression of the Geranylgeranyl Pyrophosphate Pathway Stimulates Neurite Growth From Spiral Ganglion Neurons	Yves	Brand
	Devices for bone conduction hearing		Gerald	Popelka	Vestibulosympathetic reflexes in humans: Contributions to Orthostasis		Chester	Ray	PD - 019	Glutamate excitotoxicity and neuroprotection in the cochlea	Donna	Whitlon
	Clinical Solutions for Conductive Hearing loss		Lawrence	Lustig	An animal model of vaso-vagal syncope		Sergei	Yakushin	PD - 020	Thyroid hormone regulates pruning of afferent type I and type II during cochlear neuronal development	Jean-Luc	Puel
									PD - 021	Afferent Neuron Activity in Response to Single Neuromast Deflections in the Posterior Lateral Line System of Larval Zebrafish	Qing	Fang
10:00 AM - 10:15 AM												
	Mid-morning Break											
10:15 AM - 12:15 PM	Symposium: Auditory Neural Remodeling by Environmental Noise and Other Background Sounds				Symposium: Neurotrophins: Their Function in Survival, Neurite Growth, Functional Diversification and Maintenance				Podium: Cochlear Implant / Auditory Prostheses I			
	Introduction to the Symposium		Larry	Roberts	Introduction to Neurotrophin in vivo function revealed by targeted deletion		Bernd	Fritzschn	PD - 024	Gene Transfer of Chronos to the Cochlear Nucleus: Implications for the Optogenetically-based Auditory Brainstem Implant	Robert	Carlyon
	Central changes after hearing loss and their implications in tinnitus mechanisms		Arnaud	Noreña	A new twist to "trophic support": the roles of supporting cell derived BDNF and NT3		Gabriel	Corfas	PD - 025	Identifying Inner Ear Trauma with a Three Dimensional Force Measurement System	Elliott	Kozin
	Noise exposure and auditory system 'maturation'		Martin	Pienkowski	Long term functionally requirement of BDNF revealed by conditional deletion		Marlies	Knipper	PD - 026	High-resolution secondary reconstructions using flat-panel CT in the clinical assessment of patients with cochlear implants	Ersin	Avci
	Similarities in cortical changes following traumatic NIHL and long-term exposure with non-hearing-loss causing sounds		Jos	Eggermont	Neurotrophic factor expression and function in the cochlea post-trauma		Steven	Green	PD - 027	The effect of music therapy and training on speech and music perception in cochlear-implant users	Alexis	Roy
	Primary degeneration of the cochlear nerve in noise and aging: putting the "neural" back in "sensorineural" hearing loss.		Sharon	Kujawa	The dynamic electrophysiological phenotype of spiral ganglion neurons shaped by neurotrophins		Robin	Davis	PD - 028	Musician effect: does it matter for cochlear-implants?	Rolien	Free
	Adaptive manipulation of loudness by changes in low-level sound exposure: clinical relevance		Charles	Lieberman	Maintenance of trophic support to the deafferented auditory nerve: prospects for clinical therapy		Steven	O’Leary	PD - 029	Implications of Rate Pitch on Music Perception and Auditory Object Formation in Cochlear Implants	Christina	Fuller
	Cochlear hearing loss is a misnomer: Nothing happens at the auditory periphery without central consequences		Craig	Formby	Neurotrophin analogs can rescue neurons in the absence of hair cells or neurotrophins		Keqiang	Ye	PD - 030			
12:30 PM - 1:30 PM												
	Young Investigators Luncheon											
1:30 PM - 3:30 PM	Podium: Regeneration I				Podium: Inner Ear: Hair Cells Transduction I				Podium: Vestibular Basic Research			
	PD - 031	Signaling pathways that control zebrafish hair cell regeneration by balancing differentiation and amplifying proliferation	Tatjana	Piotrowski	PD - 039	The Role of Transmembrane Channel-like Proteins in Hair Cell Mechanotransduction	Robert	Fettiplace	PD - 047	A Spatial Analysis of Hair Cell Development in the Mouse Crista	Amber	Slowik
	PD - 032	In vitro hair cell regeneration induced by ectopic expression of Atoh1 in adult mouse cochlea	Wenyan	Li	PD - 040	Synchronization of spontaneously oscillating hair bundles	Tracy	Zhang	PD - 048	Immunocytochemical Localization of Nebulin in Rat Vestibulo-Cochlear Hair Cells	Robstein	Chidavaenzi
	PD - 033	In vivo synergistic effects of Wnt/beta–catenin and Atoh1 Ectopic Expression on Lgr5+ Supporting Cell Proliferation and Hair Cell Transdifferentiation in the Postnatal Mouse Cochlea	Bryan	Kuo	PD - 041	Spontaneous Bundle Oscillations from Various Sensory Maculae of the Frog Inner Ear	Patricia M.	Quiñones	PD - 049	Sodium Channel Distribution in Vestibular Afferents – An Update	Anna	Lysakowski
	PD - 034	High-Throughput Screening for Potent p27Kip1 Transcriptional Antagonists for Hair Cell Regeneration in Mammalian Cochleae	Jian	Zuo	PD - 042	Force Spectroscopy of Tip Link Proteins: A Study of Inner-Ear Biophysics	Mounir	Koussa	PD - 050	Do Regional Variations in Calyx K+ Conductances Contribute to Firing Properties in Crista Afferent Terminals?	Frances	Meredith
	PD - 035	siRNA Therapeutics for Restoration of Hearing and Balance	Swetlana	Adamsky	PD - 043	Effects of Cysteine Mutagenesis on Calcium Clearance Rates in PMCA2	Jennifer	Thornton	PD - 051	Non-quantal Synaptic Currents in the Vestibular Calyx Terminal	Stephen	Highstein
	PD - 036	Characterization of Hair Cell-Like Cells From Cochlear and Vestibular Stem Cells	Will	McLean	PD - 044	Additional Actin-binding Site in Large Espin Isoforms Affects Actin Bundle Size and Dynamics and Is Regulated by Autoinhibition and a Peptide in the Stereocilia Protein Myosin III	Lili	Zheng	PD - 052	Spontaneous and Evoked Quantal Synaptic Currents in the Vestibular Calyx Terminal	Mary	Mann
	PD - 037	Progenitor/stem cells from the human inner ear	Pascal	Senn	PD - 045	Deletion of PDZD7 Disrupts the USH2 Protein Complex in Cochlear Hair Cells and Causing Hearing Loss in Mice	Junhuang	Zou	PD - 053	Latent Herpes Simplex Type I Infection Reactivates due to Nutrient Withdrawal	Pamela	Roehm
PD - 038	The Ultra-structural Change of Epidermis Attached to the Bony Wall of Scala Tympani May be Helpful in the Migration of Mouse Embryonic Stem Cells Transplanted into the Cochlear of Rats with Aminoglycoside Induced Hearing Loss	Lidong	Zhao	PD - 046	Generation and Initial Characterization of TRIOBP-5 (T5) Knockout Mouse Generation and Initial Characterization of Its Phenotype	Tatsuya	Katsuno	PD - 054	Mechanisms underlying the effects of estrogen deficiency on otoconia	Yunxia	Lundberg	
3:30 PM - 3:45 PM												
	Podium: Regeneration II				Podium: Inner Ear: Hair Cells Transduction II				Podium: Otoacoustic Emissions			
3:45 PM - 5:45 PM	PD - 055	Functional Characterization of Stem Cell-Derived Hair Cells in the Inner Ear Organoid	Karl	Koehler	PD - 063	TMC Function in hair cell Mechanotransduction	Bifeng	Pan	PD - 071	How to Model OAEs ?	Hendrikus	Duifhuis
	PD - 056	Heterogeneity of the Pluripotent hESCs Compartment and its Impact on the Generation of Otic Progenitors	Marcelo	Rivolta	PD - 064	Positional Gradients and Voltage Dependence of Permeant Block of the Hair Cell's Mechano-Electrical Transducer Channel by the D-HIV-TAT and D-JNK1 peptides	Terri	Desmonds	PD - 072	Stimulus Ratio and Level Dependence of Low- and Mid-Frequency Distortion-Product Otoacoustic Emissions	Anders	Christensen
	PD - 057	Histone Deacetylase Inhibitor Induces the Expression of Epithelial Features in Mouse Utricle- Derived Prosensory-like Progenitors	Zhengqing	Hu	PD - 065	A novel mode of off-frequency hearing as a result of defective outer hair cells' hair bundles unveiled by Nherf1 -/- mice	Aziz	EL-AMRAOUI	PD - 073	Low-frequency otoacoustic emissions in children and adults	Wiktor	Jedrzejczak
	PD - 058	Applicability of Choroid Plexus Cells for the Repopulation of Hair Cell Depleted Cochlear Sensory Epithelium in the Primate Model	Dongguang	Wei	PD - 066	Reverse Transduction in Saccular Hair Cells	Benjamin	Perrin	PD - 074	Otoacoustic Emission and Behavioral Estimates of the Contribution of Inner and Outer Cell Dysfunction to Audiometric Loss	Peter	Johannesen
	PD - 059	Generation of hair cells in neonatal mice by b-catenin overexpression in Lgr5-positive cochlear progenitors	Fuxin	Shi	PD - 067	Xirp2 : A Stereociliary Actin-Binding Protein Involved In Hair Bundle Maintenance	Déborah	Scheffer	PD - 075	DPOAE Mapping for Detecting Noise-Induced Cochlear Damage	Jay	Buckey
	PD - 060	The role of FGF pathway in the planar cell polarity of the vestibular hair cell regeneration induced by gene Atoh1/Math1	Dong-Dong	Ren	PD - 068	Hair-cell-specific Translatome Profiling Reveals Dynamic Gene Regulation during Acquisition of Mechanoelectrical Transduction in Mice	Xudong	Wu	PD - 076	Evaluation of Techniques for Measuring Distortion Products of Bone Conduction Vibrators and Bone Conduction Stimulated Otoacoustic Emissions	Teru	Kamogashira
	PD - 061	Mechanisms for Hearing Recovery by Topical IGF-1 Treatment: Regeneration of Synapse between Inner hair cells and Auditory neurons	Takayuki	Nakagawa	PD - 069	CRISPR/Cas-mediated generation of transgenic mice with mutations in novel hair bundle proteins	Shimon	Francis	PD - 077	Interrelations between otoacoustic emission delays and neural tuning in the barn owl	Christine	Koppl
	PD - 062	Effects of BDNF and NT-3 on Promoting Spiral Ganglion Neuronal Survival and Peripheral Fiber Re-growth in the Deafened Adult Guinea Pig Cochlea	Cameron	Budenz								
6:00 PM - 7:00 PM												
	Sunday/Monday Poster Session (1:00pm Sunday to 12:00pm Monday) Auditory Cortex and Thalamus II											
	PS - 262	Comparison of Bilateral brain cortex signal from normal hearing and Single Side Deaf rat with Multi-channel neural recording system							Min Young	Lee		
	PS - 263	Cortical voice processing in cochlear-implanted children: an electrophysiological study							David	Bakhos		
	PS - 264	Modulation of the auditory-evoked potential by continuous laser irradiation: Effects of wavelength and induced temperature change							Shigeto	Furukawa		
	PS - 265	Responses of primary auditory neurons to vocoded vocalizations.							Jean-Marc	Edeline		
	PS - 266	Expression of c-Fos in the Rat Auditory and Limbic Systems Following 22-kHz Vocalization							Ladislav	Ouda		
	PS - 267	Stimulus Specific Adaptation and Sensory Memory							Leila	Khour		
	PS - 268	Timbre discrimination in ferrets: Exploring the neural basis of perceptual constancy							Stephen	Town		
	PS - 269	The Mushroom Spine Density of Auditory Cortical Pyramidal Neurons							Richard	Hallworth		
	PS - 270	Antioxidants Attenuate Axonal Injury and the Accumulation of Neurotoxic Tau Variants in a Rat Model of Blast-Induced Traumatic Brain Injury							Matthew	West		
	PS - 271	Laminar profile of spiking activity in auditory cortex in response to thalamic stimulation							Matthew	Banks		

PS - 272 Long-term Cortical Inhibitory Deficits result from Transient Hearing Loss prior to Critical Period Closure

PS - 273 Activity in Human Auditory Cortex is Contralateral to Monaural Sound but Bilateral for Slow Amplitude Modulation

PS - 274 Contextual effect of streaming on perception

PS - 275 Direct Human Recordings of Dynamic Tinnitus Correlates

PS - 276 Electrophysiological Recordings from the Parabelt Region in Behaving Macaque Monkeys

PS - 277 State-Dependent Behavioral Changes in Ferret Higher Order Auditory Cortex

PS - 278 Streaming of Repeated Embedded Noise in Ferret Primary Auditory Cortex

PS - 279 Nonlinear Spectro-temporal Integration of Natural Stimuli in Primary Auditory Cortex

PS - 280 Noise-induced Hearing Loss Alters Hypothalamic-Pituitary-Adrenal Axis Activity in Rats

Todd Mowery

Alexander Gutschalk

Sahar Akram

William Sedley

Yoshinao Kajikawa

Diego Elgueda

Daniela Thorson

Ivar Thorson

Sarah Hayes

Auditory Nerve

PS - 220 Spike time based intensity encoding during dynamic range adaptation in model auditory nerve fibers

PS - 221 Computational Model Predictions of Age and Hearing Loss Effects on Concurrent Vowel Identification

PS - 222 A Parsimonious Model of Phase Locking by Mammalian Auditory-Nerve Fibers

PS - 223 Pulse Infrared Laser Evoked Auditory Brainstem Responses Recorded in Normal Hearing Guinea Pigs

PS - 224 Simultaneous Recordings of Pairs of Auditory Nerve Fibers Contacting the Same Inner Hair Cell

PS - 225 Preservation of Auditory Nerve Synapses in Ventral Cochlear Nucleus of Mice with Early-Onset Progressive Hearing Loss

PS - 226 Modulation of BDNF mediated Outgrowth in a Mouse Spiral Ganglion Cell Model

PS - 227 CGRP potentiates kainate-induced Ca2+ entry into spiral ganglion neurons via a cAMP-dependent-protein kinase (PKA)-dependent mechanism

PS - 228 Functional Effects of Semaphorin3A on Membrane Excitability in Spiral Ganglion Neurons

PS - 229 Auditory Nerve Coding of Concurrent Fundamental Frequencies Following Noise Exposure

PS - 230 Temporal Resolution in the Periphery Fails to Explain Species Differences in Dip Listening

PS - 231 Infrared- and Nanoparticle-Enhanced Stimulation of Auditory Neurons In Vitro

PS - 232 Lack of immune system genes causes loss in high frequency hearing but does not disrupt cochlear synapse maturation in mice

PS - 233 Voltage-Gated Sodium Currents in Pre- and Post-Hearing Spiral Ganglion Neurons

PS - 234 Time Course of Degeneration of Peripheral and Central Processes of Spiral Ganglion Cells in Deafened Guinea Pigs

PS - 235 Level Dependence of Neural Phase-Locking Assessed with Mass Potentials Recorded at the Round Window

PS - 236 Specifying the Integrity of Neurons in the Auditory Periphery: Influence of Acoustic Overexposure

PS - 237 Effects of furosemide-induced metabolic hearing loss on temporal coding of fine structure and envelope in auditory-nerve fibers

PS - 238 Post-natal Development of Type I Spiral Ganglion Neurons in Rats

PS - 239 Properties of Auditory Nerve Driven Feed-forward Inhibitory Synaptic Circuit Associated with Fusiform Cells in the Mouse Dorsal Cochlear Nucleus

PS - 240 Spectral-temporal heat maps of auditory nerve fiber activation by speech in background noise

PS - 241 Loss of spiral ganglion neuron synaptic contact is associated with hearing loss after acute high intensity intracochlear electrical stimulation in hearing mice

PS - 242 Adeno-associated virus vector delivery of channelrhodopsin-2 into spiral ganglion neurons.

PS - 243 A multiscale computational model of guinea pig cochlea to probe neuropathy mechanisms

PS - 244 Probing auditory nerve fiber loss using round-window neural noise

PS - 245 Long-Term Protective Effects of Neurotrophic Treatment of the Auditory Nerve in Deafened Guinea Pigs

Kamini Sehwat

Ananthakrishna Chintanpalli

Adam Peterson

Bingbin Xie

Jingjing Wu

Amanda Lauer

Marcus Müller

Ning Hu

Victor Wong

Ann Hickox

Katrina Schrode

Karina Needham

Dasom Lee

Marc Meadows

Huib Versnel

Eric Verschooten

Brian Earl

Kenneth Henry

Radha Kalluri

Miloslav Sedlacek

Christopher Boven

Lichun Zhang

Xiankai Meng

Jérôme Bourien

Charlène Batrel

Dyan Ramekers

Auditory Prostheses I

PS - 246 Chronic microelectrode system for penetrating auditory implants

PS - 247 Cochlear Responses to Amplitude Modulation in Normal Hearing Gerbils

PS - 248 A Polymer Based Multi-channel Cochlear Electrode Array

PS - 249 Influence of Surface Nanopatterns on the Impedance Development after Cochlear Implantation

PS - 250 Electrical Stimulation of the Cochlear Nucleus with a Thin Flexible Polymer Microelectrode Array: Designing the Next Generation Auditory Brainstem Implant

PS - 251 Comparison of Electrical Parameters between Perimodiolar and Lateral Type Electrode Arrays in the Same Individuals

PS - 252 First steps towards a gapless interface between auditory neurons and multi-electrode arrays

PS - 253 Neurotrophin Gene Therapy in Deafened Ears with Cochlear Implants: Long-Term Effects on Nerve Survival and Functional Measures

PS - 254 Cochlear Implantation for Chronic Electrical Stimulation in the Mouse

PS - 255 Improving Surgical Implantation Techniques To Access The Superior Temporal Gyrus In Macaca Mulatta.

PS - 256 Progress report on developing intra-cochlear pressure sensor for implantable microphone and a novel fluid-assisted electrode insertion method

PS - 257 Hearing the Light: a Behavioral and Neurophysiological Comparison of Two Optogenetic Strategies for Direct Excitation of Central Auditory Pathways

PS - 258 Modeling Auditory Nerve Fiber Responses Using a Hidden Markov Model

PS - 259 Quantification of Infrared Stimulation-evoked Damage in Organ of Corti Explants

PS - 260 Vestibular Function - a Parameter for Structural Preservation in Cochlear Implantation?

PS - 261 Safe Direct Current Stimulator Microfluidic Design for Vestibular Prosthesis

Vanessa Tolosa

William Merwin III

Kyou Sik Min

Ines Linke

Amelie Guex

Junhui Jeong

Stefan Hahnwald

Bryan Pfingst

Sam Irving

Deborah Ross

Andy Zhang

Jenny Chen

Petrina LaFaire

Ravin Sajnani

Anvarbek Ishchanov

Gene Fridman

Development II

PS - 304 Microglial Activation in Auditory Nerve of the Postnatal Mouse Ear

PS - 305 Selective Deletion of Cochlear Hair Cells Causes Age-Dependent Neuronal and Glial Changes in the Mammalian Cochlear Nucleus

PS - 306 Stepwise Mechanisms for Hearing Loss in NOD/LtJ Mice

PS - 307 Re-distribution of Inhibitory Synapses onto Proximal Sites of LSO Principal Cells Occurs Before Hearing Onset

PS - 308 Characterization of Novel Glycinergic Innervation of the Superior Olivary Complex

PS - 309 Timelapse imaging of live intact cochlea reveal SGNs undergo region-specific growth patterns and dynamic branching near synaptic targets during development.

PS - 310 Bone Morphogenic Protein (BMP4) Signaling in the Development of the Medial Nucleus of the Trapezoid Body.

PS - 311 Mapping Subplate Microcircuits in Developing Prefrontal Cortex with Relevance to Auditory Dysfunction in Autism

PS - 312 Inhibiting Sonic Hedgehog-dependent Medulloblastoma by Modulating Expression Levels of Atoh1 and Neurod1

PS - 313 Elucidating Pathological Mechanisms of Hearing Loss Induced by Hypothyroidism using Duox2 Mutant Mice

PS - 314 Does Spectral Ripple Resolution Mature During Infancy?

PS - 315 Evaluating Speech in Noise Perception in Preschoolers: Effects of Age and At-Risk Development

PS - 316 Assessment of Task Learning and Performance following Developmental Hearing Loss

LaShardai Conaway

Melissa Strong

Jeong Han Lee

Alan Cooper

Stefanie Altieri

Noah Druckenbrod

Zafar Sayed

Daniel Nagode

Ning Pan

Sera Park

David Horn

Elaine Thompson

Ishita Aloni

Genetics

PS - 281 Genes Associated with Hereditary Hearing Loss May be Also Affect Susceptibility of Noise Induced Hearing Loss

PS - 282 Genetic Variants of CDH23 Associated with Noise-Induced Hearing Loss

PS - 283 Sequencing-association study on calcium signaling genes contributing to age-related hearing loss

PS - 284 Genome-wide association study, Whole genome sequencing and Animal Models to study Normal Hearing Function and Age-Related Hearing Loss

PS - 285 Screening of 250.000 DNA Functional Variants in Large Cohorts of Age-Related Hearing Loss Patients and Normal Hearing Subjects

PS - 286 Diagnostic Massively Parallel Sequencing using OtoSCOPE® for Hereditary Hearing Loss in Japan

PS - 287 Mutation of Foxo3 Causes Adult Onset Auditory Neuropathy and Alters Cochlear Synapse Architecture in Mice

PS - 288 A new mutation of the Atoh1 gene in mice with normal life span allows analysis of inner ear and cerebellar phenotype in aging

PS - 289 Deafness Models with Amino Acid Substitution in Plasma Membrane Calcium Pump Suggest Pathways that Differentiate the Phenotype

PS - 290 Transcriptional Regulation of PMCA2 in Inbred Mouse Strains

PS - 291 Inhibiting histone modifications in the adult organ of Corti

PS - 292 Auditory discrimination learning - a tool for phenotyping mice

PS - 293 Functional Analysis of the DIAPH1 Formin Protein Associated with DFNA1 Hearing Loss

PS - 294 Identification of Novel Functional Null Allele of SLC26A4 Associated With Enlarged Vestibular Aqueduct

PS - 295 Identification of Recessive Hearing Impairment-Causing Genes in Consanguineous Tunisian Families

PS - 296 A Novel Missense Variant in WFS1 Segregates with Autosomal Dominant Low Frequency Hearing Loss in a Multigenerational Indian Family

PS - 297 Genetic and phenotypic heterogeneity in Chinese patients with Waardenburg Syndrome type II

PS - 298 Wbp2-Deficient Mice Show Progressive High-Frequency Hearing Loss and Abnormal Cochlear Innervation

PS - 299 The Ildr1 knockout mouse: A model of Autosomal-Recessive Hearing Impairment DFNB42

PS - 300 Contributions of Somatic Mutations to Schwannoma Tumorigenesis

PS - 301 Defective light-dependent translocation of phototransduction proteins in Usher mouse models renders photoreceptors susceptible to light-induced degeneration

PS - 302 Hearing Impairment and Human Inner Ear Degeneration caused by Missense Mutation in WFS1 Gene

PS - 303 Taperin is also in the nucleus and interacts with chromodomain-containing proteins

Xukun Yan

Mariola Sliwinska-Kowalska

Ruqiang Liang

Giorgia Girotto

Dragana Vuckovic

Hideaki Moteki

Felicia Gilels

Qing Zheng

Osamu Minowa

Rebecca Minich

Wanda Layman

Simone Kurt

David Kohrman

Jeong Hun Jang

Saber Masmoudi

Jun Shen

Shuzhi Yang

Annalisa Buniello

Neil Ingham

Nathan Schularick

Dominic Cosgrove

Rudolf Glueckert

Spencer Goodman

Inner Ear: Anatomy and Physiology

PS - 317	Sustained Firing of the Auditory Nerve Contributes to the Envelope of the Response to Tones Recorded at the Round Window	Joseph	McClellan
PS - 318	Predicting Outer Hair Cell Loss: Influence of a Neural Contribution to the Cochlear Microphonic	Aryn	Kamerer
PS - 319	Mechanical Contributions of Cochlear infrared neural stimulation (INS)	Hunter	Young
PS - 320	Inhibitory Responses to Infrared Neural Stimulation (INS) in the Deaf White Cat	Claus-Peter	Richter
PS - 321	Temporal Properties of Inferior Colliculus Neurons to Cochlear Infrared Neural Stimulation	Xiaodong	Tan
PS - 322	Spatially Differentiated Infrared Neural Stimulation of the Guinea Pig Cochlea	Daniel	O'Brien
PS - 323	Increased Uptake of Fluorescently-tagged Gentamicin in the Stria Vascularis after Diphtheria Toxin Ablation of Macrophages	Jianping	Liu
PS - 324	Bioenergetics of Cochlear Oxidative Stress in Basement Membrane Pathology	Collin	Chen
PS - 325	Aquaporin 4 Expression in Perivascular Resident Macrophages is Essential for Sustaining the Endocochelar Potential	Lingling	Neng
PS - 326	Isolation and Culture of Endothelial Cells, Pericytes, and Perivascular Resident Macrophage-like Melanocytes from the Young Mouse Vestibular System	Jinhui	Zhang
PS - 327	Ceacam16 is Required for the Formation of Striated-Sheet Matrix in the Mammalian Tectorial Membrane	Richard	Goodyear
PS - 328	Young Ceacam16 Knockout Mice Display Enhanced SOAEs, SFOAEs and TEOAEs, as well as Reduced Tectorial Membrane Stiffness	Mary Ann	Cheatham
PS - 329	Characterization of the primary auditory synapse in the turtle using paired recordings and real time cell capacitance measurements.	michael	Schnee
PS - 330	Short Pulse-Induced Synaptic Vesicle Releases Display Cooperativity at a Hair Cell Ribbon Synapse	Geng-Lin	Li
PS - 331	Probing Frequency Tuning of Bullfrog Hair Cells with a ZAP Current Protocol	Daniil	Frolov
PS - 332	Clearing of the Mouse Temporal Bone using a Modified CLARITY Protocol	Rebecca	Cook
PS - 333	Imaging Cochlear Synaptic Connectomes	Dan	Liu
PS - 334	Swept source optical coherence tomography for imaging and vibrometry inside the mouse cochlea in vivo	Hee Yoon	Lee Mousavi
PS - 335	Cellular mechanisms of genetic mutations in Kv7.1 gene	Atefeh	Nik
PS - 336	Functional Contributions of Calcium-activated Chloride Channels to the Excitability of Primary Auditory Neurons	Xiao-Dong	Zhang
PS - 337	Acid sensing ionic channels mediate an excitatory synaptic input to the cochlear and vestibular afferent neurons.	Enrique	Soto
PS - 338	Phosphoinositide Signaling Provides a Brake on Spiral Ganglion Neuron Excitability	Lorcan	Browne
PS - 339	Kv1.2 is a Key Regulator of Intrinsic Excitability in Post-hearing Spiral Ganglion Neurons	Katie	Smith
PS - 340	Structural (Corrosion Cast) Analysis of Cochlear Blood Vessels in a Mouse Model of Age Related Hearing Loss.	Mattia	Carraro
PS - 341	Progressive Hearing Loss, Supernumerary Outer Hair Cells and Degeneration of Multiple Cochlear Cells in NOD/SCID-Il2Rgnull Mice	Yazhi	Xing
PS - 342	High dose, local application of gentamicin induces a total hair cell loss in cochlear and vestibular system	Jintao	Yu
PS - 343	Metabolome Analysis of Inner Ear Fluid in Guinea Pigs Cochlea After Intense Noise	Daisuke	Yamashita
PS - 344	Human Spiral Ganglion Neuron Survival is Independent of Supporting Cells in the Organ of Corti	Joni	Doherty
PS - 345	Immunocytochemical localization of cubilin and megalin in the human inner ear	Seiji	Hosokawa
PS - 346	Immunocytochemical expression of nuclear factor erythroid 2-related factor 2 (Nrf2) in the human inner ear and the changes with aging	Kumiko	Hosokawa
PS - 347	The Expression of Glutamate Aspartate Transporter (GLAST) within the Human Cochlea and its Distribution in Various Patient Populations	Sameer	Ahmed
PS - 348	Localization of fatty acid-binding protein 7 (Fabp7) in the vestibular organ in mice.	Hiromitsu	Miyazaki
PS - 349	Molecular and Developmental Analysis of a Cochlear HPA-equivalent Signaling System	Douglas	Vetter
PS - 350	Low-periodicity, low-amplitude micropatterns exert greater influence on spiral ganglion and trigeminal ganglion neurite guidance than a repulsive biochemical interface	Daniel	Lee
PS - 351	Using Cre-loxP Mouse Genetics to Target Specific Cochlear Supporting Cell Subtypes	Joseph	Branchcheck

Inner Ear: Damage and Protection (II and III)

PS - 358	Cessation of Neurotrophin Gene Therapy Does Not Accelerate Auditory Nerve Degeneration	Benjamin	Case
PS - 359	Interaction of Caspases and RIP kinases Modulates Noise-induced Apoptotic and Necrotic Outer Hair Cell Death Pathways	Hong-Wei	Zheng
PS - 360	Interplay between Oxidative Stress and Autophagy in Noise-induced Hearing Loss	Hu	Yuan
PS - 361	Paraquat induces a novel, apex-to-base hair cell lesion in neonatal mouse cochlear cultures	Haiyan Vijaya Prakash	Jiang Krishnan Muthaiah
PS - 362	Acute ototoxic effects of trimethyltin in chinchilla	Lu	Wang
PS - 363	Nicotinamide adenine dinucleotide prevents neuroaxonal degeneration induced by manganese in cochlear organotypic cultures	Joachim	Schmutzhard
PS - 364	In vitro evaluation of the Effects of Clinical Sepsis Parameters on the murine Cochlea.	Yoshinobu	Hirose
PS - 365	Screening for Protective Effect in Herbal Medicine Using the Zebrafish Lateral Line	Kazuaki	Homma
PS - 366	Effect of Redox-Sensitive GFP Expression in the Murine Inner Ear	Puspanjali	Bhatta
PS - 367	Capsaicin Protects Against Cisplatin Ototoxicity by Activating Cannabinoid Receptors Puspanjali Bhatta, Debashree Mukherjea, Kelly Sheehan, Leonard P Rybak and Vickram Ramkumar. Southern Illinois University School of Medicine, Springfield, Illinois 62702	Takeshi	Hori
PS - 368	The Efficiency of Bofutsushosan and Daisaikoto, an Oriental Herbal Medicine to prevent the presbycusis of TSOD mouse	Erin	Bailey
PS - 369	Increased Presence of Cells of the Immune System in the Spiral Ganglion During Spiral Ganglion Neuron (SGN) Death Post-Deafening	Dae Bo	Shim
PS - 370	Effects of vitamin A deficiency on age-related and noise-induced hearing loss in mice	Guiliang	Zheng
PS - 371	Suppression of the expression of pro-inflammatory cytokines by esculentoside A attenuates noise-induced cochlear damage	Yeon Ju	Kim
PS - 372	Autophagy may play a critical role in the process of aminoglycoside-induced delayed ototoxicity	Atsushi	Tamura
PS - 373	Low-level Laser Therapy for Prevention of Noise-induced Hearing Loss	Jochen	Schacht
PS - 374	Designer Aminoglycosides that Selectively Inhibit Cytoplasmic rather than Mitochondrial Ribosomes Show Decreased Ototoxicity	Yu	Han
PS - 375	ROCK-dependent Ezrin-Radixin-Moesin Phosphorylation Modulates the Actin Cytoskeleton in Noise-induced Hair Cell Death	Naoki	Oishi
PS - 376	XBP1 Mitigates Mistranslation-Induced ER Stress and Protects Against Spiral Ganglion Cell Death	Bethany	Coffey
PS - 377	Melanin as a Possible Oto-protective Pigment in the Ears of Poecilia latipinna and Cyprinus carpio	Tal	Teitz
PS - 378	High-Throughput Drug Screen for Protection against Cisplatin Ototoxicity Using the HEI-OC1 Immortomouse Inner Ear Cell Line	Adrian	Au
PS - 379	Ups and Downs of Viagra: Revisiting Ototoxicity in the Mouse Model	David	Furness
PS - 380	Temporary Threshold Shift Breaks Tip Links in Hair Cells and Enhances Uptake of Gentamicin	Allison	Coffin
PS - 381	Bisphenol-A Kills Hair Cells in the Zebrafish Lateral Line	Anna	Fetoni
PS - 382	Noise induced oxidation impairs membrane fluidity.	Phillip	Uribe
PS - 383	Hepatocyte Growth Factor Mimetic Protects Lateral Line Hair Cells From Aminoglycoside Exposure	Qi	Li
PS - 384	Virally-mediated overexpression of neurotrophin protected spiral ganglion neurons from degeneration in the cochlea of conditional connexin26 knock out mice	Daniel	Cartwright
PS - 385	In situ observation and image analysis of the cochlear sensory epithelium in mouse cochleae	Chhavi	Gupta
PS - 386	In vitro model of inner ear trauma and otoprotection using a combination of JNK inhibitor, steroid and antioxidant	Angie	Garinis
PS - 387	Audiometric Analysis of Cystic Fibrosis Patients Receiving Obligate Aminoglycoside Treatment	Adrien	Eshraghi
PS - 388	Early Molecular Mechanisms Involved in Electrode Insertion Trauma and oto-protection provided by a JNK inhibitor or dexamethasone	Albert	Park
PS - 389	Susceptibility to Cytomegalovirus Induced Hearing Loss Is Mediated by Ly-49H Natural Killer Cell Activation in a Murine Model	Lindsey	May
PS - 390	Release of secretory exosomes as a mechanism of protection against hair cell death	Christopher	Neal
PS - 391	Distinct Patterns of Cochlear Hair Cell Loss Following Exposure to Different Intensity and Duration of Acoustic Trauma	Jae Yun	Jung
PS - 392	Low Level Laser Irradiation Affects Adenosine Triphosphate and Reactive Oxygen Species Productions in Auditory Cell Line.	Lauren	Luk
PS - 393	Acetylcholine enhances aminoglycoside uptake in neonatal hair cells, via putative activation of nicotinic acetylcholine receptors.	Tomoki	Fujita
PS - 394	The morphological change of Reticular Lamina by three myosin II inhibitors.	Patricia	Leake
PS - 395	Feasibility of AAV-Mediated Neurotrophin Expression in the Deafened Cochlea		

Inner Ear: Hair Cells Physiology and Anatomy

PS - 352	KCNE4 auxiliary beta subunit modulates Kv7.4 channel to generate IK,n in cochlear outer hair cells	Choong-Ryoul	Sihn
PS - 353	Biochemical, biophysical and cellular characterization of P2X2 function in vitro and in zebrafish model.	Rahul	Mittal
PS - 354	Spatio-temporal pattern of action potential firing in developing inner hair cells of the mouse cochlea	Régis	Nouvian
PS - 355	Maturation of inner hair cell calcium signaling	Kuni	Iwasa
PS - 356	Intrinsic Disorder in the BK Channel and Its Protein Partners	Zhenling	Peng
PS - 357	Maintenance of stereocilia and apical junctional complex by Rho GTPase	Hirofumi	Sakaguchi

Psychoacoustics and Sound Localization: Binaural

PS - 396	Predicting Perceived Lateral Position for Large Interaural Time Delays and Straightness Sensitivity: A Comparison of Three Models	Clayton	Rothwell
PS - 397	Binaural Speech Perception in Noise for Users of Bilateral and Bimodal Hearing Devices	Kostas	Kokkinakis
PS - 398	Sound Localization Model for Reverberant and Noisy Environments	Tom	Goeckel
PS - 399	Effect of Stimulus Duration on Transient and Ongoing Contributions to the Precedence Effect	Richard	Freyman
PS - 400	Sensitivity to envelope ITDs at high modulation rates	David	McAlpine
PS - 401	Nonuniform temporal weighting of interaural time differences in low frequency tones presented at low signal-to-noise ratio	Anna	Diedesch
PS - 402	Self-motion facilitates human echo-acoustic orientation	Ludwig	Wallmeier
PS - 403	Spatial Stream Segregation in Cat Psychophysics	Lauren	Javier
PS - 404	Azimuthal Distance Judgements Produce a “Dipper” Sensitivity Function.	Simon	Carlile

		PS - 405 Auditory Motion Perception and Tracking in Schizophrenia					Martin Burgess	
		PS - 406 Sound-localization in noise performance is determined by sensitivity to spectral shape					Guillaume Andeol	
		PS - 407 Perception of Spatial Sound Statistics by Gerbils					Andrea Lingner	
		PS - 408 Comparison of Intensity Difference Limen Thresholds Obtained by Operant Conditioning and Pre-pulse Inhibition in the Mouse.					Georg Klump	
		PS - 409 Perception of the Instantaneous Changes in Velocity of a Moving Auditory Target					Johahn Leung	
		PS - 410 Infants' Sound Localization Accuracy Measured by Corneal Reflection Eye-Tracking: A Pilot Study					Filip Asp	
		PS - 411 Detection of Modulated Tones in Modulated Noise by Nonhuman Primates					Courtney Timms	
		PS - 412 Auditory Motion Elicits Ocular Smooth Pursuit to Real (Free-Field) but not Simulated (Dichotic) Auditory Targets					Christina Cloninger	
		PS - 413 The Role of External Ear Acoustics of the Adult Guinea Pig in a Spatial Hearing Behavioral Task					Kelsey Anbuhl	
		PS - 414 Behavioral Assessment of Binaural Spatial Hearing Ability in a Population of Adult Guinea Pigs (Cavia porcellus)					Alexander Ferber	
		PS - 415 Echolocating Bats Adapt their Sonar Calls to Separate Echoes from Obstacles and Prey					Beatrice Mao	
		Vestibular: Clinical and Basic Science						
		PS - 416 Assistive and Rehabilitative Effects of a Head-mounted Vibrotactile Prosthesis (BALCAP) for Chronic Postural Instability					Joel Goebel	
		PS - 417 Vestibular Physical Therapy of Persons with Traumatic Brain Injury Using a Computer Assisted Rehabilitation Enviornment(CAREN) in the Department of Defense					Kim Gottshall	
		PS - 418 Involvement of vestibular organs in idiopathic sudden hearing loss with vertigo: an analysis using oVEMP and cVEMP testing.					Chisato Fujimoto	
		PS - 419 Reducing Between Subject Variability of Cervical Vestibular Evoked Myogenic Potentials (cVEMPs) using Normalization					Mark van Tilburg	
		PS - 420 Problems in epidemiologic screening of the vestibular system					Helen Cohen	
		PS - 421 Epidemiology of Dizziness and Balance Problems in U.S. Children: Results from the 2012 National Health Interview Survey (NHIS)					Chuan-Ming Li	
		PS - 422 Evaluation of a Direct Posturographic Method in Daily-Life Tasks					Dietmar Basta	
		PS - 423 Quantiative analysis of smooth pursuit eye movement by Video-oculography					Hironori Fujii	
		PS - 424 Canal Conversion between Anterior and Posterior Semicircular Canals in Benign Paroxysmal Positional Vertigo					Minbum Kim	
		PS - 425 Impact of Near-Spectacle Correction on Angular Vestibulo-ocular Reflex Gain in Older Individuals					Carol Li	
		Vestibular: Clinical						
		PS - 426 Measurement of oVEMP in the inverted position					Toru Seo	
		PS - 427 Three-Dimensional Head Movement Video Image Analysis Technique Using Personal Computer and Public Domain Software.					Makoto Hashimoto	
		PS - 428 Abnormalities in vestibulo-spinal pathways are indicators of poor prognosis for migrainous vertigo					Jong Woo Chung	
		PS - 429 Clinical and Physiologic Predictors of Near Dehiscence Syndrome					Michael Baxter	
		PS - 430 Relationship between Posttraumatic Stress Disorder and Vestibular Function					Yaa Haber	
Monday, February 24, 2014								
8:00 AM - 10:00 AM	Symposium: Vestibular Related Traumatic Brain Injury (TBI)			Symposium: Macro to Micro: The Role of Spike Timing Dependent Plasticity and Neural Hypersynchrony in Disease			Podium: Cochlear Implant II	
	Effect of blast exposure on peripheral vestibular function in humans	Faith	Akin				Neurites from Spiral Ganglion Neurons Align More Closely to Unidirectional Micropatterned Topographical Surfaces Compared to Surfaces with Multidirectional Patterns.	Alison Seline
	The role of vascular damage in blast induced TBI	E. Mark	Haacke					
	Window's to the Brain: the neuropsychiatry of TBI for Otolaryngology	Robin	Hurley	Stimulus timing dependent plasticity in the auditory cortex	Johannes Dahmen	PD - 078		
	Visualizing vestibular injury in the invisible wounds of war	Carey	Balaban	Modulation of STDP in auditory cortex and the relationship between STDP and neural synchrony	Paul Manis	PD - 079	Abnormal Binaural Spectral Integration in Hearing Aid and Cochlear Implant Users	Lina Reiss
	Expression profiling of auditory functional genes in the brain after repeated blast exposures			Bimodal STDP in DCN and Auditory Cortex in normal and noise-damaged tinnitus models	Susan Shore	PD - 080	The Role of Extended Preoperative Steroids in Hearing Preservation Cochlear Implantation	Jafri Kuthubutheen
		Manojkumar	Valiaveettil	Waves of synchrony: abnormally increased synchrony is potentially linked to reduced alpha oscillations	Thomas Hartmann	PD - 081	Dexamethasone modulates the inflammatory and fibrogenic responses in cochlear tissue explants initiated by electrode insertion trauma	Esperanza Bas Infante
				Directing Cortical Plasticity to Understand and Treat Tinnitus	Michael Kilgard	PD - 082	Acoustic Change Complex to Amplitude Modulation in Cochlear Implant Subjects	Yang-soo Yoon
				Unlearning pathological neuronal synchrony by coordinated reset neuromodulation	Peter Tass	PD - 083	Deficits in Pitch Sensitivity by Cochlear-Implanted Children speaking English or Mandarin	Mickael Deroche
						PD - 084	Stimulation and Excitation Patterns of Standard and Spanned Partial Tripolar Modes in Cochlear Implants Cochlear Implant on 1681 Patients in Chinese PLA General Hospital	Ching-Chih Wu
10:00 AM - 10:30 AM	Mid-morning Break							
10:30 AM - 12:30 PM	Symposium: Recent Developments in Cochlear Implant Research			Symposium: Cochlear Neurodegeneration in Noise and Aging – From Animal Models to Human Temporal Bones			Podium: Psychoacoustics	
	Listening effort in Cochlear Implant users	Carina	Pals				More Pain More Gain: Longer Training on Time-Compressed Speech Widens the Scope of Generalization to Untrained Tokens	Karen Banai
	Speech enhancement in bilateral CI users	Stefano	Cosentino	Primary vs secondary cochlear neurodegeneration: prevalence, mechanisms and functional consequences	M. Charles Liberman	PD - 086		
	Recent developments in the research on speech perception and production in children with CIs			Primary cochlear neurodegeneration in noise and aging	Sharon Kujawa	PD - 087	Auditory and Visual Short-Term Memories are Forgotten Differently	Samuel Mathias
	The perception of voice pitch and prosody by CI recipients	Daan	van de Velde	Glutamate excitotoxicity and neuroprotection in the cochlea	Jean-Luc Puel	PD - 088	Effects of Attention on Change Deafness Depend on the Task Relevance of the Attended Object	Vanessa Irsik
	Temporal Representation of Pitch	David	Morris	Glutamate excitotoxicity and neuroprotection in the CNS	Steven Finkbeiner	PD - 089	Attentive Tracking of Sound Sources Which Linguistic Skills And Components Of Intelligence Are Involved In The Top-down Restoration Of Interrupted Speech?	Kevin Woods
		Richard	Penninger	Cochlear nerve degeneration in humans: the temporal bone perspective	Joseph Nadol	PD - 090	The Influence of Nearby Maskers on Informational Masking in Complex Real-world Environments	Michel Benard
						PD - 091	Dynamic versus Static Spectral Cues to Identification of IRN-vocoded Concurrent Sentences	Adam Westermann
						PD - 092	A modeling study of dynamic response patterns of cortical neurons during fast head turns of marmoset monkeys	Marjorie Leek
						PD - 093		Yi Zhou
12:30 PM - 1:30 PM	Get your Research Funded							
1:30 PM - 3:30 PM	Podium: Inner Ear: Genetics and Clinical Path			Podium: Inner Ear: Synapses			Podium: Drug Delivery	
	PD - 094 Intravascular and trans-round window membrane approach for recombinant AAV mediated cochlear gene transfer in neonatal mouse	Seiji	Shibata	PD - 102 Sustained vesicle release at the IHC ribbon synapse depends on the intravesicular domain of otoferlin	Jacques Boutet de Monvel	PD - 109	Intravital confocal microscopy assay for the evaluation of antioxidant capacity	Yu Matsumoto
	PD - 095 Correction of hearing in the mouse model of hereditary deafness by Gjb2 gene transfer using adeno-associated viral vectors	Takashi	Iizuka	Robust Ribbon Synaptic Transmission Is Limited by Peripheral Membrane Insertion of Synaptic Tail-anchored (TA) Proteins		PD - 110	Discovery of a biological mechanisms of active transport through the tympanic membrane	Allen Ryan
	PD - 096 CONNEXIN DELETION ASSOCIATED HEARING LOSS IS TREATABLE	Ryosei	Minoda	The Ca2+ Channel Subunit α2δ2 Regulates Ca2+ Channel Abundance and Function in Mouse Inner Hair Cells and is Required for Normal Hearing	Shuh-Yow Lin	PD - 111	Targeting Specific Cell Types in the Cochlea by Modified Adeno-Associated Virus	Hui Li
	PD - 097 Dominant deafness mutations of P2X2 ATP receptors have no dominant negative effect on wildtype isoform function	Yan	Zhu	In Vivo Tagging of Cav1.3 Calcium Channels Reveals C-terminal Modulation of Gating Properties and Expression of the Full-length Channel at all Ribbon Synapses in Inner Hair Cells		PD - 112	Sustained Release of Triamcinolone-Acetonide from an Intratympanically Applied Hydrogel Designed for the Delivery of High Glucocorticoid Doses	Clemens Honeder
	PD - 098 MicroRNA-Target Regulation in Inner Ear Inflammation	Karen	Avraham	Optical Stimuli Reveal Competing Mechanisms of Synaptic Vesicle Release	Barbara Fell	PD - 113	Magnetic Injection of Steroids Into the Inner Ear Mitigates Acute Hearing Loss in Rats	Didier Depireux
	PD - 099 Alterations of Sensory Hair Cells following AAV-miR96 Application to Postnatal Mouse Cochleae	Yazhi	Xing	Dopaminergic Modulation of Hair Cell Synaptic Complex Protein Pathways	Stephanie Eckrich	PD - 114	Diverse Pattern of Perilymphatic Space Enhancement after Intratympanic Injection of Two Different Types of Gadolinium: a 9.4 Tesla MR Study	Myung-Whan Suh
	PD - 100 Interferon-Gamma Signaling May Play a Protective Role in Autoimmune Induced Hearing Loss and Balance Disorder	Brent	Wilkerson	Postsynaptic Calcium Regulation in Hair Cells	Richard Rabbitt	PD - 115	Direct Visualization of Cochlear Drug Delivery Using a Novel Fluorescent Bisphosphonate Compound	Woo Seok Kang
	PD - 101 SMAD4 Defect Causes Auditory Neuropathy Via Dysfunctional of Cochlear Ribbon Synapse	Ke	Liu		Dakshnamurthy Selvakumar	PD - 116	N-Actylcysteine Lacks Protective Effect on the Human Inner Ear	Anders Fridberger
					Howard Moskowitz			
3:30 PM - 3:45 PM	Mid-afternoon Break							
3:45 PM – 5:15PM				Podium: Inner Ear: Anatomy and Physiology I			Podium: Aging	
				PD - 117 Mouse Organ of Corti Cytoarchitecture from Base to Apex, Imaged In Situ with Two-Photon Microscopy	Joris Soons	PD - 125	The effects of aging on dynamic and static encoding of speech processing	Alessandro Presacco
				PD - 118 Quantitative Polarized Light Microscopy of Human Cochlear Sections	Jacob Low	PD - 126	Reduced Expression of Critical Inner Ear Genes with Aging	Dennis Trune
				PD - 119 Age Related Hearing Loss is Accompanied by Efferent Innervation of Inner Hair Cells	Stephen Zachary	PD - 127	Calcium-Related Neuronal Activity in Auditory Brain Structures after Age-Related or Noise-Induced Hearing Loss – a Manganese-Enhanced MRI Study.	Moritz Gröschel
				PD - 120 Pannex1 is required for endocochlear potential (EP) generation	Jin Chen			

			Mechanosensitivity Beyond Hair Cells and its Functional Roles in Precision and Acuity of Auditory Information Coding	Ebenezer	Yamoah	PD - 128	Relationship between frequency following responses and other measures of auditory function in an animal model of aging	Aravindakshan	Parthasarathy
			Cl-/HCO3- Anion Exchanger AE1 May Serve as a Catalyst for Prestin-mediated Electromotility	Wei Chun	Chen	PD - 129	Studies on Tinnitus and Hyperacusis after loss of Auditory Function in the Aging Rat	Lukas	Rüttiger
			Kv1.1 and Kv1.2 Channels Differentially Modulate Action Potential Firing in Spiral Ganglion Neurons Genetic, Cellular and Functional Evidence for Ca2+ Inflow through Cav1.2 and Cav1.3 Channels in Murine Spiral Ganglion Neurons	Wenyng	Wang	PD - 130	An Evaluation of the Effect of Cognitive Impairment on Auditory Cortical Brain Volumes	Richard	Gurgel
				Hyo Jeong	Kim	PD - 131	The Harwell Aging Mutant Screen Identifies Novel Models of Age-Related Hearing Loss	Michael	Bowl
5:30 PM - 7:00 PM	Presidential Lecture/Awards Ceremony								
7:00 PM - 8:00 PM	Reception								
	Monday/Tuesday Poster Sessions (1:00pm Monday to 12:00pm Tuesday)								
	Auditory Cortex and Thalamus III								
	PS - 431	Rapid Task-Dependent Plasticity in Local Field Potentials from Primary Auditory Cortex				Nikolas	Francis		
	PS - 432	Thalamocortical Organization in the Mustached Bat (Pteronotus parnellii): Distribution of Calcium-binding Proteins				Julia	Heyd		
	PS - 433	The effect of audiovisual synchrony on cortical responses and target-detection performance: A functional near-infrared spectroscopy (fNIRS) study				Ian	Wiggins		
	PS - 434	Discrimination of vocoded speech in the ascending auditory system				Mark	Steadman		
	PS - 435	Facilitated Inhibition Biases Tritone Comparison in a Network Model				Chengcheng	Huang		
	PS - 436	Cortical Representation of Spectrally Degraded Speech: An Intracranial Electrophysiology Study				Kirill	Nourski		
	PS - 437	Differential Attentional Modulation of Auditory Responses to Speech in Different Listening Conditions				Ying-Yee	Kong		
	PS - 438	A minimal neuromechanistic model for stimulus specific adaptation (SSA).				Li	Shen		
	PS - 439	Deviant Responses to Harmonic Complexes in Auditory Cortex				Simon	Jones		
	PS - 440	ASSRs to Varying Depths of Amplitude Modulation in Young and Elderly Subjects				Andrew	Dimitrijevic		
	PS - 441	Identification of Attended Speech Stream from Ongoing Cortical Response in Diotic Listening				Ala	Mullangi		
	PS - 442	Characterization of the Direct Amygdalo-Cortical Connection				Gregory	Mlynarczyk		
	PS - 443	Neural Representation of Concurrent Vowels in Monkey Primary Auditory Cortex: Implications for Models of Auditory Scene Analysis				Yonatan	Fishman		
	PS - 444	Cortical pitch response components indexes multiple attributes of pitch contours				Ananthanarayan	Krishnan		
	PS - 445	Predicting cortical response variability in awake-behaving mice: the role of arousal, behavioral performance, and auditory stimuli				Matthew	McGinley		
	PS - 446	Rapid Spectrotemporal Plasticity in Primary Auditory Cortex (A1) During Contour Direction Discrimination Task				Pingbo	Yin		
	PS - 447	Adaptation to ITDs in Auditory Cortex				Bjorn	Christianson		
	Auditory Pathways: Binaural Circuits								
	PS - 448	Excitation by GABA spillover in a sound localization circuit				Catherine	Weisz		
	PS - 449	Nitric Oxide Signaling Removes Inhibitory Constraint in Superior Paraolivary Nucleus Neurons				Lina	Yassin		
	PS - 450	Intermittent High Frequency Stimulation and the Role of Glycine Transporter 2 in MNTB-LSO Synapses				Martin	Fuhr		
	PS - 451	Role of Ih in the axon initial segment of MSO neurons revealed with light-dependent channel blockers				Kwang Woo	Ko		
	PS - 452	Effects of NBQX, Kainate, and Ibotenic Acid on the Neurophonic Potential in the Nucleus Laminaris of the Barn Owl				Paula	Kuokkanen		
	PS - 453	Simulating the Neurophonic Potential in the Barn Owl Nucleus Laminaris: Contribution of Nucleus Magnocellularis Axons				Thomas	McColgan		
	PS - 454	Ephaptic Effects in the Medial Superior Olive – A Simulation Study				Joshua	Goldwyn		
	PS - 455	Nonlinear Interplay between Monaural Inputs and Intrinsic Conductances Shapes ITD tuning in MSO Neurons				Tom	Franken		
	PS - 456	Number of Synaptic Inputs Affects Coincidence Detection in the Auditory Brainstem				Go	Ashida		
	PS - 457	Sensitivity of Inferior Colliculus Neurons to Interaural Timing Differences within the Envelopes of Acoustic Waveforms				David	Greenberg		
	PS - 458	Resonant and Integration Properties of Principal MSO and LSO Neurons.				Jimena	Ballesterero		
	PS - 459	Inhibitory Inputs to MNTB Principal Cells – an Anatomical and Electrophysiological Study in Rodents				Otto	Albrecht		
	PS - 460	Binaural Spectral Processing in Mouse Inferior Colliculus				Xi	Bie		
	PS - 461	Coding of Frequency Information in Neurons of the Inferior Colliculus of the Unanesthetized Rabbit that is Conveyed by Pathways that Carry Information About Interaural Temporal Disparities				Ranjan	Batra		
	PS - 462	Optogenetic and electrophysiological analyses of neurons in the low frequency region of the gerbil inferior colliculus in vitro.				Michael	Roberts		
	PS - 463	Spatial Separation between Standard and Deviant Sounds in an Oddball Paradigm Changes the Sensitivity of a Neuron to the Deviant Sound in the Rat's Inferior Colliculus				Chirag	Patel		
	PS - 464	Estimation of Characteristic Phase and Delay from Broadband Interaural Time Difference Tuning Curves				Jessica	Lehmann		
	PS - 465	Is the Neural Coding of Dynamic Interaural Time Differences Related to the Coding of Amplitude Modulation?				Nathaniel	Zuk		
	PS - 466	Visual and Auditory Responses in the Mongolian Gerbil Midbrain				Todd	Jennings		
	PS - 467	Disruption of Binaural Hearing in a Family Harboring a Mutation in the Kv3.3 Voltage-Gated Potassium Channel				John	Middlebrooks		
	Auditory Prostheses II								
	PS - 468	Pupil dilation and hearing level determination				Soo	Kim		
	PS - 469	Evaluation of Cochlear Implant Performance using a Biophysical Model				Sujin	Kang		
	PS - 470	The effect of front-end processing on comodulation masking release obtained in cochlear implant users				Stefan	Zirn		
	PS - 471	Functional Changes Over Time after Deafening, Post-Deafening Treatments, and Cochlear Implantation				Melissa	Watts		
	PS - 472	Temporally coordinated activity in the brain is promoted by long-term cochlear implant use in children				Salima	Jiwani		
	PS - 473	A Fast Method for Measuring Psychophysical Thresholds Across the Cochlear Implant Array				Julie	Bierer		
	PS - 474	Single- and Multi-channel Modulation Detection by Cochlear Implant Users				John	Galvin		
	PS - 475	The study of molecule pathogenesis in 1123 cochlear implantation recipients				Jun	Liu		
	PS - 476	Changes in Hearing Thresholds and Hair Cell Synapses after Chronic Electro-Acoustic Stimulation in Guinea Pigs with High-Frequency Hearing Loss				Gemaine	Stark		
	PS - 477	Electrophysiological Monitoring of Residual Hearing During and After Cochlear Implantation				Adrian	Dalbert		
	PS - 478	Cortical Surface Current Source Density Analysis of Acoustic and Electric Stimulation				James	Fallon		
	Ps - 479	Effects Of Therapeutic Hypothermia On Cochlear Implantation Trauma				Efrem	Roberson		
	Ps - 480	Auditory Evoked Responses To Pitch Matched Electroacoustic Stimuli In Unilateral Cochlear Implant Users With Residual Hearing In The Contralateral Ear				Chin-Tuan	Tan		
	Ps - 481	Use Of The Phantom Electrode Strategy To Improve Bass Frequency Perception For Music Listening In Cochlear Implant Users				Tina	Munjal		
	Ps - 482	Musical Sound Quality In Cochlear Implant (Ci) Users: A Comparison In Bass Frequency Perception Between Med-EI's Fine Structure Processing (Fsp) And Hdcis Strategy				Alexis	Roy		
	PS - 483	Perception of Musical Noise in Cochlear Implant and Normal Hearing Listeners				Stefano	Cosentino		
	PS - 484	A Psychophysical Measure of Neural Health Predicts Speech Recognition in Humans with Cochlear Implants				Ning	Zhou		
	PS - 485	Binaural Unmasking with Temporal Envelope and Fine Structure in Cochlear Implant Listeners				Ann	Todd		
	PS - 486	Influence of pulse shape and electrode position in cochlear implants: experimental and modeling studies				Marek	Rudnicki		
PS - 487	Efficient Environment Detection for Adaptive Speech Enhancement in Cochlear Implants				Oldooz	Hazrati			
PS - 488	Temporal Processing and Speech Perception in Cochlear Implant Users and Normal Hearing Controls				Chelsea	Blankenship			
PS - 489	Voice Emotion Recognition By Cochlear-Implanted and Normally-Hearing Children				Monita	Chatterjee			
PS - 490	Perception of Noise-vocoded Reflexives and Pronouns by Children				Deniz	Başkent			
PS - 491	Top-down Repair of Speech: Adding Pitch to Spectrally Degraded Speech				Jeanne	Clarke			
PS - 492	Interaural Place-Mismatch Estimation with Two-Formant Vowels in Unilateral Cochlear-Implant Users				François	Guérit			
PS - 493	The Effect of Spectral Resolution on Temporal Processing Abilities in Simulated Electric Hearing				Fawen	Zhang			
PS - 494	Factors Limiting Perception of Vocal Characteristics in Cochlear-Implants				Etienne	Gaudrain			
PS - 495	Investigating the effects of interaural place-of-stimulation mismatch and channel interaction in multi-electrode stimulation in bilateral cochlear implant users				Alan	Kan			
Clinical Audiology									
PS - 507	Improved eCAP detection algorithm based on latency constrained peak-picking.				Jonathan	Laudanski			
PS - 508	Pattern of concha recorded cochlear microphonics across acoustic frequencies				Ming	Zhang			
PS - 509	Comparison of peripheral compression estimates using auditory steady-state responses and distortion product otoacoustic emissions				Gerard	Encina			
PS - 510	Sinusoidal ASSR is better than tone-burst evoked ABR for estimating low-frequency hearing thresholds				Uzma	Llamas			
PS - 511	40-Hz multiple auditory steady-state responses to narrow-band chirps in sedated and anesthetized infants				Jesko L.	Wilson			
PS - 512	Results of a 6-year government-funded newborn hearing screening in Korea				Su-Kyoung	Verhey			
PS - 513	Crossed and Un-crossed acoustic reflex latencies in normal hearing adults, typically developing children and children with suspected Auditory Processing Disorders (APD)				Su-Kyoung	Park			
					UDIT	SAXENA			

PS - 514	Binaural signal processing. Effects of induced lateral asymmetry on speech recognition and sound localization accuracy — a pilot study	Anne-Marie	Jakobsson
PS - 515	Relationship Between Frequency Selectivity and Perceived Quality Of Nonlinearly Distorted Speech and Music by Hearing Impaired Patients	Stefania	Goncalves
PS - 516	Auditory Games as a Novel Tool for Aural Rehabilitation	Xinyu	Song
PS - 517	Evaluating functional hearing deficits in blast-exposed personnel with normal audiometric thresholds	Douglas	Brungart
PS - 518	Central Auditory Processing Following Blast Exposure	Frederick	Gallun
PS - 519	Untangling Tinnitus and Hyperacusis Through Models and Measurements	Fan-Gang	Zeng
PS - 520	Hearing Loss Patterns Associated with Independent Risk Factors: Results from the Nord-Trondelag Hearing Loss Study (NTHLS)	Howard	Hoffman Videhult
PS - 521	Pure Tone Audiometric and Subjective Hearing; a Cross-Sectional Register-Based Study on a Swedish Population Aged 18 through 50 Years	Pernilla	Pierre
PS - 522	Acceptable Noise Levels using Korean and Non-Sementic Speech Signals in Normal Hearing Subjects	Eun Jin	Son
PS - 523	How We Apply Individual Auditory Features to Mobile Phones: in Samsung Galaxy S3 and S4	Sung Hwa	Hong
PS - 524	A Brief Period of Developmental Hearing Loss Transiently Disrupts Amplitude Modulation Detection	Melissa	Caras
PS - 525	The Difference between Bone-conducted Ultrasound and Audible Sound in Japanese Monosyllable Recognition.	Akinori	Yamashita
PS - 526	Effect of cisplatin induced hearing loss on human ultrasonic perception.	Tadao	Okayasu Dos
PS - 527	Towards a Stem Cell-based “Otoxic Hearing loss-in-a-dish” Model – Enrichment of Otic differentiated Cells	Aur�lie	Santos Woodruff
PS - 528	Beat Synchronization and Speech Encoding in Preschoolers: A Neural Synchrony Framework for Language Development	Kali	Carr
Clinical Otolaryngology			
PS - 496	Ginsenoside (Rg1) Has Anti-inflammatory Properties in the Inflamed Murine Middle Ear	Carol	MacArthur
PS - 497	Analysis of publication concerning otitis media 1940 -2012	Robert	Ruben
PS - 498	Optically-evoked auditory brainstem responses (oABR) mediated by optogenetic manipulation of the cochlear nucleus	Ariel	Hight
PS - 499	Imaging mass spectrometry revealed the specific phosphatidylcholines in thyroid papillary cancer	Seiji	Ishikawa
PS - 500	Optimizing Structural Segmentation for Surgical Simulation Through Iterative (User-Mediated and Automatic) Image Processing	Gregory	Wiet
PS - 501	Increased expression of phosphatidylcholine with arachidonic acid in superficial-type pharyngeal cancer revealed by imaging mass spectrometry	Ichiro	Tateya
PS - 503	Dysplastic Vestibule and Semicircular Canal Predict Increased Sensorineural Hearing Loss in Children with Enlarged Vestibular Aqueducts.	Farhan	Huq
PS - 504	Hyposmia as an Early Effect Biomarker for the Occupational Exposure to Organic Solvents Mixtures	Giovanna	Tranfo
PS - 505	The Valule of Magnetic Resonance Imaging in Patients with Audiovestibular Disorders.	Hisaki	Fukushima
PS - 506	Metrics for Evaluating Surgical Microscope Usage during Tympanostomy Tube Placement	Brandon	Wickens
Inner Ear: Mechanics and Modeling			
PS - 539	From Optical Coherence Tomography (OCT) Data to Cochlear Mechanics	Egbert	de Boer
PS - 540	Simultaneous In Vivo Measurement of Mouse Organ of Corti Vibrations in Two Cochlear Turns Using Phase-sensitive Fourier Domain Optical Coherence Tomography	Sripriya	Ramamoorthy
PS - 541	Imaging micromechanical motion in the organ of Corti with direct stimulation of the basilar membrane	Aleks	Zosuls
PS - 542	Volume compliance measurement of the cochlear partition excised from the gerbil cochlea	Talat	Jabeen
PS - 543	Electrically Evoked Organ of Corti Vibration in Mice with Alpha Tectorin C1509G Mutation	Wenxuan	He
PS - 544	Elastic propagating waves in the cochlear partition modulated by the outer hair cells	Jong-Hoon	Nam
PS - 545	Spontaneous otoacoustic emissions are generated by active oscillators clustered in frequency plateaus	Bastian	Epp
PS - 546	Active contribution to ear-canal reflectance in a model of cochlear mechanics	Daniel	Rasetshwane
Inner Ear: Damage and Protection (IV and V)			
PS - 552	Acute Ischemia Activates Chloride Channels in Capillary Cells of Guinea Pig Cochlear Lateral Wall	Yu-Qin	Yang
PS - 553	DNA Damage Repair in the Mammalian Organ of Corti	Sum-yan	Ng
PS - 554	Vulnerability of Hearing Loss over Age Subsequent to the Deletion of BDNF or CaV1.2 in the Cochlea	Sze Chim	Lee
PS - 555	Protective effect of metformin on gentamicin-induced vestibulotoxicity in rat primary cell culture	Ji Young	Lee
PS - 556	Dexamethasone-Eluting Electrode Arrays Protect Against Increases in Impedance in a Guinea Pig Model of Electrode Insertion Trauma-Induced Hearing Loss		Van De Water
PS - 557	Cochlear Explants Treated with Kainic Acid Provide Molecular Insights into Excitotoxicity and Neuronal Regeneration in the Inner Ear	Thomas	
PS - 558	In vitro uptake of Rhodamine-conjugated platinum into mouse utricle hair cells	Chen-Chi	Wu
PS - 559	The Effects of Nerve Deafferentation on Round Window Electrocochleography in a Gerbil Model of High Frequency Sensorineural Hearing Loss	Henry	Ou
PS - 560	Acceleration of Sensory and Neural Cochlear Aging after TTS	Eric	Formeister
PS - 561	Therapeutic Effect of Dexamethasone for Noise Induced Hearing Loss	Katharine	Fernandez
PS - 562	Cisplatin ototoxicity is mediated in part by protein synthesis inhibition	Shi-Nae	Park
PS - 563	Epigallocatechin Gallate (EGCG) Protects Against Cisplatin-Induced Hearing Loss by Altering the Balance between STAT1 and STAT3 Proteins	Brian	Nicholas
PS - 564	Characterisation of SH-SY5Y-cells as an Alternative for Freshly Isolated Auditory Neurons	Vikrant	Borse
PS - 565	In Vitro Assessment of Ototoxicity Associated with Antiretroviral Drugs	Verena	Scheper
PS - 566	Adult human nasal mesenchymal-like stem cells restore spiral ganglion neurons in gentamicin-lesioned neonatal cochlear explants	Pru	Thein
PS - 567	Influences of acute alcohol intake on hearing recovery of CBA mice from Noise-exposure	Bradley	Goldstein
PS - 568	Functional Characterization of STAT3 in the Inner Ear	Myung Hoon	Yoo
PS - 569	Selected Cytokines Activate Chloride Channels in Capillary Endothelial Cells from Guinea Pig Cochlear Lateral Wall	Teresa	Wilson
PS - 570	Increased survival of spiral ganglion neurons in auditory neuropathy by treatment with small molecule Trk receptor agonists	Zhi-Gen	Jiang
PS - 571	Effect of different delivery methods of antioxidant drugs on acute acoustic trauma	Mingjie	Tong
PS - 572	Auditory Damage Criterion: Reassessing Acceptable Exposure Limits for Steady State and Impulse Noise	Chul-Hee	Choi
PS - 573	Recovery from Noise-Induced Hearing Loss is Enhanced by the Immunomodulator Glatiramer Acetate	Christopher	Smalt
PS - 574	Protection of Vestibular Neuroepithelia from Gentamicin Toxicity	JoAnn	McGee
PS - 575	Changes in Cochlear Transcriptional Activity Associated with Noise-induced Primary Neuronal Degeneration	Larry	Hoffman
PS - 576	Protective Effects of Dexamethasone Against Noise-Induced Hearing Loss in the Retrocochlear Auditory Centers	Andrew	Lysaght
PS - 577	Rescue From Progressive Bone Remodeling and Hearing Loss by Systemic Bisphosphonate	Ana	Kim
PS - 578	Transplatin: An Effective Treatment for Noise-Induced Hearing Loss	Penelope	Jeffers
PS - 579	Cobalt Chloride does not Protect Against Progressive Hearing Impairment in Mice with the GJB2 p.V37I Mutation	Sumana	Ghosh
PS - 580	Effect of Gentamicin on WDR1 localization and Peroxisomes in COS7 cells	Ying-Chang	Lu
PS - 581	Attenuation of cochlear oxidative stress and synaptic conservation: effects of methylene blue on noise-induced cochlear injury	Henry	Adler
PS - 582	Conditional knockout of Cdh1 in OHCs reveals supporting cell contribution to Cdh1 response to OHC damage induced by acoustic overstimulation	Jung-sub	Park
PS - 583	Growing Cochlear Fibrocytes on Collagen I Gels	Bo	Wang
PS - 584	Acute Characterization of Gentamicin Induced Inner Hair Cell Ribbon Synapse Degeneration and Formation of New Auditory Neuron Connections	David	Furness
PS - 585	Disruption of OHC amplification function reduces cochlear response to acoustic overstimulation	Matthew	Abernathy
PS - 586	Selective loss of inner hair cells in Ggt1dwg mutant mice	Qunfeng	Cai
PS - 587	Changes in Peroxisomes in COS7 Cells following Gentamicin Treatment	Dalian	Ding
		Brian	Carter
Inner Ear: Hair Cells			
PS - 529	Do the Organ of Corti and Stria Vascularis Depend on Each Other for Development and Survival?	Huizhan	Liu
PS - 530	Hair Cell-like Cells Induced from iPS Cells using mouse utricle tissues.	Shohei	Ochi Durruthy-
PS - 531	Bioinformatic Reconstruction of the Mouse Otocyst (and Neuroblasts) using Single Cell qRT-PCR Data	Robert	Durruthy
PS - 532	The BK Channel Affects Extrinsic and Intrinsic Mechanisms of Apoptosis	Yoshihisa	Sakai
PS - 533	Atoh1 expression levels define the fate of nonsensory epithelial cells of cochlea in neonatal mammals in vitro	Juanmei	Yang
PS - 534	Prestin expression is modulated after the onset of threshold shifts in oncomodulin knockout mice	Dwayne	Simmons
PS - 535	An Ildr1 Knockout Mouse is a Model of Human Deafness DFNB42	Eva	Morozko
PS - 536	Stress dependent Inner Hair Cell Vulnerability	Mirko	Jaumann
PS - 537	Profound Deafness and Hair Cell Loss in miR-183 Family Knockout Models	Marsha	Pierce
PS - 538	Effect of neomycin administration to the cochlea in neonatal mice	Lingxiang	Hu
Inner Ear: Prestin and Motility			
PS - 547	Prestin induced currents in HEK cells	Jun-Ping	Bai
PS - 548	Prestin is trafficked to the basolateral surface of the cell using the AP1B pathway	Yifan	Zhang
PS - 549	Development of a YFP chloride sensor to measure chloride flux in prestin-expressing cells	Sheng	Zhong
PS - 550	Functional Prestin Expression Varies with Tectorial Membrane Malformations	Yohan	Song

	PS - 551		Prestin lateral mobility and self-association in outer hair cells.		Jing	Guo				
	Psychacoacoustics II									
	PS - 588	Motor-auditory Synchronization is Dependent on Degree of Fractal Structure in Auditory Sequences.			Summer	Rankin				
	PS - 589	The Psychophysics of Temporal Coherence in Budgerigars			Erikson	Neilans				
	PS - 590	The effects of age and hearing loss on the temporal modulation transfer function			Yi	Shen				
	PS - 591	Spectral and Temporal Cues for Recognition of Non-harmonic Natural Sounds by Guinea Pigs			Hisayuki	Ojima				
	PS - 592	The Detection of Ultrasonic Calls by Adult CBA/CaJ Mice			Anastasiya	Kobrina				
	PS - 593	Heart Rate and Respiratory Frequency Changes in Response to Diverse Musical Tempos Stimulation			Tamara	Lieberman				
	PS - 594	Cochlear Implant Users Rely on Tempo Rather than Pitch For Perception of Musical Emotion			Meredith	Caldwell				
	PS - 595	The Perception of Ultrasonic Tone Sweeps by Mice			Laurel	Screven				
	PS - 596	Temporal-Modulation Transfer Function of Bone-Conducted Ultrasonic Hearing in a Profoundly Hearing Impaired Patient			Takuya	Hotehama				
	PS - 597	Perception and Propagation Characteristics of Pinna-conduction Hearing			SEIJI	NAKAGAWA				
	PS - 598	Acoustic Discrimination of Onset Rise Time Revisited			Björn	Friedrich				
	Psychoacoustics: Multimodal and Attention									
	PS - 599	Human Pupil Dilation Responses to Auditory Stimulations: Effects of Stimulus Property, Context, Probability, and Voluntary Attention			Hsin-I	Liao				
	PS - 600	Change Detection in Multi-Speaker Scenes is Independent of Selective Attention			Christian	Starzynski				
	PS - 601	Using Pupillometry to Measure Increases in Effort When Switching Attention Between Competing Streams of Degraded Speech			Eric	Larson				
	PS - 602	Auditory Cortex is Highly Sensitive to Regularity in Sound Sequences			Nicolas	Barascud				
	PS - 603	Effects of Reverberation During Attention Switching in Normal Hearing Listeners			Katherine	Ingle				
	PS - 604	Listening effort measured via pupil dilation: outcome measure of cochlear implant frequency-electrode allocation adjustment			Matthew	Winn				
	PS - 605	Can you divide attention across two streams or are you rapidly switching between them?			Lindsey	Kishline				
	PS - 606	Sounds in Sequence Modulate Dynamic Characteristics of Microsaccades			Makoto	Yoneya				
	PS - 607	Auditory Context Effects in Normal-Hearing Listeners and Cochlear-Implant Users			Ningyuan	Wang				
	PS - 608	Temporal Integration of Consecutive Tones into Synthetic Vowels demonstrates Perceptual Assembly in Audition			Jefta	Saija				
	PS - 609	Neural correlates of auditory streaming in human scalp potentials generated from the brainstem and thalamocortical auditory pathway			Shimpei	Yamagishi				
	PS - 610	The role of precursor in tone detection with Schroeder-phase complex maskers			Hisaaki	Tabuchi				
	PS - 611	Auditory Perception of Statistically Blurred Sound Textures			Richard	McWalter				
	PS - 612	Variable Time Courses in Auditory Space Shifts Induced by the Ventriloquism Aftereffect			Justin	Fleming				
	PS - 613	Temporal Coherence Leads to the Formation of Auditory-Visual Objects II: Detection of Auditory Timbre Deviants			Huriye	Atilgan				
	PS - 614	Visual calibration of auditory distance perception			L'uboš	Hládek				
	PS - 615	Deriving the "Salience Level" of a Target Sound using a Tapping Technique			Shunsuke	Kidani				
	PS - 616	The Influence of Task-irrelevant Sounds and Images on Change Detection in Complex Acoustic Scenes			Ediz	Sohoglu				
	PS - 617	Temporal Coherence Leads to the Formation of Auditory-Visual Objects I: Detection of Auditory Frequency Excursions			Ross	Maddox				
	PS - 618	Audiovisual Speech Perception in 3-year-old Children: Effects of Competing Two-Talker Babble			Tina	Grieco-Calub				
	Regeneration II									
	PS - 619	Induction of GATA3 and Brn3a expression in human mesenchymal stem cells after lentivirally mediated neurogenin-1 expression			Athanasia	Warnecke				
	PS - 620	Merlin supports Schwann cell proliferation and axon regeneration following nerve injury			Kristy	Truong				
	PS - 621	Regeneration of Pre-synaptic Sensory Functions May Not Restore Post-Synaptic Neurotransmission			Eric	Mendonsa				
	PS - 622	Serum-Free and Feeder-Free Derivation of Human Neural Progenitors with Fasciculated Architectures			Robert	Duncan				
	PS - 623	Transplantation of Terminally Differentiated Neurons Derived from iPS cells into Cochleae Using The 3D Collagen Matrix			Hiroe	Ohnishi				
	PS - 624	Stem Cell-Derived Sensory Neurons: Electrophysiological Properties and High Frequency Stimulation			Karina	Needham				
	PS - 625	Bone Marrow-derived Stromal Cells Suppress Immune Responses due to Xenografting in The Cochlea			Masaaki	Ishikawa				
	PS - 626	Cell Line Variability in the Differentiation of Human Pluripotent Stem Cells to an Otic Progenitor-like Fate			Samuel	Gubbels				
	PS - 627	The Creation of a Hair Cell Line by Conditional Reprogramming of Otic-Stem Cells			Brandon	Walters				
	PS - 628	Self-Assembling Peptide Amphiphile Nanogels Promote Grafted Stem Cell Differentiation into Otic Neuronal Progenitors.			Augusta	Fernando				
	PS - 629	Micropatterned Silicone Substrates for Affordable and Reproducible Embryoid Body Formation			Stacy	Schaefer				
	PS - 630	The Controlled Generation of Otic Neuronal Progenitors from Human Embryonic Stem Cells			Chaoying	Zhang				
	PS - 631	In Vitro Differentiation of Pluripotent Stem Cells with Co-expression of MicroRNAs and Transcription Factors for Promoting Hair Cell Fate			Michael	Ebeid				
	PS - 632	Conditioning the cochlea to facilitate survival and integration of exogenous cells into the auditory epithelium			Yong-Ho	Park				
	Vestibular: Basic Research II									
	PS - 634	Effect of Visual Field Motion on Subsequent Perception of Self-Motion			Catherine	O'Leary				
	PS - 635	The influence of target distance on dynamic visual acuity			Joshua	Haworth				
	PS - 636	Vestibulo-Ocular Nulling: Quantifying Perceived Retinal Slip Without Recording Eye Movements			Kara	Beaton				
	PS - 637	Sensorimotor Assessment and Rehabilitation Apparatus (Sara): A Portable Device For Rapid Evaluation Of Sensorimotor Function			Michael	Schubert				
	PS - 638	Relationship between visual influence on path integration and landmark navigation ability			Kishiko	Sunami				
	PS - 639	Ocular vestibular evoked myogenic potentials are modulated by increased intracranial pressure			Robert	Gürkrov				
	PS - 640	Head and Trunk Stability during Roll Motion with Galvanic Vestibular Stimulation			Miguel	Pereira				
	PS - 641	Influence of Head and Body Tilt on Perception of Fore-aft Translation			Benjamin	Crane				
	PS - 642	Presynaptic influence of changes in otolithic drive on the conditioned soleus H-reflex			Apollonia	Fox				
	PS - 643	Objective measurements of balance dysfunction in children who are deaf			Nikolaus	Wolter				
	PS - 644	Single Unit Recording Suggests Complex Processing of Input from a Vestibular Prosthesis.			James	Phillips				
	PS - 645	Amplitude Modulation for Vestibular Prostheses			Christopher	Phillips				
	PS - 646	The Frequency Responses of Irregular Primary Utricular Afferent Neurons to Bone-Conducted Vibration (BCV) and Air-Conducted Sound (ACS)			Ian	Curthoys				
	PS - 647	Effects of electron irradiation on vestibular function in rats			Jinghe	Mao				
	PS - 648	Effects of antidepressant on the vestibular system			Hiroaki	Shimogori				
	PS - 649	Using transgenic zebrafish to understand ribbon synapse function in vivo			Katie	Kindt				
	PS - 650	Regional differences in the timing of terminal mitosis and establishment of stereocilia polarity in utricular hair cells.			Tao	Jiang				
	Tuesday, February 25, 2014									
	8:00 AM - 10:00 AM	Symposium: Dynamics of Attention and Learning in the Auditory System			Podium: Inner Ear: Damage and Protection I / Ototoxicity			Podium: Development I		
	10:00 AM - 10:30 AM	Mid-morning Break								
	10:30 AM - 12:30 PM	Symposium: Central Consequences of Deafness			Podium: Inner Ear: Damage and Protection II			Podium: Development II		

	<div>Why is binaural performance with bilateral cochlear implants poorer than expected? Insights from neural data Cortical consequences of unilateral and bilateral deafness</div> <div>Effect of unilateral deafness and considerations for cochlear implantations Developmental consequences of unilateral deprivation in children using one cochlear implant Consequences of auditory deprivation on spatial hearing abilities of cochlear implant users</div>	<div>Bertrand Delgutte Andrej Kral</div> <div>Jill Firszt Karen Gordon Ruth Litovsky</div>	<div>PD - 150 Selective Ablation of Hair Cells is Sufficient for the Recruitment of Macrophages into the Inner Ear</div> <div>PD - 151 Differences in Cochlear Sensory and Supporting Cell Mitochondrial Metabolism Bias Free Radical Production Purinergic Modulation of Type II Cochlear Afferents: Sensing Trauma in the Ear?</div> <div>PD - 152 Noise-induced and Age-related Functional and Structural Cochlear Alterations in Igf1-/+ Mice A comparative RIP-seq approach reveals distinct roles for Caprin-1 and TIA-1 in regulating protein translation during cochlear stress.</div> <div>PD - 154 Ultrastructural 3D Characterization of Wound Healing in Deafened Organ of Corti Powered by SBF-SEM</div> <div>PD - 155</div>	<div>Tejbeer Kaur</div> <div>Heather Jensen Smith</div> <div>Chang Liu</div> <div>Isabel Varela-Nieto</div> <div>Jonathan Gale</div> <div>Tommi Anttonen</div>	<div>PD - 158 Septin7 Regulates the Formation of Inner Ear During Early Developmental Stage RNA microarray analysis in mouse cochlea reveals Hmga2, the high mobility group transcription factor, in the developing and mature inner ear sensory epithelia</div> <div>PD - 159 The Zinc-finger Protein Insm1, Expressed in Delaminating Neuronal Progenitors, Nascent Neurons and Nascent Outer Hair Cells, Promotes Neurogenesis and Neuron Survival in Spiral and Vestibular Ganglia A Gata3-MafB transcriptional network controls auditory synapse development and function</div> <div>PD - 160 Ephrin-A Proteins Promote Targeting of VCN Axons to Contralateral MNTB En1 is necessary for specification and survival of a subset of superior olivary complex neurons</div> <div>PD - 163</div>	<div>Hiroko Torii</div> <div>Azel ZINE</div> <div>Sarah Lorenzen Wei-Ming Yu</div> <div>Sofia Marshak</div> <div>Stephen Maricich</div>
12:30 PM - 1:30 PM	Lunch					
1:30 PM - 3:30 PM	<div>Podium: Inner Ear: Damage and Protection III / Noise</div> <div>Supporting Cells Sense Noise-Induced Damage via TRPA1 Channels and Protect the Cochlea by Actively Changing the Geometry of the Organ of Corti Glucocorticoids protect cochlea against NIHL by modulating Hes1 expression Noise-induced Necrotic Outer Hair Cell Death is Modulated by Receptor-interacting Protein Kinases Innate immune system in cochlear resident cells and its responses to acoustic trauma Antioxidant Response and Coincident Apoptosis Regulation in the Auditory Receptor After Noise Exposure Autophagy Defends Against Noise-induced Hearing Loss Accelerated Noise-Induced Hearing Loss and Audiogenic Seizure in Mice Lacking Thrombospondins Endocochlear Potential (EP) Reduction at Low Noise Exposure Levels in Mice</div>	<div>A. Catalina Vélez-Ortega</div> <div>Bin Wang</div> <div>Kayla Hill</div> <div>Bo Hua Hu</div> <div>Pedro Melgar-Rojas</div> <div>Su-Hua Sha</div> <div>Diana Mendus</div> <div>Kevin Ohlemiller</div>		<div>Podium: Inner Ear: Mechanics and Modeling</div> <div>Probing Cochlear Amplification with Low Frequency Suppression of Voltage and Pressure Measured at the Cochlea's Basilar Membrane Simulating the effect of detaching the tectorial membrane from the spiral limbus on the response of the basilar membrane to a pure tone and two-tone suppression Similarities and Differences between Backward and Forward Traveling Waves in the Cochlea A Mathematical Model of the Chan-Hudspeth Experiments Phase of Shear Vibrations within Cochlear Partition Leads to Activation of the Cochlear Amplifier Distribution of intra-cranial sound pressure during bone conduction stimulation Mechanical Amplification by Non-oscillating Saccular Hair Cell Bundles Stationary Noise Responses and Equivalent Quasilinear Filters in a Model of Cochlear Mechanics: An Iterative Frequency-domain Approach</div>	<div>Wei Dong</div> <div>Julien Meaud</div> <div>Yizeng Li</div> <div>Amir Nankali</div> <div>Jessica Lamb</div> <div>Jae Hoon Sim</div> <div>Yuttana Roongthumskul</div> <div>Yi-Wen Liu</div>	
3:30 PM - 3:45 PM	Mid-afternoon Break					
3:45 PM - 5:45 PM	<div>Podium: Psychoacoustics-Binaural</div> <div>Emphasis of Carrier ITD Information during the Rising Segments of Amplitude Modulated Sounds and its Absence for the Transposed Counterpart The Relations Among Center Frequency, Envelope Rate, and Sensitivity to Envelope-based Ongoing Interaural Time Delays The Peak of Contralateral Masking is Predicted by Pitch Matching Training Interaural Level Difference Discrimination Improves Spatial Release from Masking for Speech Identification Multi-channel processing of inconsistent interaural time differences Directional hearing in single-sided deaf patients: contribution of spectral cues and high-frequency hearing loss in the hearing ear Head-Movement Compensation Results in a Slightly Moving Auditory World Rate Effects in Interaural and Sequential Level Difference Perception</div>	<div>Mathias Dietz</div> <div>Leslie Bernstein</div> <div>Justin Aronoff</div> <div>Yu-Xuan Zhang</div> <div>Matthew Goupell</div> <div>Martijn Agterberg</div> <div>W. Owen Brimijoin</div> <div>Bernhard Laback</div>		<div>Young Investigator Symposia: Cochlear Mechanotransduction</div> <div>A Novel Mechanism to Regulate the Cochlear Mechanotransduction Operating Point Molecular Mechanics of Hair-Cell Tip Links Dynamic Molecular Composition of Regenerating Tip Links in Mammalian Cochlear Hair Cells Changes in mechano-electrical transduction and calcium overload in overstimulated outer hair cells Effects of lipid bilayer alterations on transduction currents of mammalian hair cells Could Ca2+ Release from Intracellular Stores Regulate Mechano-Electrical Transduction? An Efficient Gene Delivery Method for the Annotation of Gene Function in Mechanosensory Hair Cells Effects of stimulus coupling on measurements of mammalian mechanotransduction</div>	<div>Anthony Peng</div> <div>Marcos Sotomayor</div> <div>Artur Indzhykulian</div> <div>Ruben Stepanyan</div> <div>Thomas Effertz</div> <div>Ghanshyam Sinha</div> <div>Wei Xiong</div> <div>Domenica Karavitaki</div>	
8:00 PM - 12:00 PM	Hair Ball					
	<div>Tuesday/Wednesday Poster Sessions (1:00pm Tuesday to 12:00pm Wednesday)</div> <div>Auditory Pathways: Brainstem</div> <div>PS - 673 The Extracellular Matrix Component Brevican Affects High-Speed Synaptic Transmission at the Calyx of Held</div> <div>PS - 674 Loss of Kv1.3 Potassium Channels Impairs Auditory Function</div> <div>PS - 675 Activity-dependent regulation of the probability of neurotransmitter release at the endbulb of Held</div> <div>PS - 676 The role of the medial olivocochlear efferent pathway in noise induced hearing loss in the VGLUT3 knockout mouse</div> <div>PS - 677 Excitatory inputs shape response properties of neurons in the superior paraolivary nucleus</div> <div>PS - 678 Temporal Response Properties are determined by Hyperpolarization-activated Currents in SPON neurons</div> <div>PS - 679 Staggered Development of SPON Neurons in Mice Lacking L-type Ca2+-channels</div> <div>PS - 680 GABAergic Inhibition and its Modulation by GABA Transporters in the Murine Lateral Superior Olive Different Populations of Neurons with Distinct Membrane and Synaptic Properties in the Dorsal and Ventral Part of the Ventral Nucleus of the Lateral Lemniscus (VNLL) of Mice</div> <div>PS - 681 The Naked Mole Rat Auditory Brainstem: An Anatomical and Neurochemical Description</div> <div>PS - 682 Airborne and Underwater Hearing in the Great Cormorant (Phalacrocorax carbo) Studied with ABR and Laser Vibrometry Deafness related to hyperbilirubinaemia is associated with endoplasmic reticulum stress and transmission failure at central auditory synapses</div> <div>PS - 684 Detecting the Early Effects of Noise Exposure</div> <div>PS - 686 The Effect of Carboplatin Induced Ototoxic Hearing Loss on Evoked Potentials in Chinchillas</div> <div>PS - 687 Measurements of Auditory Evoked Responses by Bone-conducted Ultrasound in the Complete Hearing-impaired</div> <div>Auditory Pathways: Cochlear Nucleus</div> <div>PS - 688 GABAergic and Glycinergic Inhibitory Synaptic Transmission in the Cochlear Nucleus Studied in VGAT Channelrhodopsin-2 Mice</div> <div>PS - 689 Glutamate Transporters Differentially Shape Synaptic Responses in the Developing Auditory Brainstem</div> <div>PS - 690 Golgi cells provide feedback inhibition to granule cells in dorsal cochlear nucleus</div> <div>PS - 691 Modulation of Gerbil Spherical Bushy Cell Excitability by Local Acetylcholine Application</div> <div>PS - 692 Consequences of Genetic Alterations of Electrical Properties of Neurons in the Ventral Cochlear Nucleus</div> <div>PS - 693 Inhibition Dynamically Shapes the Acoustic Responsiveness in Spherical Bushy Cells Auditory Experience Regulates the Expression of AMPA Receptors and VGLuT1 in Auditory Nerve-Bushy Cell Synapses and GLT1 in Astrocyte Processes</div> <div>PS - 694 Glycine and GABA shape the inhibitory synaptic response of spherical bushy cells in an activity dependent manner</div> <div>PS - 696 Synaptic plasticity interacts with postsynaptic membrane kinetics in the chick cochlear nucleus</div> <div>PS - 697 The novel presynaptic protein Mover contributes to molecular heterogeneity in the rodent ventral cochlear nucleus Synaptic Activation of NMDA Receptors Generates Supralinear Calcium Signals that Evoke Endocannabinoid-Mediated Associative Short-Term Plasticity</div> <div>PS - 698 Connexin Expression in the Bat and Mouse Cochlear Nucleus</div> <div>PS - 700 Perinatal Expression of Erbb4 Is Required For Normal Ventral Cochlear Nucleus Organization</div> <div>PS - 701 The diversity and fidelity of temporal coding of amplitude modulation in the cochlear nucleus</div> <div>PS - 702 Efficient envelope extraction by adaptive spiking in the owl's cochlear nucleus</div> <div>PS - 703 Neural Correlates of the Detection of Tones in Noise in the Cochlear Nucleus of Nonhuman Primates</div> <div>PS - 704 Estimating Spectral-Temporal Receptive Fields in the Cochlear Nucleus</div> <div>PS - 705 Neural Selectivity to Vocalizations in the Dorsal Cochlear Nucleus</div> <div>PS - 706 Monaural Cross-Frequency Coincidence Detection in Noise-Induced Hearing Loss</div> <div>PS - 707 Acoustic Trauma Upregulates Pain Associated Proteins in Rat Cochlear Nucleus</div> <div>Auditory Prostheses III</div> <div>PS - 651 Precedence based speech segregation in bilateral cochlear implant users</div> <div>PS - 652 Listening effort in users of bilateral cochlear implants and bimodal hearing</div> <div>PS - 653 Envelope Shape Affects Neural ITD Coding With Bilateral Cochlear Implants</div>					

PS - 654	Neural Coding of Interaural Time Difference in an Awake Rabbit Model of Bilateral Cochlear Implants	Yoojin	Chung
PS - 655	Measuring Binaural Integration in Children	Morrison	Steel
PS - 656	Lateralization of Modulated- and Constant-Amplitude Pulse Trains in Normal-Hearing and Bilateral Cochlear-Implant Listeners	Kyle	Easter
PS - 657	Across-Electrode Integration of Interaural Time Difference in Bilateral Cochlear Implant Listeners	Katharina	Egger
PS - 658	Effects of Age at Deafness Onset on Neural Coding of Interaural Time Differences in Gerbil Auditory Brainstem and Midbrain	Maike	Vollmer
PS - 659	Comparison Of Mono- And Binaural Activity Between Infra- And Supragranular Layers Of The Auditory Cortex In Congenitally Deaf And Hearing Control Cats	Jochen	Tillein
PS - 660	Short-Term Adaptation Improves Cochlear-Implant Speech Processing	Robert	Smith
PS - 661	The Effect of Spread of Excitation on Phonemic Restoration in Cochlear Implants	Kristen	Mills
PS - 662	Assessment of spectral and temporal resolution in cochlear implant users: speech and psychoacoustic approach	Il Joon	Moon
PS - 663	Variation of anatomical and physiological parameters causes inter-individual variances in the neural representation of speech in cochlear implant users.	Michele	Nicoletti
PS - 664	Clinical validation of lately developed noise reduction and output compression algorithms	Dan	Gnansia
PS - 665	Improving Speech Perception in Noise for Cochlear Implant Listeners by Combining Harmonic Regeneration with Noise Suppression	Qudsia	Tahmina
PS - 666	The Virtual Tripole: A new stimulation mode for cochlear implants	Monica	Padilla
PS - 667	Spectral and Temporal Resolution of Information-Bearing Acoustic Changes in Vocoded Sentences	Christian	Stilp
PS - 668	Responses of Midbrain Neurons to Cochlear-implant Simulations in the Awake Rabbit	Tianhao	Li
PS - 669	The Effect of Spectral Manipulations on Spatial Release from Masking in Simulations of Cochlear Implants for Single-Sided Deafness	Jessica	Wess
PS - 670	Word position influences recognition in speech intelligibility tasks	Stefanie	Keller
PS - 671	Mandarin Tone Recognition in English-speaking Normal Hearing Listeners and Cochlear Implant Subjects	Kaibao	Nie
PS - 672	Perception of prosodic boundaries in cochlear implants – an eye-tracking study	Anita	Wagner

Drug Delivery

PS - 708	Manipulations of Dexamethasone Kinetics in Perilymph	Alec	Salt
PS - 709	Recovery of hearing after local glucocorticoid therapy of sudden sensorial hearing loss – a meta-analysis by mathematical simulations of clinical protocols	Arne	Liebau
PS - 710	Sodium-glucose transporter-2 (SGLT2; SLC5A2) enhances the cellular uptake of gentamicin	Meiyan	Jiang
PS - 711	Endotoxemia-induced Cochlear Innate Immune Cytokine and Fluorescently-tagged Gentamicin Levels are Attenuated in Hypo-responsive TLR4 C3H/HeJ Mice.	Zachary	Urdang
PS - 712	Evaluation of the Systemic and Intratympanic Application of the Selective Glucocorticoid Receptor Agonist Compound-A for Ototoxic Effects	Christoph	Arnoldner
PS - 713	Prevention of hearing loss due to physical trauma in the cochlea by an intracochlear drug delivery implant	Erik	Pierstorff
PS - 714	In Vivo Delivery of Atoh1 Gene to Rat Cochlea Using a Dendrimer-based Nanocarrier	Nan	Wu
PS - 715	Dose Dependent Threshold Rescue using Antisense Oligonucleotides in Usher Mice	Abhilash	Ponnath
PS - 716	A Fully Integrated Inner Ear Drug Delivery System with Programmable Reciprocating Flow for Timed Dosage	Vishal	Tandon
PS - 717	Impact of Kv3 Channel Modulator AUT3 on Auditory Temporal Resolution in Rats	Natalia	Rybalko
PS - 718	AAV1-mediated postnatal Pendrin expression in the scala media of Slc26a4 null mice partially restores hearing thresholds in the mutant mice	Jianjun	Wang
PS - 719	Neurotrophin Delivery Using Nanoengineered Mesoporous Silica Particles for Spiral Ganglion Neuron Survival in the Deaf Cochlea	Andrew	Wise

External Middle Ear Microbiology

PS - 728	Gene Expression Studies: Correlation of Affymetrix® Gene Chip to qRT-PCR Results in the Mouse Middle and Inner Ear	Fran	Hausman
PS - 729	Non-typeable Hemophilus influenza (NTHi) bacteria induces early inflammation and potent mucin gene expression in mouse middle ear epithelial cells	Stéphanie	Val
PS - 730	Localization and Proliferation of Lymphatic Vessels in the Tympanic Membrane	Takenori	Miyashita
PS - 731	Genomic-based identification of novel potential biomarkers and molecular networks in response to diesel exhaust particles in human middle ear epithelial cells	Moo Kyun	Park
PS - 732	Visualizing Soft-Tissue in Human Temporal Bones using MicroCT and PTA Staining	Jan	Buytaert
PS - 733	Effect of Mutations of PspA and PspC proteins on Viability and Virulence of Streptococcus pneumoniae in the Chinchilla Ear	Patricia	Schachern
PS - 734	A Mouse Model with Fibrous Dysplasia of the Bone Exhibits Progressive Hearing Loss Caused by Cochlear Overgrowth	Schachern	Schachern
PS - 735	Fetal Development Of The Elastic-fiber-mediated Enthesis In The Human Middle Ear	Omar	Akil
PS - 736	Development of the Mucosa in the Eustachian Tube of Neonatal Gerbils	Yoshitaka	Takanashi
PS - 737	Role of the PI3K/PTEN/AKT pathway in Otitis Media	Yi	Li
		Hwan-Ho	Lee

External Middle Ear Physiology

PS - 739	Is the 3D Sound-Induced Motion of the Tympanic Membrane Consistent with Thin-Shell Theory?	Morteza	Khaleghi
PS - 740	A Three Dimensional Volumetric Study of the Epitympanum in Human Temporal Bones	Kyoko	Shirai
PS - 741	Mechanical properties of the incudo-malleolar joint: Measurements of quasi-static and dynamic behavior	Rahel	Gerig
PS - 742	Pulsed Digital Holographic Methods for Transient Acoustic Measurements and Characterization of the Mechanical Properties of the Human Tympanic Membrane	Ivo	Dobrev
PS - 743	Pathways for Bone Conducted Sound in Chinchilla	David	Chhan
PS - 744	Tympanic Membrane Surface Motion and Near-Field Sound Pressure with Open or Occluded Ear Canal by Forward or Reverse Stimulation	Jeffrey	Cheng
PS - 745	Sound Pressure Distribution in the Human Ear Canal for Sound Emanating from the Middle Ear	Michael	Ravicz
PS - 746	Proposal of new classification of sound conduction pathway - Air, bone and cartilage conductions -	Hiroshi	Hosoi
PS - 747	Eye Position Influences on Auditory Processes Measured from Within the External Ear Canal	Kurtis	Gruters
PS - 748	Wave propagation in the Skull Bone during Bone Conduction Stimulation	Christof	Roosli
PS - 749	A high-frequency finite-element model of the gerbil middle ear	Nima	Maftoon
PS - 750	Finite-Element Modelling of the Newborn Ear Canal and Middle Ear	Hamid	Motallebzadeh

External and Middle Ear Diagnosis & Treatment

PS - 720	Development of cartilage conduction hearing aid (4) –Electromagnetic cartilage conduction transducer–	Ryota	Shimokura
PS - 721	Effect of Middle-Ear Pathology on High-Frequency Ear-Canal Reflectance Measurements in the Frequency and Time Domains	Gabrielle	Merchant
PS - 722	Effect of ossicular discontinuity on mechanics and audiometry	Rosemary	Farahmand
PS - 723	Round Window Velocity by Bone Conduction in Cadaveric Specimens with Simulated Otosclerosis	Jeremie	Guignard
PS - 724	Efficiency of Cochlear's Direct Acoustic Cochlear Stimulator (Codacs) Actuator in Different Coupling Modes	Martin	Großhömichen
PS - 725	Does Eustachian Tube Angulation Correlate with Otitis Media?	N	
PS - 726	Positive Middle Ear Pressure versus Ear Canal Pressure Variations: A Preliminary Study with Wideband Power Absorbance in Humans	Wendell	Todd
PS - 727	Test-Retest Reliability of Wideband Middle Ear Absorbance and Wideband Acoustic Stapedius Reflex Measures in Adults with Normal Hearing	Xiao-Ming	Sun
		M.	Feeney

Inner Ear: Genetics and Clinical Path

PS - 765	Endocochlear potential (EP) reduction is irrelative to Connexin26 (GJB2) deficiency induced congenital deafness	Jin	Chen
PS - 766	SLC26A4 p.T410M homozygous mutation found in a cystic cochlea with an enlarged vestibular aqueduct which is different from IP-II with respect to the lack of a bony modiolus	Hiroshi	Yamazaki
PS - 767	Generation and phenotype assessment of an Slc44a2 knockout mouse on the FVB/NJ background	Thankam	Nair
PS - 768	Stria Vascularis Dysfunction in a Mouse Model of Mitochondrial Hearing Loss	Sharen	McKay
PS - 769	Identification and Validation of a Novel POU4F3 Mutation in a Hearing-Impaired Family by Massively Parallel Sequencing and Functional Genetic Study in Cell-lines	Chuan-Jen	Hsu
PS - 770	Drastic disruption of gap junction plaque in Brn4 deficient mouse, a model for DFN3 nonsyndromic deafness	Yoshinobu	Kidokoro
PS - 771	Connexin 26 null mice exhibit spiral ganglion degeneration that can be blocked by BDNF gene therapy	Yohei	Takada
PS - 772	Cochlear abnormalities in mice on a low-thiamine diet	Stéphane	Maison
PS - 773	Activation of stem cell homing promotes the cochlear invasion of bone marrow mesenchymal stem cells	Kazusaku	Kamiya
PS - 774	Mechanotransducer Current in Beethoven Mice	Laura	Corns

Inner Ear: Synapses

PS - 751	The Effects of Cytosolic Glutamate on Synaptic Transmission at Auditory Hair Cell Synapses	Soyoun	Cho
PS - 752	Deconvolution Analysis of the Instantaneous Rate of Neurotransmitter Release from Auditory Hair Cells	Owen	Gross
PS - 753	Optical approaches to studying the physiology of hair cell ribbon synapses	Aaron	Wong
PS - 754	Intensity coding at the Inner Hair Cell Ribbon Synapse is Supported by a Highly Efficient Mechanism of Vesicle Pool Refilling	Juan	Goutman
PS - 755	Ca2+ sensitivity of otoferlin-dependent exocytosis at cochlear and vestibular hair cell ribbon synapses	Philippe	Vincent
PS - 756	Involvement of ATP in vesicle pool replenishment and exocytosis in auditory hair cell synapse	Karina	Leal

PS - 757	Quantal release at the auditory hair cell synapse in the turtle	Anthony	Ricci
PS - 758	Spatial-Temporal Maturation of Inner Hair Cell's Ribbon Synapses Molecular Elements	Felipe	Salles
PS - 759	Exogenous Ribeye B-domain localizes to synaptic ribbons and disrupts ribbon stability in zebrafish hair cells	Lavinia	Sheets
PS - 760	Developmental changes in the voltage-gated Ca2+ channels (VGCC) that mediate acetylcholine (ACh) release at the transient efferent-inner hair cell synapse	Graciela	Kearney
PS - 761	Syntaxin-1B Binding Partners in Hair Cells	Tyson	Fisher
PS - 762	Molecular Characterization of Ribeye and the GABAA Alpha 1 Receptor Subunit in Hair Cells	Zachary	VandeGriend
PS - 763	The role of Ca2+ binding protein 2 (CaBP2) in synaptic sound encoding and hearing	Maria	Picher
PS - 764	Ribbon Synapse Domains in Development and Noise Exposure	Steve	Paquette
Physiology: Inner Ear Membranes and Fluids			
PS - 775	Systemic endotoxin enhances entry of fluorescein into perilymph through compromise of the blood-labyrinth barrier	Keiko	Hirose
PS - 776	Effects of Artificial Endolymph Injection on Inner Ear Function and Morphology in Guinea Pigs	Daniel	Brown
PS - 777	The effects of vasopressin type 2 receptor antagonist (OPC-41061) on endolymphatic hydrops	Naoya	Egami
PS - 778	The Quantitative Analysis of Aquaporin Expression Levels in the Inner Ear	Takushi	Miyoshi
PS - 779	Developmental Changes of ENaC Expression and Function in the Inner ear of Pendrin Knock-out Mouse as a Perspective of Development of Endolymphatic Hydrops	Bo Gyung	Kim
PS - 780	Immunohistochemical Localization of Natriuretic Peptide Receptor A Within Cells of the Potassium Cycling Pathway in the Cochlea	Sara	Prince
PS - 781	Expression of TRPM4 in the Mouse Cochlea and its Putative Roles in the Potassium Ion Transport and the Inner Hair Cell Repolarization	Junko	Murata
PS - 782	Adrenergic and cholinergic stimulation-mediated changes of transepithelial current from human endolymphatic sac epithelium	Sung Huhn	Kim
PS - 783	Improved Inner Ear RNA Extraction and Quantification	Beth	Kempton
Psychoacoustics: Pitch Perception			
PS - 784	Age Related Shifts Of Absolute Pitch Judgment And Their Relation To The Hearing Impairment.	Minoru	Tsuzaki
PS - 785	Infant Missing Fundamental Pitch Sensitivity and Melody Discrimination	Bonnie	Lau
PS - 786	Ferret Pitch Perception is Dominated by Temporal Cues, Unlike that of Humans	Kerry	Walker
PS - 787	Formant-frequency discrimination for synthetic single-formant vowel-like sounds: Comparison of budgerigar and human thresholds	Laurel	Carney
PS - 788	Human Time-Frequency Acuity Beats the Fourier Uncertainty Principle	Jacob	Oppenheim
PS - 789	Psychometric Functions for Pure-tone Frequency Discrimination by Aged Listeners	Huanping	Dai
PS - 790	Auditory-tactile integration in temporal frequency discrimination	Juan	Huang
PS - 791	Vowel Segregation using Inharmonic Stimuli	Eugene	Brandewie
PS - 792	The effect of preceding stimulation on a broadband measure of frequency resolution	Evelyn	Davies-Venn
PS - 793	Context effects in pitch discrimination	Coral	Dirks
PS - 794	Frequency Discrimination Assessed by a Modified Startle Response in Adult Rats Exposed to Noise as Juveniles	Daniel	Suta
PS - 795	Human Pitch Perception in Real-World Conditions is Spectral Pattern Recognition, Not Periodicity Detection	Samuel	Norman-Haignere
Clinical Otolaryngology			
PS - 502	Effect of Renal Failure on Voice	Zaahir	Turfe
Speech			
PS - 796	Formant Frequency in relation to Hyoid bone position	Zaahir	Turfe
PS - 797	Physiological Analysis of Double Vowel Perception in Listeners With Normal Hearing	Mark	Hedrick
PS - 798	Periodicity and Aperiodicity in the Perception of Speech in Both Steady-State and Fluctuating Maskers	Kurt	Steinmetzger
PS - 799	The Effects of Periodicity and Amplitude Fluctuations in Determining the Effectiveness of a Masker of Speech: Approximations to Multi-Talker Babble	Stuart	Rosen
PS - 800	Comprehension of Degraded Speech becomes Less Effortful but not More Automatic with Training	Julia	Huyck
PS - 801	Effects of lexicality and attention on the auditory streaming of speech	Alexander	Billig
PS - 802	The Effect of Audibility on Spatial Release from Masking	Helen	Glyde
PS - 803	Timing and Specificity of Preparatory Attention in Cocktail-party Listening	Emma	Holmes
PS - 804	Ear Dominance in a Dichotic Cocktail Party	Eric	Thompson
PS - 805	Binaural Glimpses at the Cocktail Party?	Stephan	Ewert
PS - 806	Adaptation to Room Reverberation in Nonnative Phonetic Training	Eleni	Vlahou
PS - 807	Learning an Invented Auditory Non-Linguistic Rule: Children versus Adults	Liat	Kishon-Rabin
PS - 808	Auditory-neurophysiologic responses to speech in pre-readers: The search for a reading biomarker	Travis	White-Schwoch
PS - 809	Correlations between lip contours and modulation envelopes in speech	Arun	Palghat-Udayashankar
Tinnitus: Animal Models			
PS - 810	Sound loudness affected by high doses of salicylate and noise exposure	Chao	Zhang
PS - 811	Possible contribution of non-classical auditory centers to salicylate-induced and noise-induced tinnitus and hyperacusis	Richard	Salvi
PS - 812	Behavioral Assessment of Salicylate-induced Hearing Loss and Gap Detection Deficits in Rats	Kelly	Radziwon
PS - 813	High Doses of Salicylate Causes Prepulse Facilitation of Offset-Gap Induced Acoustic Startle Response	Wei	Sun
PS - 814	The Effects of Cholecystokinin (CCK) on Auditory Responses	Guang-Di	Chen
PS - 815	Two-Alternative Forced Choice Task for Assessing Noise-Induced Tinnitus in Rats	Nina	Kashanian
PS - 816	Tinnitus-related changes in GABAA receptor inhibition in auditory thalamus of rats.	Evgeny	Sametsky
PS - 817	Effects of Furosemide on Central Hyperactivity and Tinnitus after Acoustic Trauma in Guinea Pig	Wilhelmina	Mulders
PS - 819	Impulse Noise Effects on ABR, Pre-pulse Inhibition, Gap Detection, and Auditory Nerve Connections	Karin	Halsey
PS - 820	Bimodal Stimulus Timing Dependent Plasticity in Primary Auditory Cortex is Altered After Noise-Induced Tinnitus	Gregory	Basura
PS - 821	Therapeutic effect of Sildenafil on Blast-Induced Tinnitus and Auditory Impairment	Houmehr	Hojjat
PS - 822	Sodium Salicylate Modulates Excitability of Dopaminergic Neurons Derived from Human iPS Cells	Xiping	Zhan
PS - 823	Effects of Unilateral Acoustic Trauma on Neural Activity in the Ipsilateral Inferior Colliculus of Unanesthetized Rats	Stefanie	Kennon-McGill
PS - 824	An Improved Approach to Measure Acoustic Startle Reflex in a Tinnitus Mouse Model	Calum	Grimsley
PS - 825	Sound-triggered Suppression of Neuronal Firing in the Auditory Cortex: Implication to the Residual Inhibition of Tinnitus	Alexander	Galazyuk
PS - 826	Reflex Modification Audiometry as a Tool to Assess Hearing in CBA/CaJ Mice	Ryan	Longenecker
PS - 827	Induction of enhanced acoustic startle responses following intense noise exposure: Dependence on the degree of threshold shift. Suppressive effect of the M3-selective muscarinic acetylcholine receptor agonist, pilocarpine, on noise induced hyperactivity in the dorsal cochlear nucleus	Christopher	Yurosko
PS - 828		Rony	Salloum
PS - 829	Use of the Zebrafish for testing Drugs to Treat Tinnitus	Catherine	Pham
Tinnitus: Humans			
PS - 830	Associations between Tinnitus, Neuroticism, Depression and Anxiety in a Large UK Population aged 40 to 69 years	Abby	McCormack
PS - 831	Relationship among tinnitus intensity reduction and improvement in the patients` quality of life, achieved through sound stimulation during sleep.	Daniel	Drexler
PS - 832	Changes on Electroencephalographic Waves during Sleep in Tinnitus Patients Treated with Sound Stimulation at Night	Marisa	Pedemonte
PS - 833	LONG-LATENCY AUDITORY EVOKED POTENTIALS IN UNILATERAL TINNITUS PATIENTS IN WAKEFULNESS COMPARED WITH NORMAL SUBJECTS	Matias	López-Paullier
PS - 834	Implementation of Auditory Late Latency Response Measurement System and Investigation of Gap Prepulse Inhibition of N1-P2 Amplitudes	Il-Yong	Park
PS - 835	Increased Contralateral Suppression of DPOAEs in Humans with Chronic Tinnitus and Hyperacusis Suggests Hyperactivity of the Medial Olivocochlear Pathway	Jennifer	Melcher
PS - 836	Acoustic Startle Response in Humans with Tinnitus and Hyperacusis	Inge	Knudson
PS - 837	Atlas-based single subject functional MRI study of tinnitus	J. Tilak	Ratnanather
PS - 838		Hyun	Shim
PS - 839	Influence of Tinnitus on Auditory Spectral and Temporal Resolution, and Speech Perception Ability in Tinnitus Patients	Joon	Shim
PS - 840	A Cueing Experiment in Tinnitus Patients to Assess Auditory Attention	Gijsbert	Van Zanten
PS - 841	Acoustic Analysis of the Sounds of Objective Tinnitus	Shinjiro	Fukuda
PS - 841	Middle ear myoclonus cured by selective tenotomy of the tensor tympani: strategies for targeted intervention for middle ear muscles	Hiroshi	Hidaka

		PS - 842	Changes of Tinnitus in Sudden Sensorineural Hearing Loss: Relationship BetweenTinnitus Pitch and Audiometric Shape				Hong Ju	Park				
		PS - 843	Alterations of the Limbic System Associated with Tinnitus may maintain Rapid Reaction Time to Affective Stimuli.				Jake	Carpenter-Thompson				
		PS - 844	Multiple Electro-stimulation Treatments to the Promontory for Tinnitus				Ronen	Perez				
		PS - 845	Hyperacusis is a Theoretical Construct; not a Behavior: Reconciling Human and Animal Data				Anthony	Cacace				
		PS - 846	Acute Effects of Transcutaneous Vagus Nerve Stimulation on Tinnitus-Related Mental Stress				Jukka	Ylikoski				
			Plasticity of Central Auditory System									
		PS - 136	Modifications in stimulus timing dependent plasticity mediated learning rules in dorsal cochlear nucleus following NMDA receptor blockade				Roxana	Stefanescu				
Wednesday, February 26, 2014												
8:30 AM - 11:45 AM	Podium: Auditory Pathways: Cortex and Thalamus				Podium: External and Middle Ear			Podium: Inner Ear: Anatomy and Physiology II				
	PD - 196	Tonotopy and Periodotopy in Human Auditory Cortex	Gijs	Hoskam	PD - 188	Middle-Ear Atlas Registration Method for Surgical Simulation	Guillaume	Kazmitcheff	PD - 204	Spiral Ganglion Degeneration and Hearing Loss as a Consequence of Satellite Cell Death in Saposin B Knockout Mice	Lawrence	Lustig
	PD - 197	Changes in brain networks detected by resting state functional MRI in subjects with long-term unilateral sensorineural hearing loss	Guangyu	Zhang	PD - 190	Virtual Simulation of Stapedotomy and Stapedioplasty Surgery	Yann	Nguyen	PD - 205	Progressive hearing loss in mice with a mutation affecting the ubiquitin-proteasome pathway	Martin	Schwander
	PD - 198	Ginkgo Biloba Extract EGb 761® has a Protective Effect Against Noise Induced Hearing Loss and Tinnitus Development in the Mongolian Gerbil	Konstantin	Tziridis	PD - 191	Dynamic Properties of Tympanic Membrane in a Chinchilla Otitis Media Model	Zachary	Yokell	PD - 206	Infrared Stimulation of the Ear Depends on Intact Hair Cells	Peter	Baumhoff
	PD - 199	Noise Trauma Induced Development of Subjective Tinnitus: Predisposition and Prevention	Holger	Schulze	PD - 192	Effects of middle ear condition on intracochlear pressure in human temporal bones with bone conduction excitation	Christof	Stieger	PD - 207	Infrared Radiation Modulates Mitochondrial Membrane Potential in Cultured Neonatal Spiral and Vestibular Ganglion Neurons	Vicente	Lumbreras
	PD - 200	Cortical Processing of the Syllable Rate of Speech in Musician and Nonmusician Children	Dana	Strait	PD - 193	The Utility of Animal Models in the Study of Bone Conduction	John	Rosowski	PD - 208	Elementary Properties of Potassium Channels Responsible for potassium extrusion in the Endolymphatic Sac	Maria	Perez-Flores
	PD - 201	Structural and Functional Analysis of Auditory Cortex in a Mouse Model of Fragile X Syndrome	Teresa	Wen	PD - 194	Novel Auditory Test Curves Derived from 3D Finite Element Models of Human Ear	Rong	Gan	PD - 209	Functional Role of the Glutamic Acid Residue (E290) in the Extracellular S5-Pore Linker of the Kv7.1 Channel	Karen	Doyle
	PD - 202	Direct Electrophysiological Recording of Human Auditory Cortex Responses to Different Pitch Values	Phillip	Gander	PD - 195	Simultaneous Measurement of Differential Intracochlear Pressure and Ossicular Velocity by Scanning Vibrometry During Very High Intensity Sound Presentation	Nathaniel	Greene	PD - 210	Slow-Cycling Cells in Tympanic Border Cells Mostly Distribute Beneath Organs of Corti	Norio	Yamamoto
	PD - 203	Lip Reading may Prevent Visual Reorganization of Auditory Phonological Areas in Post-lingual Deaf Adults	Diane	Lazard					Podium: Inner Ear: Hair Cells Anatomy and Physiology			
	PD - 211	Categorization of Speech and Non-speech Sounds in the Human Auditory Cortex Revealed by Intracranial Recordings	Mitchell	Steinschneider					PD - 216	Hair Cell Specific Expression of Clarin-1 is Sufficient to Prevent Auditory and Vestibular Dysfunction in the Mouse Model for Ear Disease in Usher Syndrome III Mink (KCNE1) and MiRP2 (KCNE3) Modulate Large-Conductance Ca2+-Activated K+ Channel Gating	Ruishuang	Geng
	PD - 213	Figure-ground Segregation in Complex Acoustic Scenes: an MEG study	Sundeeep	Teki					PD - 218	Acf7 is a Hair-Bundle Antecedent, Positioned to Integrate Cuticular Plate Actin and Somatic Tubulin Inner Hair Cell Membranes in Three Dimensions: Links Between Membranes, Mitochondria and Vesicles	Sonja	Pyott
	PD - 214	Preserved Responsiveness and Reduced Intracortical Connectivity In The Auditory Cortex After Congenital Deafness.	Peter	Hubka					PD - 219		Lana	Pollock
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