

Poster Session

Schedule

Posters should be mounted, presented and removed based on the following schedules. The presenters for poster sessions are requested to be at the site of the posters at the designated time to answer questions from participants. The poster sessions will not be chaired. Posters which are not removed during the designated time will be disposed of at the discretion of the secretariat.

Mounting: November 1, 2014, 16:00-17:30 or November 2, 2014, 9:00-12:00

Presentation:

Odd Number: November 2nd, 13:15-14:15

Even Number: November 3rd, 13:15-14:15

Removal: November 4, 2014, 14:00-15:30

Room: Annex 1

Posters

- 124 **Behavior of Tricellular Junctions in Temperature-sensitive Mouse Cochlear Precursor Hair Cells**
Kakuki T, Kojima T, Takano K, Miyata R, Kohno T, Kaneko Y, Himi T (Japan)
- 125 **Primary Cilia in Temperature-sensitive Mouse Cochlear Precursor Hair Cells**
Takano K, Kojima T, Kakuki T, Miyata R, Ninomiya T, Konno T, Kaneko Y, Himi T (Japan)
- 126 **The Expression of PTEN in the Developmental Spiral Limbus**
Dong YY (USA, Japan), Sui L (Japan), Tokuda M (Japan), Hu BH (USA)
- 127 **Dominant Negative Connexin26 Mutation R75W Causing Severe Hearing Loss Influences Normal Programmed Cell Death In Postnatal Organ Of Corti**
Inoshita A, Karasawa K, Funakubo M, Miwa A, Ikeda K, Kamiya K (Japan)
- 128 **Glutamatergic Signaling is Required for Maintenance of Inner Hair Cell, but Not Outer Hair Cell Innervation during Early Postnatal Development**
Barclay M, Robertson IP, Montgomery JM, Thorne PR (New Zealand)
- 129 **FGFR1 Regulates the Kinocilia-specific Transport during Hair Cell Development**
Honda A, Kita T, Misaki K, Nakagawa R, Yonemura S, Ladher RK (Japan)
- 130 **Expression of TRPM4 in the Mouse Cochlea and its Implicated Functions in the Depolarization of Inner Hair Cells and the Endolymph Formation**
Sakuraba M (Japan), Murata J (Japan), Teruyama R (USA), Kamiya K (Japan), Yamaguchi J (Japan), Okano H (Japan), Uchiyama Y (Japan), Ikeda K (Japan)
- 131 **Distribution of TBC Proteins in the Sensory Epithelium of the Cochlea**
Juergens L, Rak K, Mlynski R (Germany)
- 132 **Shaping the Mammalian Inner Ear Sensory Organs by the Vertebrate Planar Cell Polarity Pathway**
Kim SM, Padmashree R, Tower-Gilchrist C, Knapp L, Jones C, Qian D, Li SD, Chen P (USA)
- 255 **The Rho GTPase Cdc42 Regulates Patterning and Polarization of Hair Cells in the Embryonic Organ of Corti**
Kirjavainen A, Laos M, Anttonen A, Pirvola U (Finland)



- 133 Regulation of Inner Ear Hair Cell Fate: Transcription Factor Combination and Epigenetics**
Ikeda R (USA, Japan), Pak K (USA), Eduardo C (USA), Hashimoto S (Japan), Katori Y (Japan), Ryan AF (USA)
- 134 The Role of Planar Cell Polarity Pathway in the Ectopic Regenerated Hair Cells Regulated by the Testosterone Treatment**
Ren D-D, Yang X-Y, Jin K, Ma R, Luo W-W, Yang J-M, Liu X, Chi F-L (China)
- 135 The Effects of Surface Patterning in Cell Expansion of Auricular Chondrocytes**
Oh JH, Hwang SH, Park SH, Kim DS, Kim SW (Korea)
- 136 Gap Junctional Coupling is Essential for Epithelial Repair in the Chicken Cochlea**
Jagger D, Nickel R, Forge A (UK)
- 137 Inner Ear Neuron Culture in 3-D Gradient**
Edin F, Li H, Liu W, Rask-Andersen H (Sweden)
- 138 Defining the Role of Integrins in the Repair and Regeneration of Hair Cells in the Human Vestibular System**
Hussain K, Forge A, Saeed SRS, Dawson S, Taylor R (UK)
- 139 Effect of Netrin-1 for Spiral Ganglion Afferent Dendrite and Synapse Regeneration**
Asaka N, Shiina K, Yamahara K, Yamamoto N, Nakagawa T, Ito J, Ishikawa K (Japan)
- 140 The Activation of Stem Cell Homing Factors Highly Induces the Cochlear Invasion of Bone Marrow Mesenchymal Stem Cells**
Fukunaga I, Karasawa K, Hatakeyama K, Minowa O, Ikeda K, Kamiya K (Japan)
- 141 From Hair Follicles in the Human Ear Canal to Neuron-like Cells**
Li H (Sweden), Edin F (Sweden), Hayashi H (Sweden, Japan), Rask-Andersen H (Sweden)
- 142 Differentiation of Human Embryonic Stem Cells towards Sensory Neuronal Phenotype**
Ali RQ, Cheng YF, Kostyszyn B, Åhrlund-Richter L, Ulfendahl M (Sweden)
- 143 Natural Pathway of Stem Cells within the Cochlear Nucleus of Rats**
Voelker J, Rak K, Schendzielorz P, Radeloff A, Hagen R (Germany)
- 144 Characterization of Differentiating Neural Stem Cells from the Rat Cochlear Nucleus by Spontaneous Calcium Activity Analysis**
Voelker C, Rak K, Voelker J, Schendzielorz P, Radeloff A, Hagen R (Germany)
- 145 Hypoxia Induces a Metabolic Shift and Enhances the Stemness of Cochlear Spiral Ganglion Stem/Progenitor Cells**
Wang CH, Chen HC, Li SL, Chen HK, Shih CP, Lin YC (Taiwan)
- 146 H₂O₂ Treatment Accelerates Autophagy and Cellular Senescence in Auditory Cell Line**
Tsuchihashi NA, Hayashi K, Goto F, Nomura Y, Masuda T, Fujioka M, Kanzaki S, Ogawa K (Japan)
- 147 Inhibition of Histone Deacetylases Attenuates Noise-induced Hearing Loss and Outer Hair Cell Death**
Hill K, Chen J, Sha S-H (USA)
- 148 Expression of Insulin and cAMP Signaling Components in Hair Cells and Supporting Cells of the Human Inner Ear-implications for Diabetes and Menieres Disease**
Degerman E, Rauch U, Hultgårdh A, Lindberg S, Caye-Thomasen P, Magnusson M (Sweden)

- 149 **Arc Gene Expression Difference in the Adult Rat Brain between Unilateral and Bilateral Deafness**
Park MH, Lee HS (Korea)
- 150 **Two Novel Causative Proteins for Hereditary Hearing Loss, ATP6B1 and PENDRIN, co-expressed in the Inner Ear Lateral Wall of Common Marmoset**
Hosoya M, Fujioka M, Okano H, Ogawa K (Japan)
- 151 **Assembly and Disruption of Cochlear Gap Junction Macromolecular Complex are Regulated by Connexin 26**
Hatakeyama K, Fukunaga I, Ikeda K, Kamiya K (Japan)
- 152 **Tricellulin Deficiency Causes Deafness due to Cochlear Rapid Hair Cell Degeneration**
Kamitani T, Sakaguchi H, Miyashita T, Inamoto R, Tokumasu R, Tamura A, Mori N, Tsukita S, Hisa Y (Japan)
- 153 **Three Dimensional Organization of Inner Hair Cell Membrane Systems and Their Relationship to Synaptic Structures**
Bullen A, West T, Fleck R, Ashmore J, MacLellan-Gibson K, Moores C, Forge A (UK)
- 154 **Acoustic Overstimulation Activates 5'-AMP-activated Protein Kinase through a Temporary Decrease in ATP Level in the Cochlear Spiral Ligament Prior to Noise-induced Hearing Loss**
Yoneyama M, Yamaguchi T, Kuramoto N, Ogita K (Japan)
- 155 **The Effect of Mutation of the ATP-gated P2Y₂ Receptor on Hearing and Susceptibility to Noise**
Park M, Moon JH, Suh MW, Lee JH (Korea)
- 156 **Notch Signaling Negatively Regulates Formation and Growth of the Stereocilia Bundle**
Li Y (China, USA), Jia S (USA), Gong S (China), He DZZ (USA)
- 157 **Regulation of KCNQ1/KCNE1 Channels by Sphingomyelin Synthase 1**
Wu MK, Takemoto M, Okazaki T, Song W-J (Japan)
- 158 **The Oxidative Stress Role in the Pathophysiology of Otosclerosis**
Rudic M (Croatia), Wagner R (USA), Wilkinsson E (USA), Kiros N (Ethiopia), Ferrary E (France), Sterkers O (France), Bozorg Grayeli A (France), Zarkovic K (Croatia), Zarkovic N (Croatia)
- 159 **The $\alpha_2\delta_3$ Ca²⁺ Channel Subunit is Essential for Normal Function of Auditory Nerve Synapses and is a Novel Candidate for Auditory Processing Disorders**
Kurt S (Germany), Pirone A (Germany, USA), Zuccotti A (Germany), Rüttiger L (Germany), Pilz P (Germany), Brown DH (Germany, USA), Franz C (Germany), Schweizer M (Germany), Rust MB (Germany), RübSamen R (Germany), Friauf E (Germany), Knipper M (Germany), Engel J (Germany)
- 160 **Effect of Prestin on Cell Volume Regulation**
Nabekura T, Matsuda K, Nakamura T, Tono T (Japan)
- 161 **Evaluation of the Mouse Vestibulo-ocular Reflex with Video-oculography**
Takimoto Y, Imai T, Uno A, Ishida Y, Kitahara T, Kamakura T, Okumura T, Horii A, Inohara H, Shimada S (Japan)
- 162 **Whole-Mount Fluorescent Imaging of the Endolymphatic Sac using Prox1-GFP Transgenic Mice**
Miyashita T (Japan), Burford JL (USA), Hong Y-K (USA), Gevorgyan H (USA), Lam L (USA), Hoshickawa H (Japan), Mori N (Japan), Peti-Peterdi J (USA)
- 163 **A Cochlear Origin for Binaural Time and Phase Delay?**
Karino S (Belgium, Japan), Joris PX (Belgium)



- 164 **Evidence of the K⁺-circulation Current that Controls the Electrochemical Properties of the Mammalian Cochlea**
Sato M, Yoshida T, Nin F, Ogata G, Doi K, Hibino H (Japan)
- 165 **The Susceptibility to Noise Injury is Increased in Streptozotocin-induced Diabetic Mice**
Fujita T, Yamashita D, Katsunuma S, Hasegawa S, Tanimoto H, Nibu K (Japan)
- 166 **Adrenergic and Cholinergic Stimulation-Mediated Changes of Transepithelial Current from Human Endolymphatic Sac Epithelium**
Kim SH, Kim BG, Kim JY, Jeong J, Choi JY (Korea)
- 167 **Developmental Increase in Hyperpolarization-activated Current Regulates Intrinsic Firing Properties in Rat Vestibular Ganglion Cells**
Yoshimoto R, Iwasaki S, Takago H, Nakajima T, Sahara Y, Kitamura K (Japan)
- 168 **Measuring Glutathione Content in the Organ of Corti Using Live Imaging**
Majumder P, Duchen MR, Gale JE (UK)
- 169 **Quantal Release at the Auditory Hair Cell Synapse in the Turtle**
Schnee ME, Ricci AJ (USA)
- 170 **Identification of Factors Underlying Spiral Ganglion Neurons' Dynamic Range**
Niwa M, Ricci AJ (USA)
- 171 **Metabolome Analysis of Inner Ear Fluid in Guinea Pigs Cochlea after Intense Noise**
Yamashita D, Fujita T, Shinomiya H, Inokuchi G, Hasegawa S, Nibu K (Japan)
- 172 **Type I IFN is Produced in Supporting Cells against Virus Infection of the Cochlear Sensory Epithelium via RIG-I Like Receptor Signaling Pathway**
Hayashi Y, Onomoto K, Narita R, Yoneyama M, Kato H, Taura A, Nakagawa T, Ito J, Kaga K, Fujita T (Japan)
- 173 **Interferon Gamma Activity Research in Case of Acute Sensorineural Hearing Loss**
Petrova NN, Perevozchikova VN, Maslova YA, Petrova EV (Russia)
- 174 **ALH-L1005 Attenuates Endotoxin Induced Inner Ear Damage**
Jang CH, Jo SY, Cho YB, Park BY, Kim MY (Korea)
- 175 **Activation of MiR-34a/SIRT1/p53 Signaling Contributes to Cochlear Hair Cell Apoptosis: Implications for Age-related Hearing Loss**
Xiong H, Pang J, Lai L (China)
- 176 **Absence of Serpinb6 Causes Sensorineural Hearing Loss with Multiple Histopathologies in the Mouse Inner Ear: Implications for Non-syndromic Hearing Loss in Humans**
Tan J, Kaiserman D, Prakash M, Bird PI (Australia)
- 177 **Vacuolar Formation in Intermediate Cells of Stria Vascularis from Rat with Vasopressin-induced Hearing Loss**
Naganuma H, Kawahara K, Sato R, Ochiai A, Tokumasu K, Okamoto M (Japan)
- 178 **Indicators Acoustic Reflex in Persons Employed in the Furniture Industry**
Petrova NN, Panshina VS (Russia)
- 179 **Accumulated Caveolins in the Models of Connexin26 Associated Deafness**
Anzai T, Kamiya K, Ikeda K (Japan)
- 180 **Disruption of Ion-trafficking System in the Cochlear Spiral Ligament Prior to Noise-induced Hearing Loss**
Yamaguchi T, Yoneyama M, Ogita K (Japan)

- 181 **Analysis of Sirt3 Gene and Mitochondrial Genome in Japanese Patients with Presbycusis**
Ohtsuka H, Shimamoto K, Fukuda K, Sato H (Japan)
- 182 **Novel *TECTA* Mutations Identified in Stable Sensorineural Hearing Loss and Their Clinical Implication**
Chang MY, Kim AR, Koo JW, Oh SH, Choi BY (Korea)
- 183 **Characterization of Pathogenic Mechanism of a Nonstop Extension Mutation of *EYAI* Detected in BOR Syndrome**
Kim AR, Choi HS, Koo JW, Jeon EH, Kim MY, Choi BY (Korea)
- 184 **Down Regulated Connexin26 at Different Postnatal Stage Displayed Different Types of Cellular Degeneration and Formation of Organ of Corti**
Chen S (China), Sun Y (China), Lin X (USA), Kong W (China)
- 185 **Targeted Exome Sequencing Identified a Novel Truncation Mutation of *EY44* in Moderate Degree Hearing Loss**
Choi HS, Kim AR, Kim SH, Koo JW, Choi BY (Korea)
- 186 ***MARVELD2* (DFNB49) Mutations in the Hearing Impaired Central European Roma Population: Prevalence and Founder Effect**
Varga L (Slovakia), Mašindová I (Slovakia), Šoltýsová A (Slovakia), Matyás P (Hungary), Ficek A (Slovakia), Hučková M (Slovakia), Sůrová M (Slovakia), Anwar S (USA), Bene J (Hungary), Janicsek I (Hungary), Seeman P (Czech Republic), Riazuddin S (USA), Melegh B (Hungary), Klimeš I (Slovakia), Kádasi L (Slovakia), Profant M (Slovakia), Gašperíková D (Slovakia)
- 187 **Identification of Deafness Genes in Middle Eastern and Brazilian Families Using Exome Sequencing**
Martins FTA (Israel, Brazil), Brownstein Z (Israel), Abu-Rayyan A (Palestinian Authority), Birkan M (Israel), Sokolov M (Israel), Farran ND (Israel), Isakov O (Israel), Shomron N (Israel), Shalev S (Israel), Kanaan M (Palestinian Authority), Sartorato EL (Brazil), Avraham KB (Israel)
- 188 **Analysis of a Conserved *GJB2* Intronic Region in Hearing Impaired Monoallelic Portuguese Patients**
Matos TD, Simões-Teixeira H, Gonçalves AC, Chora JR, Rosa H, Monteiro L, O'Neill A, Dias ÓP, Andrea M, Caria H, Fialho G (Portugal)
- 189 **Vascular Endothelial Growth Factor Polymorphisms and Hearing Impairment in Japanese Aged Population**
Uchida Y, Sugiura S, Nakashima T, Ueda H, Otsuka R, Ando F, Shimokata H (Japan)
- 190 **Massively Parallel DNA Sequencing Successfully Identifies New Causative *TMPRSS3* Mutations in Patients with EAS**
Miyagawa M, Nishio S, Tsukada K, Moteki H, Usami S (Japan)
- 191 **Major Susceptibility Gene (s) on Chromosome 10 for Congenital Hearing Loss in NOD/Shi Mice**
Suzuki S, Obara Y, Yasuda SP, Takada T, Shiroishi T, Kikkawa Y (Japan)
- 192 **Comprehensive Genetic Testing in a Japanese Hearing-Loss Population using Targeted Genomic Enrichment and Massively Parallel Sequencing**
Moteki H (USA, Japan), Azaiez H (USA), Booth KT (USA), Shearer AE (USA), Sloan CM (USA), Kolbe DL (USA), Usami SI (Japan), Smith RJH (USA)
- 193 **Microarray Analysis of Tonotopic Gene Expression Patterns in the Mouse Cochlea**
Yoshimura H, Nishio S, Takumi Y, Iwasa Y, Usami S (Japan)
- 194 **Clinical Genetic Testing Based on Massively Parallel DNA Sequencing**
Nishio S, Miyagawa M, Naito T, Iwasa Y, Ichinose A, Usami S (Japan)



- 196 **Difference in Ototoxicity of Acetic Acid and Maturity of the Guinea Pigs**
Yamano T, Higuchi H, Ueno T, Nakagawa T, Morizono T (Japan)
- 197 **Pyrrroloquinoline Quinone Protects Vestibular Hair Cells against the Aminoglycoside Ototoxicity**
Sugahara K, Hirose Y, Hashimoto M, Shimogori H, Yamashita H (Japan)
- 198 **Ototoxic Effect of Ultrastop Anti-fog Solution Applied to the Guinea Pig Middle Ear**
Nomura K, Oshima H, Yamauch D, Hidaka H, Kawase T, Katori Y (Japan)
- 199 **Cochlear Lesion of the Animal Model of Eosinophilic Otitis Media**
Kudo N, Matsubara A, Nishizawa H, Takahata J, Sasaki A (Japan)
- 200 **p53 Plays a Key Role in Cisplatin-induced Cochlear Cell Death: Toward the New Therapeutic Strategy**
Ogita H, Puel J-L, Wang J (France)
- 201 **The Effect of Sphingosine-1-phosphate Receptor Antagonists on Gentamicin-ototoxicity of the Rat Cochlea**
Nakayama M, Tabuchi K, Nishimura B, Nakamagoe M, Hara A (Japan)
- 202 **Redox Imbalance in Styrene Ototoxicity and Acoustic Trauma: in vivo Protective Effect of Q-ter**
Fetoni AR, Rolesi R, Paciello F, Eramo SML, Paludetti G, Troiani D (Italy)
- 203 **Protective Effects of Curcumin against Cisplatin Induced Hearing Loss in vitro and in vivo Studies**
Fetoni AR, Mezzogori D, Eramo SML, Paciello F, Rolesi R, Paludetti G, Troiani D (Italy)
- 204 **In vivo Overexpression of X-linked Inhibitor of Apoptosis Protein Protects against Neomycin-induced Hair Cell Loss in the Apical Turn of the Cochlea during the Ototoxic-sensitive Period**
 Sun S, Zhang YP, Sun MZ, Cheng C, Waqas M, Yu HQ, He YZ, Xu B, Wang L, Yin SK, Cha RJ, Li HW (China)
- 205 **CTP Detection Test and Idiopathic Sudden Sensorineural Hearing Loss**
Shibasaki O, Ikezono T, Matsuda H, Matsumura T, Saito S, Ito A (Japan)
- 206 **Protective Effect of Resveratrol against Cisplatin-induced Ototoxicity in HEI-OC1 Auditory Cells**
 Lee SH, Kim HS, An YS, Chang J, Choi J, Im GJ (Korea)
- 207 **Clinical Characteristics and Course of Recurrent Vestibulopathy Following Diuretics**
Ahn S-K, Hur DG, Ko J-S, Won S-J (Korea)
- 208 **Changes in Eye Movements Elicited by a Vestibular Prosthesis Following Ototoxic Lesioning**
Phillips C, Shepherd SJ, Nowack A, Nie K, Rubinstein JT, Ling L, Phillips JO (USA)
- 209 **Control of Vestibular Symptoms in Patients with Meniere's Disease Using Middle Ear Pressure Applications**
Futaki T, Fukaya T (Japan)
- 210 **The Endolymphatic Sac is the Primary Immunological Organ of the Human Inner Ear**
Nue Møller M, Kirkeby S, Vikeså J, Cilius Nielsen F, Cayé-Thomasen P (Denmark)
- 211 **Influence of Tinnitus on Auditory Spectral and Temporal Resolution, and Speech Perception Ability in Tinnitus Patients**
Kim DH (Korea), Kang HW (Korea), An YH (Korea), Won JH (USA), Shim HJ (Korea)

- 212 **A Population-based Cohort Study of Tinnitus in Japan**
Sugiura S, Nakashima T, Yasue M, Uchida Y, Otsuka R, Ando F, Shimokata H (Japan)
- 213 **Difference of Autoantibody between Meniere's Disease and Bilateral Sudden Hearing Loss : Is There a Different Autoimmunity Mechanism?**
Kim HJ, Roh KJ, Kim BG, Choi JY , Kim SH (Korea)
- 214 **Results on Video Head Impulse Test Differ from Those on Caloric Testing in the Patients with Meniere's Disease**
Seo T , Kobayashi T, Miyashita M, Saito K, Doi K (Japan)
- 215 **Increased Risk of Stroke and Post-stroke Mortality in Patients with Meniere's Disease: Two Nationwide Studies**
Liao C-C, Chen T-L (Taiwan)
- 216 **Triple Combined Intravenous and Intratympanic Steroid, Hyperbaric Oxygen Therapy for Severe Idiopathic Sudden Sensorineural Hearing Loss**
Kawano T, Ishitoya J, Sakuma Y, Matsuura T, Ikoma R, Takahashi M, Oridate N (Japan)
- 217 **Controlled Release of Dexamethasone Protects TNF alpha Apoptosis of Auditory Hair Cells**
Horie RT, Saito T, Jo J, Tabata Y (Japan)
- 218 **Translational Research of Meniere's Disease; Morphological Changes of the Stria Vascularis in Animal Model**
Nishimura M, Kakigi A, Takeda T, Takeda S, Okada T, Sato H (Japan)
- 219 **Otoprotective Treatments: Pharmacokinetic Properties of Adenosine Amine Congener (ADAC) in Rat Plasma and Cochlea**
Chang H, Telang RS, Sreebhavan S, Tingle M, Thorne PR, Vljakovic SM (New Zealand)
- 220 **Liposome-Encapsulated Hemoglobin Alleviates Hearing Loss after Transient Cochlear Ischemia**
Okada M, Kawaguchi AT, Hakuba N, Hyodo J, Hato N, Gyo K (Japan)
- 221 **Screening for Protective Effect in Kampo (Herbal Medicine) Using the Zebrafish Lateral Line Hair Cell**
Hirose Y, Sugahara K, Yamashita H (Japan)
- 222 **Enhancing the Cochlear Protection of X-linked Inhibitor of Apoptosis Protein by Using Arginine-rich Cell-penetrating Peptide**
Kurioka T, Matsunobu T, Minoda R, Miwa T, Yamada T, Mizutari K, Niwa K, Tamura A, Shiotani A (Japan)
- 223 **Intra-tympanic Injection of Isosorbide for Endolymphatic Hydrops in Guinea Pig**
Kim M, Do KH, Kim KS (Korea)
- 224 **The Change of Vocal Performance according to Cochlear Implantation: for 1 year**
Oh S-J, Kong S-K, Lee I-W, Goh E-K (Korea)
- 225 **Cochlear Implantation in Patients with Eosinophilic Otitis Media**
Takahashi M, Sudo N, Isono Y, Arai Y, Sakuma N, Oridate N, Iwasaki S (Japan)
- 226 **Evaluation of Intraoperative Electrically Evoked Auditory Brainstem Response Findings in Patients with Bilateral Cochlear Implants**
Kishimoto I, Yamazaki H, Fujiwara K, Shinohara S, Kikuchi M, Suehiro A, Tona R, Harada H, Kuwata F, Moroto S, Yamamoto R, Naito Y (Japan)
- 227 **Reversed Internal Magnet of Cochlear Implant after Magnetic Resonance Imaging**
Oh S-J, Jeong H-J (Korea)



- 228 **Outcome of Bilateral Cochlear Implantation for Children with SNHL**
Matsui T, Ogawa H, Yamada N, Baba Y, Suzuki Y, Nomoto M, Omori K (Japan)
- 229 **The Basal Turn: Variability of an Ideal Insertion Vector for Cochlear Implantation**
Breinbauer HA (Germany, Chile), Plinkert PK (Germany), Praetorius MJ (Germany)
- 230 **Real-time Impedance Measurement for Intracochlear Electrode Insertion**
Tan C-T (USA), Svirsky M (USA), Anwar A (USA), Kumar S (Australia), Caessens B (Australia), Treaba C (Australia), Carter P (Australia), Roland JT Jr (USA)
- 231 **Observation of Cortical Activity During Speech Stimulation in Prelingually-Deaf Adolescent and Adult Patients with Cochlear Implantation by PET-CT**
Yoshida H, Kanda Y, Usui T, Miyamoto I, Tiba K, Takahashi H (Japan)
- 232 **The Effect of the Cochlear Implantation in Teenagers with Progressive Hearing Loss**
Kitaoka K, Takahashi H, Kanda Y (Japan)
- 233 **The Strategy of Cochlear Implantation in Patients with Chronic Otitis Media**
Kanai R, Kanemaru S, Nishida A, Yamamoto M, Maetani T, Yamashita M, Furuta I, Kitada Y (Japan)
- 234 **Localization of Kainate Receptors in Inner and Outer Hair Cell Synapses**
Fujikawa T (Japan, USA), Petralia RS (USA), Fitzgerald TS (USA), Wang YX (USA), Millis B (USA), Kitamura K (Japan), Kachar B (USA)
- 235 **A Rare Case of Meningeal Carcinomatosis with Multiple Nerve Palsy, Deaf and Facial Palsy**
Ida Y, Yasuda M, Sasaki Y, Sugo N, Edamatsu H (Japan)
- 236 **Audiologic Tests Results of Patients Referred from Newborn Hearing Screening Program**
Song CI, Kang HS, Ahn JH (Korea)
- 237 **Effect of Edaravone on Acute Brainstem-cerebellar Infarction with Vertigo and Sudden Hearing Loss**
Inoue Y, Yabe T, Okada K (Japan)
- 238 **Analysis of the Input/Output Functions of Different Components of Otoacoustic Emissions**
Moleti A, Sisto R (Italy)
- 239 **New Otolith and Semicircular Functional Test Using Eccentric Center Rotation**
Okumura T, Imai T, Takimoto Y, Inohara H (Japan)
- 240 **Ex vivo MR Histology of Nerve Fibers in a Human Temporal Bone by High-resolution Diffusion Tensor Imaging Using 9.4 T MRI**
Fujioka M, Hikishima K, Oishi N, Ohta H, Kawai Y, Kawaura M, Ogawa K, Okano H (Japan)
- 241 **Three-dimensional Analysis of the Eye Movement of a Patient Whose Lateral Semicircular Canal Has Morphological Malformation**
Higashi-Shingai K, Imai T, Kitahara T, Ohta Y, Morihana T, Inohara H (Japan).
- 242 **Temporal Changes of c-Fos Expression in Medial Vestibular Nuclei after Unilateral Chemical Labyrinthectomy in Rats**
Lee H, Kim H (Korea)
- 243 **Clearing of the Mouse Temporal Bone Using a Modified SeeDB Protocol**
Cook R, Shimizu N, Tamura A, Perachio A, Makishima T (USA)
- 244 **Evaluation of the Endolymphatic Hydrops of Guinea Pigs Using Optical Coherence Tomography**
Kakigi A, Takubo Y, Egami N, Matsumoto Y, Sakamoto T, Yamashita S, Yamasoba T (Japan)

- 245 **Highlighting Small Contrast Agent Variations in Cochlear DCE-MRI using VIBE Sequences**
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- 246 **Preliminary Results of TEN(HL) Test for Patients with Sensorineural Hearing Loss in South Korea**
Lee HY, Park SK, Cho CS (Korea)
- 247 **3D-imaging of Optical Coherence Tomography for Endolymphatic Hydrops Model**
Jang JH, Cho NH, Jung WG, Kim JH, Lee SH (Korea)
- 248 **Morphofunctional Alterations in the GASH:Sal Induced by Audiogenic Kindling**
Hernández-Noriega S (Spain), Sánchez-Benito D (Spain), Côrtes de Oliveira JA (Brazil), Garcia Cairasco N (Brazil), López DE (Spain), Sánchez C (Spain), Castellano C (Spain)
- 249 **Espin-like is a Novel Myosin III Cargo, which Participates in the Regulation of Stereocilia Length**
Ebrahim S, Grati M, Windsor A, Dong L, Millis BA, Cui R, de Sousa A, Salles FT, Raval M, Yengo CM, Kachar B (USA)
- 250 **Alterations in the Efferent System in the Epileptic Hamster GASH:Sal**
Sánchez-Benito D (Spain), Hernández-Noriega S (Spain), Hyppolito MA (Brazil), Gómez-Nieto R (Spain), Castellano O (Spain), Muñoz LJ (Spain), Batista Murashima A (Brazil), Garcia-Cairasco N (Brazil), Morujo A (Spain), López DE (Spain)
- 251 **Labyrinthine Fistulae Secondary to Middle Ear Cholesteatoma**
Gyo K, Miura M, Ikeda H, Takebayashi S, Ohno S, Yasumoto A, Hayashi Y (Japan)
- 252 **Hearing Loss in Xeroderma Pigmentosum (XP) and Mechanism of Inner Ear Disorder**
Yamashita D, Fujita T, Shinomiya H, Inokuchi G, Hasegawa S, Nibu K (Japan)
- 253 **Effects of Caffeic Acid on Cisplatin-induced Hair Cell Damage in HEI-OC1 Auditory Cells**
Choi J, Chae SW, Lee JD, Lee BD, Park MK (Korea)
- 254 **The Effect of Microgravity on mRNA Expression in the Vestibular Endorgans: Comparison of the 90- day and 15-day Space Flight**
Takumi Y (Japan), Oguchi T (Japan), Suzuki N (Japan), Nishio S (Japan), Boyle R (USA), Usami S (Japan)