Key Note Lecture
June 3rd (Sun) 11:45-12:30
Moderator: Ken Kitamura  Tokyo Medical & Dental University Graduate School
Revised Surgical Strategy on Schwannomas in Otolaryngology
Speaker: Won Sang Lee, MD.  Department of otorhinolaryngology, Yonsei university health system

Symposium 1 / Implantable Devices1  June 2nd (Sat) 13:15-14:35
Moderator: Tatsuya Yamasoba  University of Tokyo, Japan
Michael Tong  The Chinese University of Hong Kong, Hong-Kong

S1-1-1 Experiences of Implantable Devices in Taiwan
Chuan Jen Hsu  Department of Otolaryngology, National Taiwan University, Taipei, Taiwan

S1-1-2 Cochlear Implants and Implantable Hearing Devices: PNEI Experience
Charlotte M. Chiong  Department of O.R.L., University of the Philippines College of Medicine; Philippine National Ear Institute (PNEI), National Institutes of Health, University of the Philippines Manila, Philippines

S1-1-3 New Trends in Cochlear Implantation - Atraumatic Surgery and Hearing Preservation -
Shin-ichi Usami  Department of Otorhinolaryngology Shinshu University School of Medicine, Japan.

S1-1-4 Post-Cochlear Implant Infections
Wong-Kein C. Low  Dept of Otolaryngology, Singapore General Hospital, Singapore

Symposium 1 / Implantable Devices2  June 2nd (Sat) 15:00-16:00
Moderator: Tatsuya Yamasoba  University of Tokyo, Japan
Michael Tong  The Chinese University of Hong Kong, Hong-Kong

S1-2-1 Management of Canal Atresia: Baha or Canalplasty
Lokman Saim  Department of Otorhinolaryngology, UKM Medical Center, Kuala Lumpur, Malaysia

S1-2-2 Sub-Facial Approach is an Effect Way in Round Window Vibroplasty for Some Cases with Severe Atresia
Pu Dai  Department of Otolaryngology Head and Neck Surgery, Chinese PLA General Hospital, Beijing, China

S1-2-3 Vibration Transducer Design for Round Window Stimulation Implantable Hearing Device
Sang-Heun Lee  Department of Otolaryngology-Head and Neck Surgery, School of Medicine, Kyungpook National University, Korea

Symposium 2 / Current Issues of Middle Ear Disease  June 2nd (Sat) 16:10-17:50
 Moderator: Masafumi Sakagami  Hyogo College of Medicine, Japan
Kwang-Sun Lee  Asan Medical Center. University of Ulsan, Seoul, Korea

S2-1 Staging of Middle Ear Cholesteatoma Proposed by Japan Otological Society
Tetsuya Tono  Department of Otorhinolaryngology, University of Miyazaki, Miyazaki, Japan

S2-2 Chronic Otitis Media with Cholesteatoma: Clinical Characteristics and CT findings in 128 patients
Tan Ba Huynh  International ENT Hospital, SIC, Danang, Vietnam

S2-3 Canal Wall up and Canal Wall Down Mastoidectomy – Is it still Controversial?
Yeo Seng Beng  ***********************************************

S2-4 Remodeling of the Canal Using Autologous Costal Cartilage
Yong Beom Cho  Department of Otolaryngology Head & Neck Surgery, Chonnam Nat’l Univ. Hospital, Kwangju, Korea

S2-5 Stapes Surgery in Patient with Otosclerosis - Hearing Outcome & Multivariate Analysis of Prognostic Factors
An-Suey Shiao  Taipei Veterans General Hospital, Taiwan
Symposium 3 / Current Issues of Facial Nerve Disorders  
June 3rd (Sun)  9:30-10:30
Moderator :  Sho Hashimoto  National Sendai Medical Center, Japan
Chuan Jen Hsu  Department of Otolaryngology, National Taiwan University, Taiwan

S3-1  History and Current Topics of Facial Nerve Research in Japan  
Shingo Murakami  Department of Otolaryngology, Head and Neck Surgery Nagoya City University, Medical School, Nagoya, Japan

S3-2  Management of the Facial Nerve Tumors  
Yang-Sun Cho  Dept. of Otorhinolaryngology, Samsung Medical Center Sungkyunkwan University, School of Medicine, Korea

S3-3  Facial Nerve Management in Lateral Skull Base Surgery  
Wu Hao  Ear Institute Shanghai Jiaotong University School of Medicine, China

Symposium 4 / Idiopathic Sudden Sensorineural Hearing Loss  
June 3rd (Sun)  9:30-10:30
Moderator :  Kaoru Ogawa  School of Medicine Keio University, Japan
Dong-Yi Han  Otolaryngology, Head & Neck Surgery Hospital Chinese PLA General Hospital, President-designate of Chinese Otolaryngology-Head & Neck Surgery Society, China

S4-1  Transtympanic Steroid Injection for Salvage Treatment of ISSHL  
Hung-Ching Lin  The Department of Otolaryngology, Mackay Medical College & Mackay Memorial Hospital, Taiwan

S4-2  Efficacy of Intratympanic Steroid Therapy for Sudden Sensorineural Hearing Loss; Comparison with Systemic Steroid Therapy and Combined Therapy  
Sang Won Yeo  The Catholic University of Korea, Seoul, Korea

S4-3  Social Impact of Idiopathic Sudden Sensorineural Hearing Loss in Japan  
Hajime Sano  Department of Otorhinolaryngology, the School of Medicine, Kitasato University, Sagamihara, Japan

Symposium 5 / Basic Science  
June 3rd (Sun)  10:30-11:45
Moderator :  Tsutomu Nakashima  Nagoya University Graduate School of Medicine, Japan
Chong-Sun Kim  Seoul National University, Korea

S5-1  Generating Mouse Models of Early Stages of Degenerative Diseases Using Cre/lox-mediated in Vivo Mosaic Cell Ablation  
Masato Fujioka  Department of Otolaryngology, Head and Neck Surgery, School of Medicine, Keio University, Tokyo, Japan
Department of Otorhinolaryngology, Keiyu Hospital, Kanagawa, Japan
Department of Physiology, School of Medicine, Keio University, Tokyo, Japan
Eaton-Peabody Laboratory, Massachusetts Eye and Ear Infirmary, Boston MA, U.S.A

S5-2  Mechanotransduction in Inner Ear Hair Cells Requires Transmembrane Channel-Like Genes 1 or 2  
Yoshiyuki Kawashima  Department of Otolaryngology, Tsuichiura Kyodo General Hospital, Tsuichiura, Japan
Molecular Biology and Genetics Section, National Institute on Deafness and Other Communication Disorders (NIDCD), NIH, Rockville, Maryland, USA
Department of Otolaryngology, Tokyo Medical and Dental University, Tokyo, Japan

S5-3  Genotype and Phenotype Correlation in Patients with Pendrin Mutation  
Jae Y. Choi  Soree ENT, Korea

S5-4  The Phosphorylation Status of Merlin in Sporadic Vestibular Schwannomas  
Zhaoyan Wang  Dept. of Otolaryngology Head & Neck Surgery, Xinhua Hospital Shanghai Jiaotong University School of Medicine, Shanghai, China

S5-5  Making Genetic Diagnosis in Multiplex Families with Hereditary Hearing Impairment Using Next Generation Sequencing  
Chen-Chi Wu  Department of Otolaryngology, National Taiwan University Hospital, Taipei, Taiwan
Department of Medical Genetics, National Taiwan University Hospital, Taipei, Taiwan
**Oral / Device1**

**Moderator:** Seung Ha Oh  Seoul National University College of Medicine, Korea
Willis Tsang  The Chinese University of Hong Kong, Hong-Kong

**O-01** Current Opinions in Managing Congenital Ears-Hong Kong Experiences
**Willis Tsang** Dept. of Otorhinolaryngology, Head & Neck Surgery, The Chinese University of Hong Kong, China

**O-02** Clinical Experience of Middle Ear Implant with Vibrant Soundbridge in Conductive or Mixed Hearing Loss (5 cases)
**Qi Huang** Dept. of Otologyngology Head & Neck Surgery, Xinhua Hospital Shanghai Jiaotong University School of Medicine, Shanghai, China

**O-03** Cochlear Implantation in Radical Mastoidectomy Experience in Riyadh
**Mohammed Attallah** ORL Department, King Abdulaziz Univ. Hospital, Faculty of Medicine, King Saud University Riyadh, Saudi Arabia

**O-04** Strategy for Bilateral Sequential Cochlear Implantations in Children
**Juyong Chung** Department of Otorhinolaryngology, Seoul National University, Seoul, Korea

**O-05** Cochlear Nerves in the Inner Ear Malformations; Importance of the Bony Cochlear Nerve Canal
**Kwang Sun Lee** Dept of Otolaryngology, Asan Medical Center, Seoul, Korea

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**Oral / Middle Ear 1-1**

**Moderator:** Yukiko Iino  Jichi Medical University Saitama Medical Center, Japan
Hung-Pin Wu  Buddhist Tzu Chi General Hospital, Taichung Branch, Tzu Chi University, Taiwan

**O-06** Anti-IgE Therapy for Eosinophilic Otitis Media
**Yukiko Iino** Department of Otolaryngology, Jichi Medical University Saitama Medical Center, Saitama, Japan

**O-07** Pneumolabyrinth Associated with Ear Trauma: Gas Bubble Location and Hearing Outcomes
**Hiroshi Hidaka** Departments of Otolaryngology-HNS, Tohoku University Graduate School of Medicine, Japan

**O-08** Surgical Outcome of the 27 cases of Congenital Ossicular Malformation
**Shigefumi Morioka** Department of Otolaryngology-Head and Neck Surgery, Kyoto Prefectural University of Medicine, Kyoto, Japan

**O-09** Operative Findings of Conductive Hearing Loss with Intact Tympanic Membrane and Normal Temporal Bone Computed Tomography
**Se-Hyung Kim** Department of Otorhinolaryngology, Jeju National University Hospital, Jeju, Korea

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**Oral / Middle Ear 2-1**

**Moderator:** Toshimitsu Kobayashi  Toboku University, Japan
Dong-yi Han  Otolaryngology,Head & Neck Surgery Hospital Chinese PLA General Hospital, President-designate of Chinese Otolaryngology-Head & Neck Surgery Society, China

**O-10** Operative Technique Selection for Pediatric Cholesteatoma
**Huan Jia** Dept. of Otolaryngology Head & Neck Surgery, Xinhua Hospital Shanghai Jiaotong University School of Medicine, Shanghai, China

**O-11** Outcomes of Cholesteatoma Surgery in Children
**Qi Huang** Dept. of Otolaryngology Head & Neck Surgery, Xinhua Hospital Shanghai Jiaotong University School of Medicine, Shanghai, China

**O-12** Management of Temporal Bone Langerhans Cell Histiocytosis in Children
**Zhaoyan Wang** Dept. of Otolaryngology Head & Neck Surgery, Xinhua Hospital Shanghai Jiaotong University School of Medicine, Shanghai, China

**O-13** Middle Ear Operation in Cleft Palate Patients
**Hitome Kobayashi** Department of Otorhinolaryngology, Showa University School of Medicine,Tokyo, Japan

**O-14** Recurrent Meningitis and Cerebrospinal Fluid Leakage with Inner Ear Malformation: Plugging a Fistula in the Stapes Footplate
**Shinji Urata** Department of Otorhinolaryngology, Faculty of Medicine, The University of Tokyo, Tokyo, Japan
Department of Otorhinolaryngology, Medical Center, Saitama Medical University, Saitama, Japan
Oral / Idiopathic Sudden Sensorineural Hearing Loss 1  June 3rd (Sun)  14:00-15:00

Moderator :  Makito Okamoto  Kitasato University Hospital, Japan  
               Wong Kein Low  Singapore General Hospital, Singapore

O-15  Clinical Feature and Prognostic Factors of Profound Sudden Sensorineural Hearing Loss  
Yu-Hsuan Wen  Taichung Tzu-Chi Hospital, Taichung, Taiwan

O-16  Intratympanic Dexamethasone is Effective Method as Salvage Treatment in Ruptured Sudden Hearing Loss  
In Seok Moon  Department of Otorhinolaryngology, Inje University College of Medicine, Goyang, Korea

O-17  Comparison of Intratympanic Steroid Injection and Transtympanic Steroid Perfusion as Salvage Treatments for Sudden Sensorineural Hearing Loss  
Yuan-Jhen Hsu  The department of otorhinolaryngology-head and neck surgery, Taipei Tzu Chi General hospital, New Taipei City, Taiwan

O-18  Therapeutic Effects of Carbogen Inhalation and Lipo-prostaglandin E1 in Sudden Hearing Loss  
In Seok Moon  Yonsei University College of Medicine, Seoul, Korea

O-19  Hematopoietic Stem Cells Prevent Hair Cell Death after Transient Cochlear Ischemia  
Taro Takagi  Department of Otolaryngology, Ehime University Scool of Medicine, Japan

Oral / Middle Ear 3-1  June 3rd (Sun)  15:00-16:00

Moderator :  Sugata Takahashi  Niigata University, Japan  
               Hao Wu  Xinhua Hospital Shanghai Jiaotong University School of Medicine, China

O-20  Results of Anterior Facial Nerve Rerouting Procedures for Removing Skull Base Tumors  
Jong Woo Chung  Department of Otolaryngology, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea

O-21  Malignant External Otitis in the Exenterated Temporal Bone by Mastoidectomy -A case report  
Tomoaki Murakami  Department of Otolaryngology, Tokai University, School of Medicine, Japan

O-22  Stapes Management in Tympanosclerosis  
Ali Koushi  Otorhinolaryngology research center, Amir-Alam hospital, Tehran University of Medical Sciences, Iran

O-23  A case of Van Der Hoeve Syndrome Presenting with Severe Progressive Hearing Loss and Otic Capsule Demineralization  
Yuka Morita  Department of Otolaryngology, Faculty of Medicine, Niigata University, Niigata, Japan

O-24  Auditory Outcomes in Canal Wall Down Tympanoplasty with Single Stage Ossiculoplasty  
Zhihua Zhang  Dept. of Otolaryngology Head & Neck Surgery, Xinhua Hospital Shanghai Jiaotong University School of Medicine, Shanghai, China

Oral / Basic Science 1  June 3rd (Sun)  15:00-16:12

Moderator :  Nozomu Mori  Department of Otolaryngology, Kagawa University, Japan  
               Pu Dai  Chinese PLA General Hospital, Beijing, China

O-25  Mitochondrial DNA Haplogroup Analysis Associated with Presbycusis in a Japanese Population  
Tomofumi Kato  Otolaryngology, Tokyo Metropolitan Geriatric Hospital, Tokyo, Japan

O-26  Endothelin-1 Gene Polymorphism in Sudden Sensorineural Hearing Loss  
Yasue Uchida  Department of Otorhinolaryngology, Aichi Medical University, Japan  
Department of Otorhinolaryngology, National Center for Geriatrics and Gerontology, Aichi, Japan

O-27  A Molecular Crosstalk between Nrf2/Keap1 Pathway in Auditory Cells  
Ken Hayashi  The Department of Otolaryngology, Shinkawa Clinic, Kanagawa, Japan

O-28  N-acetylcysteine Attenuates Noise Induced Permanent Hearing Loss in Diabetic Rats  
Hung-Pin Wu  Buddhist Tzu Chi General Hospital, Taichung Branch, Tzu Chi University, Taiwan

O-29  Immunolocalization of Aquaporins and Vasopressin V2 Receptor in The Rat Vestibule and Semicircular Canal  
Akinobu Kakigi  Department of Otolaryngology, Faculty of Medicine, The University of Tokyo, Tokyo, Japan

O-30  Ultrasound-triggered microbubbles facilitating the delivery of drugs to the inner ear  
Chih-Hung Wang  Department of Otolaryngology-Head and Neck Surgery, Tri-Service General Hospital, National Defense Medical Center, Taipei, Taiwan
Oral / Hearing Disorder 1-1

Moderator: Shizuo Komune
Kyushu University, Japan
Ki-Hong Chang
The Catholic University of Korea, Korea

O-31 Masking by Lower-level Broadband Noise Observed in Patients with Auditory Neuropathy
Kazuha Oda
Department of Otolaryngology-Head and Neck Surgery, Tohoku University Graduate School of Medicine, Sendai, Japan

O-32 Abnormal White Matter Integrity in Prelingual and Postlingual Deaf
Kyu-Hee Han
Department of Otorhinolaryngology, Seoul National University Bundang Hospital, Korea

O-33 Screening for Delayed-onset Hearing Loss in Preschool Children who Previously Passed the Newborn Hearing Screening
Jingrong Lv
Department of Otolaryngology Head & Neck Surgery, Xinhua Hospital Shanghai Jiaotong University School of Medicine, Shanghai, China

Oral / Vestibular Disorder 2-1

Moderator: Nobuhiko Furuya
Gunma University, Japan
Chih-Hung Wang
Tri-Service General Hospital, National Defense Medical Center, Taiwan

O-34 Surgical Management of Meniere Disease
Chen Ying
Department of Otolaryngology Head & Neck Surgery, Xinhua Hospital Shanghai Jiaotong University School of Medicine, Shanghai, China

O-35 Convergence Nystagmus with Difficulty in Reading Book, Cured by Transmastoid Galvanic Vestibular Stimulation (Movie)
Toru Sekitani
ENT Department, Ube Rehabilitation Hospital, Ube, Yamaguchi, Japan

Poster 1 / Middle Ear Disorder

Moderator: Charlotte Choing
Department of ORL, University of the Philippines College of Medicine; Philippine National Ear Institute (PNEI), National Institutes of Health, University of the Philippines Manila, The Philippines

Seung Hyo Choi
The Department of Otolaryngology, Jeju National University College of Medicine, Jeju, Korea

P1-2 Canal Wall Reconstruction with the Use of Sliced Auricular Cartilage in Radicalized Ear
Keiji Matsuda
University of Miyazaki, Japan

P1-3 Remodeling of the Canal Using Autologous Costal Cartilage in Canal Wall Down Mastoidectomy
Yong Beom Cho
Department of Otolaryngology-Head and Neck Surgery, Chonnam National University Medical School, Gwangju, Korea

P1-4 Clinical Characteristics of the Secondary Cholesteatoma of the Middle Ear
Hiromi Kanazawa
Jichi medical University Saitama Medical Center, Japan

P1-5 Complex Case of Petrous Bone Cholesteatoma Operated with Combined Fisch Infratemporal Fossa type B with Transotic Approach
Makoto Ito
Department of Otolaryngology, Clinical Neuroscience, Kanazawa University Graduate School of Medical Science, Kanazawa, Japan

P1-6 A Case of Otogenic Brain Abscess Presenting with Gait Ataxia
Inhyo Lee
Department of otolaryngology, Soonchunhyang Univ., Hannam-dong, Yongsan-gu, Seoul, Korea

P1-7 Intracranial Complications due to Acute/Chronic Otitis Media and Cholesteatoma Otitis Media
Mie Miyashita
Department of Otolaryngology, Head & Neck Surgery, Faculty of Medicine, Kinki University, Japan

P1-8 Full Scale Three-dimensional Temporal Bone Model: an Application for Surgical Training and Simulation
Atsunobu Tsunoda
Department of Otolaryngology, School of Medicine, Tokyo Medical and Dental University, Japan
## Poster 2 / Basic Science

**Moderator:** Taeko Okuno  
Mistui Memorial Hospital, Japan  
**June 3rd (Sun)  13:15-14:00**

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<th>Title</th>
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| P2-1 | Earwax Genotype as a Risk Factor of Middle Ear Cholesteatoma | Daiki Takagi  
Department of Otolaryngology, Head and Neck Surgery, School of Medicine, Ehime-University, Ehime, Japan |
| P2-2 | Analysis of Sirt3 Gene and Mitochondrial Genome in Japanese Patients with Presbycusis | Hisashi Ohtsuka  
Department of Otolaryngology and Head and Neck Surgery, Iwate Medical University, Japan |
| P2-3 | Age-related Hearing Loss in Animal Model of Diabetes with Obesity | Kazuma Sugahara  
Department of Otolaryngology, Yamaguchi University Graduate School of Medicine, Japan |
| P2-4 | Hearing Loss and Mechanism in Xeroderma Pigmentosum (XP) | Daisuke Yamashita  
Department of Otolaryngology-Head and Neck Surgery, University of Kobe, Kobe, Japan |
| P2-5 | Gene Expression Analysis of Inner Ear Cells from Formalin Fixed Paraffin Embedded Archival Temporal Bone Section using Laser Microdissection | Yurika Kimura  
Department of Otolaryngology, Tokyo Metropolitan Geriatric Hospital, Tokyo, Japan  
Research Team for Geriatric Medicine, Tokyo Metropolitan Institute of Gerontorology, Tokyo, Japan  
Department of Otolaryngology, Tokyo Medical and Dental University, Tokyo, Japan |
| P2-6 | Administration of Glucocorticoid Attenuates Intracochlear Cell Transplantation Trauma-induced Hearing Loss | Yi-Tsen Lin  
Department of Otolaryngology, National Taiwan University Yun-Lin Branch, Yun-Lin, Taiwan |
| P2-7 | Presence of Adrenergic Receptors in the Rat Endolymphatic Sac Epithelial Cells | Ai Matsubara  
Department of Otolaryngology, Faculty of Medicine, Kagawa University, Kagawa, Japan |
| P2-8 | PKC-dependent Phosphorylation Processes Contribute to the Decrease in the Endocochlear Potential induced by the Transient Asphyxia | Takaki Inui  
Department of Otolaryngology, Osaka Medical College, Osaka, Japan |
| P2-9 | Distribution of the melanocyte in the skin of the human external auditory canal associating gland cells | Yong Joo Yoon  
Department of Otolaryngology-Head and Neck Surgery, College of Medicine, Chonbuk National University, Chonju, Korea |

## Poster 3 / Audiovestibular Disorder

**Moderator:** Lokman Saim  
University Kebangsaan Malaysia Medical Center, Malaysia  
**June 3rd (Sun)  13:15-14:00**

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| P3-1 | Threshold of Temporal Gap Detection in Patients with Sensorineural Hearing Loss and with Functional Hearing Loss | Atsushi Ochi  
Kameda Medical Center, Japan |
| P3-2 | Delayed Perilymphatic Fistula in Temporal Bone Fracture Caused by Chronic Subdural Hematoma | Naoyuki Kanoh  
Department of Neurosurgery, Nishinomiya-Kyouritu Neurosurgical Hospital, Nishinomiya, Japan |
| P3-3 | Effects of Corticosteroids or Diuretics in Acute Low-Tone Sensorineural Hearing Loss | Chang-Hyun Cho  
Department of Otorhinolaryngology, Gachon University, Incheon, Korea |
| P3-4 | Endolymphatic Hydrops in Patients with Tinnitus as First Complaint | Tadao Yoshida  
Department of Otorhinolaryngology, Nagoya University Graduate School of Medicine, Nagoya, Japan |
| P3-5 | Intratympanic Steroid Treatment for Idiopathic Sudden Sensorineural Hearing Loss after Failure of Systemic Steroid Treatment | Toshiro Kawano  
Nishi Yokohama International Hospital, Yokohama, Japan |
| P3-6 | The Combination Effects of Early Intratympanic Dexamethasone Injection for the Patients with Sudden Sensorineural Hearing Loss | Hyun Jung Min  
Department of Otolaryngology-Head and Neck Surgery, College of Medicine, Hanyang University, Seoul, Korea |
| P3-7 | Treatment of Hearing Gain-Failed Idiopathic Sudden Hearing Loss: Intratympanic Steroid Injection vs. Oral Steroids | Youngseok Choi  
Department of Otorhinolaryngology, Chungbuk National University Hospital, Cheongju, Korea |
| P3-8 | Application of Vibrant Soundbridge RW-Coupler for Pathology of Round Window with Tympanosclerosis | Satoshi Iwasaki  
Department of Hearing Implant Sciences, Shinshu University School of Medicine, Matsumoto, Japan |
| P3-9 | The Noninvasive, Accurate and Instant Registration Method for Image-guided Cochlea Implant Surgery | Masamichi Oka  
Department of Otorhinolaryngology, Faculty of Medical Sciences, Kyushu University, Fukuoka, Japan |
Poster 4 / External Ear Canal, Facial Nerve, Skull Base       June 3rd (Sun)  13:15-14:00

Moderator : Yang-Sun Cho  Samsung Medical Center Sungkyunkwan University, Korea

P4-1 An Alternative In-the-Canal Hearing Aids Ear Impression Moulds Technique Using High-Resolution Computed Tomography
Kuo-Wei Huang  Graduate Institute of Mechanical and Electrical Engineering, National Taipei University of Technology, Taipei, Taiwan

P4-2 Case Series of Primary External Auditory Canal Cholesteatoma
Yasutaka Kojima  The Department of Otolaryngology, Mitsui Memorial Hospital, Tokyo, Japan

P4-3 Surgical Treatment of Medial Meatal Fibrosis
Akira Ganaha  Department of Otorhinolaryngology-Head and Neck Surgery, University of the Ryukyus, Okinawa, Japan

P4-4 Subtotal Temporal Bone Resection for the Recurrent External Auditory Canal Cancer after Proton Beam Therapy: Case Report
Naoki Sawada  Department of Otolaryngology-Head and Neck Surgery, Kobe University Graduate School of Medicine, Japan

P4-5 How Much Associated is Varicella-Zoster Virus with Facial Palsy?
Masashi Hamada  Department of Otolaryngology, Tokai University, School of Medicine, Isehara, Japan

P4-6 Facial Nerve Decompression in the Treatment of Peripheral Facial Nerve Palsy
Ki-Hong Chang  Dept. of Otolaryngology-HNS, Yonsei St. Mary’s Hospital, The Catholic University of Korea, Seoul, Korea

P4-7 Long-Term Antibiotic Therapy for Skull Base Osteomyelitis: A Case Report and Proposal for Standard Treatment
Kuniyuki Takahashi  Department of Otolaryngology, Niigata University Faculty of Medicine, Niigata City, Japan

P4-8 A Juvenile Internal Auditory Canal Tumor with Rapidly Progressive Hearing Loss and Facial Palsy
Tomoko Yamaguchi  The Department of Otorhinolaryngology Kitasato University School of Medicine, Kanagawa, Japan

P4-9 Our Surgical Strategy for Acoustic Neuroma
Keiji Takemura  The Department of Otorhinolaryngology, Nagoya City University, Aichi, Japan

Luncheon Seminar       June 3rd (Sun)  12:30-13:15

Moderator : Takashi Nakagawa  Department of Otolaryngology, Fukuoka University

Pharmacological Management of Dizzy Patients
Speaker : Noriaki Takeda  Department of Otolaryngology, University of Tokushima School of Medicine