2024

Yonsei Team Science Award Symposium:

Precision Therapeutics for Hearing Loss

| DATE | 4 October (FRI), 2024

| VENUE | NEWILHAN Memorial Hall, Avison BioMedical Research Center (ABMRC), Yonsei University College of Medicine

REGISTRATION

08:40–08:45	Welcome remarks	Sung Huhn Kim (Director of Won-Sang Lee Institute for Hearing Loss, Korea)
08:45–10:35	Gene replacement therapy	Chair: Sung Huhn Kim (Yonsei Univ, Korea)
08:45–09:15	Advances and challenges in gene therapy for hereditary hearing loss	Hidekane Yoshimura (Shinshu Univ, Japan)
09:15–09:45	Gene therapy for auditory neuropathy	Chen-Chi Wu (Taiwan Nat'l Univ, Taiwan)
09:45–10:15	Development of inner ear gene therapy as a treatment for Usher syndrome	Wade Chien (Johns Hopkins School of Medicine)
10:15–10:35	Gene therapy for Pendred syndrome/DFNB4	Dae-Won Kim (ICM, Korea)
10:35–10:50	Coffee break	
10:50–12:30	Gene editing therapy	Chair: Shi Nae Park (Catholic Univ, Korea)
10:50–11:20	Editing approach to treat genetic hearing loss	Zheng-Yi Chen (Harvard Univ, USA)
11:20–11:50	Template-independent genome editing for restoration of a DFNB9 mouse model in vivo	Wei Xiong (Chinese Institute for Brain Research, China)
11:50–12:10	PAM-flexible adenine base editing to rescue hearing loss in a humanized MPZL2 mouse model harboring East Asian founder mutation	Sang-Yeon Lee (Seoul Nat'l Univ, Korea)
12:10–12:30	*In vivo* gene editing to ameliorate progressive hearing loss in DFNA2 murine model	Jinsei Jung (Yonsei Univ, Korea)
12:30–12:35	Photo time	
12:35–14:00	Lunch	
14:00–15:40	ASO and Cell therapy	Chair: Un-Kyung Kim (Kyungpook Univ, Korea)
14:00–14:30	Alternative splicing regulates tip-link stability and auditory function in mice	Zhigang Xu (Shandong Univ, China)
14:30–14:50	Development of ASO therapeutics for patients with DFNA2	Heon Yung Gee (Yonsei Univ, Korea)
14:50–15:20	Hearing restoration: gene therapy or in situ hair cell regeneration?	Zhiyong Liu (Chinese Academy of Sciences, China)
15:20–15:40	Preclinical study for novel approaches in inner ear drug delivery	Yong Ho Park (Chungnam Nat'l Univ, Korea)
15:40–15:55	Coffee break	
15:55–17:55	New drug under clinical trial for treating hearing loss	Chair: Yong Ho Park (Chungnam Nat'l Univ, Korea)
15:55–16:25	Clinical trial outcome of low dose Sirolimus for DFNB4 and Pendred syndrome	Masato Fujioka (Kitasato Univ, Japan)
16:25–16:45	Therapeutics for mitochondria-associated hearing loss	Kyu-Yup Lee (Kyungpook Nat'l Univ, Korea)
16:45–17:05	Preclinical and clinical data of NS101 in noise-induced hearing loss	Jinwoong Bok (Yonsei Univ, Korea)
17:05–17:55	DB-OTO: an AAV-based Gene Therapy for Children and Infants with Otoferlin-related Hearing Loss	Yoojin Chung, Vassili Valayannopoulos (Regeneron, USA)
17:55–18:00	Closing remarks	Jinsei Jung (Director of Team Science Award, Korea)

Team Science Award
YONSEI UNIVERSITY

Won-Sang Lee
Institute for Hearing Loss