2025 KSBNS

Symposium 09

Title: Translational and Clinical Neuroscience: Precision Convergent Medicine for Treating Intractable Diseases, Pain, and Central Nervous System Trauma

August 25th (Monday), 08:30-10:25

Grand Ballroom, Songdo CONVENSIA, Incheon, Korea

Registration KSBNS2025.org

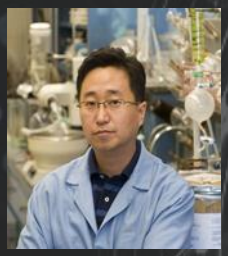
Organizer

Inbo Han

Department of Neurosurgery, CHA University School of Medicine, Korea

He is a distinguished neurosurgeon and spine scientist leading the field of regenerative spinal medicine, with a focus on stem cell therapy and biomaterials for spinal cord injury and degeneration. His research has redefined therapeutic strategies by integrating surgical expertise with cutting-edge regenerative technologies, advancing both clinical outcomes and mechanistic understanding of spinal repair.

Speakers

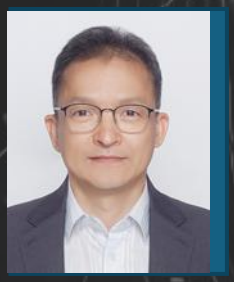


Ki-Bum Lee

Rutgers University, USA

"Transforming CNS Injury Therapeutics Using a Novel Nanotechnology-Enabled Extracellular Vesicle Platform"

Dr. KiBum Lee is a Distinguished Professor at Rutgers University, renowned for pioneering interdisciplinary approaches integrating neuroengineering, nanotechnology, and chemical biology. His research has significantly advanced understanding of cellular behavior through nanoscale tools that precisely modulate signaling pathways in neural, stem, and immune cells. These innovations have transformed neuroregeneration and neuroinflammation research, enabling the development of novel therapeutic strategies for neurological disorders by manipulating cell–microenvironment interactions at the subcellular level.



Inbo Han

Department of Neurosurgery, CHA University School of Medicine, Korea

Multimodal therapy strategy based on a bioactive hydrogel for repair of spinal cord injury

He is a leading neurosurgeon and spinal researcher at the forefront of regenerative medicine, specializing in stem cell-based therapies and innovative biomaterials for spinal cord injuries and degenerative spinal diseases. His work has transformed treatment approaches by bridging advanced surgical techniques with novel regenerative strategies, offering new hope for patients with previously untreatable spinal conditions.

Seil Sohn

CHA University, Bundang CHA Medical Center, Neurosurgery

Title Axon guidance gene-targeted siRNA delivery system improves neural stem cell transplantation therapy after spinal cord injury

He is a spine neurosurgeon and basic scientist. He has been trying to develop new diagnostic and therapeutic approach to address unmet medical needs.

Seongjun Ryu

Department of Neuroscience, Daejeon Eulji University Hospital, School of Medicine, Korea

" Chemogenetic Intervention as a Therapeutic Strategy for Recovery after Acute CNS Injury"

He is a neurosurgeon-scientist known for integrating chemogenetics and neural engineering to advance recovery strategies for acute CNS injuries. Bridging clinical insight with engineering field, his research focuses on modulating neuron–glia interactions to enhance functional regeneration. His translational work provides a new paradigm for post-injury neuromodulation, bridging basic science and surgical application

Junseok W Hur

Department of Neurosurgery, College of Medicine, Korea University, Korea

"Current Perspectives on Neuropathic Pain"

He a respected neurosurgeon specializing in minimally invasive spine surgery and evidence-based clinical research. His work focuses on improving surgical techniques and patient outcomes through innovation, data-driven analysis, and international collaboration.