



Organizer and Chairperson



Jae-sung Bae

Department of Physiology, School of Medicine
Leader, KNU Alzheimer's disease Research Institute (KARI)
Kyungpook National University



Jun Young Heo

Department of Biochemistry, College of Medicine,
Director of System Network Inflammation Control Research Center (MRC)
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Brief introduction of Symposium

: This session gathers neuroscientists and translational researchers to explore mechanisms linking endothelial metabolism and Brain Barriers stability, identify molecular targets for repair, and assess non-invasive strategies such as electrical /optical stimulation to reversibly modulate barrier permeability.

Speakers



Junlei CHANG

Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences

"Endothelial Wnt/ β -catenin signaling regulates the BBB in systemic inflammation"

He is a prominent neuroscientist renowned for rising star in BBB research field in the world. His research fields are molecular dissection of blood-brain barrier, regulation of CNS angiogenesis and drug development for cerebrovascular and neurological diseases.



Hee Kyung Jin

College of Veterinary Medicine
KNU Alzheimer's disease Research Institute (KARI)
Kyungpook National University

"Brain endothelial ASM-dependent gut-brain immune circuit links stress to depression"

She is a distinguished researcher specializing in neurodegenerative diseases, particularly recognized for her groundbreaking work on stem cell-based therapies and the pathogenesis of Alzheimer's disease. Her research significantly contributes to the development of innovative treatments for complex neurological disorders through a focus on molecular biology and clinical translation.



Jongshin Kim

Medical Science and Engineering, IT Engineering, Life Sciences, POSTECH

"Mapping the luminal surface proteome of the blood-brain barrier by proximity labeling"

He is a prominent neuroscientist renowned for his advanced imaging research on brain barriers, including the brain-CSF barrier and the blood-brain barrier. Moreover, he has made significant contributions to identifying the interactions between immune cells and brain barrier cells to better understand cerebrovascular diseases.



Hwa Kyong Shin

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