



Association of  
Korean  
Neuroscientists

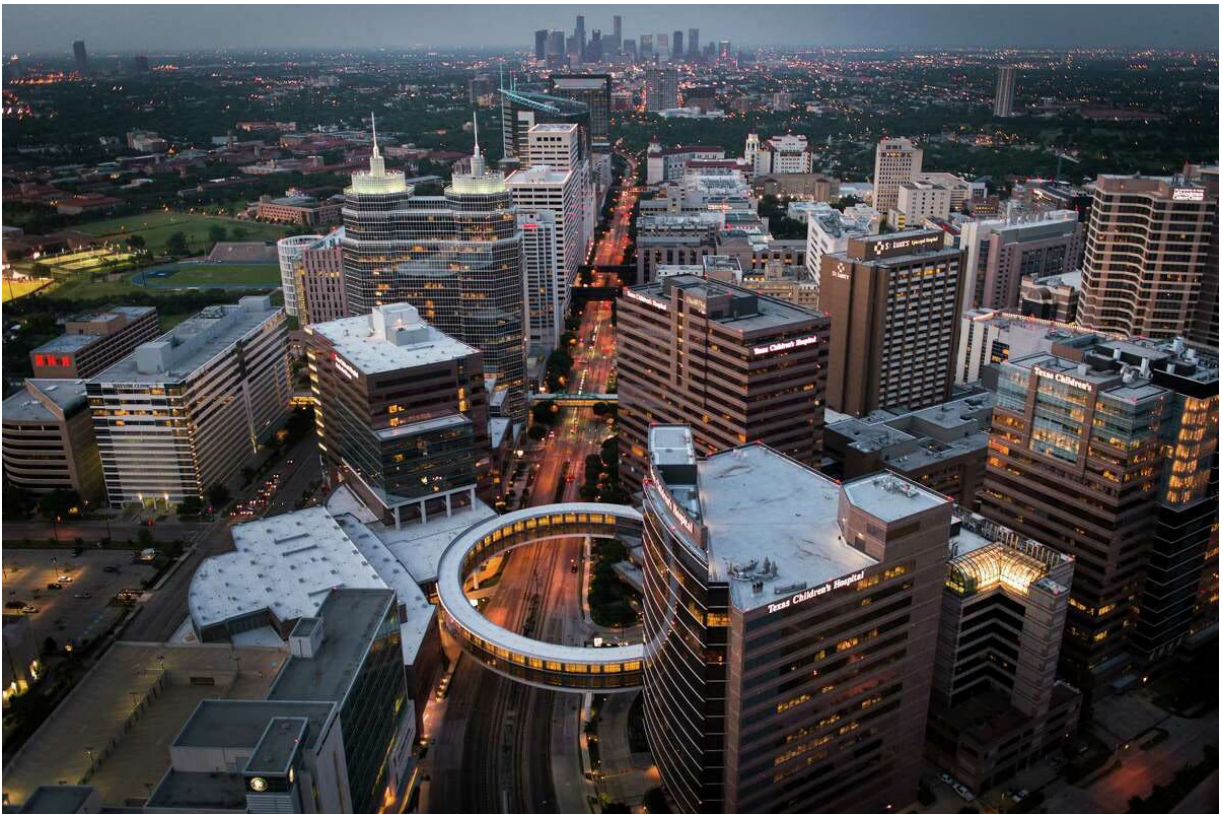
# AKN 2024 Research Symposium Program

April 26-27, 2024, Baylor College of Medicine, Houston TX

1250 Moursund Street, Houston TX 77030

Jan and Dan Duncan Neurological Research Institute (NRI)

Baylor College of Medicine (BCM) and Texas Children's Hospital (TCH)



## Symposium Organizers

Dr. Hyun Kyoung Lee, BCM, symposium co-organizer

Dr. Jun Ho La, UTMB, symposium co-organizer

Dr. Yoon-Seong Kim, Rutgers University, AKN President

Dr. Seung-Hee Yoo, UTHSC

Dr. Hyunglok Chung, Methodist Hospital

Dr. Enhee Kim, UTHSC

Dr. Seungwon Choi, UTSW

# Symposium Venue

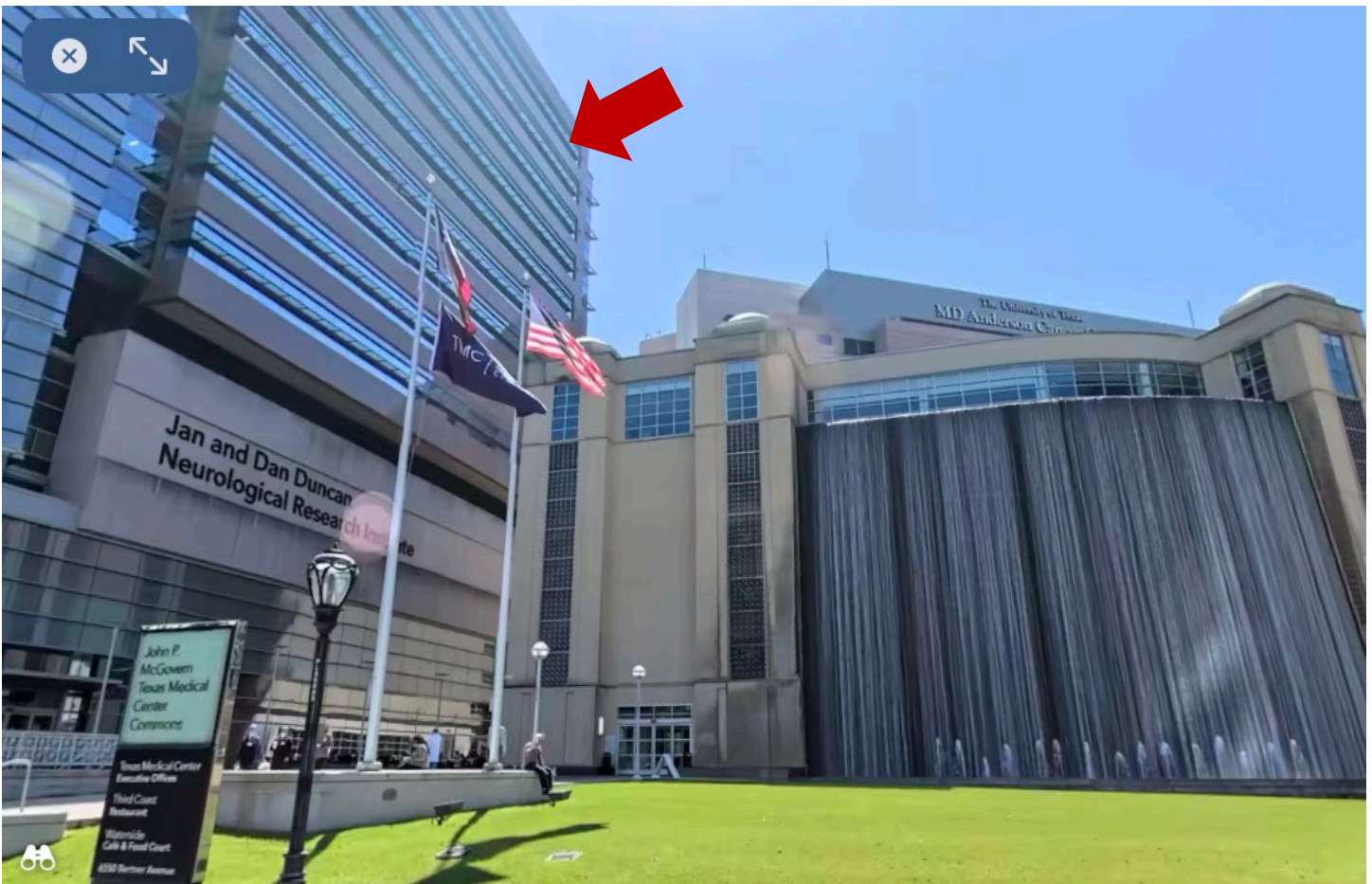
Jan and Dan Duncan Neurological Research Institute (NRI)  
Address: 1250 Moursund street, Houston TX 77030

The NRI building is located between the main Baylor College of Medicine and the MD Anderson Commons building.

The security team will unlock the main entrance door and escort you to the elevator for the **7F auditorium**. You will need to register at the 7F desk.

Please call or text organizers if you have trouble to find or enter the building.

- Dr. Hyun Kyoung Lee (713-907-1071)
- Dr. Jun-Ho La (412-657-3314)



# 5<sup>th</sup> AKN Annual Research Symposium - Day 1

Friday, April 26, 2024, NRI 7F Auditorium

- 1:00 – 1:40      Registration (NRI 7F desk)
- 1:40 – 1:50      Welcome Remark (Yoon-Seong Kim, AKN President)
- 1:50 – 2:00      Greetings from Consulate General of the Republic of Korea in Houston
- 2:00 – 3:00      Plenary lecture (moderator: Jun-Ho La)  
*The ugly history of Alzheimer's disease research & the new movement toward a clearer future*  
Jungsu Kim, Indiana University
- 3:00 – 4:15      Short-talks: **Neurodegeneration (I)** (moderator: Jun-Ho La)  
*Microbiome-Gut-Brain Axis in alpha-synuclein propagation in Parkinson's Disease*  
Yoon-Seong Kim, Rutgers University  
*deSUMOylation and cellular senescence as potential therapeutic targets for Parkinson's disease*  
Yong-Hwan Kim, Delaware State University  
*Crosstalk Between the Peripheral and the Central Immune System in Lewy Body Diseases*  
Jae Kyung Lee, University of Georgia  
*Brain Rehabilitation Strategies in Neurodegeneration*  
Mi-Hyeon Jang, Rutgers University  
*Gene and environment interactions causing dementia*  
Kyung-An Han, University of Texas at El Paso
- 4:15 – 4:30      GenDEPOT Sponsorship acknowledgment (moderator: Yoon-Seoung Kim)  
Kale Yun and Jihye Na, GenDEPOT
- 4:30 – 5:00      Break & poster session preparation
- 5:00 – 6:00      Poster session
- 6:00 –              Dinner & Networking (moderator: Jun-Ho La)

# 5<sup>th</sup> AKN Annual Research Symposium – Day 2

Saturday, April 27, 2024, NRI 7F Auditorium

- 08:00 – 08:50 Breakfast & Networking
- 08:50 – 09:00 Welcome
- 09:00 – 09:45 Keynote session (I) (moderator: Jun-Ho La)  
*My career in sensory neuroscience and AKN*  
Jin Mo Chung, University of Texas Medical Branch (UTMB) at Galveston
- 09:45 – 10:45 Short-talks: **Sensory neuroscience** (moderator: Jun-Ho La)  
*Ascending somatosensory circuitry that shapes the sense of touch and pain*  
Seungwon Choi, UT Southwestern Medical Center  
*Regulation of headache response and transcriptomic network by the trigeminal ganglion clock*  
Seung-Hee Yoo, UT Health Science Center at Houston  
*Sensory neuronal GPR37 triggers pain resolution*  
Jun-Ho La, UTMB  
*Visual processing in flies during navigation*  
Sung Soo Kim, UC Santa Barbara
- 10:45 – 11:00 Break
- 11:00 – 11:45 Keynote session (II) by the Tong H. Joh Research Innovation Awardee  
(moderator: Yoon-Seoung Kim)  
*Double-stranded RNA as a trigger for neuroinflammation*  
Hachung Chung, Columbia University Medical Center
- 11:45 – 12:00 Special talk (moderator: Hyun Kyoung Lee)  
*Korea's Global Research Agenda: Trends, Challenges, and Opportunities*  
Hyewhon Rhim, Korea Institute of Science and Technology (KIST)
- 12:00 – 1:00 Lunch & Networking
- 1:00 – 2:15 AKN-KBRI-Joint meeting: Multidisciplinary Convergence Cluster for Brain diseases  
(moderator: KiBum Lee, Juhyun Kim)  
*The claustrum and the cortex in psychiatric disorders*  
Juhyun Kim, Korea Brain Research Institute (KBRI)  
*Serotonin receptor 4 in the lateral habenula modulates synaptic plasticity and social decision in socially isolated mice*  
Jeongyeon Kim, KBRI  
*Harmful effects of microplastics on brain development*  
Da Yong Lee, Korea Research Institute of Bioscience and Biotechnology (KRIBB)  
*Translational approaches of cellular and synaptic physiology studies from mouse to human cortical neurons*  
Mean-Hwan Kim, Allen Institute for Brain Science

*A dopamine-mediated formation of memory module for goal-directed navigation in the nucleus accumbens*  
Kanghoon Jung, Allen Institute for Neural Dynamics

2:15 – 2:30 Break

2:30 – 3:15 Short-talks: **Neurodegeneration (II)** (moderator: Jee-Yeon Hwang)

*The role of Sox and NFIA in Alzheimer's Disease*

Dongjoo Choi, Baylor College of Medicine

*From Mitochondria to Lysosomes: Unraveling the Role of CHCHD2 in Neurodegenerative Proteinopathies*

Alexa Woo, Case Western Reserve University

*Exploring molecular mechanisms for neuroprotective strategies in neurological disorders*

David E. Kang, Case Western Reserve University

3:15 – 4:30 Short-talks: **Synapses, circuits, microenvironment in the brain** (moderator: Hyung-Goo Kim)

*A combinatorial neural code for long-term motor memory*

Jae-Hyun Kim, Baylor College of Medicine

*Single dopaminergic neuron DAN-c1 in Drosophila larval brain mediates aversive olfactory learning through D2-like receptors*

Daewoo Lee, Ohio University

*Nanotechnology and Chemical Biology Approaches To Investigate CNS Disease/Injury Microenvironments*

KiBum Lee, Rutgers University

*Ketamine's protective effects against chronic stress*

Seonil Kim, Colorado State University

*Oligodendroglia: A key player of activity-dependent plasticity in the developing brain*

Jun Hee Kim, University of Michigan, Ann Arbor

4:30 – 4:45 Break

4:45 – 5:45 Short-talks: **BBB and neuroinflammation** (moderator: Hyun Kyoung Lee)

*Role of Neurogranin expression in blood-brain barrier*

Hyung W. Nam, LSU Health Sciences Center

*Role of Lipid metabolism in neuroinflammation*

Hyunglok Chung, Houston Methodist Research Institute

*Inflaming depression and depressing inflammation*

Yong Kim, Rutgers University

*Role of Microenvironmental Interactions Between Stroke and Glioma*

Hyun Kyoung Lee, Baylor College of Medicine

5:45 – 6:00 Poster Award

6:00 – Dinner

## Nearby Airports:

William P. Hobby Airport (HOU) (13 miles to NRI, 25mins by car) 7800 Airport Blvd, Houston, TX 77061

George Bush Intercontinental Airport (IAH) (23 miles to NRI, 35mins by car) 2800 N Terminal Rd, Houston, TX 77032

## Hotels near by Texas medical center:

- A. Houston Marriott Medical Center/Museum District  
(0.4mi from NRI, 9 min by walk) 6580 Fannin St, Houston, TX 77030
- B. The Westin Houston Medical Center/Museum District  
(0.4mi from NRI, 9 min by walk) 1709 Dryden Rd, Houston, TX 77030
- C. Hilton Houston Plaza/Medical center  
(0.6mi from NRI, 13 min by walk) 6633 Travis St, Houston, TX 77030
- D. SureStay Plus By Best Western Houston Medical Center  
(0.6mi from NRI, 13 min by walk) 6700 Main St, Houston, TX 77030
- E. InterContinental Houston, an IHG Hotel  
(0.6mi from NRI, 15 min by walk) 6750 Main St, Houston, TX 77030
- F. DoubleTree by Hilton Houston Medical Center Hotel & Suites  
(0.7mi from NRI, 16 min by walk) 6800 Main St, Houston, TX 77030

