

## Association of Korean Neuroscientists

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## MEETING PROGRAM

Welcome and Introduction 6:30-7:00

MC: Dr. Jin Hyung Lee and

Dr. In-Hyun Park

7:00-7:10**Opening Remark** 

> Dr. Yoon-Seong Kim (AKN President) Dr. Cheil Moon (KSBNS President)

7:10-7:30Institute/Organization

**Announcements** 

Dr. Pann-Ghill Suh (KBRI) Dr. Sunghee Cho (ISCBFM) Dr. Hyung Jin Choi (K-MEDI)

7:30 - 7:45**AKN Special Lecture** 

> What do experimental models tell us about Parkinson's disease?

Dr. Un Jung Kang, NYU Langone Health

**Junior Faculty Awards & Presentations** 7:45 - 8:05

> Dr. Sora Shin (Virginia Tech) Dr. Tae-In Kam (Johns Hopkins)

8:05 - 8:20Junior Research Scientist, Pre- and Post

-Doctoral Awards

8:20 - 9:00 Networking

9:00 - 9:30Closing Remark, Q&A, Games, Raffle, and Photo



## **MEETING SUMMARY**



The 41st AKN annual meeting was held at the Washington Plaza Hotel in Washington, DC. The event started at 6:30pm and was over at approximately 9:30pm.

Approximately 250 members from both Korea and US attended the meeting, which is one of the highest number of attendees ever in Washington, DC. Dr. In-Hyun Park and Dr. Jin-Hyung Lee were the MC's, and they conducted XO games and other quizzes with Amazon gift cards as prizes. This year, we had designated time for networking where attendees were able to connect with their colleagues and friends.

There was a pre-meeting dinner on November 12th at the Washington Plaza Hotel with faculty and officials from the sponsoring institutions. The dinner started at 7 and ended around 9:30. There were approximately 35 people in attendance.







### **AKN SPECIAL LECTURE**

"What do experimental models tell us about Parkinson's disease?"

### Un Jung Kang, MD

New York University School of Medicine

The Founders Professor of Neurology,

Department of Neurology

Professor, Department of Neuroscience and Physiology

Member, Neuroscience Institute

Director of Translational Research, Marlene and Paolo Fresco Institute for Parkinson's and Movement Disorders

Co-Director, Parekh Center for Interdisciplinary Neurology



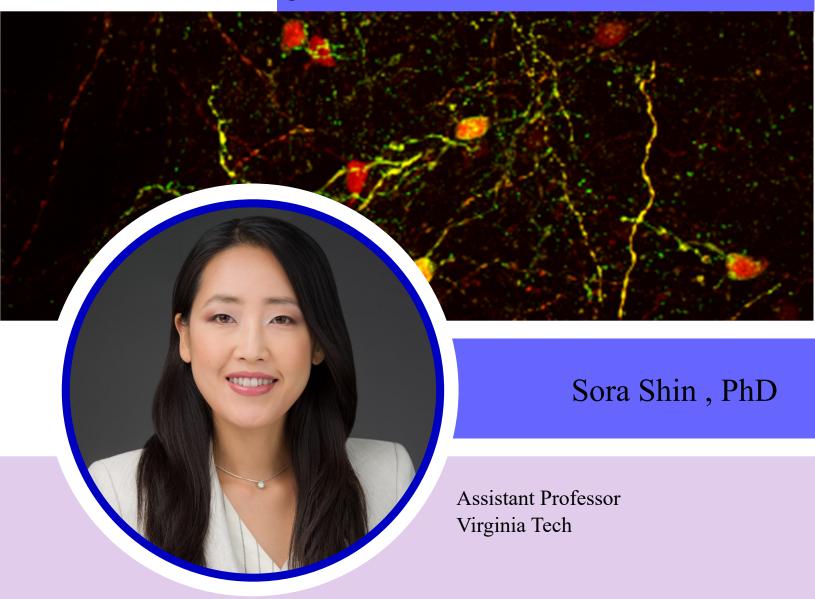




# **PHOTOS**

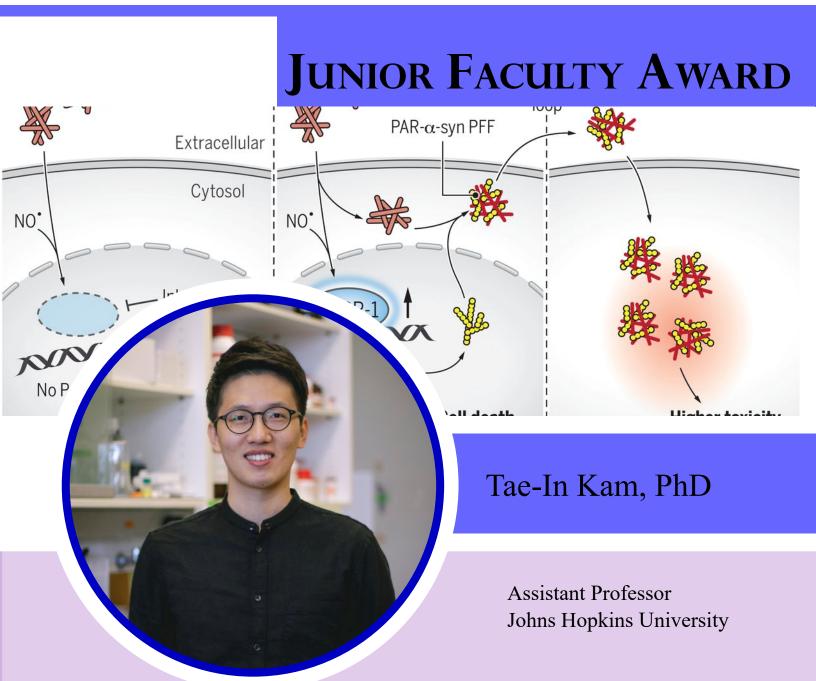


## JUNIOR FACULTY AWARD



The Shin Lab aims to understand the role of brain circuit-specific mechanisms using translationally relevant animal models of stress-induced psychiatric diseases. The lab seeks to answer such questions as: How does the harsh early environment affect mental health in adulthood? How are unfulfilled needs in early life stored and transduced into behavioral dysfunctions after a long time? What processes are set into motion that link stress experiences to symptoms of eating disorders or major depression in later life? Nerve cells in the brain communicate through specialized junctions called synapses. Synaptic connections need to be properly formed, specified and maintained during development and throughout life.

The Shin lab uses a combination of optogenetics, in vivo imaging and viral tracing techniques that has revolutionized modern neuroscience and will provide new opportunities for exploring the novel function of brain circuits. The laboratory pairs these techniques with classical approaches such as surgical and pharmacologic manipulations with the goal of providing a therapeutic approach for treating psychiatric symptoms caused by stress experiences.



The Kam lab is focusing on neuronal and non-neuronal mechanisms of pathogenesis of neurodegenerative diseases including Alzheimer's and Parkinson's disease. The lab is trying to understand the molecular mechanisms of neuronal cell death as well as to identify the role of microglia-astrocyte axis in neurodegeneration. The lab is looking to identify novel targets that are essential for pathogenesis of neurodegenerative diseases and develop disease-modifying drugs targeting key molecules.

#### SELECTED PUBLICATIONS

Kam TI\*, Mao X\*, Park H\*, Chou SC, Karuppagounder SS, Umanah GE, Yun SP, Brahmarchari S, Panicker N, Chen R, Andrabi SA, Qi C, Poirier GG, Pletnikova O, Troncoso JC, Bekris LM, Leverenz JB, Pantelyat A, Ko HS, Rosenthal LS, Dawson TM, Dawson VL. Poly (ADP-ribose) drives pathologic a-synuclein neurodegeneration in Parkinson's disease. Science 362(6414). pii: eaat8407 (2018) (\*equal contribution)

Yun SP\*, Kam TI\*, Panicker N, Kim S, Oh Y, Park JS, Kwon SH, Park YJ, Karuppagounder SS, Park H, Kim S, Oh N, Kim NA, Lee S, Brahmachari S, Mao X, Lee JH, Kumar M, An D, Kang SU, Lee Y, Lee KC, Na DH, Kim D, Lee SH, Roschke V, Liddelow SA, Mari Z, Barres BA, Dawson VL, Lee S, Dawson TM, Ko HS. Block of A1 astrocyte conversion by microglia is neuroprotective in models of Parkinson's disease. Nature Medicine 24(7), 931-938 (2018) (\*equal contribution)

# JUNIOR RESEARCH SCIENTIST AWARDS



Seung-Eon Roh, PhD

Johns Hopkins University Alzheimer's disease



Ingie Hong, PhD

Johns Hopkins University Synaptic dynamics during learning



Hyeonwi Son, Ph.D.

Univ Texas Health at San Antonio Pain



# Post-Doctoral Awards



Minhyeok Chang, PhD

Johns Hopkins University Synaptic trasmission



Sukjae Joshua Kang, PhD

Salk Institute Neural circuit of fear



Young Hee Lee, PhD

Seoul National University Alzheimer's disease

## PRE-DOCTORAL AWARDS



Jae Hyung Woo

Dartmouth College Network of decision making



Ye Ji Kim

**MIT** 

Biomaterial for neuromodulation



Seong Jun Kim

CHA University
Spinal cord injury



Ye Eun Kim

POSTECH

Signaling in neurodevelopment



Seungjae Han

KAIST Signal acquisition and analysis

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