

# Artificial Intelligence Special Lecture

## **TITLE** Translational Bioinformatics for Neurological Disorders with Combination of Machine Learning and Statistical Approaches

**When** : 2021.12.13.(MON) P.M.12:00~

**Where** : Zoom

링크 <https://zoom.us/j/99059476793?pwd=cIM5TnFnMzF5eHdYNUkxd3Bldk9WQT09>

회의 ID : 990 5947 6793, 암호 : 3898

**Speaker** : Ying-Wooi Wan (Professor, Baylor College of Medicine)

**Abstract** : The brain is a complex system. Many aspects of the brain and brain-related disease remained mysteries to scientists due to myriad challenges and complexities in neurological research, such as limited observation, noisy or missing data, the gap between experimental models and human data, and others. Therefore, instead of using a single algorithm, I will present a combination of multiple machine learning techniques and statistical methods to better understand the disease, which subsequently helps design a better prognosis. I will demonstrate this approach in an analysis of Alzheimer's disease on multiple cohorts of human postmortem brain and mouse models, a study of meningioma recurrence, and an examination of patterns of various sensory profiles in autistic patients.

**BIO** : Dr. Ying-Wooi Wan is currently an Assistant Professor with the Molecular & Human Genetics Department at Baylor College of Medicine. Her research focuses on applying data analytics approaches to link molecular data from experiments or patients to the insight of neurological diseases and better diagnoses. She received my training in computer science and started employing her computational skills in cancer research during her Ph.D. research. Currently, Dr. Wan is studying other neurological diseases in addition to cancers.

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