## School of Life Sciences Seminar Series No. 2019-21

Korean

# S Thu., **10 October**, 4:00pm

Jukhyun Bio Auditorium(RM.121)



🔮 Speaker | Jinsoo Seo

Affiliation | DGIST

🖰 Host | Prof. Mi-Ryoung Song



Jukhyun Bio Auditorium(RM.121)

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Speaker Prof. Jinsoo Seo

#### **Education/Experience**

1993.032006.01.	B.S., Dept. of Life Science, Yonsei University, Seoul, Korea
2006.032008.02.	M.S., Dept. of Neurobiology, Seoul National University School of Dentistry, Seoul, Korea
2008.032011.02.	Ph.D., Dept. of Neurobiology, Seoul National University School of Dentistry, Seoul, Korea
	(Research Advisor: Se-Young Choi, Ph.D.)
2011.052013.12.	Postdoctoral Fellow(HHMI Postdoctoral Fellow), The Picower Institute for Learning and Memory,
	Dept. of Brain and Cognitive Sciences, MIT, Cambridge, USA.
	(Research Advisor : Li-Huei Tsai, Ph.D.)
2014.012015.04.	Postdoctoral Associate
2015.052017.08.	Research Scientist
2017.11present	Assistant Professor, Dept. of Brain & Cognitive Science, DGIST, Daegu, Korea
2014.012015.04. 2015.052017.08. 2017.11present	Dept. of Brain and Cognitive Sciences, MIT, Cambridge, USA. (Research Advisor : Li-Huei Tsai, Ph.D.) Postdoctoral Associate Research Scientist Assistant Professor, Dept. of Brain & Cognitive Science, DGIST, Daegu, Korea

#### Abstract

Tremendous efforts have been made to cure Alzheimer's disease (AD) over 100 years since the disease was first identified, however, we still don't have a clear understanding of what causes the onset of disease and what are the underlying mechanisms. In this talk, I will present my recent works utilizing human induced pluripotent stem cells (hIPSCs) and the genome editing tool to investigate cell-type-specific pathological effects of APOE4; the strongest genetic risk factor for AD, and discuss how this genetic platform can be employed for unraveling mechanistic insights into AD pathogenesis as well as identifying potential therapeutics to combat AD.