



IBS Center for Molecular Spectroscopy and Dynamics

Seminar

■ **SPEAKER**

Prof. Euiheon Chung (Department of Biomedical Science and Engineering, GIST)

■ **TITLE**

Tutorial on Translational Neurophotonics

■ **ABSTRACT**

Groundbreaking advances in biomedical imaging and related technology have greatly accelerated the understanding of mechanistic underpinnings in brain science. This tutorial introduces key optical imaging techniques to reveal structure, function, and modulation of the nervous system at the cellular level, and in brain slices, as well as whole brains in vivo, with the overview of brain disorders such as stroke. Recently, neurophotonics, a branch of biophotonics emerged as to develop new optical methods for imaging and manipulating the nervous system. In translational medicine, such new approaches and findings obtained by neurophotonics have been particularly useful to decipher neural mechanisms underlying neurological disorders and in the development of therapeutic neuromodulations. Recent progresses in this rapidly expanding field of neurophotonics and associated techniques will be introduced.

■ **DATE AND VENUE**

December 2, 2022 (Friday, 15:00 - 17:00)
Seminar Room B (119)

■ **LANGUAGE**

Korean

■ **INVITED BY**

Associate Director Wonshik Choi