



이름: 조장희 / Zang-Hee Cho

직위: 석좌교수 / Chair Professor

소속: 뇌융합연구센터, 녹색생산기술연구소, 고려대학교

Neuroscience Convergence Center, GMRC,

Korea University

강연제목: 뇌영상연구의 현재와 미래

Brain Imaging Research : Current Status and Future Prospects

Abstract

Since the first inception of the CT, in-vivo human imaging has been progressed enormously and is still progressing with emergence of the new advanced imaging devices. Subsequently, demands of in-vivo human brain imaging, both the anatomy and functional molecular imaging brought about development of Ultra-High Field MRI and PET Fusion Imaging system (PET-MRI) with 7.0T-MRI and HRRT-PET, a sub-millimeter resolution “Molecular Imaging” for the Neuroscience Research. With this super-resolution PET-MRI fusion system, we have succeeded in visualization of : among others, such as the brainstem Raphe nuclei in-vivo human and opened new era in human molecular imaging in sub-millimeter resolution. This talk will discuss possible applications of the system for the molecular imaging in-vivo human for the Neurological Diseases and Disorders related to Human Behaviors.

Brief Biosketch

Professor Cho was faculty of University of California at Los Angeles (UCLA), Columbia University, and University of California at Irvine. Since 2019, he serves as an Endowed Chair Professor and Director of Neuroscience Convergence Center at Korea University, Seoul, Korea. Among the many honors and awards, Professor Cho was elected to a Member of US National Academy of Sciences

- Institute of Medicine (Now National Academy of Medicine) in 1997 for his pioneering contribution to the early development of the Circular Ring Positron Camera (PET) in early 70's.