Abstract: Neuroimaging technologies, such as functional MRI, have been used to identify system-level biomarkers of brain disorders, such as addiction. In this seminar, identification of neuroimaging markers that underlie compulsive drug taking behaviors in humans and preclinical models will be presented. Potential strategies of drug addiction treatment based on neuromodulation approaches, such as transcranial magnetic stimulation, will be discussed.

Biography: Dr. Yihong Yang is a Senior Investigator of the National Institutes of Health (NIH) and Chief of the Magnetic Resonance Imaging and Spectroscopy Section at the National Institute on Drug Abuse (NIDA). He has been working on the development of neuroimaging and neuromodulation technologies and on the applications of them to neurological and psychiatric disorders. Dr. Yang has published about 200 original research papers and contributed several book chapters. He is a Fellow of the International Society for Magnetic Resonance Imaging in Medicine (ISMRM) and Fellow of the American Institute for Medical and Biological Engineering (AIMBE).