Jie Gao, PhD, Assistant Professor, Neuroscience. The risk of developing Alzheimer's disease (AD) is strongly influenced by genetic variations of genes that are involved in lipid transport, sensing and uptake. Gao lab is interested in studying molecular pathways that regulate lipid homeostasis and signaling in neurons and glial cells, as well as elucidating mechanistic links between lipid dysregulation and AD. In his talk, Jie will demonstrate that genetic and pharmacological manipulation of E3 ubiquitin ligase IDOL, a novel regulator of brain lipoprotein receptors, ameliorates neuropathological hallmarks of AD including beta-amyloid deposition, neuroinflammation, and cognitive decline in animal models. These results suggest the regulatory pathways that govern brain lipid metabolism and signaling may serve as promising targets for AD prevention and treatment.

Wednesday, March 6, 2019 | 10:00am, 150 Meiling |