

Dr Marek Kubicki, MD, PhD, is a Radiologist, MR physicist, and a Professor of Psychiatry in the Department of Psychiatry at Harvard Medical School. His internationally acclaimed research focuses on using multimodal neuroimaging approaches to understand the better neurobiology of brain changes associated with neuropsychiatric diseases, most particularly with schizophrenia. His most notable contribution to the field of clinical neuroimaging has been to provide evidence for white matter pathological changes along the schizophrenia lifespan, which has shed further light on microstructural and biological underpinnings of such abnormalities (including neuroinflammatory response). His research is gradually shifting from developing and using neuroimaging tools to map brain pathology, towards understanding mechanisms of those changes. Most recently, he has been using multimodal approach (including imaging, behavioral and blood biomarkers) to investigate effects of various pharmacological and nonpharmacological neuromodulatory treatments in psychiatric disorders. His current research funding includes histological validation of brain changes (myelin degeneration and neuroinflammation) in animal model of aging, big data analysis of brain changes in schizophrenia, PET studies in rhesus monkeys and in schizophrenia, and white matter pathology in eating disorders. His **laboratories at Brigham and Women's Hospital and Massachusetts General Hospital** have been in the forefront of methods and tools development for acquiring, processing, analyzing and validating neuroimaging clinical data in humans and non-human primates.