

Biography



DR. JUN HUA

Dr. Hua received his master's (2005) and doctoral (2009) degrees in biomedical engineering and electrical engineering at the Johns Hopkins University. His doctoral training centered on the development of novel MRI technologies for in vivo physiological imaging in the brain, such as protein content and cerebral blood volume. After completing a post-doctoral fellowship in the Department of Radiology at the Johns Hopkins University from 2009 to 2010, Dr. Hua became a faculty member in the Department of Radiology at Johns Hopkins University School of Medicine and Kennedy Krieger Institute. Dr. Hua is currently an Associate Professor in the Department of Radiology at Johns Hopkins University School of Medicine and Kennedy Krieger Institute.

Dr. Hua's research has centered on the development and application of novel MRI technologies for in vivo functional and physiological imaging in the brain. These include the development of human and animal MRI methods to measure functional brain activities, cerebral perfusion and oxygen metabolism at high (3 Tesla) and ultra-high (7 Tesla and above) magnetic fields. He is particularly interested in novel MRI approaches to image small blood and lymphatic vessels in the brain. Collaborating with clinical investigators, these techniques have been applied to detect functional, vascular and metabolic abnormalities in the brain in neurodegenerative diseases.