

Jiani Hu, PhD.

Professor of Radiology and Co-Director of MR Research Facility, Wayne State University.

Dr. Hu current research focuses on brain waste clearance, chronic diseases, and breast cancer screening. Dr. Hu has published 190 peer-reviewed SCI papers with H-Index 47 and 7200 citations. Dr. Hu and his collaborators are the first to apply SWI, negative contrast agent and their combination to study the glymphatic system and the first to demonstrate the feasibility of more than 10-fold increase in the MRI measured diameter of a vessel over its actual one. Dr. Hu and his collaborators are also the first to demonstrate the participation of the venous system in brain waste clearance. That is, the glymphatic system and the venous system work together to effectively remove metabolite waste from the brain parenchyma. Animal studies are underway to study how the glymphatic system interacts with lymphatic system to remove metabolic waste from brain.

Speech Title: New Quantitative Results for the Direct Participation of the Parenchymal Vascular System in Cerebral Waste Removal