WAYNE STATE UNIVERSITY

The WSU Program for Traumatic Brain Injury Research

presents a Special Topic Seminar

Hua Ai, PhD

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"Magnetic Nanocomposites as MRI Probes: Design and Applications"

Abstract: Magnetic resonance imaging (MRI) probes are the important tools for discovering small pathological changes with functionality analysis. Probe structural design, functionality, multimodality, and applications will be covered in this talk. The focus of probe structural design is mainly aimed on how to improve the imaging sensitivity, including one important feature: the relaxivity of probes. Superparamagnetic nanoparticles are efficient proton enhancers. In our approach, magnetic nanoparticles are usually delivered by polymeric carriers with improved biocompatibility and sensitivity. Design of small molecule paramagnetic probes and conjugation to polymeric carriers will also be discussed.

Date: Monday April 8th, 2013 **Time:** 12:00pm – 1:00 pm

Location: Margherio's Family Conference Center

320 E. Canfield, Detroit, MI 48201



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