Targeting vascular markers of disease with microbubbles: ultrasound molecular imaging, drug and gene delivery

Microbubbles are intravascular ultrasound contrast materials used as blood pool agents in the clinic. A single micrometer-size gas-filled particle (~0.1 pg mass) can be detected by ultrasound imaging in real time deep in the body. Microbubbles can be decorated with targeting ligands for specific adhesion to the endothelial markers of inflammation, ischemia-reperfusion injury, or angiogenesis. Microbubble-based constructs are also applied for triggered delivery of drugs and nucleic acids to the area of insonation.

Thursday, October 24, 2013
Noon-1:00 PM
MR5 1005

Refreshments Served