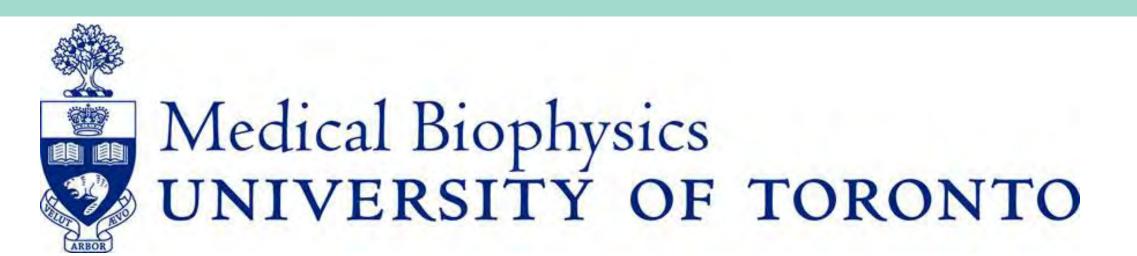
FOCUSED ULTRASOUND LABORATORY



Finite Element

Analysis

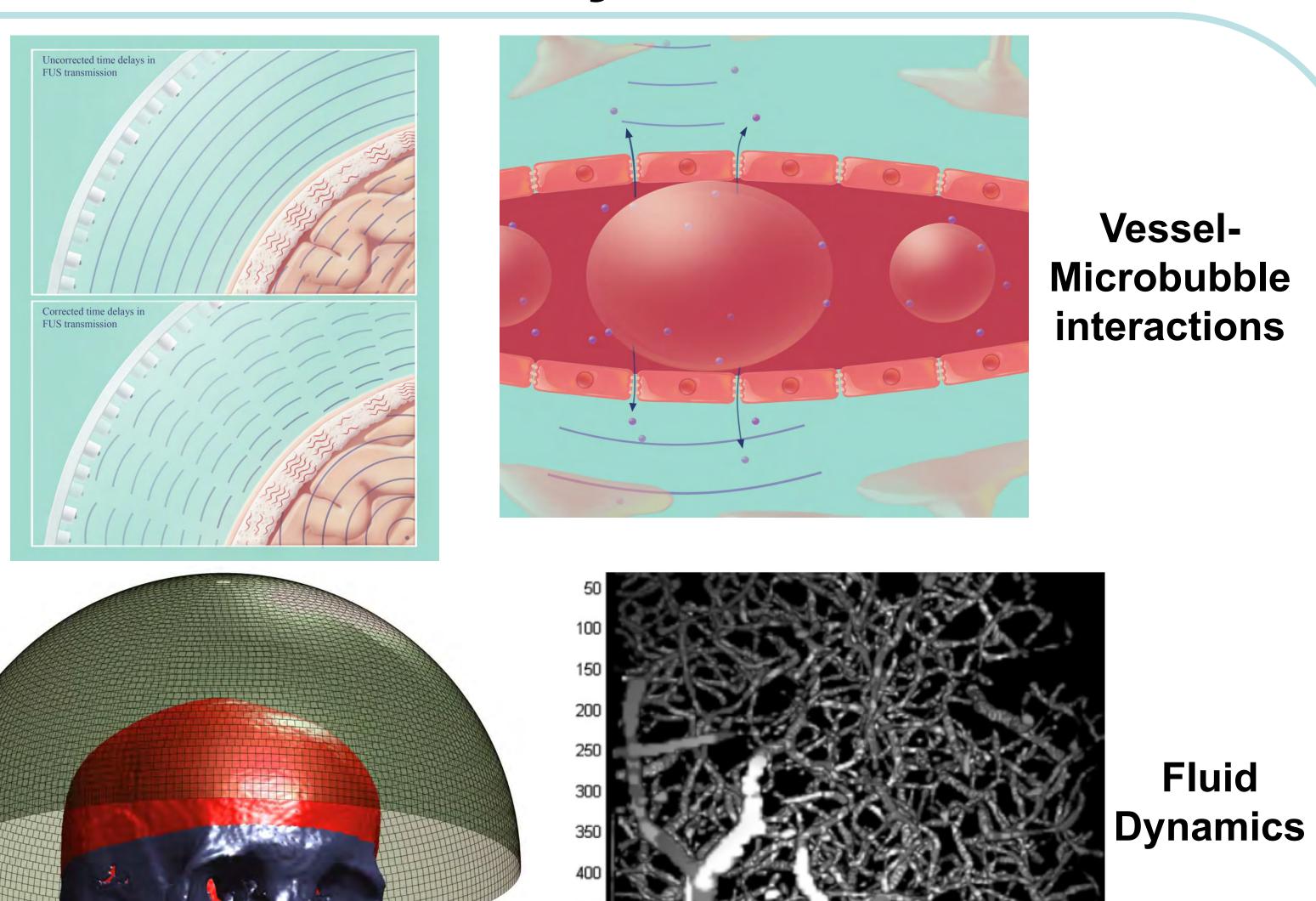
Transcranial

modeling

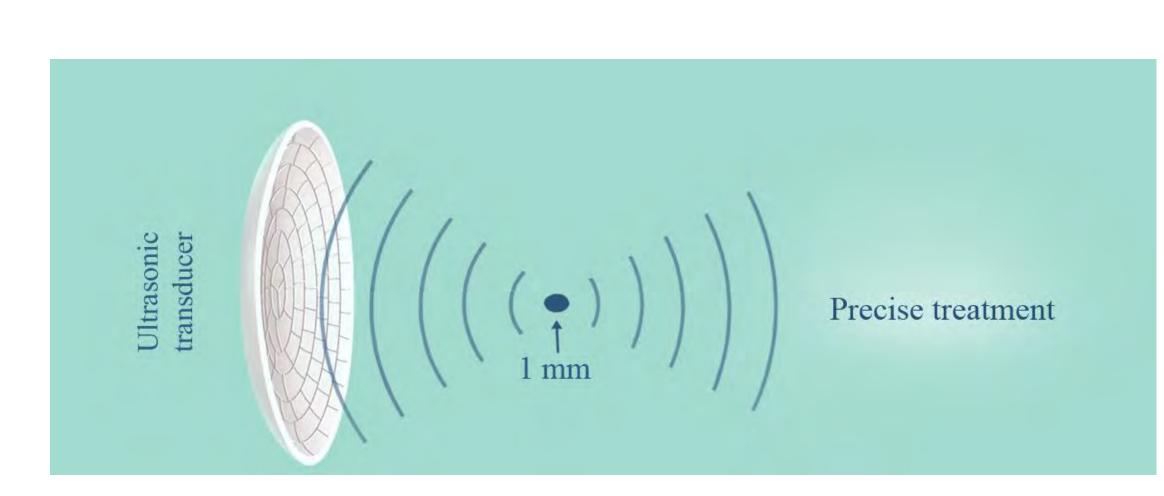
Scientists: Kullervo Hynynen, David Goertz, Meaghan O'Reilly

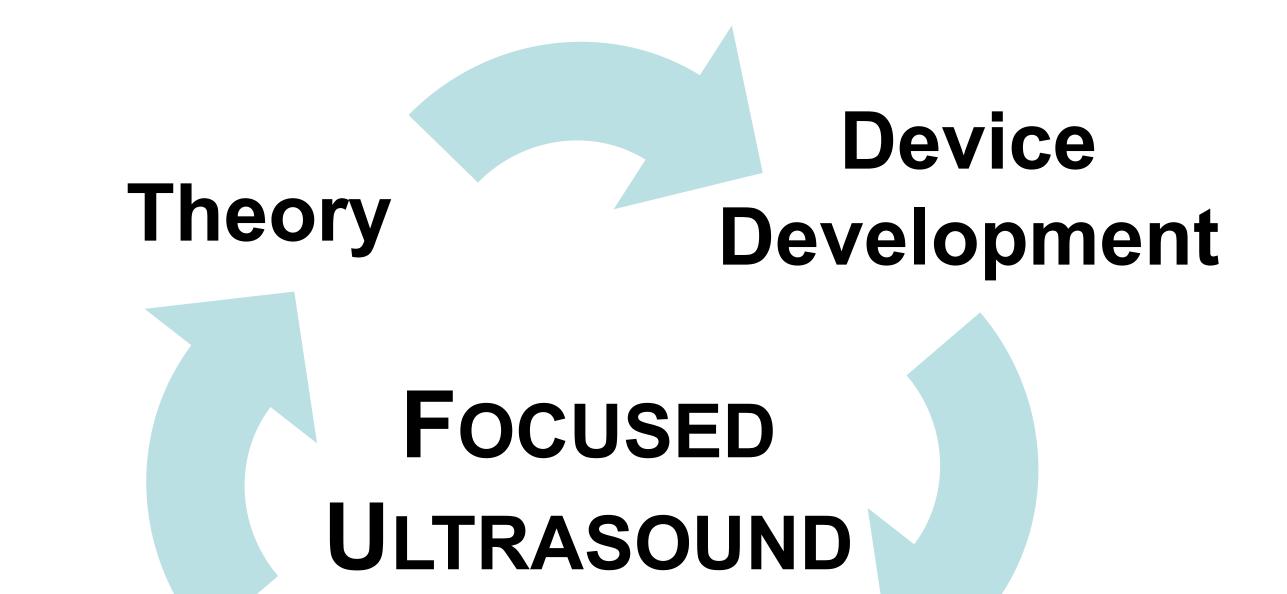


Theory



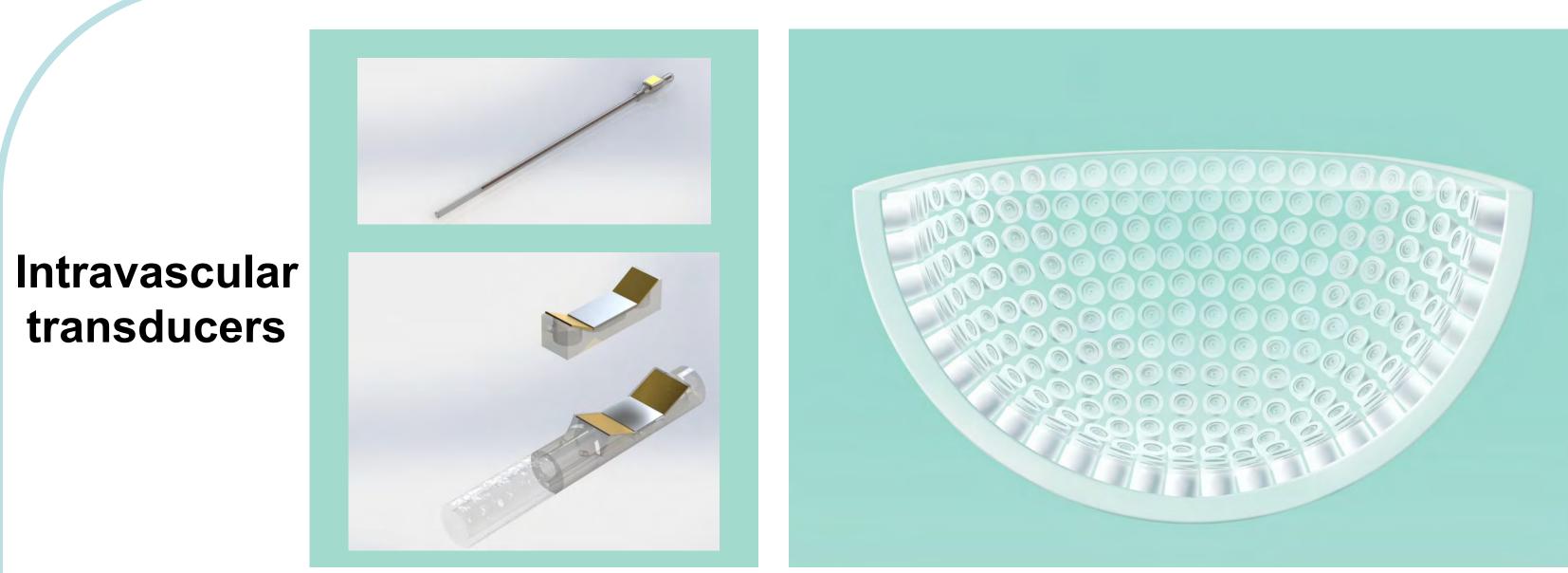
FOCUSED ULTRASOUND





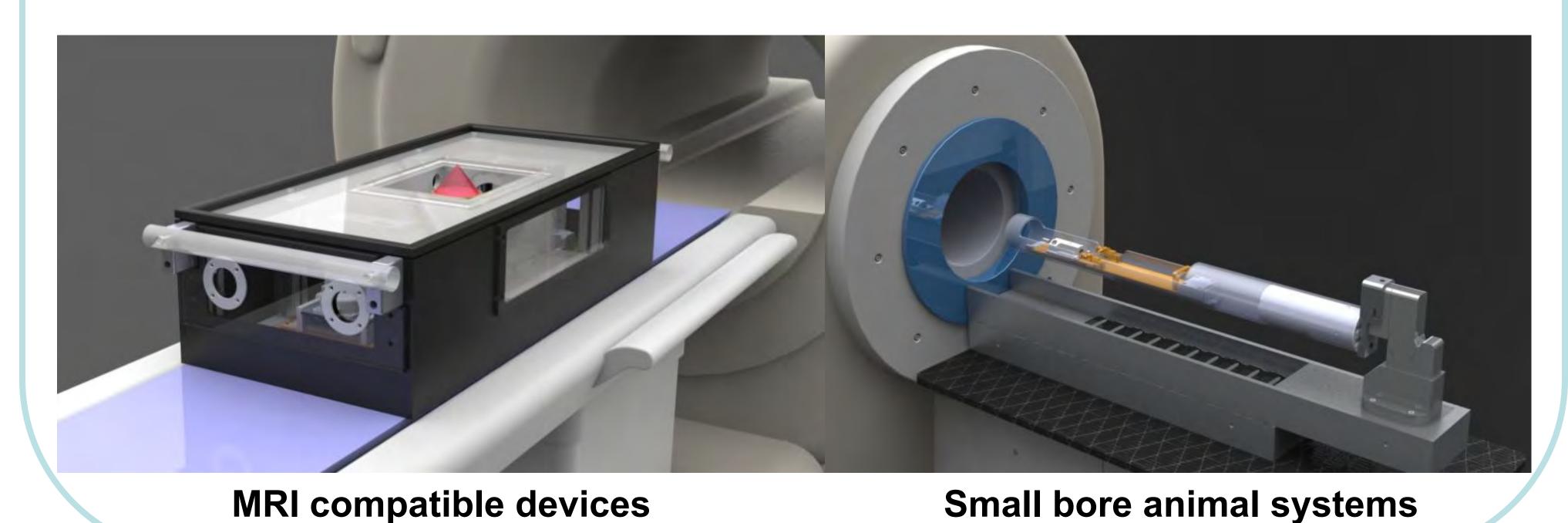
Clinical Experimental

Device Development

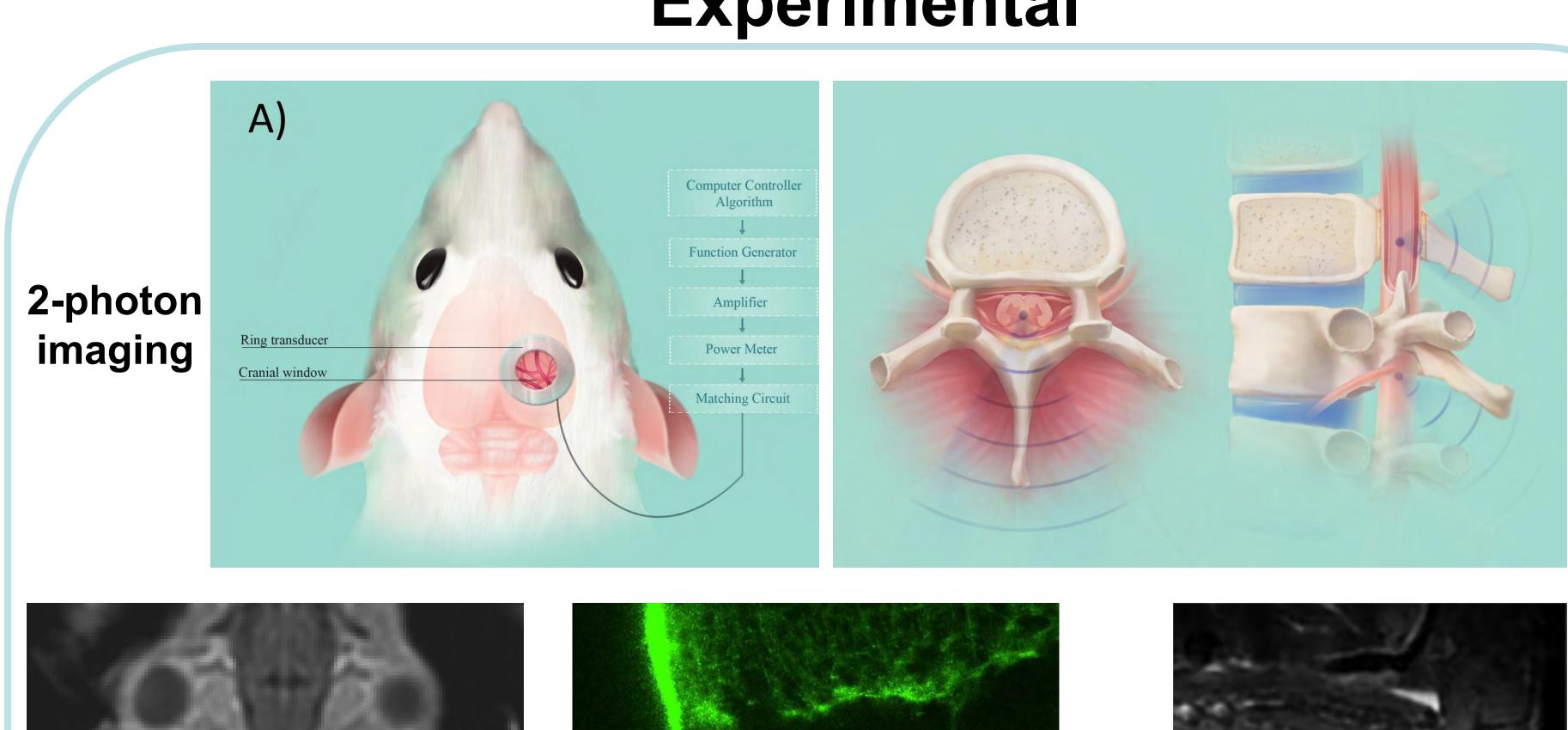


Phased arrays
Transcranial

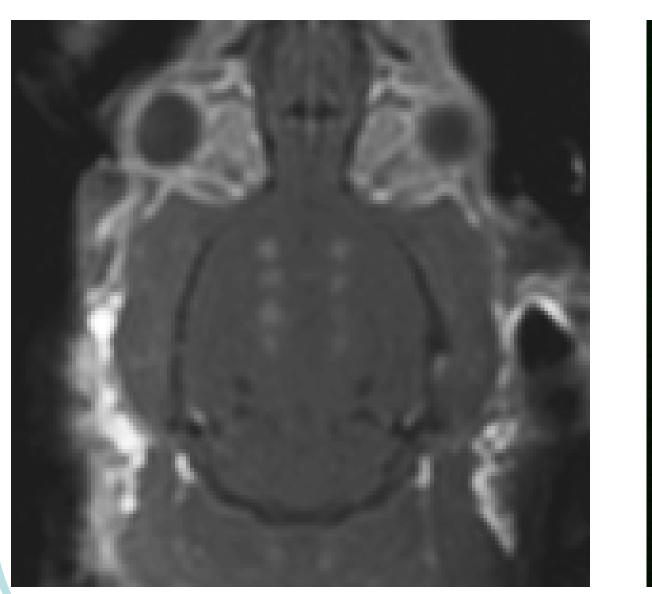
Transcranial transducers and sensors



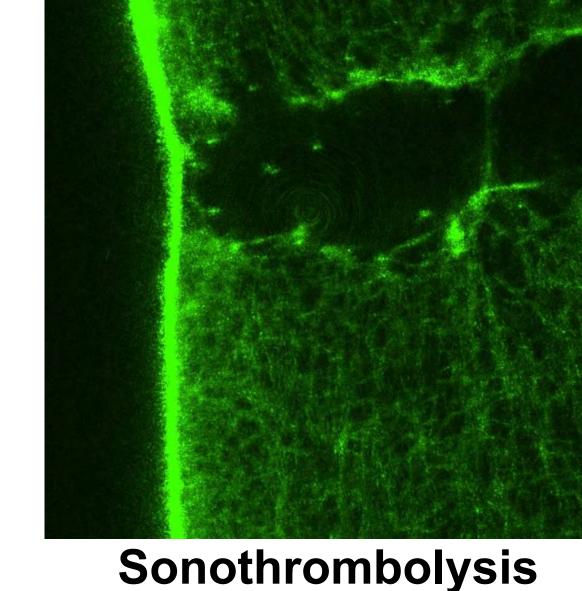
Experimental

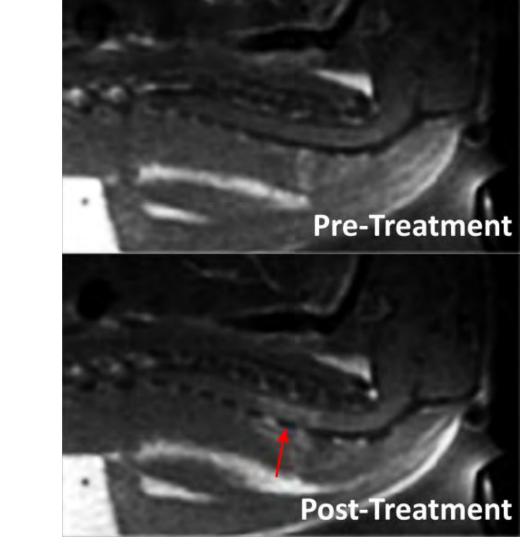


Blood Spine Barrier



Blood Brain Barrier disruption





Clinical

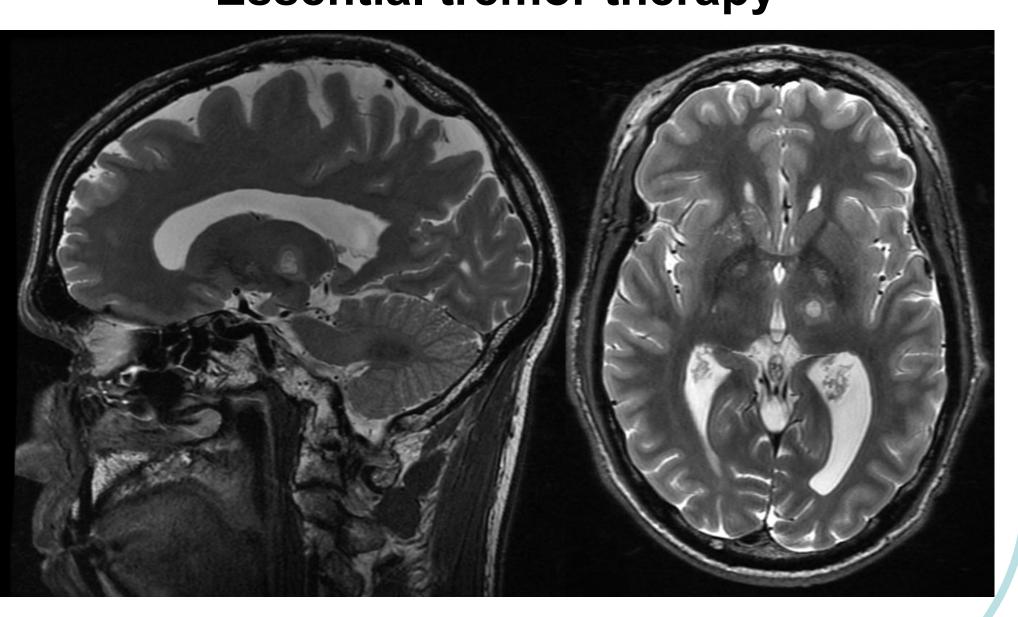


Uterine fibroid ablation





Essential tremor therapy



POTENTIAL APPLICATIONS:

Targeted drug and cell delivery
Gene therapy
Stroke treatment
Alzheimer's disease
Cardiac ablation
Pain palliation
Benign tumor ablation