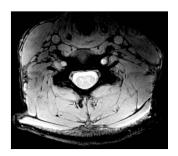
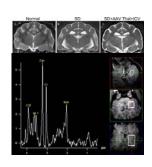


MRI Research Center

Thomas S. Denney Jr., Ph.D., Director

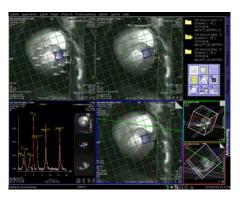






PCS-Specific Activation -- Suppress Vs Maintain

MRI Research Focus Areas



- State-of-the-art ultra-high field MRI
- Human subjects
- Animals
- Brain imaging
- Functional MRI (fMRI)
- Functional connectivity
- Diffusion tensor imaging (DTI)
- Magnetic Resonance Spectroscopy (MRS)
- Cardiovascular imaging
- Spinal cord imaging
- Eye imaging
- **Orthopedic imaging**
 - Knee

COLLABORATIONS

Auburn University

- Samuel Ginn College of Engineering
- Department of Psychology
- College of Veterinary Medicine
- College of Human Sciences

University of Alabama Birmingham

- · Cardiovascular imaging
- Spinal Cord Imaging
- CCTS Partner Network

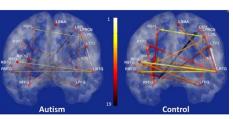
Brain imaging

Alabama Advanced Imaging Consortium



Training

U.S. Army Siemens Healthcare





INTERNATIONAL IMPACT

- Brain connectivity in autism spectrum disorder
- Investigating effects of concussions and post-traumatic stress disorder (PTSD) in active-duty soldiers
- · Awake dog fMRI with olfactory stimulus first in the world
- Evaluating gene-vector therapy for Tay-Sachs Disease
- Detecting early stages of schizophrenia with MR spectroscopy
- Improved diagnosis and management of patients with epilepsy
- Investigating sleep disorders in adolescents with fMRI

