**Orthopedic Specialties** Building, 3rd floor

1313 13th Street South Birmingham, AL 35205

205-975-9042 exercise@uab.edu





Student Internship Programs

Pilot program



# CENTER FOR EXERCISE MEDICINE The University of Alabama at Birmingham

### **Exercise Clinical Trials Facility (ECTF)**

#### **Exercise Intervention Facilities**

- 6000 square feet
- 24 resistant exercise stations
- Olympic barbells, dumbbells, and 2000 pounds of free weight
- 10 stationary cycle ergometers
- 9 treadmills
- 4 rowers



#### **Cardiorespiratory Function Lab**

- Anaerobic power

#### **Neuromuscular Function Lab**

- Joint kinematics (electrogoniometry) and kinetics
- Maximum voluntary strength (isometric and dynamic) testing
- Electrically evoked maximum force measurement
- Neuromuscular power assessment Muscle fatigue testing
- Muscle activation via surface electromyography (EMG)
- Computerized balance assessment
- Computerized gait analysis

To request services: go.uab.edu/ucem-request-for-services or email Amy Miller at millera@uab.edu for more information.

> Join our news list: uab.edu/medicine/exercise/news-events



CENTER FOR

12-lead ECG graded exercise testing Aerobic power, ie VO2Max

Steady state cardiorespiratory and metabolic during submaximal exercise



#### **Recent Clinical Trials Supported**

#### **Principle Investigator**

Thomas Buford, PhD

James Hill, PhD

Thomas Buford, PhD Raymond Jones, PhD

Jane Allendorfer, PhD

Hsiao-Lan Wang, PhD

Merry-Lynn McDonald Donnelly, PhD

Pankaj Arora, MD







Department	Title	Funding Source
Gerontology, Geriatrics, and Palliative Care	Antihypertensives Combined with Exercise for Seniors with Hypertension (ACES)	NIA
	Molecular Transducers of Physical Activity Consortium (MoTrPAC)	NIH
Nutrition	Nutrition for Precision Health (NPH)	NIH
Gerontology, Geriatrics, and Palliative Care	Feasibility of High-intensity Interval Training in Older Adults with HIV and Co-Occurring Hypertension (HARC)	National Institute on Aging-HIV & Aging Research Consortium
Neurology	Effects of Exercise on Memory Deficits and Brain Network Connectivity in Epilepsy (MBI)	MBI Pilot, REACT, UAB Epilepsy Center
	Exercise for Memory Rehabilitation in Epilepsy (EMemRE)	NCMRR
Nursing Family, Community and Health Systems	Reducing Health Disparity of Physical Functioning Among Young Adult Cancer Patients of Color (PAfitME-Strong)	Oncology Nursing Foundation
Pulmonary/ Allergy/ Critical Care	COPD Cachexia Etiology of Low-Lean Muscle (Ccell 2.0)	NHLBI
Cardiology	Genotype Guided-Natriuretic Peptides-Cardiometabolic Health Study (GENESIS)	
	Effect of Natriuretic Peptide Augmentation on Cardiometabolic Health in Black Individuals (NAUTICAL)	NIH
	Race, Natriuretic Peptides and Physiological Perturbations (EBS)	

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