THE

Body Composition Analysis Center

AT THE GERALD J. AND DOROTHY R. FRIEDMAN SCHOOL OF NUTRITION SCIENCE AND POLICY AT TUFTS UNIVERSITY
The Need:

AIDS. Arthritis. Diabetes. Cardiovascular Disease. Cachexia. Sarcopenia. The aging process. All these and a host of other medical conditions have something in common: to understand them and fully treat them effectively, physicians and biomedical researchers, institutions and pharmaceutical manufacturers require detailed and accurate analyses of muscle mass, fat tissue, and other aspects of body composition.

The Body Composition Analysis Center at Tufts University offers an unmatched combination of scientific expertise and cutting-edge computer technology for the analysis of body composition. Associated with the world-class research laboratories for the study of aging, nutrition, and physiology at Tufts, the Body Composition Analysis Center is a leading referral center able to meet the complex data analysis needs of other laboratories, health-care facilities, and research organizations.

Our Services:

Tufts scientists have developed unique technology for reading body composition, enabling them to perform ground-breaking analysis of soft tissue for a wide range of research needs. Combined with the expertise of Tufts researchers, who are recognized as national leaders in their field, make the Body Composition Analysis Center is an unparalleled resource for:

➤ Analysis of CT scans of visceral fat and subcutaneous fat for multi-center trials; analysis of CT scans for muscle and fat regional cross-sectional areas.

➤ Analysis of DXA scans for soft tissue as well as bone components.

The Applications:

The Body Composition Analysis Center offers a variety of specific services to researchers, including:

➤ Precise, accurate, verifiable measurement of body composition endpoints in clinical trials.

➤ Central coordination of data for multi-center intervention or observational studies.

➤ Academic, industrial, governmental and non-governmental organization projects.

➤ Development and validation of new methods for body composition research.

➤ Timely and cost-effective data management, analysis and reporting.

www.bcac.nutrition.tufts.edu

The Body Composition Analysis Center at Tufts University

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Our Team:

The scientist-researchers at the Body Composition Analysis Center offer expertise in a broad array of relevant disciplines, from medicine and nutrition to physics and computer science. Staff members include:

**ROGER A. FIELDING, PHD**
Director, Body Composition Analysis Center
Tufts University Friedman School of Nutrition Science and Policy

Dr. Fielding is Director of the Body Composition Analysis Center and also Director and Senior Scientist of the Nutrition, Exercise Physiology, and Sarcopenia (NEPS) Laboratory at the Jean Mayer USDA Human Nutrition Research Center on Aging, Professor of Nutrition at the Friedman School of Nutrition Science and Policy, and Professor of Medicine at Tufts University School of Medicine. Dr. Fielding is an internationally known researcher who studies the underlying mechanisms contributing to the age-associated decline in skeletal muscle mass, the resultant impact on function, and the potential role of exercise and physical activity on attenuating this process. Dr. Fielding has a strong record of NIH funding and oversaw the development of the interventions for the LIFE (Lifestyle Interventions for Elders) Pilot study and served as the Chair of the LIFE Intervention and Operations Committee. He also is a co-investigator and chair of the Body Composition Analysis committee for the NIA-funded “CALERIE” trial.

For more information on Dr. Roger Fielding, please visit: http://tinyurl.com/yl6jq5c

**ANDREA L. DESILETS, BA, MA (IN PROGRESS)**
Senior research Coordinator, Body Composition Analysis Center

Andrea Desilets acts as main administrator and coordinator of research for the Body Composition Analysis Center. In this position, she acts as the principle contact for the BCAC’s various concurrent studies and their sites, while also maintaining databases, accounting, and contracting. Andrea also provides administrative and grant writing support for Dr. Fielding.

**JUSTIN J. WHEELER, BA, CBDT**
Scan Technician, Body Composition Analysis Center

As the Center’s technical expert, Justin coordinates data analysis and management, regularly analyzing CT and DXA scans from multiple clinical trial sites. He also serves as the secondary DXA operator for the Tufts Medical Center DXA Lab. He is an ISCD Certified Bone Densitometry Technologist.