

CURRICULUM VITAE

NAME: **Melinda Sheffield-Moore, Ph.D.** DATE: April, 2019

POSITIONS: Professor and Department Head (Tenured)
Thomas A. & Joan Read Endowed Chair for Disadvantaged Youth
Department of Health and Kinesiology
Texas A&M University
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Adjunct Professor of Medicine
Department of Internal Medicine
School of Medicine
The University of Texas Medical Branch (UTMB)
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Galveston, Texas 77555-1074
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BIOGRAPHICAL: Date of Birth: August 2, 1965
Place of Birth: San Antonio, Texas
Citizenship: U.S.

EDUCATION:

1983 - 1987	B.S., Physical Education Texas A&M University, College Station, Texas
1988 - 1990	M.Ed., Exercise Science/Exercise Physiology University of Houston, Houston, Texas
1994 - 1997	Ph.D., Human Bioenergetics (Molecular Biology and Physiology) Ball State University, Muncie, Indiana Indiana University, Purdue University, Indiana (IUPUI coursework) David Costill, Ph.D. (mentor)
1997 - 2000	NIH Trauma and Burns Post-Doctoral Fellowship in Metabolism Department of Surgery, Metabolism Unit The University of Texas Medical Branch, Galveston, Texas Emphasis: Human Metabolism and Endocrinology Mentors: Robert R. Wolfe, Ph.D./Randall J. Urban, M.D.

ADDITIONAL COURSES AND TRAINING:

1997	Tracer Methodology Course in Biology and Medicine The University of Texas Medical Branch, Galveston Texas
1999	Ethics of Scientific Research Course (MEHU 6101)

- 2002 The University of Texas Medical Branch, Galveston, Texas
Fellowship in Contrast Enhanced Ultrasound
Myocardial and Skeletal Muscle Perfusion Imaging
University of Virginia School of Medicine, Charlottesville, Virginia
- 2003 Introductory Facilitator Training Workshop
School of Medicine
The University of Texas Medical Branch, Galveston, Texas
- 2004 Achieving Patient Benefits from Microdialysis
A General Clinical Microdialysis Course
The Karolinska Institute, Stockholm, Sweden

PROFESSIONAL EXPERIENCE:

- 1989 - 1990 NIH Research Assistant
School of Public Health
Department of Community Health and Preventive Medicine
University of Texas Health Science Center, Houston, Texas
- 1990 NIH Research Assistant
USDA Children's Nutrition Research Center
Baylor College of Medicine, Houston, Texas
- 1990 - 1994 Experiment Support Scientist
Martin Marietta Services, Life Sciences Project Division
NASA Johnson Space Center, Houston, Texas
- 1995 NASA Pre-Doctoral Research Fellow
Department of Aeronautics and Astronautics
Purdue University, Lafayette, Indiana
- 1996 Instructor, Human Physiology
Department of Health and Human Performance
Ball State University, Muncie, Indiana
- 1997 – 1999 NIH Trauma and Burns Post-Doctoral Fellow (Metabolism)
Department of Surgery and Shriners Burns Hospital
The University of Texas Medical Branch, Galveston, Texas
- 2000-2017 Fellow, Sealy Center on Aging
The University of Texas Medical Branch, Galveston, Texas
- 2000 – 2004 Assistant Professor
Scientific Staff, Shriners Hospital for Children
Department of Surgery, Metabolism Unit
The University of Texas Medical Branch, Galveston, Texas
- 2004 Assistant Professor
Department of Internal Medicine, Division of Endocrinology

The University of Texas Medical Branch, Galveston, Texas

2004-2017 Faculty, Cell Biology Graduate Program
Graduate School of Biomedical Sciences
The University of Texas Medical Branch, Galveston, Texas

2005-2010 Associate Professor
Department of Internal Medicine
Division of Endocrinology and Metabolism
The University of Texas Medical Branch, Galveston, Texas

2007 Tenured Associate Professor
Department of Internal Medicine
Division of Endocrinology and Metabolism
The University of Texas Medical Branch, Galveston, Texas

2006 – 2009 Director, Core and Imaging Laboratory
General Clinical Research Center (GCRC)
Assistant Program Director of GCRC
The University of Texas Medical Branch, Galveston, Texas

2009-2017 Executive Leadership Committee, Claude Pepper Aging Center
The University of Texas Medical Branch, Galveston, Texas

2009 - 2015 Associate Director, Institute of Translational Sciences (ITS) Clinical
Research Center (CRC)
The University of Texas Medical Branch, Galveston, Texas

2009 - 2015 Director, ITS Translational Technologies Key Resource and
Director of the Core and Imaging Laboratories
The University of Texas Medical Branch, Galveston, Texas

2009 - 2015 Director, ITS CRC Biorepository
The University of Texas Medical Branch, Galveston, Texas

2010 – 2017 Professor (Tenured)
Department of Internal Medicine
Division of Endocrinology and Metabolism
The University of Texas Medical Branch, Galveston, Texas

2017 – present Professor and Department Head (Tenured)
Thomas A. & Joan Reid Endowed Chair for Disadvantaged Youth
Department of Health and Kinesiology
Texas A&M University, College Station, Texas

2017 – present Adjunct Professor of Medicine
Department of Internal Medicine
School of Medicine
The University of Texas Medical Branch

RESEARCH ACTIVITIES:

Areas of Research: I am the Director of the Aging and Translational Research in Medicine (ATM) Lab at Texas A&M University. Much of my ongoing collaborations occur within the Texas A&M Human Clinical Research Facility and within the School of Medicine at The University of Texas Medical Branch where I began my career. My human clinical research program is focused on investigating the systemic and skeletal-muscle specific endocrine and metabolic dysfunction that accompanies cancer, aging, spaceflight, and traumatic brain injury. My laboratory conducts human clinical trials using novel therapeutic interventions to stem the phenotypic consequences that accompany the sarcopenia of aging, spaceflight, the cachexia of cancer, and the endocrine, metabolic and functional consequences of traumatic brain injury. My laboratory collaborates extensively across medical and scientific disciplines to investigate the mechanism behind the metabolic and functional consequences of skeletal muscle growth and loss including inflammation, oxidative stress and mitochondrial dysfunction. Finally, my clinical translational research program has been continuously funded since 2000 by the NIH, NASA, as well as through private endowments.

ACTIVE GRANT SUPPORT:

Private Endowment

Sheffield-Moore, M. (PI) and Randall J Urban, MD (Co-PI)

4/01/14 – 03/31/20

The Moody Endowment

Effect of GHRH on Cognitive Function in Individuals with Mild Cognitive Impairment

The major goal of this project is to assess the efficacy of GHRH administration on cognitive function, body composition, fatigue and brain morphology in MCI patients.

Private Endowment

Sheffield-Moore, M. (PI) and Randall J Urban, MD (Co-PI)

1/01/18 – 12/31/20

The Moody Endowment

Brain and Gut Plasticity in Mild TBI Following Growth Hormone Therapy

The major goal of this project is to assess the efficacy of growth hormone administration on cognitive function, body composition, fatigue, brain morphology, and GI microbiome in patients suffering from a mild traumatic brain injury.

R01 CA127971

Sheffield-Moore, Melinda (PI)

04/18/08-01/31/16

NIH/NCI

Nutrition and Anabolic Interventions in Cancer Cachexia

Currently completing manuscripts following move to TAMU. Resubmission in October 2019.

PENDING RESEARCH SUPPORT

DM190121

Department of Defense (DOD)

PI: Randall Urban

A&M PI: Melinda Sheffield-Moore

Susceptibility and Treatment of a Traumatic Brain Injury Syndrome

FY19 Defense MRDP - Multi-Domain Lifesaving Trauma Innovations Award – Clinical Trial
TAMU X-Grant Program

PI: David Zawieja; Co-I: Melinda Sheffield-Moore and others

New Health Discoveries Through Space Life Science Research

The goal is to study the effects of the space environment on whole-body, tissue, organ and cellular responses in humans and animals to expand our understanding of how unique environmental challenges affect the biological processes, health, and disease.

NASA HERO: Countermeasures for Mitigation of Spaceflight Associated Neuro-ocular Syndrome

PI: Ana Diaz Artilles; Col: Melinda Sheffield-Moore and others

Preconditioning, Lower Body Negative Pressure, and Exercise as Potential Countermeasures for SANS

This grant will investigate whether preconditioning, LBNP, and exercise will protect astronauts from SANS induced by HDT bed rest and/or spaceflight.

1R21AR064829

Sheffield-Moore, M and Vincent, Kathleen (Multi-PI)

NIH/NIDDK

Sildenafil Therapy for Symptom Reduction in Urinary Incontinence

The goal of this grant is to assess the efficacy of sildenafil to reduce symptoms of urinary incontinence in older women.

1R01 Sheffield-Moore, M and Tilton, RG (Multi-PI)

NIH

A Novel Regulator of the Metabolic Consequences of Glucocorticoid Therapy

The goal of is to interrogate skeletal muscle NIK signaling in older men receiving graded doses of methylprednisolone or placebo to better understand the phenotypic consequences of glucocorticoids on human skeletal muscle.

PAST GRANT SUPPORT:

NNX10AP86G

(PI: Urban, R /Co-PI: Sheffield-Moore, M)

07/30/10-07/29/16

NASA

Testosterone and Leucine as Gender Specific Countermeasures Against Musculoskeletal Losses During Space Exploration

The goal of this project is to determine if providing anabolic agents during simulated microgravity (70 days bed rest) will prevent inactivity-induced loss of skeletal muscle mass and function.

Role: Co-PI

1UL1RR029876

Brasier, AR (PI)

07/14/09-08/31/15

NIH/NCRR

UTMB Clinical and Translational Science Award

Role: Director of ITS Translational Technologies Resource; Director of ITS CRC Biorepository

R43 AR054993

Janghorbani, M (PI)

07/01/2012 – 06/30/2015

NIH/NIAMS

Non-invasive Assessment of Skeletal Muscle Loss in Cancer Patients, Phase-II

The goal of this project is to develop a non-invasive approach for assessment of *de novo* 3MH production in cancer patients or others with chronic illnesses early in the course of the disease as a way of assessing which patients are at high risk for development of skeletal muscle atrophy.

Role: Co-I

Moody Endowment Urban, RJ (PI) 09/01/011 – 08/31/16
Private Endowment

Long-Term Testosterone Therapy in Older Men at Risk for Loss of Physical Independence

The major goal of this outcome-driven project is to assess the long-term safety and efficacy of testosterone at enhancing skeletal muscle mass and strength in older men.

Role: Co-I

Moody Endowment Sheffield-Moore (PI) 09/01/011 – 08/31/16
Private Endowment

Viagra as a Means to Improve Muscle Health in Older Men and Women

The major goal of this outcome-driven project is to assess the efficacy of sildenafil as a means of improving muscle mass and decreasing muscle fatigue in older men and women.

P30 AG017231
(PI: Volpi, E)
05/01/15 - 04/30/20
NIH/NIA

UTMB Claude Pepper Older Americans Independence Center (OAIC)

The major goals of this center grant is to conduct basic and clinical research on ways for elderly Americans to lead a more independent life for as long as possible. The center is focused on the effect of aging on skeletal muscle and protein metabolism.

Role: Core Co-Leader

5RO1 AG021539 Sheffield-Moore, M (PI) 09/01/03 - 5/31/010
NIH/NIA

Muscle Perfusion and Protein Metabolism in Elderly and Young

Moody Foundation Urban, RJ (PI) 09/01/08 – 08/31/12
Private Foundation

Testosterone and Losartan Therapy in Older Men and Women at Risk for Loss of Physical Independence

R01 AG022023 Urban, RJ (PI) 01/01/04 – 12/30/10
NIH/NIA

Cyclic Testosterone on Muscle Function in Older Men

1 R43 AR054993 Sheffield-Moore, M (Proj. Dir.) 09/01/08 - 5/31/10
NIH/NIA

Non-Invasive Assessment of Skeletal Muscle Loss in Cancer Patients

P30 A024832 Sheffield-Moore, M (PI) 06/15/05 – 04/30/06
NIH/NIA

Cyclic Testosterone and Bone Turnover in Older Men

P60 AG17231 Goodwin, JS (PI) Urban, RJ (Proj. Dir.) 02/01/00–01/31/05
NIH/NIA

Effects of Androgens and Nutrition on Muscle Function in Older Americans

NAS 9-97043 Ferrando, AA (PI) 02/01/97-01/31/02
NASA

Protein Turnover During Space Flight

SBC9596 Sheffield-Moore, M (PI) 09/01/95-08/15/96
Specialized Bicycles

Thermoregulatory Effects of Cycling With and Without a Helmet

COMMITTEE & SPEAKING RESPONSIBILITIES:

International:

- 2006 Co-Chair, Symposium of "Functional Foods and Amino Acids," 1st International Congress for Medical Use of Functional Foods, Tokyo, Japan
- 2011 Invited Speaker and Panel Member, Symposium on "Amino Acid Nutrition and Sarcopenia" at the 5th Annual Meeting of the Japanese Society for Amino Acid Sciences (JSAAS), Nagoya, Japan
- 2012 Invited Speaker and Panel Member, Symposium on "Nutrition and Training Adaptation," at the 15th International Biochemistry of Exercise Conference, Stockholm, Sweden

National:

- 2004 Ad Hoc Member, Peer Review Medical Research Program (PRMRP) American Institute for Biological Sciences (AIBS) Department of Defense (DOD)
- 2004-2005 Member, Claude Pepper Older Americans Independence Center Junior Faculty Committee
- 2006 Co-Chair, Symposium on "Protein and Amino Acid Metabolism I: Aging and Sarcopenia," Annual Scientific Meeting of the Federation of American Societies for Experimental Biology, San Francisco, CA
- 2006-2008 Ad Hoc Member, NIH Study Section: Skeletal Muscle and Exercise Physiology, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), Washington, D.C.
- 2006-2008 Member, American Heart Association Western Review Consortium Grant Review Committee
- 2006-2009 Consultant, GlaxoSmithKline, Scientific Advisory Board on Selective Androgen Receptor Modulators
- 2007 Chair, Symposium on "Protein and Sarcopenia in the Elderly," Annual Scientific Meeting of the Federation of American Societies for Experimental Biology, Washington, D.C.

- 2008 Chair, Symposium on “Androgens and Aging,” Annual Scientific Meeting of the Federation of American Societies for Experimental Biology, San Diego, CA.
- 2008 – 2012 Regular Member, NIH Study Section: Skeletal Muscle and Exercise Physiology, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), Washington, D.C.
- 2009 Chair, Symposium on “Protein and Amino Acid Metabolism,” Annual Scientific Meeting of the Federation of American Societies for Experimental Biology, New Orleans, LA
- 2009 – 2010 Consultant, Ligand Pharmaceuticals, Scientific Advisory Board on Selective Androgen Receptor Modulators
- 2010 Invited Panel Member, NIAMS Roundtable on “Exercise-Induced Health,” Washington, DC, November.
- 2012 Invited Speaker “Advances in Skeletal Muscle Biology in Health & Disease,” University of Florida, Gainesville, FL, March.
- 2012 Invited Speaker “Peripheral Vasodilation and Muscle Metabolism,” Annual Pepper Center meeting, Washington, DC, April.
- 2013 Ad hoc Reviewer, NIH/NCI ZCA1GRB-1 (M1) R Study Section: Provocative Questions: Cancer Therapy and Outcomes, October.
- 2013 Ad hoc Reviewer, NIH/NIAMS ZRG1 MOSS Q(14) Study Section, July.
- 2013 Invited Speaker “Skeletal muscle's mid-life crisis: metabolic mayhem or controlled chaos in cancer and aging? University of Kentucky, Lexington, KY, August.
- 2013 Invited Speaker “Muscle Microvascular Blood Flow & Aging,” Reynolds Institute on Aging and the University of Arkansas Pepper Center, December.
- 2014 Invited Speaker “Advances in Skeletal Muscle Biology in Health & Disease,” University of Florida, Gainesville, FL, March.
- 2014 Invited Speaker “Novel Methods in Human Studies of Aging and Cancer: A Multidisciplinary Team Science Approach” University of Florida, Gainesville, FL, May.
- 2015 Invited Speaker at the University of Denver Health Science Center Endocrine Grand Rounds, April.
- 2015 Invited Speaker at the University of Denver Health Science Center Exercise Metabolism Research Group, April.

- 2015 Invited Speaker at the University of Denver Health Science Center Diabetes Research Group, April.
- 2015 Invited Speaker at University of Texas Health Science Center Integrative Biology and Pharmacology Lecture Series, April.
- 2016 Invited Speaker at The Endocrine Society Annual Meeting, Meet the Professor Symposium on Traumatic Brain Injury, Boston, MA, April.
- 2016 Invited Speaker at the Cancer Cachexia 2016 meeting, Update on Clinical Trial Results, Washington, D.C., September.
- 2016 Scientific Planning Committee, Cancer Cachexia 2016 meeting, Washington, D.C., September.
- 2017 Invited Speaker at the International Whey Conference, Nutrition Session on Body Composition, Latest on Weight Loss, Associated with Non-Communicable Diseases, Consumer Perceptions: "WHEYing our Options for Whey Use in Non-Communicable Diseases," Chicago, Illinois, September.
- 2017 Invited Panelist, International Whey Conference, Nutrition Session on Body Composition, Latest on Weight Loss, Associated with Non-Communicable Diseases, Consumer Perceptions, Chicago, Illinois, September.
- 2017 Invited Speaker, Texas A&M University Huffines Institute, Hilliard Discussion Scholar, "Aging Skeletal Muscle and the Little Blue Pill," TED Talk, Rudder Auditorium, College Station, Texas, November
- 2018 Invited Speaker, Gulf Coast Vascular Research Consortium, Microvascular Blood Flow: Is it the Holy Grail of Healthy Aging? Texas A&M Health Science Center, College Station, Texas, March.
- 2018 Session Chair, 4th Cancer Cachexia Conference, Philadelphia, PA, September.
- 2019 Institute for Molecular Medicine, UT-Houston McGovern Medical School, Texas Medical Center, April 18-19, Houston, Texas.
- 2019 Invited Speaker, Sports Nutrition Symposium, U.S. Speed Skate Olympic Oval High Performance Center, August 15; Kearns, UT

Institutes, Centers and Committees (UTMB):

- 2000 – 2007 Member, Institutional Review Board
- 2002 – 2006 Member, School of Medicine Year 2 Endocrinology and Reproduction Course Committee

2005	Member, Selection Committee for The Ruby Decker Endowed Professorship, School of Allied Health, Dept. of Physical Therapy
2005 – 2008	Member, Cell Biology of Tissues Course Committee, GSBS
2005-2008	Member, Faculty Search Committee for the Division Chief of Endocrinology, School of Medicine
2006-2008	Senator, School of Medicine, UTMB Faculty Senate
2006 - 2009	Assistant Program Director, General Clinical Research Center
2006-2009	Director, GCRC Core and Imaging Laboratories
2006-2009	Member, GCRC Executive Committee
2006-2009	Member, GCRC Scientific Advisory Committee
2008-2016	Member, UTMB Cancer Center
2008 – 2017	Member, Pepper Center Executive Committee
2009-2015	Associate Program Director, Institute for Translational Sciences (ITS) Clinical Research Center (Clinical Research Center)
2009-2015	Director, ITS Translational Technologies Key Resource, Core and Imaging Laboratories
2009 – 2015	Member, ITS CRC Executive Committee
2009 – 2015	Member, ITS Operations Committee
2009 – 2015	Chair, ITS Biorepository Oversight Committee
2009 – 2015	Member, University Core Development Committee
2009- 2016	Member, Cancer Center Steering Committee
2009 – 2010	Chair, Search Committee for Faculty Member of Sealy Center on Aging and the Division of Geriatrics, Research Nutritionist
2012-2017	Member, School of Health Professions Promotion and Tenure Committee (DACTAP)
2012-2017	Chair, Internal Medicine APT Committee of Professors
2013-2017	Member, Research Support Steering Committee Meeting
2013-2017	Member, Faculty Performance Evaluation Committee (FPEC)

2015 – 2017 Member, Cell Biology Graduate Program Executive Committee

Institutes, Centers and Committees (TAMU):

2017 Member, Center for Translational Research in Aging & Longevity
2017 Member, Huffines Institute for Sports Medicine and Human Performance Internal Advisory Board
2017 Member, Dean's Council for the College of Education and Human Development
2017 Member, Dean's Leadership Team, College of Education and Human Development

TEACHING RESPONSIBILITIES (UTMB):

School of Medicine (SOM):

2001 Lecturer, Department of Ob-Gyn, Grand Rounds
2001-2017 Lecturer, Sealy Center on Aging, Pepper Investigator's Meeting
2002-2003 Lecturer, National Youth Leadership Forum on Medicine
2003 - 2009 PBL Facilitator, Endocrinology/Reproduction Course
2003 - 2008 Lecturer, Gastrointestinal/Nutrition Course
2005 Mentor, Medical Student Summer Preceptorship (Aaron G. Matlock, UTMB School of Medicine)
2006 CDMX Evaluator, Endocrinology/Reproduction Course
2006-2007 Facilitator, National Youth Leadership Forum on Medicine
2006-2008 PBL Facilitator, Cardiovascular/Pulmonary Course
2006-2012 Weekly Facilitator, Pepper Center Translational Research on Aging Muscle (TRAM) Group
2007 Lecturer, School of Medicine Practice of Medicine Course
2009 Invited Lecturer, UTMB Comprehensive Cancer Center
2013 Invited Lecturer, UTMB Center for Biomolecular Engineering

UTMB Department of Surgery:

1997 – 2000 Monthly Lecturer, Shriners Children's Hospital Fellows Meeting

1999 – 2002	Mentor, PMCH Graduate Student (Catherine Weikart Yeckel)
2000 – 2004	Mentor, Post-Doctoral Fellow (Douglas Paddon-Jones, PhD)
2000 – 2004	Mentor, Post-Doctoral Fellow (Christos Katsanos, PhD)
2001	Mentor, Medical Student Summer Research Program (Elizabeth Casiano, Brown University Medical School)
2002 – 2004	Mentor, MD/PhD Student (Melanie G. Cree, SOM, PMCH)
2003 – 2004	Mentor, Texas A&M University Undergraduate Student Undergraduate Internship Program, (Jennifer Jones)

Department of Internal Medicine (UTMB):

2004-2017	Division of Endocrinology Faculty Lecture Series
2004-2008	Doctoral Committee Member (Carwyn P. Sharp, PMCH, Metabolism Unit)
2005-2006	Research Mentor, Nelson Newberry, MD (Internal Medicine Resident-PGL3)
2005-2007	Research Mentor, Kishore M. Lakshman, MD (Internal Medicine Resident – PGL2 & 3)
2006-2007	Research Mentor, Mehrukh Mujeeb, MD (Internal Medicine Resident – PGL2)
2007-2008	Research Mentor, Neel Shah, MD (Internal Medicine Resident – PGL2 &3)
2007 – 2008	Research Mentor, Susan Sanders, MD (Internal Medicine Resident PGL-3)
2007-2010	Mentor, Postdoctoral Fellow, (Internal Medicine, Lichar Dillon, PhD, T32 NCI Cancer Fellowship)
2008-2017	Mentor, Assistant Professor (Internal Medicine, William J. Durham, PhD)
2010	Mentor, Summer Undergraduate Research Student (Graeme Segal, UT Austin) Project: “Testosterone and Inflammatory Markers in Older Men” received the award for Best Clinical Research Project.
2011	Mentor, Medical Student Summer Research Program (Linda Yang (MS2) and Deandria Levine (MS2))

2011-2017	Mentor, Assistant Professor (Internal Medicine, Edgar Lichar Dillon, PhD)
2011-2012	Mentor, Post-Doctoral Fellow (Internal Medicine, Astrid Horstman, PhD)
2011-2017	Mentor for Internal Medicine Intern and Resident Research Rotation
2015-2017	Mentor, Post-Doctoral Fellow (Internal Medicine, Traver (Tray) Wright, PhD)
2015-2017	Mentor, Post-Doctoral Fellow (Internal Medicine, Albert Chamberlain, MD)

Graduate School of Biomedical Sciences (UTMB):

1997	Lecturer, Basic and Applied Nutrition: PMCH 6456
2005-2007	Chair & Mentor, Cell Biology Graduate Student (Edgar L. Dillon)
2006 - 2009	Lab Rotation Mentor, (Chris Fry and Kimberlee Burckart)
2005 - 2011	Lecturer, Cell Biology of Tissues: CELL 6503
2006 - 2012	Chair, Cell Biology Graduate Student (Shanon L. Casperson)
2007-2011	Lecturer, PMCH Tracer Methodology Course: PHS6355
2009-2011	Member, PMCH Doctoral Committee, (William E. Amonette)
2009-2013	Member, Rehabilitation Sciences Doctoral Committee, (K. English)

Graduate Program in Kinesiology (TAMU):

2019-present	TAMU & West Point Graduate Program (Nargis Mougey)
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MEMBERSHIP IN SCIENTIFIC SOCIETIES:

1988 - present	American College of Sports Medicine (ACSM)
1995 - present	American Physiological Society (APS)*
1999 - present	The Endocrine Society
2004 - present	American Diabetes Association (ADA)* (Elected member)*
2005 - present	The Gerontological Society of America
2006 - present	American Society of Nutrition
2009 - present	Society for Clinical and Translational Sciences (SCTS)
2017 - present	American Association for the Advancement of Science (AAAS)

HONORS:

1983 - 1987	Varsity Member, Handball Team Texas A&M University, College Station, Texas
1986 - 1987	Distinguished Student Award (3 semesters) Texas A&M University, College Station, Texas
1992	Peer Recognition Award Martin Marietta/NASA Johnson Space Center, Houston, Texas
1990 - 1994	NASA Johnson Space Center Mission Commendation Awards Spacelab Life Sciences 1 & 2 International Microgravity Laboratory 1 International Microgravity Laboratory 2
1994 - 1997	Human Performance Laboratory Pre-Doctoral Scholarship Ball State University, Muncie, Indiana
1996	NASA & Indiana Space Grant Consortium Summer Scholarship Purdue University, Lafayette, Indiana
1996 - 1997	NASA & Indiana Space Grant Consortium Student Research Award Ball State University, Muncie, Indiana
2001 – 2003	Claude Pepper Older Americans Independence Center Junior Investigator Award The University of Texas Medical Branch, Galveston, Texas
2007	Bowditch Award Nominee, American Physiological Society

ADDITIONAL INFORMATION

2000 - 2017	Interviewer, SOM Medical School Applicants
2000, 2005	Mentor, Medical Student Summer Research Program
2001 - present	Invited Reviewer: Journal of Clinical Endocrinology and Metabolism American Journal of Physiology Endocrinology and Metabolism Journal of Applied Physiology Steroids Exercise and Sport Sciences Reviews Medicine and Science in Sports and Exercise American Journal of Clinical Nutrition American Journal of Physiology GI and Liver Physiology Clinical Nutrition Journal of Physiology Nature Medicine

2002	Faculty Coordinator, Pepper Center Volunteer Appreciation Symposium
2002	Lecturer, Pepper Center Volunteer Appreciation Symposium
2001 - 2003	Judge, Pepper Center Fall Research Symposium
2001 - 2004	Faculty Research Coordinator, Sealy Center on Aging, Claude Pepper Center Grant, IDS –1 and 2 Metabolism Projects
2002 - 2004	Member, Doctoral Committee, Siripoom McKay, MD Baylor College of Medicine, Clinical Scientist Training Program
2002 - 2005	Faculty Coordinator, Sealy Center on Aging, Claude D. Pepper Monthly Investigator's Meeting
2002 - 2005	Faculty Coordinator, Sealy Center on Aging and Claude D. Pepper Recruitment Core
2007	Grant Reviewer, John Sealy Memorial Endowment Fund for Biomedical Research
2005 – 2017	Pilot Grant Reviewer, Claude Pepper Aging Centers: UTMB, Wake Forest University

BIBLIOGRAPHY:

Published Articles in Peer-Reviewed Journals (79 total):

Starling, R.D., Trappe, T.A., Short, K.R., **Sheffield-Moore, M.**, Jozsi, A.C., Fink, W.J. and Costill, D.L. Effect of inosine supplementation on aerobic and anaerobic cycling performance. *Med. Sci. Sports Exer.* 28(9): 1193-1198, 1996.

Short, K. R., **Sheffield-Moore, M.** and Costill, D.L. Multiple preexercise carbohydrate feedings do not prevent exercise-onset hypoglycemia. *Int. J. Sports Nutr.* 7(2):128-137, 1997.

Sheffield-Moore, M., Short, K.R., Kerr, C.G., Parcell, A.C., Bolster, D.R. and Costill, D.L. Thermoregulatory responses to cycling with and without a helmet. *Med. Sci. Sports Exer.* 29(6): 755-761, 1997.

Bolster, D. R., Trappe, S.W., Short, K.R., **Sheffield-Moore, M.**, Parcell, A.C., Schulze, K.E. and Costill, D.L. Effects of precooling on thermoregulation during subsequent exercise. *Med. Sci. Sports Exer.* 31(2): 251-257, 1999.

Sheffield-Moore, M., Urban, R.J., Wolf, S.E., Jiang, J., Catlin, D.H., Herndon, D.N., Wolfe, R.R. and Ferrando, A.A. Short-term oxandrolone administration stimulates net muscle protein synthesis in young men. *J. Clin. Endocrinol Metab* 84(8): 2705-2711, 1999.

Ferrando, A.A., Stuart, C.A., **Sheffield-Moore, M.**, and Wolfe, R.R. Inactivity amplifies the catabolic response of skeletal muscle to cortisol. *J. Clin. Endocrinol Metab* 84(10): 3515-3521, 1999.

Sheffield-Moore, M., Wolfe, R.R., Gore, D.C., Wolf, S.E., Ferrer, D.M., and Ferrando, A.A.. Combined effects of hyperaminoacidemia and oxandrolone on skeletal muscle protein synthesis. *Am. J. Physiol. Endocrinol. Metab.*, 278: E273-E279, 2000.

Volpi, E., **Sheffield-Moore, M.**, Rasmussen, B.B. and Wolfe, R.R. Basal muscle amino acid kinetics and protein synthesis in healthy young and older men. *JAMA* 286(10):1206-1212, 2001.

Ferrando, A.A., **Sheffield-Moore, M.**, Wolf, S.E., Herndon, D.N. and Wolfe, R.R. Testosterone administration in severe burns ameliorates muscle catabolism. *Crit. Care Med* 29(10):1936-1942, 2001.

Casiano, E.R., Paddon-Jones, D., Ostir, G.V. and **Sheffield-Moore, M.** Assessing functional status measures in older adults: A guide for healthcare professionals. *Physical Therapy Reviews*, 7: 89-101, 2002.

Ferrando, A.A., **Sheffield-Moore, M.**, Yeckel, C.W., Gilkison, C., Jiang, J., Achacosa, T., Lieberman, S.A., Tipton, K., Wolfe, R.R. and Urban, R.J. Testosterone administration to older men improves muscle function: molecular and physiological mechanisms. *Am. J. Physiol. Endocrinol. Metab.*, 282(3), E601-E607, 2002.

Ferrando, A.A., **Sheffield-Moore, M.**, Paddon-Jones, D., Wolfe, R.R. and Urban, R.J. Differential anabolic effects of testosterone and amino acid feeding in older men. *J. Clin. Endocrinol Metab* 88(1): 358-362, 2003.

Paddon-Jones-D., **Sheffield-Moore, M.**, Creson, D.L., Sanford, A.P., Wolf, S.E., Wolfe, R.R. and Ferrando, A.A. Hypercortisolemia alters muscle protein anabolism following ingestion of essential amino acids. *Am. J. Physiol. Endocrinol. Metab.*, 284(5), E946-E953, 2003.

Volpi, E., Kobayashi, H., **Sheffield-Moore, M.**, Mittendorfer, B. and Wolfe, R.R. Essential amino acids are primarily responsible for the amino acid stimulation of muscle protein anabolism in healthy elderly adults. *Amer. J. Clin Nutr.* 78(2), 250-258, 2003.

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Invited Reviews:

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Burckart, K., Beca, S., Urban, R.J., and **Sheffield-Moore, M.** Pathogenesis of muscle wasting in cancer cachexia: targeted anabolic and anti-catabolic therapies. *Current Opinions in Clin Nutr.*, 13(4): 410-416, 2010.

Durham W.J., Dillon E.L., and **Sheffield-Moore M.** Skeletal muscle microvascular perfusion: mediator of age-related anabolic resistance? *Journal of the Japanese Society for Amino Acid Sciences*, 2012.

Invited Lectures:

National:

“Muscle protein metabolism in health and disease: the role of anabolic agents as therapeutic interventions.” Kimberly Schulze Memorial Lecture, Department of Health and Human Performance, Ball State University, Women in Physiology Lecture Series, Muncie, Indiana, October, 2000.

“Nutritional interventions to improve muscle protein metabolism during stress.” NASA Bioastronautics Meeting, Moody Gardens Conference Center, Galveston, Texas, January, 2001.
“Muscle protein metabolism and aging: the role of nutrition and exercise as therapeutic interventions.” The Kronos Aging Institute, Phoenix, Arizona, March, 2002.

“Aging and Muscle Protein Metabolism.” Exercise Physiology Seminar Series, Texas A&M University, College Station, Texas, September, 2004.

“Androgens and SARMS in the Regulation of Skeletal Muscle Protein Synthesis.” GlaxoSmithKline Pharmaceutical Company, Research Triangle Park, North Carolina, May 2008.

“Androgens and the Control of Skeletal Muscle Protein Synthesis in Humans.” Adult Skeletal Muscle Symposium: Clinical Problems, Molecular Targets. University of Kentucky, Lexington, Kentucky, October, 2008.

“Advances in Skeletal Muscle Biology in Health & Disease,” University of Florida, Gainesville, FL, March, 2012.

“Peripheral Vasodilation and Muscle Metabolism,” Annual Pepper Center meeting, Washington, D.C., April, 2012

“Skeletal muscle's mid-life crisis: metabolic mayhem or controlled chaos in cancer and aging?” University of Kentucky, Lexington, KY, August, 2013.

“NASA Human Research Program: CFT70 Bed Rest” February, 2014

“Advances in Skeletal Muscle Biology in Health & Disease,” University of Florida, Gainesville, FL, March, 2014.

“Novel Methods in Human Studies of Aging and Cancer: A Multidisciplinary Team Science Approach,” University of Florida, Gainesville, FL, May, 2014.

“Skeletal Muscle’s Mid-Life Crisis: Metabolic Mayhem or Controlled Chaos in Cancer and Aging,” University of Denver Endocrine Research Talk, Denver, CO, April, 2015.

“Microvascular Blood Flow: Is it the Holy Grail of Healthy Aging?” University of Denver Exercise and Metabolism Research Lecture, Denver, CO, April, 2015.

“Contemporary Challenges and New Insights in Endocrine and Metabolic Dysfunction Following Traumatic Brain Injury,” University of Denver Grand Rounds, Denver, CO, April, 2015.

“Skeletal Muscle’s Mid-Life Crisis: Metabolic Mayhem or Controlled Chaos in Cancer and Aging,” University of Texas Health Science Center at Houston, Endocrine Research Talk, Houston, TX, April, 2015.

“Proteomic Investigation of Human Skeletal Muscle Before and After 70 Days Head Down Bed Rest.” 2016 NASA Human Research Program Investigators Workshop, Galveston TX, Feb., 2016.

“Traumatic Brain Injury and Pituitary Dysfunction: Manifestations of a Chronic Disease,” Meet the Professor Symposium at The Endocrine Society Annual Meeting, Boston, MA, April, 2016.

“NCI Clinical Trial of Testosterone to Combat Cachexia in Advanced Cancer,” Update on Clinical Trials in Cancer at the Cancer Cachexia 2016 meeting, Washington, D.C., September, 2016.

Symposium on Body Composition, Latest on Weight Loss, Associated with Non-Communicable Diseases, Consumer Perceptions at the International Whey Conference, Chicago, Illinois, 2017.

Texas A&M University Huffines Institute, Hilliard Discussion Scholar, “Aging Skeletal Muscle and the Little Blue Pill,” TED Talk, Rudder Auditorium, College Station, Texas, November, 2017.

Invited Speaker, Gulf Coast Vascular Research Consortium, Microvascular Blood Flow: Is it the Holy Grail of Healthy Aging?” Texas A&M Health Science Center, College Station, Texas, March, 2018.

Invited Speaker, Microvascular Blood Flow: Is it the Holy Grail of Healthy Aging? UT-McGovern Medical School’s Institute for Molecular Medicine. April 18-19; Houston, Texas.

Invited Speaker, Sports Nutrition Symposium, U.S. Speed Skate Olympic Oval High Performance Center, August 15; Kearns, UT.

International:

“Molecular effects of testosterone in the aging male.” 3rd International Workshop on Musculoskeletal and Neuronal Interactions, Corfu, Greece, June, 2002.

“Effect of hormones and nutrition on muscle strength.” Hormones, Nutrition and Physical Performance: Transformation of the Child into a Healthy Young Adult. Turin, Italy, January, 2006.

“Amino acids and aging.” 1st International Congress in Medical Use of Functional Foods. Tokyo, Japan, November, 2006.

“Hormone treatment and muscle anabolism: androgens.” 7th International Symposium on Amino Acid/Protein Metabolism in Health and Disease-Mechanisms and Pathways Controlling Protein Expression and Turnover. Padova, Italy, July, 2008.

“Amino Acid Nutrition and Sarcopenia” at the 5th Annual Meeting of the Japanese Society for Amino Acid Sciences (JSAAS), Nagoya, Japan, November, 2011.

Symposium on “Nutrition and Training Adaptation,” at the 15th International Biochemistry of Exercise Conference, Stockholm, Sweden, September, 2012.