

Updated 9/30/2016

TODD M. MANINI, Ph.D.

Institute on Aging
Department of Aging and Geriatric Research
PO Box 112610 Gainesville, FL 32611-0107

Phone: 352.273.5914
Fax: 352.273.5920
E-mail: tmanini@ufl.edu

EDUCATION

1997	B.S.	Ohio University	<i>Major:</i> Biology, <i>Minor:</i> Chemistry
2000	M.S.	Syracuse University	<i>Concentration:</i> Health & Exercise Science
2001	C.A.S.	Syracuse University	<i>Concentration:</i> Gerontology
2004	Ph.D.	Syracuse University	<i>Concentration:</i> Geriatric Health & Exercise Science
2006	Fellowship	National Institute on Aging	<i>Concentration:</i> Epidemiology

PROFESSIONAL TRAINING

2012 CTSI Academy of Research Excellence at the University of Florida
2012 Leadership Development Program
2009 Tissue respirometry – Oxygraph workshop
2008 Phlebotomist and intra-venous infusion training and certification
2008 Genetics and genomics strategies in aging research workshop – 2 day event
2008 Bench to Bedside workshop: Idiopathic fatigue and aging – 2 day event
2008 Protein chemistry/molecular cloning – Interdisciplinary Center for Biotechnology Research – 2 week event
2006 Older American Pepper Center Scholarship – 3 year scholarship
2006 Advanced studies in longitudinal statistical analysis: Johns Hopkins University
2006 Biomedical applications of magnetic resonance image – 1 semester course by National Institutes of Health

PROFESSIONAL EXPERIENCE AND ACADEMIC APPOINTMENTS

2013-present Core Leader - Data Science and Applied Technology Core
2013-present Program Director - Geriatric Informatics
2009-present Joint appointment: Department of Epidemiology, University of Florida
2007-present Joint appointment: Department of Applied Physiology and Kinesiology, University of Florida
2007-present Associate Professor, Department of Aging & Geriatric Research, University of Florida
2006-2007 Research Assistant Professor, Department of Aging & Geriatric Research, University of Florida
1999-2003 Exercise Physiologist for Fitness Forum Inc. & Strive for Recovery Inc. in Syracuse, NY
1999-2002 Graduate Research Assistant, Dept. of Exercise Science, Syracuse University, Syracuse, NY

CURRICULUM VITAE HIGHLIGHTS AND TABLE OF CONTENTS

Category	Brief description	Page
Grant support	10 active grants as Principal or Co-Principal Investigator. 11 active grants as Co-Investigator	2
Bibliography	143 peer-reviewed and invited articles (50 as Senior/Corresponding author) 6 books/chapters, >150 abstracts presented at National and/or International Meetings	10
Academics, teaching & ment	Directing <i>Population-Based Research on Aging</i> 2015-present. Directed <i>Epidemiology of Chronic Disease</i> ; 2009-2014; Co-directed <i>Integrative Aging Physiology</i> : 2008-2010. Co-directed <i>Environmental Stress Physiology</i> : 2007-2009. Current and past mentor to 10 junior Faculty and 12 graduate/medical students.	23
Service	Editorial boards, DSMB's, review panels and University committees	28

PROFESSIONAL SOCIETIES

2012-present	American College of Sports Medicine: Committee member of the Strategic Health Initiative on Aging in Exercise Science and Sports Medicine
2004-present	Gerontological Society of America
1998-present	American College of Sports Medicine - FACSM
2001-2010	American Physiological Society
2001-2004	National Strength and Conditions Association
1998-2005	Mid-Atlantic Chapter of the American College of Sports Medicine

HONORS AND AWARDS

2003	Sydney W. Young Graduate Student Research Awards
2003	Mid-Atlantic Chapter of the American College of Sports Medicine Presidents Award
2005	Certificate of University Teaching, Syracuse University
2005	Austin Bloch Post-Doctoral Fellow Award, Gerontological Society of America
2005	Syracuse University All-University Doctoral Prize (Dissertation of the Year)
2005	Clinical Medicine Research Award Honoree, Gerontological Society of America
2003	Dean's Graduate Student Fellowship, Syracuse University
2010	Excellence award for Assistant Professors, University of Florida
2011	Keynote speaker for Quebec network for research on aging, Sarcopenia ≠ Dynapenia
2012 & 13	Outstanding presentation award granted to Torrance Higgins (Mentee of Manini TM) at the Annual Conference of the Institute for Learning in Retirement. Student Research on Aging Symposium. <i>Evaluation of Self Efficacy and Anxiety on the Use of Compensatory Strategies</i>
2011	UF College of Medicine Exemplary Teachers Award
2012	Fellow of the American College of Sports Medicine
2016	Keynote speaker for Workshop on Aging in the Neuro-Musculo-Skeletal System
2014	Data & Safety Monitoring Board membership on two clinical trials
2016	Chair of the American College of Sports Medicine Strategic Health Initiative on Aging
2016	Standing study section member: Neurological, Aging and Musculoskeletal Epidemiology (NAME)

GRANT SUPPORT

Active Principal or Co-Principal Investigator:

1. R01AG042525 7/01/13-06/31/18
NIH/NIA \$2,393,558
Metabolic cost of daily activities in older adults
This study will determine the age-related differences in metabolic cost of common daily activities. We will also evaluate the impact that functional impairment has on the metabolic cost of performing daily activities. The study will provide a new understanding of the true metabolic intensity of performing daily tasks in older adults.
Role: Principal Investigator
2. R01HL121023 01/1/14 – 12/31/18
NIH/NHLBI \$1,385,405
MtDNA variant modifiers of cardiopulmonary responsiveness to physical activity
This project will identify mtDNA variants that predispose older individuals to a high or low cardiopulmonary response to chronic exercise.
Role: Co-Principal Investigator (Co-PI: Tranah)

3. SBIR HHSN261201500014C \$607,308 09/01/15-03/31/18
NIH/NCI
PEAKS Validation of mobile technologies for clinical assessment, monitoring & intervention.
The overall objective of this Phase II SBIR proposal is to evaluate and validate the accuracy and usability of a deployed beta sensor-based system that utilizes novel power-efficient technology to continuously measure physical activity (including intensity, type and duration) in both lab and free-living settings with older adults.
Role: PI (Private partner, EveryFit Inc., PI: Albinali)
4. U01 AG050499 09/01/15 – 05/31/18
NIH/NIA Site: \$523,371 (Total: \$5,361,994)
ENRGISE (ENabling Reduction of low-Grade Inflammation in SENiors)
This is a multi-center study that will test anti-inflammatory effects of widely available and affordable interventions (fish oil and losartan) and their impact on mobility in a highly vulnerable population, older adults with elevated levels of IL-6 and slow gait speed, at risk of mobility disability.
Role: Principal Investigator of University of Florida Field center (Study PI: M. Pahor)
5. U01AG022376 09/1/09 – 11/31/17
NIH/NIA Site: \$5,400,000 (Total: \$64,400,000)
Lifestyle Interventions and Independence for Elders Study Florida Field Center
This is a multi-site Phase III randomized controlled trial of physical activity to prevent major mobility disability and cognitive decline in older adults. The results from the trial will definitively determine whether a physical activity intervention conducted over 4 years can prevent many age-related disabilities.
Role: Principal Investigator of University of Florida Field center
6. P30AG028740-core 6/1/13 – 3/31/17
NIH/NIA \$240,000
Claude D. Pepper older Americans Independence Center- Data Science & Applied Technology Core.
The Data Science Core uses information from collections of large data to monitor, evaluate and enhance the health older adults. The core is focused on repurposing data from electronic medical records to identify cohorts for ongoing research and conducting secondary data analyses. The core is also focused on processing and interpreting large amounts of data from body worn multidimensional sensors to predict geriatric health conditions.
Role: Co-Principal Investigator
7. P30AG028740-Pilot 8/1/13 – 3/31/17
NIH/NIA \$69,000
A pilot study to evaluate the role of brain integrity on post-hospital sarcopenia (Strong Brain Study)
This is a study is externally reviewed and funded as part of the UF Older Americans Independence Center. This study will evaluate the neuroimaging biomarkers that predict physical function recovery following hospitalization.
Role: Co-Principal Investigator
8. Indirect funding and P30AG028740-DSAT core \$20,000 8/1/15-7/31/17
Feasibility of real-time online activity and mobility monitoring (ROAMM) in older adults with and without fall risk
ROAMM will evaluate a smart-watch (Samsung Gear S) "app" that collects accelerometer, heart rate, and global position system (GPS) data. The app and smart-watch will be evaluated in 50 older adults with and without a fall risk. At the end of the study, investigators will understand the feasibility (compliance, usability, hardware reliability etc.) of remote data collection in free-living older adults.
Role: Principal Investigator

9. U01 RFA-AG-15-013, NIA 2015/09/15-2017/08/31
Muscle mass and strength cut-points associated with mobility limitation in older adults.

The overall objective of this project is to develop and evaluate diagnostic cut-points for low muscle mass and muscle strength that predict an increased risk of mobility disability.

Role: Co-PI and Co-Chair of The Epidemiology of Sarcopenia Committee (PI: Bhasin)

10. UF Health Cancer Center \$40,000 1/1/16 – 12/31/16
Endotype Discovery in Prostate Cancer and Multi-Domain Analysis of Age Related Comorbidities

This grant is funded by the UF Health Cancer Center/IOA Cancer-Aging Collaborative Team Initiative. The proposal represents an innovative strategy for prostate cancer subtype discovery using advanced statistical learning methods. While many contemporary studies seek prognostic biomarkers in blood or tissue, we aim to utilize a comprehensive, age-related clinical profile of the patient to determine risk.

Role: Co-Principal Investigator

Active Co-Investigator

1. Pain Research and Intervention Center of Excellence / Institute on Aging / UF Center for Translational Science Institute 8/1/16-7/31/17

Real-Time Patient Reported Outcome of Pain in Community-dwelling Older Adults.

This project will develop wearable systems for assessing ecological momentary assessment of pain and mobility using a smart watch.

Role: Co-Investigator

2. NIH/NIA P30AG028740-Pilot 1/1/16 – 12/31/17

The acute development and persistence of frailty, comorbidity and disability in critically ill patients after intra-abdominal sepsis: “Induced Frailty”

This project proposes to epidemiologically study frailty with Chronic Critical Illness (CCI) and persistent inflammation, immunosuppression, and catabolism syndrome (PICS) in intra-abdominal sepsis patients. The study will identify the trajectory of frailty over one year post-discharge in patients and explore mechanisms that explain variability in the frailty phenotype.

Role: Co-Investigator

3. U01AG048270 and RFA-AG-14-009, PCORI 6/1/14 – 08/31/19

STRIDE: Randomized Trial of a Multifactorial Fall Injury Prevention Strategy

The trial will compare the effects of a multifactorial or standard care intervention for preventing serious fall injuries using a cluster randomization strategy of clinical practices.

Role: Co-Investigator, Co-Chair of the Ancillary Studies Committee and member of the Outcomes committee (PIs: Bhasin, Gill and Reuben)

4. NIH/NIA R21 AG044862 09/11/14-08/31/16

Measuring cognitive fatigability in older adults

The goal is to determine whether fatigability of cognitive performance contributes to functional limitations in older adults and to identify underlying neurobiological mechanisms, which may provide clinical biomarkers and/or therapeutic targets.

Role: Co-Investigator (PI – Ding)

5. NIH/NIA R01 AG044424 12/01/13-11/30/18

Neural Mechanisms of Dynapenia

The goal of this study is to advance the understanding of the physiological mechanisms of muscle weakness in older adults. Muscle weakness is a major risk factor for the development of physical disability in old age.

Role: Investigator (PI – B. Clark)

6. NIH/NIAMS R21AR065039 07/01/14-06/30/16

KAATSU Training to Enhance Physical Function of Older Adults with Osteoarthritis

This study will be the first to evaluate the potential of KAATSU training for improving physical function among older adults with OA of the knee.

Role: Co-Investigator (PI – Buford)

7. NIH/NIA P30AG028740 3/31/12-3/31/17

Development of Clinical Methods to Evaluate Neural Function in Aging (The MIND Study)

Development Project for Claude D. Pepper older Americans Independence Center. The project will develop new techniques to non-invasively assess neuromuscular function in older adults.

8. NIH/NHLBI 09/01/10-08/31/18

Women's Health Initiative Extension Study

The primary goal of this project is to continue follow-up of the original cohort of the Women's health Initiative—a large observational study and multifactorial clinical trials that began in 1994. A secondary goal is to conduct a second wave data collection surveys. The WHI program is funded by the National Heart, Lung, and Blood Institute (NHLBI), National Institutes of Health, U.S. Department of Health and Human Services through Contracts N01WH22110, 24152, 32100-2, 32105-6, 32108-9, 32111-13, 32115, 32118-32119, 32122, 42107-26, 42129-32, and 44221

Role: Consultant (Regional PI: Shumaker; Site PI: Limacher)

9. NIH/NIA P30AG028740 6/1/12 – 3/31/17

Clinical Research Core. Claude D. Pepper Older Americans Independence Center (OAIC)

The major goals of this program are to assess the mechanisms leading to sarcopenia and functional decline, and to develop and test interventions for the treatment and prevention of physical disability in older adults.

Role: Co-Investigator (PI: Marco Pahor)

10. American Heart Association 16IRG27250237 01/01/16-12/31/17

Wearable technology to reduce sedentary behavior and CVD risk in older adults

This study will evaluate the impact of combining an exercise intervention with an intervention designed to increase daily non-exercise physical activity among older adults at risk for cardiovascular events.

Role: Co-Investigator (PI: Buford)

11. R01 AT007564-01 04/01/2014-08/31/2017

REVIVE - Resveratrol to Enhance Vitality and Vigor in Elders (REVIVE)

The proposed clinical trial will test whether daily supplementation with 1000mg of resveratrol will improve mitochondrial function and physical performance in generally healthy but moderately functioning older men and women.

Role: Co-I (PI: Stephen Anton)

Pending grants

NIH/U01-9246768 for FOA-RM15-015 10/16-10/22

Tufts/University of Florida Molecular Transducers of Physical Activity Consortium (MoTrPAC) Clinical Center: Unraveling the Human Exersome.

The overarching objective is to capitalize upon our extensive experience and excellent infrastructure to successfully establish a MoTrPAC CC and collaborate on the assembly of a comprehensive map of the molecular changes that occur in response to acute and chronic exercise and exercise training.

Role: Multiple Principal Investigator (Fielding & Manini)

U24 AR071113-01 for FOA-RM15-015

01/2017-12/2023

Molecular Transducers of Physical Activity Consortium (MoTrPAC) Consortium Coordinating Center.

The project will promote team science, team leadership, and innovative leadership approaches to provide the overall coordination of MoTrPAC to accomplish the goal of assembling a comprehensive map of the molecular changes that occur in response to physical activity. Role: Co-Investigator (PI: Pahor)

NIH/NIA P30AG028740-core

3/31/16 – 3/31/21

Claude D. Pepper older Americans Independence Center- Data Science & Applied Technology Core.

The Data Science Core uses information from collections of large data to monitor, evaluate and enhance the health older adults. The core is also focused on processing and interpreting large amounts of data from body worn multidimensional sensors to predict geriatric health conditions.

Role: Core Leader (PI: Pahor)

Completed within the past 15 years:

1. Osato Research Institute

9/1/13-9/1/16

Efficacy of Fermented Papaya Preparation (FPP) on Markers of Systemic Inflammation.

This is an industry sponsored study that will evaluate the effect of fermented papaya on age-related biomarkers of inflammation and tissue perfusion.

Role: Co-Investigator

2. Sanofi Pharmaceuticals.

8/1/13 – 2/28/16

Database analyses for Sarcopenia research.

The goal of the proposed work is to examine the natural history of sarcopenia (loss of muscle mass) and other contributing factors (e.g. muscle strength and comorbid conditions). The results of this research will define cohorts for targeting in clinical trials.

Role: Principal Investigator

3. NIH/NIA 1R15AG040700

6/1/12 – 8/31/15

Comparative effects of resistance training protocols in older adults at risk of mobility disability

The proposed research will determine the comparative effectiveness resistance training regimens on older adults' muscle strength and size, their ability to perform everyday tasks (functional capacity), and their quality of life.

Role: Co-Investigator (PI: Summer Cook)

4. P30AG028740-supplement

6/1/13 – 3/31/15

NIH/NIA

Claude D. Pepper older Americans Independence Center- Diversity Supplement.

Dr. Manini is the primary sponsor of Amal Wanigatunga, a doctoral student in the Department of Epidemiology in the College of Public Health & Health Professions. The project will determine the association between magnetic resonance imaging (MRI) measures of early brain abnormalities and muscle strength in older persons.

Role: Primary Sponsor of Amal Wanigatunga (Ph.D. student in Department of Epidemiology)

5. Informatics Institute Seed Fund

7/1/14-6/30/15

University of Florida

Informatics of actigraphy for preventing mobility incidents in older adults

Informatics will be performed on actigraphy data collected from a tri-axial accelerometer to estimate associations with mobility incidents in older adults.

Role: Principal Investigator

6. Regeneron Pharmaceuticals 6/1/12 – 8/31/15
A randomized, double-blind, placebo-controlled, parallel group, multicenter study of the safety and bioeffect of regn1033 with and without exercise in health subjects.
 REGN1033 is a fully human monoclonal antibody that binds to myostatin and inhibits its function. This “proof of mechanism” study is planned to further evaluate the safety and tolerability of REGN1033, assess potential effects of REGN1033 on lean mass, muscle strength, and cardiac structure and function. Exploratory studies of iteration of resistance exercise and REGN1033 treatment will also be conducted.
 Role: Co-Principal Investigator
7. Regeneron Pharmaceuticals 6/1/12 – 8/31/15
A Randomized, Double-Blind, Placebo-Controlled, Multicenter Study of the Safety and Efficacy of 3-Month Subcutaneous REGN1033 Treatment in Patients with Sarcopenia
 REGN1033 is a fully human monoclonal antibody that binds to myostatin and inhibits its function. This “proof of mechanism” study is planned to further evaluate the safety and tolerability of REGN1033, assess potential effects of REGN1033 on lean mass, muscle strength, and cardiac structure and function in participants with Sarcopenia.
 Role: Co-Principal Investigator
8. NIH/NIA R21AG031974 09/1/09 – 8/30/12
Task Specific Exercise for the Clinically Disabled
 The major goals of this project are to determine the short and long-term responses of task-specific exercise in the pre-clinically disabled and to explore mechanisms of adaptation following task-specific exercise.
 Role: Principal Investigator
9. NIH/NIA T32AG020499 05/01/11-04/30/13
Physical, cognitive and mental health in a social context
 The purpose of this program is to train predoctoral researchers in biobehavioral and social approaches to aging, and to prepare them for settings including traditional disciplinary departments, clinical research environments, and multidisciplinary gerontology programs.
 Role: Primary Mentor to Torrance Higgins
10. NIH/NIA UO1 AG022376-05 09/1/09 – 08/31/15
Lifestyle Interventions and Independence for Elders Study (LIFE) Administrative Coordinating Center
 The LIFE administrative coordinator center supports the LIFE study— a multi-site Phase III randomized controlled trial of physical activity to prevent major mobility disability and cognitive decline in older adults.
 Role: Co-investigator
11. NIH/NCATS UL1 TR000064 4/01/12-4/01/14
 Comorbidity Indices, Physical Function, and “Iatrogenic” Disability . This study was awarded through the clinical and Translational Science Award to the University of Florida. The Integrated Data Repository (IDR) is a large-scale “database” collecting and organizing information from across the UF Academic Health Center to support improved care and research. This project will utilize the IDR to study the onset and recovery of mobility limitation of elders admitted to the hospital.
 Role: Co-Principal Investigator
12. P30 AG028740-S2 10/1/09-12/31/11
Mitochondrial function and fatigue in the elderly
 This pilot study will supplement the current OAIC and is geared toward studying fatigue in the elderly and whether mitochondrial dysfunction contributes to the prevalence of fatigue in the elderly.
 Role: Principal Investigator

13. American College of Sports Medicine Foundation 10/1/10-09/31/11
 Graded Vascular Occlusion and KAATSU Exercise on Skeletal Muscle Regenerative Signaling.
 This study evaluates skeletal muscle regenerative capacity following acute bouts of resistance exercise with vascular restriction— a novel model to promote muscle growth.
 Role: Co-Principal Investigator
14. NIH/NIA P30-AG028740 OAIC 01/05/09-12/31/11
Resveratrol for reduced muscle lipid content in older adults
 This is a pilot study to evaluate the effect of resveratrol supplementation on muscle lipid content in humans.
 Role: Principal Investigator
15. Joint Cancer Centers Opportunity Fund 05/01/09 – 12/31/11
Chemotherapy-induced muscle weakness, fatigue & functional limitation in older breast cancer survivors
 The major goal of this project is to determine the feasibility of and explore mechanisms causing long-term muscle weakness and poor quality of life in breast cancer survivors undergoing chemotherapy treatment.
 Role: Co-Principal Investigator (Co-PI: Martine Extermann, MD)
16. NIH/NIA P30-AG028740-04 1/11 – 3/12
 Locomotor reserve: a novel approach for detecting mobility deficits with aging.
 This is a pilot study in the Claude D. Pepper Older American's Independence Center that investigates neuromuscular sub-clinical locomotor deficits in sample of generally healthy older adults.
 Role: Co-Investigator
17. McKnight Brain Foundation 1/1/08 – 12/31/11
 University of Florida McKnight Brain Institute
Resveratrol supplementation to improve memory dysfunction in older adults
 This study is a phase I single-blind randomized placebo controlled pilot trial to determine whether resveratrol supplementation improves memory performance in older adults.
 Role: Co-Principal Investigator (Co-PI: Steve Anton, Ph.D.)
17. NIH/NIA 1 P30 AG028740-S1 1/1/09-12/31/10
Molecular mechanisms of skeletal muscle loss in HIV-infected older persons (OAIC supplement)
 The overall goal of this project is to evaluate the feasibility of conducting a case-control study to identify disease-specific and therapy-related factors associated with muscle fatigue and sarcopenia in older adults with HIV infection.
 Role: Principal Investigator
19. NIH/NIA 1RC2AG036594 9/01/09-08/31/11
Study of energy and aging
 The goal is to develop a mitochondrial basis for mobility disability and fatigue in the elderly.
 Role: Co-Investigator (PI: Steve Cummings)
20. Older Americans Independence Center 1/1/08 – 12/31/09
 University of Florida Institute on Aging
Acute Responses to Blood Flow Restricted Exercise
 We aim to evaluate age-related responses to acute exercise with or without blood flow restriction. This study will yield important safety values to propose a chronic study in older adult to improve muscle function.
 Role: Principal Investigator
21. Paffenbarger/Blair Award 7/1/0/08 – 12/30/09
 American College of Sports Medicine

The Epidemiology of Activity Energy Expenditure in Late-Life

The major goals of this project are to evaluate longitudinal changes of activity energy expenditure in relation to health aging and to determine the contribution of non-exercise activity in late-life.

Role: Principal Investigator

22. Legislative Budget request 08/01/07-07/31/08

Interdisciplinary research career development in aging

Myogenic and proteolytic regulators following blood flow restricted exercise

This is a pilot study to examine regulators of myogenesis and proteolysis following a single bout of blood flow restricted exercise.

Role: Principal Investigator

23. University of Florida Opportunity Fund 08/01/07 – 01/31/09

Biological effects of weight loss plus exercise

This pilot study will test the potential synergistic effects of caloric restriction plus exercise (CR +EX) on inflammation, oxidative stress, apoptosis, muscle composition, and physical functioning in obese older adult women.

Role: Co-Investigator (PI: Anton)

24. NIH/NIA UO1AG022376 9/1/03– 8/31/08

Physical exercise to prevent disability pilot study

This pilot study was designed to plan for a multi-site Phase III randomized controlled trial of physical activity to prevent major mobility disability and cognitive decline in older adults.

Role: Co-Investigator (PI: Pahor)

25. NIH/NHLBI R01HL72972-01 09/20/03 – 08/31/08

National Heart, Lung, and Blood Institute.

The epidemiology of stress and the metabolic syndrome.

The major goal is to conduct secondary data-analyses and biological analyses of hormone and inflammation to plan for future intervention trials that evaluate whether reducing stress and/or its physiological consequences, either by pharmacological treatment or behavioral intervention, could reduce incidence of metabolic syndrome in The older general population.

Role: Co-Investigator (PI: Pahor).

BIBLIOGRAPHY

Refereed Journal Articles:

Total Number of peer-reviewed, non-peer reviewed and invited articles: 143

Total Number of Senior (Corresponding) Author Publications: 50

*Denotes Senior or Corresponding author

^Denotes Student or Trainee author

NCBI publication list located here:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/todd.manini.1/bibliography/40192556/public/?sort=date&direction=descending>

Invited Papers, Commentaries and non-peer reviewed papers:

1. **Manini TM***. Organ-o-penia. *Journal of Applied Physiology*. Vol 106 (6) 1759-60, 2009.
2. Clark BC, **Manini TM***. Sarcopenia ≠ Dynapenia. *Journals of Gerontology: Biological and Medical Sciences*. Vol 63(8) 829-834, 2008.
3. **Manini, TM*** and BC Clark. Blood flow restricted exercise and skeletal muscle health. Invited review article for *Exercise and Sports Sciences Review*. Vol 37(2), 78-85, 2009.
4. **Manini, TM*** and M Pahor. Physical activity and maintaining physical function in older adults. Invited review article for *British Journal of Sports Medicine*. Vol 43(1): 28-31, 2009.
5. Pahor M, **Manini T**, Cesari M. Sarcopenia: clinical evaluation, biological markers and other evaluation tools. *J Nutr Health Aging*. Vol 13(8):724-8. 2009.
6. **Manini, TM***. Energy Expenditure and Aging. *Ageing Research Reviews*. Vol 9(1): 1-11, 2010.
7. **Manini TM***. Determinants and consequences of physical function limitations in older persons. *Current Aging Science*. 2011 Dec; 4(3):184-91
8. Carter CS, Marzetti E, leeuwenburgh C, **Manini TM**, Foster TC, Groban L, Scarpance PJ, Morgan D. Usefulness of preclinical models for assessing the efficacy of late-life interventions for sarcopenia. *Journals of Gerontology: Biological and Medical Sciences*. 67(1):17-27. 2012
9. **Manini TM***, Clark BC. Dynapenia & Aging: An Update. *Journals of Gerontology: Biological and Medical Sciences*. 2012 Jan;67(1):28-40.
10. **Manini TM***. Comment on “Expanding our physical activity (measurement) budget wisely”. *Journal of Applied Physiology*. Vol 111 (2): 608-13.
11. Joe Nocera, Thomas W. Buford , **Todd M. Manini**, Kelly Naugle, Christiaan Leeuwenburgh, Marco Pahor, Michael G. Perri, & Stephen D. Anton. The Impact of Behavioral Intervention on Obesity Mediated Declines in Mobility Function: Implications for Longevity. *Journal of Aging Research*, vol. 2011, Article ID 392510, 2011. doi:10.4061/2011/392510.
12. Clark BC & **Manini TM***. What is Dynapenia? Invited review for *Nutrition*. 2012 May;28(5):495-503. PubMed PMID: 22469110; PubMed Central PMCID: PMC3571692.

13. **Manini TM***, Lee SL, Clark BC. Aging and muscle: A neuron's perspective. *Curr Opin Clin Nutr Metab Care*. 2013 Jan;16(1):21-6. PubMed PMID: 23222705; PubMed Central PMCID: PMC3868452

14. **Manini TM***. Mobility decline in elders: A time to intervene. *Exerc Sport Sci Rev*. 2013 Jan;41(1):2. PubMed PMID: 23262463; PubMed Central PMCID: PMC3530168.

15. **Manini TM***, Clark BC. What we have learned from exercise and lifestyle trials to alleviate mobility impairment in older adults. *The Journal of Frailty & Aging*. 2(1): 57-59.

16. Gundermann DM[^], **Manini TM***. Sarcopenia obesity – The plague of the aging baby boomers? *Sports Medicine Bulletin Active Voice - Non-peer reviewed*. November 11, 2014.

17. **Manini TM***. Using physical activity to gain the most public health bang for the buck. *JAMA Intern Med*. 2015 Jun;175(6):968-9.

18. Cuttin KA[^] and **Manini TM***. Determining the Effects of Age on Metabolic Costs in Adults Participating in the CHORES^{XL} Study. *Journal of Undergraduate Research – Non-peer reviewed*. Volume 18 (1), 2016.

Original Peer-reviewed Scientific Articles:

1. Ploutz-Snyder LL, **Manini TM**, Ploutz-Snyder RJ, and Wolf DA. Functionally Relevant Thresholds of Quadriceps Femoris Strength. *Journals of Gerontology: Series A, Biological and Medical Sciences*. Vol 57(4) B144-52, 2002.

2. Mayer JM, Verna JL, **Manini TM**, Mooney V, Graves JE. Electromyographic activity of the trunk extensor muscles: Effect of varying hip position and lumbar posture during Roman chair exercise. *Archives of Physical Medicine & Rehabilitation*. Vol 83(11) 1543-1546, 2002.

3. Clark BC, **Manini TM**, Mayer JM, Ploutz-Snyder LL and Graves JE. Electromyographic activity of the lumbar and hip extensors during dynamic trunk extension exercise. *Archives of Physical Medicine & Rehabilitation*. Vol 83 (11) 1547-1552, 2002.

4. Clark BC, **Manini TM**, Ploutz-Snyder LL. Derecruitment of the lumbar musculature during fatiguing trunk extension exercise. *Spine*. Vol 28 (3) 282-287. 2003.

5. Clark BC, **Manini TM**, Thé DJ, Doldo NA[^] and Ploutz-Snyder LL. Gender differences in skeletal muscle fatigability are related to contraction type and EMG spectral compression. *Journal of Applied Physiology*. Vol 94: 2263-2272, 2003.

6. Clark BC, **Manini TM**, NR Ordway[^] and LL Ploutz-Snyder. Leg muscle activity during walking with assistive devices at varying levels of weight-bearing. *Archives of Physical Medicine & Rehabilitation*. Vol 85 (9): 1555-1560, 2004.

7. **Manini TM***, SL Baldwin[^], NR Ordway[^], RJ Ploutz-Snyder, LL Ploutz-Snyder. Knee extensor isometric unsteadiness does not predict functional limitation in older adults. *American Journal of Physical Medicine & Rehabilitation*. Vol 84 (2): 112-121, 2005.

8. **Manini TM***, Sagendorf K[^], Mayer JM, Ploutz-Snyder LL. Trunk extensor muscle function in young and old women: A pilot study. *Journal of Back and Musculoskeletal Rehabilitation*. Vol 18 (1-2): 5-13, 2005.

9. **Manini TM***, Druger M, Ploutz-Snyder LL. Misconceptions of strength exercise among older adults. *Journal of Aging and Physical Activity*, 13: 422-433, 2005
10. **Manini TM***, Clark BC, Tracy BL, Burke J, Ploutz-Snyder LL. Resistance or functional training improves knee extensor movement variability in functionally limited older adults. *European Journal of Applied Physiology*, 95: 436-446, 2005
11. Clark BC, Collier S[^], **Manini TM**, and Ploutz-Snyder LL. Sex Differences in Muscle Fatigability and Neuromuscular Activation Patterns of the Human Quadriceps Femoris. *European Journal of Applied Physiology*, 94 (1-2): 196-206, 2005
12. Clark BC, **Manini TM**, Bolanowski S, Ploutz-Snyder L. Adaptations in human neuromuscular function following prolonged unweighting: Part II. Neurological properties & motor imagery efficacy. *Journal of Applied Physiology*, 101: 256-263, 2006.
13. Patel KV, Coppin AK, **Manini TM**, Lauretani F, Bandinelli S, Ferrucci L, and Guralnik JM. Physical activity in mid-life and mobility outcomes in old age: The InCHIANTI Study. *American Journal of Preventive Medicine*. 85: 377-84, 2006.
14. **Manini TM***, Everhart J, Patel V, Schoeller D, Colbert L, Visser M, Tylavsky F, Bauer D, Goodpaster B, Harris T. Daily activity energy expenditure and mortality among older adults. *JAMA*. 296; 171-179, 2006.
15. **Manini TM***, Cook SM, Van Arnam Jr, T., Marko, M, Ploutz-Snyder LL Evaluating task modification as an objective measure of functional limitation: repeatability and comparability. *Journals of Gerontology: Series A. Biological and Medical Sciences*. 61; 718-725, 2006.
16. **Manini TM***, Marko M[^], VanArnam T, Cook S[^], Fernhall B, Burke J, Ploutz-Snyder L. Efficacy of Resistance and task-specific exercise in older adults who modify tasks of everyday life. *Journals of Gerontology: Medical Sciences*. 62; 616-623, 2007.
17. **Manini TM***, Visser M, Won-Park S, Patel K, Strotmeyer E, Chen H, Goodpaster B, De Rekeneire N, Newman AB, Simonsick EM, Kritchevsky SB, Ryder K, Schwartz S, Harris TB. Knee extension strength cutpoints for maintaining mobility. *Journal of the American Geriatrics Society*. 55(3): 451-7, 2007.
18. **Manini TM***, Clark BC, Nalls MA, Goodpaster BH, Ploutz-Snyder LL, Harris TB. Reduced physical activity increases inter-muscular adipose tissue in healthy young adults. *American Journal of Clinical Nutrition*. 31(3): 217-24, 2007.
19. Clark BC, **Manini TM**, Ploutz-Snyder LL. Fatigue-induced changes in phasic muscle activation patterns during trunk extension exercise. *American Journal of Physical Medicine and Rehabilitation*. 86 (5): 373-379. 2007.
20. Collier S, **Manini TM**, Tillotson JW. Predictors of performance in exercise science. *The Mentor*. 9: 1-6, 2007.
21. Monzon A, Hemler PF, Nalls MN, **Manini TM**, Clark BC, Harris TB, McAuliffe MJ. Semi-automatic tissue classification of magnetic resonance images of the thigh for application to large-scale datasets. *Proceedings of the Society of Photo-Optical Instrumentation Engineers*. 6512: 2007.
22. Clark BC, Pierce JR[^], **Manini TM** and Ploutz-Snyder LL. Effect of prolonged unweighting of human skeletal muscle on neuromotor force control. *European Journal of Applied Physiology*. 100 (1): 53-62, 2007.

23. Marzetti E, Lawler JM, Hiona A, **Manini TM**, Seo AY, Leeuwenbergh C. Modulation of age-induced apoptotic signaling and cellular remodeling by exercise and caloric restriction in skeletal muscle. *Free Radical Biol Med*. Jan 15;44(2):160-8. 2008.
24. Clark BC, **Manini TM**, Hoffman RL, Russ DW. Restoration of voluntary muscle strength following 3-weeks of cast immobilization is suppressed in women compared to men. *Archives of Physical Medicine and Rehabilitation*. 90(1): 178-80, 2009.
25. Delmonico MJ, Zmuda JM, Taylor BC, Cauley JA, Harris TB, **Manini TM**, Schwartz A, Li R, Roth SM, Hurley BF, Bauer DC, Ferrell RE, Newman AB. Association of the ACTN3 Genotype and Physical functioning with age in older adults. *Journals of Gerontology: Biological and Medical Science*. 63 (11): 1227-34. 2008.
26. **Manini TM***, Everhart JE., Patel KV, Schoeller DA., Cummings S, Mackey D^, Bauer DC, Simonsick EM., Colbert LH, Visser M, Tylavsky F., Newman AB, Harris TB. Activity energy expenditure and mobility limitation in older adults: Differential associations by sex. *American Journal of Epidemiology*, 169 (12): 1507-16. 2009.
27. Cesari M, Onder G, Zamboni V, **Manini TM**, Shorr RI, Russo A, Bernabei R, Pahor M, Landi F. Physical function and self-reported health status as predictors of mortality – Results from longitudinal analysis in the iSIRENTE Study. *BMC Geriatr*. Vol 8. 2008.
28. **Manini TM***, Everhart J, Bauer S, Colbert L, Cummings S, Goodpaster BH, Schoeller DA, Simonsick EM, Tylavsky F, Harris TB. Activity energy expenditure and the change in body composition during late life. *American J Clinical Nutrition*. Vol 90(5): 1336-42. 2009.
30. **Manini TM***, Newman AB, Fielding R, Blair SN, Perri MG, Anton SD, Goodpaster BC, Katula JA, Rejeski WJ, Kritchevsky SB, Hsu FC, Pahor M; LIFE Research Group. Effect of exercise on mobility in obese and non-obese older adults. *Obesity (Silver Spring)*. Vol 18(6): 1168-75. 2010.
31. Gine-Garriga M^, Guerra M, **Manini TM**, Mari-Dell’Olmo M, Pages E, Unnithan VB. Measuring balance, lower extremity strength and gain in the elderly: Construct validation of an instrument. *Archives of Gerontology and Geriatrics*. Vol 51(2): 199-204. 2010.
32. Umbel JD^, Hoffman RL, Dearth DJ^, Chleboun GS^, **Manini TM**, Clark BC. Delayed-onset muscle soreness induced by low-load blood flow restricted exercise. *European Journal of Applied Physiology*. Vol 107(6): 687-95. 2009.
33. Delmonico MJ, Harris TB, Visser M, Park SW, Conroy MB, Velasquez-Mieyer P, Boudreau R, **Manini TM**, Newman AB, Goodpaster BH. *Longitudinal study of muscle strength, quality and adipose tissue infiltration*. Submitted 5/08. *American J of Clinical Nutrition*. Vol 90 (6): 1579-85. 2009.
34. Clark BC, **TM Manini**, RL Hoffman, PS Williams, MK Guiler, MJ Knutson, ML McGlynn, MR Kushnick. Relative safety of 4-wks of blood flow restricted resistance exercise in young, healthy adults. *Scandinavian Journal of Medicine and Science in Sports*. Epub March 2010.
35. Buford TW^, Cooke MB, **Manini TM**, Leeuwenburgh C, Willoughby DS. Effects of age and sedentary lifestyle on skeletal muscle NF-kappaB signaling in men. *J Gerontol A Biol Sci Med Sci*. 2010 May;65(5):532-7.
36. Buford TW^, Anton SD, Judge AD, Marzetti E, Pahor M, Wohlgemuth SE, Carter CS, Leeuwenburgh C, Pahor M, **Manini TM***. Models of accelerated sarcopenia: critical pieces for solving the puzzle of age-related muscle atrophy. *Ageing Research Reviews*. Vol 9(4): 383-83. 2010.

37. **Manini TM*** & Clark BC. Functional consequences of sarcopenia and dynapenia in the elderly. *Current Opinion in Clinical Nutrition and Metabolic Care*. Vol 13(3): 271-6. 2010.
38. **Manini TM***, Anton SA. Does self-reported physical activity underestimate the importance in cardiovascular disease prevention? *Current Cardiovascular Risk Reports*. Vol 4(4) 293-301. 2010.
39. Giné-Garriga M[^], Guerra M, Pagès E, **Manini TM**, Jiménez R, Unnithan VB. The effect of functional circuit training on physical frailty in frail older adults: a randomized controlled trial. *Journal of Aging and Physical Activity*. Vol 18(4): 401-24. 2010.
40. **Manini TM***, Vincent KV, Leeuwenburgh CL, Borst SE, Clark BC. Myogenic and proteolytic mRNA expression following blood flow restricted exercise. *Acta Physiologica Scandinavia*. Vol 201(2): 25-63. 2011.
41. Chalé-Rush A, Guralnik JM, Walkup MP, Miller ME, Rejeski WJ, Katula JA, King AC, Glynn NW, **Manini TM**, Blair SN, Fielding RA. Relationship Between Physical Functioning and Physical Activity in the Lifestyle Interventions and Independence for Elders Pilot. *J Am Geriatr Soc*. Vol 58(10), 1918-24. 2010.
42. **Todd M. Manini***, Kushang V. Patel, Doug Bauer, Elad Ziv, Dale A. Schoeller, Dawn C. Mackey, Rongling Li, Anne B. Newman, Michael Nalls, Joseph Zmuda, Tamara B. Harris for the Health, Aging and Body Composition Study. European ancestry and resting metabolic rate. *Eur J Clin Nutr*. 2011 Jun;65(6):663-7. PubMed PMID: 21468093; PubMed Central PMCID: PMC3915864.
43. Stephen D. Anton, **Todd Manini**, Vanessa Milson, Pamela Dubyak, Matteo Cesari, Jing Cheng, Michael Daniels, Michael Marsiske, Marco Pahor, Christiaan Leeuwenburgh, Michael Perri. Effects of a Weight Loss Plus Exercise Program on Physical Functioning in Overweight, Older Women: A Randomized Controlled Trial. *Clin Interv Aging*. 2011;6:141-9. PubMed PMID: 21753869; PubMed Central PMCID: PMC3131984.
44. Wohlgemuth SE, Lees HA, Marzetti E, **Manini TM**, Aranda JM, Daniels M, Pahor M, Perri MG, Leeuwenburgh C, Anton S.D. An Exploratory Analysis of the Effects of a Weight Loss plus Exercise Program on Cellular Quality Control Mechanisms in Older Overweight Women. *Rejuvenation Research*. 2011 Jun;14(3):315-24. PubMed PMID: 21631380; PubMed Central PMCID: PMC3136739.
45. Jeff Knaggs[^], Kelly Larkin[^], **Todd Manini***. Metabolic Cost of Daily Activities and Effect of Mobility Impairment in Older Adults. *J Am Geriatr Soc*. 2011 Nov; 59(11):2118-23. PMID: 22091979.
46. Keith McGregor[^]; Zvinka Zlatar[^]; Erin Kleim; Atchar Sudhyadhom; Andrew Bauer; Stephanie Phan; Lauren Seeds; Anastasia Ford; **Todd Manini, PhD**; Keith D White; Jeffrey Kleim; Bruce Crosson. Physical Activity and Neural Correlates of Aging: A Combined TMS/fMRI Study. *Behavioural Brain Research*. 2011 Sep; 222(1): 158-68. PMID: 21440574.
47. Middleton LE[^], **Manini TM**, Simonsick EM, Harris TB, Barne, DE, Tylavsky F, Brach JS, Everhart JE, Yaffe K. Activity energy expenditure and incidence cognitive impairment in older adults. *Archives of Internal Medicine*. 2011 Jul 25;171(14):1251-7.
48. Dawn C. Mackey, **Todd M. Manini**, Dale Schoeller, Annemarie Koster, Nancy W. Glynn, Bret H. Goodpaster, Suzanne Satterfield, Anne B. Newman, Tamara B. Harris, Steven R. Cummings. Validation of an Armband to Measure Daily Energy Expenditure in Older Adults. *Journals of Gerontology: Medical Sciences*. 2011 Oct; 66(10):1108-13.

49. Gregory J. Tranah, PhD; **Todd M. Manini**, PhD; Kurt K. Lohman, PhD; Michael A. Nalls, PhD; Stephen Kritchevsky, PhD; Anne B. Newman, PhD; Tamara B. Harris, MD; Iva Miljkovic, MD, PhD; Alessandro Biffihi, MD; Steven R Cummings, MD; and Yongmei Liu, PhD for the Health, Aging and Body Composition Study. Mitochondrial DNA variation in human metabolic rate and energy expenditure: The Health, Aging and Body Composition Study. *Mitochondrion*. 2011 Nov; 11(6):855-61.
50. Thomas W. Buford[^], Donovan J. Lott, Emanuele Marzetti, Stephanie E. Wohlgemuth, Krista Vandenborne, Marco Pahor, Christiaan Leeuwenburgh, **Todd M. Manini***. Aging of Lower Extremity Tissue Compartments and Associations with Physical Function in Older Adults. *Experimental Gerontology*. 2012 Jan;47(1):38-44.
51. Kelly M. Naugle[^], Torrance J. Higgins[^], **Todd Manini***. Obesity and use of compensatory strategies to perform common daily activities in pre-clinically disabled older adults. *Archives of Geriatrics and Gerontology*. 2012 Mar-Apr;54(2):e134-8.
52. Emanuele Marzetti, Stephanie E. Wohlgemuth, Hazel A. Lees, **Todd M. Manini**, Thomas W. Buford, Juan M. Aranda Jr., Riccardo Calvani, Giorgio Capuani, Michael Marsiske, Roberto Bernabei, Marco Pahor, Christiaan Leeuwenburgh. Skeletal muscle apoptotic signaling predicts thigh muscle volume and gait speed in community-dwelling older persons: an exploratory study. *PLoS ONE*. 2012;7(2):e32829. PubMed PMID: 22389725; PubMed Central PMCID: PMC3289676.
53. John M. Mayer, James E. Graves, **Todd M. Manini**, James L. Nuzzo, Ploutz-Snyder. Lumbar Muscle Activity during Common Lifts: a Preliminary Study using Magnetic Resonance Imaging. *Journal of Applied Biomechanics*. 2013 Apr;29(2):147-54. PubMed PMID: 22814283.
54. Jeff Parr, Paul Borsa, Roger Fillingim, Mark Tillman, **Todd Manini**, Chris Gregory, Steven George. Pain Related Fear and Catastrophizing Predict Pain Intensity and Disability Independently. *The Journal of Pain*. 2012 Apr;13(4):370-8. PubMed PMID: 22424914; PubMed Central PMCID: PMC3321109.
55. Fielding RA, Rejeski WJ, Blair S, Church T, Espeland MA, Gill TM, Guralnik JM, Hsu FC, Katula J, King AC, Kritchevsky SB, McDermott MM, Miller ME, Nayfield S, Newman AB, Williamson JD, Bonds D, Romashkan S, Hadley E, Pahor M; LIFE Research Group. The Lifestyle Interventions and Independence for Elders Study: design and methods. *J Gerontol A Biol Sci Med Sci*. 2011 Nov;66(11):1226-37. Epub 2011 Aug 8. PubMed PMID: 21825283; PubMed Central PMCID: PMC3193523. Listed as part of the LIFE Research Group.
56. Buford TW, **Manini TM**, Hsu FC, Cesari M, Anton SD, Nayfield S, Stafford RS, Church TS, Pahor M, Carter CS. Angiotensin-converting enzyme inhibitor use by older adults is associated with greater functional responses to exercise. *J Am Geriatr Soc*. 2012 Jul;60(7):1244-52. PubMed PMID: 22726232; PubMed Central PMCID: PMC3625953.
57. **Todd M. Manini***, Brian C. Clark, Joshua F, Yarrow, Christine F. Conover, Stephen E. Borst. Growth hormone responses to acute resistance exercise with vascular restriction in young and old men. *Growth Horm IGF Res*. 2012 Oct;22(5):167-72. PubMed PMID: 22727808; PubMed Central PMCID: PMC3915940.
58. Tranah GJ, Lam ET, Katzman SM, Nalls MA, Zhao Y, Evans DS, Yokoyama JS, Pawlikowska L, Kwok PY, Mooney S, Kritchevsky S, Goodpaster BH, Newman AB, Harris TB, **Manini TM**, Cummings SR, Health, Aging and Body Composition Study. Mitochondrial DNA sequence variation is associated with free-living activity energy expenditure in the elderly. *Biochim Biophys Acta*. 2012 Sep;1817(9):1691-700. PubMed PMID: 22659402; PubMed Central PMCID: PMC3389152.

59. Larkin KA, Macneil RG, Dirain M, Sandesara B, **Manini TM**, Buford TW. Blood flow restriction enhances post-resistance exercise angiogenic gene expression. *Med Sci Sports Exerc.* 2012 Nov;44(11):2077-83. PubMed PMID: 22677927; PubMed Central PMCID: PMC3633075.
60. Joseph AM, Adihetty PJ, Buford TW, Wohlgenuth SE, Lees HA, Nguyen LM, Aranda JM, Sandesara BD, Pahor M, **Manini TM**, Marzetti E, Leeuwenburgh C. The impact of aging on mitochondrial function and biogenesis pathways in skeletal muscle of sedentary high- and low-functioning elderly individuals. *Aging Cell.* 2012 Oct;11(5):801-9. PubMed PMID: 22681576; PubMed Central PMCID: PMC3444680.
61. Higgins TJ, Janelle CM, Naugle KM, Knaggs J, Hoover BM, Marsiske M, **Manini TM***. Role of self-efficacy (SE) and anxiety among pre-clinically disabled older adults when using compensatory strategies to complete daily tasks. *Arch Gerontol Geriatr.* 2012 Nov-Dec;55(3):611-24. PubMed PMID: 22770713; PubMed Central PMCID: PMC3433642.
62. Coen PM, Jubrias SA, Distefano G, Amati F, Mackey DC, Glynn NW, **Manini TM**, Wohlgenuth SE, Leeuwenburgh C, Cummings SR, Newman AB, Ferrucci L, Toledo FG, Shankland E, Conley KE, Goodpaster BH. Skeletal muscle mitochondrial energetics are associated with maximal aerobic capacity and walking speed in older adults. *J Gerontol A Biol Sci Med Sci.* 2013 Apr;68(4):447-55. PubMed PMID: 23051977; PubMed Central PMCID: PMC3593613.
63. Heffernan KS, **Manini TM**, Blair SN, Hsu F, Nicklas BJ, Kritchevsky SB, Newman AB, Church TS, Sutton-Tyrell K, Haskell W, Karas RH, Kuvin JT, Fielding RA. Relation of pulse pressure to long-distance gait speed in community-dwelling older adults: Findings from the LIFE-P study. *PLoS One.* 2012;7(11):e49544.
64. McGregor KM, Heilman KM, Nocera JR, Patten C, **Manini TM**, Crosson B, Butler AJ. Aging, aerobic activity and interhemispheric communication. *Brain Sci.* 2012 Nov 16;2(4):634-48. PubMed PMID: 24961264; PubMed Central PMCID: PMC4061818.
65. **Manini TM**, Buford TW, Lott DJ, Vandeborne K, Daniels MJ, Knaggs JD, Patel H, Pahor M, Perri MG, Anton SD. Effect of dietary restriction and exercise on lower extremity tissue compartments in obese, older women: a pilot study. *J Gerontol A Biol Sci Med Sci.* 2014 Jan; 69(1):101-8. Epub 2013 May 16. PubMed PMID: 23682155.
66. Clark DJ, Manini TM, Fielding RA, Patten C. Neuromuscular determinants of maximum walking speed in well-functioning older adults. *Exp Gerontol.* 2013 Mar;48(3):358-63. PubMed PMID: 23376102; PubMed Central PMCID: PMC3594593.
67. Zlatař ZZ[^], McGregor KM[^], Dzierzewski JM, Bauer J, Phan S, Towler S, Cohen M, Marsiske M, **Manini TM**, Crosson B. Functional language networks in sedentary and physically active older adults. *J. Int. Neuropsychological Society (JINS).*
68. Buford TW, Macneil RG, Clough LG, Dirain M, Sandesara B, Pahor M, **Manini TM**, Leeuwenburgh C. Active muscle regeneration following eccentric contraction-induced injury is similar between healthy young and older adults. *J Appl Physiol.* 2013 Mar 14. [Epub ahead of print] PubMed PMID: 23493365.
69. Parr J, Borsa P, Fillingim R, Kaiser K, Tillman MD, Manini TM, Gregory C, George S. Psychological influences predict recovery following exercise induced shoulder pain. *Int J Sports Med.* 2014 Mar;35(3):232-7. PubMed PMID: 24022571.
70. Jamie A Cooper, **Todd M Manini**, Chad M Paton, Yosuke Yamada, James E Everhart, Steve Cummings, Dawn C Mackey, Anne B Newman, Nancy W Glynn, Fran Tylavsky, Tamara Harris and Dale A Schoeller. Longitudinal change in energy expenditure and effects on energy requirements of the elderly. *Nutr J.* 2013 Jun 6;12(1):73. PMID: 23742706 PMCID: PMC3679966.

71. Tranah GJ, Yokoyama JS, Katzman SM, Nalls MA, Newman AB, Harris TB, Cesari M, Manini TM, Schork NJ, Cummings SR, Liu Y, Yaffe K, Health, Aging and Body Composition Study. Mitochondrial DNA sequence associations with dementia and amyloid- β in elderly African Americans. *Neurobiol Aging*. 2014 Feb;35(2):442.e1-8. PubMed PMID: 24140124; PubMed Central PMCID: PMC4019378.
72. Bell CL, LaCroix A, Masaki K, Hade EM, Manini T, Mysiw WJ, Curb JD, Wassertheil-Smoller S. Prestroke factors associated with poststroke mortality and recovery in older women in the Women's Health Initiative. *J Am Geriatr Soc*. 2013 Aug;61(8):1324-30. PubMed PMID: 23869842; PubMed Central PMCID: PMC3743941.
73. Vellas B, Pahor M, **Manini T**, Rooks D, Guralnik JM, Morley J, Studenski S, Evans W, Asbrand C, Fariello R, Pereira S, Rolland Y, Abellan van Kan G, Cesari M, Chumlea WC, Fielding R. Designing pharmaceutical trials for sarcopenia in frail older adults: EU/US Task Force recommendations. *J Nutr Health Aging*. 2013 Jul;17(7):612-8. PubMed PMID: 23933872; PubMed Central PMCID: PMC4077187.
74. Higgins TJ, Janelle CM, **Manini TM***. Diving below the surface of progressive disability: considering compensatory strategies as evidence of sub-clinical disability. *J Gerontol B Psychol Sci Soc Sci*. 2014 Mar;69(2):263-74. PubMed PMID: 24170713; PubMed Central PMCID: PMC3968860.
75. **Manini TM***, Lamonte MJ, Seguin RA, Manson JE, Hingle M, Garcia L, Stefanick ML, Rodriguez B, Sims S, Song Y, Limacher M. Modifying effect of obesity on the association between sitting and incident diabetes in postmenopausal women. *Obesity (Silver Spring)*. 2014 Apr;22(4):1133-41. PubMed PMID: 24123945; PubMed Central PMCID: PMC3968183.
76. Endeshaw Y; Rice TB; Schwartz AV; Stone KL; **Manini TM**; Satterfield S; Cummings S; Harris T; Pahor M; for the Health ABC Study. Snoring, daytime sleepiness, and incident cardiovascular disease in the health, aging, and body composition study. *SLEEP* 2013;36(11):1737-1745.
77. Rillamas-Sun E, LaCroix AZ, Waring ME, Kroenke CH, LaMonte MJ, Vitolins MZ, Seguin R, Bell CL, Gass M, **Manini TM**, Masaki KH, Wallace RB. Obesity and late-age survival without major disease or disability in older women. *JAMA Intern Med*. 2014 Jan;174(1):98-106. PubMed PMID: 24217806; PubMed Central PMCID: PMC3963496.
78. McGregor KM, Nocera JR, Sudhyadhom A, Patten C, **Manini TM**, Kleim JA, Crosson B, Butler AJ. Effects of aerobic fitness on aging-related changes of interhemispheric inhibition and motor performance. *Front Aging Neurosci*. 2013;5:66. PubMed PMID: 24198784; PubMed Central PMCID: PMC3812779.
79. Seguin R, Buchner DM, Liu J, Allison M, **Manini TM**, Wang CY, Manson JE, Messina CR, Patel MJ, Moreland L, Stefanick ML, Lacroix AZ. Sedentary behavior and mortality in older women: the Women's Health Initiative. *Am J Prev Med*. 2014 Feb;46(2):122-35. PubMed PMID: 24439345; PubMed Central PMCID: PMC3896923.
80. Tranah GJ, Yokoyama JS, Katzman SM, Nalls MA, Newman AB, Harris TB, Cesari M, **Manini TM**, Schork NJ, Cummings SR, Liu Y, Yaffe K; for the Health, Aging and Body Composition Study. Mitochondrial DNA sequence associations with dementia and amyloid- β in elderly African Americans. *Neurobiol Aging*. 2013 Oct 17. doi:pii: S0197-4580(13)00236-4. 10.1016/j.neurobiolaging.2013.05.023. [Epub ahead of print] PMID: 24140124 [PubMed - as supplied by publisher].
81. Goodman D, Park H, Stefanick M, LeBlanc E, Bea J, Qi L, Kapphahn K, LaMonte M, **Manini TM**, Desai M, Anton-Culver H. Relation Between Self-Recalled Childhood Physical Activity And Adult Physical Activity: The Women's Health Initiative. *Open Journal of Epidemiology (OJEpi)*, Vol.3 No.4, November 25, 2013.

82. Rejeski WJ, Axtell R, Fielding R, Katula J, King AC, **Manini TM**, Marsh AP, Pahor M, Rego A, Tudor-Locke C, Newman M, Walkup MP, Miller ME; LIFE Study Investigator Group. Promoting physical activity for elders with compromised function: the lifestyle Interventions and Independence for elders (LIFE) study physical activity intervention. *Clin Interv Aging*. 2013;8:1119-31. doi: 10.2147/CIA.S49737. Epub 2013 Sep 12. PubMed PMID: 24049442; PubMed Central PMCID: PMC3775623.
83. Vaz Fragoso CA, Beavers DP, Hankinson JL, Flynn G, Berra K, Kritchevsky SB, Liu CK, McDermott MM, **Manini TM**, Rejeski WJ, Gill TM, Lifestyle Interventions Independence for Elders Study Investigators. Respiratory impairment and dyspnea and their associations with physical inactivity and mobility in sedentary community-dwelling older persons. *J Am Geriatr Soc*. 2014 Apr;62(4):622-8. PubMed PMID: 24635756; PubMed Central PMCID: PMC3989438.
84. Cannell MB[^], **Manini TM**, Spence-Almaguer E, Maldonado-Molina M, Andresen EM. U.S. population estimates and correlates of sexual abuse of community-dwelling older adults. *J Elder Abuse Negl*. 2014;26(4):398-413. PubMed PMID: 24410194
85. Hall KS, Morey MC, Dutta C, **Manini TM**, Weltman AL, Nelson ME, Morgan AL, Senior JG, Seyffarth C, Buchner DM. Activity-related energy expenditure in older adults: a call for more research. *Med Sci Sports Exerc*. 2014 Dec;46(12):2335-40. PubMed PMID: 24714651; PubMed Central PMCID: PMC4188802.
86. Anton SD, Embry C, Marsiske M, Lu X, Doss H, Leeuwenburgh C, **Manini TM***. Safety and metabolic outcomes of resveratrol supplementation in older adults: results of a twelve-week, placebo-controlled pilot study. *Exp Gerontol*. 2014 Sep;57:181-7. PubMed PMID: 24866496; PubMed Central PMCID: PMC4149922.
87. Vaz Fragoso CA, Hsu FC, Brinkley T, Church T, Liu CK, **Manini T**, Newman AB, Stafford RS, McDermott MM, Gill TM, LIFE Study Group. Combined reduced forced expiratory volume in 1 second (FEV1) and peripheral artery disease in sedentary elders with functional limitations. *J Am Med Dir Assoc*. 2014 Sep;15(9):665-70. PubMed PMID: 24973990; PubMed Central PMCID: PMC4145029.
88. Pahor M, Guralnik JM, Ambrosius WT, Blair S, Bonds DE, Church TS, Espeland MA, Fielding RA, Gill TM, Groessl EJ, King AC, Kritchevsky SB, **Manini TM**, McDermott MM, Miller ME, Newman AB, Rejeski WJ, Sink KM, Williamson JD, LIFE study investigators. Effect of structured physical activity on prevention of major mobility disability in older adults: the LIFE study randomized clinical trial. *JAMA*. 2014 Jun 18;311(23):2387-96. PubMed PMID: 24866862.
89. Zheng C, Beresford SA, Van Horn L, Tinker LF, Thomson CA, Neuhouser ML, Di C, Manson JE, Mossavar-Rahmani Y, Seguin R, **Manini T**, LaCroix AZ, Prentice RL. Simultaneous association of total energy consumption and activity-related energy expenditure with risks of cardiovascular disease, cancer, and diabetes among postmenopausal women. *Am J Epidemiol*. 2014 Sep 1;180(5):526-35. PubMed PMID: 25016533; PubMed Central PMCID: PMC4143077.
90. **Manini TM***, Carr LJ, King AC, Marshall S, Robinson TN, Rejeski WJ. Interventions to reduce sedentary behavior. *Med Sci Sports Exerc*. 2015 Jun;47(6):1306-10. PubMed PMID: 25222818; PubMed Central PMCID: PMC4362870.
91. Emanuele Marzetti, Francesco Landi, Federico Marini, Matteo Cesari, Thomas W. Buford, **Todd M. Manini**, Graziano Onder, Marco Pahor, Roberto Bernabei, Christiaan Leeuwenburgh, Riccardo Calvani. Patterns of circulating inflammatory biomarkers in older persons with varying levels of physical performance: a Partial Least Squares–Discriminant Analysis (PLS–DA) approach. *Frontiers in Medicine, Section Geriatric Medicine*. Published September 1st 2014. doi: 10.3389/fmed.2014.00027

92. David Bann, Don Hire, **Todd Manini**, Rachel Cooper, Anda Botosaneanu, Mary M. McDermott, Marco Pahor, Nancy W Glynn, Roger Fielding, Abby C King, Timothy Church, Walter T Ambrosius, Thomas Gill for the LIFE Study Group. Light intensity physical activity and sedentary behavior in relation to body mass index and grip strength in older adults: cross-sectional findings from the Lifestyle Interventions and Independence for Elders (LIFE) study. *PLOS ONE*. 2015 Feb 3;10(2):e0116058.
93. Fitzgerald D, L Johnson, DG Hire, WT Ambrosius, SD Anton, JA Dodson, AP Marsh, MM McDermott, JR Nocera, C Tudor-Locke, DK White, V Yank, M Pahor, **TM Manini**, TW Buford for LIFE Study Research Group. Association of Objectively-measured Physical Activity with Cardiovascular Risk in Mobility-limited Older Adults. *J Amer Heart Assoc*. 2015 Feb 18;4(2).
94. Rejeski WJ, Julia Rushing, Jack M. Guralnik, Edward H. Ip, Abby C. King, **Todd M. Manini**, Anthony P. Marsh, Mary M. McDermott, Roger A. Fielding, Anne B. Newman, Catrine Tudor-Locke, and Thomas M. Gill, for the LIFE Study Group. The MAT-sf: Identifying Risk for Major Mobility Disability. *Journals of Gerontology: Medical Sciences*. 2015 May;70(5):641-6.
95. Kurti AN, Logan H, **Manini TM**, Dallery J. Physical Activity Behavior, Barriers to Activity, and Opinions About a Smartphone-Based Physical Activity Intervention Among Rural Residents. *Telemed J E Health*. 2015 Jan;21(1):16-23. PubMed PMID: 25379976, Pubmed Central in process #: NIHMS656824.
96. Espeland, M., Newman A, Kaycee Sink; Thomas M. Gill; Abby C. King; Mike E. Miller; Jack Guralnik; Jeff Katula; Timothy Church; **Todd Manini**; Kieran F. Reid; and Mary McDermott for the LIFE Study Group. Associations Between Ankle-Brachial Index and Cognitive Function: Results from the Lifestyle Interventions and Independence for Elders Trial. *Journal of the American Medical Directors Association*. 2015 Aug 1;16(8):682-9.
97. Sarah M. Szymkowicz, Molly E. McLaren, Joshua W. Kirton, Andrew O'Shea, Adam J. Woods, **Todd M. Manini**, Stephen D. Anton, and Vonetta M. Dotson. Depressive Symptom Severity Is Associated with Increased Cortical Thickness in Older Adults. *International Journal of Geriatric Psychiatry*. 2016 Apr;31(4):325-33.
98. TW Buford, RB Fillingim, **TM Manini**, KT Sibille, KR Vincent, SS Wu. Kaatsu training to enhance physical function of older adults with knee osteoarthritis: Design of a randomized, controlled trial. *Contemporary Clinical Trials*. 2015 Jul;43:217-22.
99. Tranah GT, Yaffe K, Lam ET, Katzman SM, Pawlikowska L, Kwok P, Schork N, **Manini TM**, Kritchevsky S, Fridtjof Thomas F, Newman AB, Harris TB, Coleman AL, Gorin MB, Helzner EP, Rowbotham MC, Browner WS, and Cummings SR for the Health, Aging and Body Composition Study. Mitochondrial DNA heteroplasmy associations with age-related neurosensory and mobility decline. *Journals of Gerontology: Medical Science*. 2015 Nov;70(11):1418-24.
100. Cannell MB[^], Weitlauf JC, Garcia L, Andresen EM, Margolis KL, **Manini TM***. Cross-sectional and longitudinal risk of physical impairment in a cohort of postmenopausal women who experience physical and verbal abuse. *BMC Womens Health*. 2015 Nov 11; 15:98. PubMed PMID: 26554450; PubMed Central PMCID: PMC4641397
101. Dotson VM, **Manini TM**, Pahor M, Langae T, Chi F, King AC, Cohen R, Kritchevsky S, Myers V, Newman A. Genetic Moderators of the Impact of Physical Activity on Depressive Symptoms. *Journal of Frailty & Aging*. In press.
102. Akhtar-Khaleel WZ, Cook RL, Shoptaw S, Surkan PJ, Teplin LA, Stall R, Beyth RJ, **Manini TM**, Plankey M. Long-Term Cigarette Smoking Trajectories Among HIV-Seropositive and Seronegative MSM in the Multicenter AIDS Cohort Study. *AIDS Behav*. 2016 Feb 27.

103. Sink KM, Espeland MA, Rushing J, Castro CM, Church TS, Cohen R, Gill TM, Henkin L, Jennings JM, Kerwin DR, **Manini TM**, Myers V, Pahor M, Reid KF, Woolard N, Rapp SR, Williamson JD; LIFE Investigators. The LIFE Cognition Study: design and baseline characteristics. *Clin Interv Aging*. 2014 Aug 27;9:1425-36.
104. Sink KM, Espeland MA, Castro CM, Church T, Cohen R, Dodson JA, Guralnik J, Hendrie HC, Jennings J, Katula J, Lopez OL, McDermott MM, Pahor M, Reid KF, Rushing J, Verghese J, Rapp S, Williamson JD; LIFE Study Investigators. (**Manini TM** listed as part of the LIFE study investigative group). Effect of a 24-Month Physical Activity Intervention vs Health Education on Cognitive Outcomes in Sedentary Older Adults: The LIFE Randomized Trial. *Journal of the American Medical Association (JAMA)*. 2015 Aug 25;314(8):781-90.
105. Abby C King, Ph.D; Deborah Salvo, PhD; Jorge Banda, PhD; David K Ahn, PhD; Thomas M Gill, MD; Michael Miller, PhD; Anne B. Newman, MD; Roger A Fielding, PhD; Carlos Siordia, PhD; Spencer Moore, PhD; Sara Folta, PhD; Bonnie Spring, PhD; **Todd Manini, PhD**; Marco Pahor, MD. An Observational Study Identifying Obese Subgroups Among Older Adults at Increased Risk of Mobility Disability: Do Perceptions of the Neighborhood Environment Matter? *International Journal of Behavioral Nutrition and Physical Activity*. In press.
106. Erik J. Groessl, Robert M. Kaplan, Cynthia Castro, Timothy Church⁵, Mark Espeland, Tom Gill, Nancy W. Glynn, Abby C. King, Steve Kritchevsky, **Todd Manini**, Mary McDermott, Kieran Ried, Julia Rushing, Marco Pahor. Cost-Effectiveness of the LIFE Physical Activity Intervention for Older Adults at Increased Risk for Mobility Disability. *Journals of Gerontology: Medical Sciences*. In press.
107. Clark BC, **Manini TM***. Can KAATSU Exercise Cause Rhabdomyolysis? *Clinical Journal of Sport Medicine*. 2016 Feb 5. [Epub ahead of print] PubMed PMID: 26882107.
108. Vincenzo Valiani, Shiyao Gao, Zhiguo Chen, Sunil Swami, Christopher A. Harle, Gigi Lipori, Sandrine Sourdet, Samuel Wu, Susan G. Nayfield, Carlo Sabbá, Marco Pahor, and **Todd M. Manini**. In-hospital Mobility Variations across Primary Diagnoses among Older Adults. *Journal of the American Medical Directors Association*. In press.
109. Shinichi Amano, Arimi Fitri, Rachel Clift, Masato Nakazawa, Timothy D. Law, Laura J. Rush, **Todd M. Manini**, James S. Thomas, David W. Russ, Brian C. Clark. Effectiveness of blood flow restricted exercise compared with standard exercise in patients with recurrent low back pain: study protocol for a randomized controlled trial. *Trials*. In press.
110. Amal A. Wanigatunga[^], Sandrine S. Sourdet, Michael J. LaMonte⁴, Molly E. Waring, Rami Nassir, Lorena Garcia, Jennifer W. Bea, Rebecca A. Seguin, Judith K. Ockene, Gloria E. Sarto, Marcia L. Stefanick, Marian Limacher, **Todd M. Manini*** for the Women's Health Initiative Investigators. Physical impairment and body weight history in postmenopausal women: The Women's Health Initiative. *Public Health Nutrition*. In press.
111. **Manini TM*** & Clark BC. Results from a web-based survey to identify dynapenia screening tools and risk factors. *Journal of Cachexia, Sarcopenia and Muscle*. In press.
112. Valiani V[^], Corbett DB[^], Knaggs JD and **Manini TM***. Metabolic Rate and Perceived Exertion of Walking in Older Adults with Idiopathic Chronic Fatigue. *Journals of Gerontology: Medical Sciences*. In press
113. Riccardo Calvani, Federico Marini, Matteo Cesari, Thomas W. Buford, **Todd M. Manini**, Marco Pahor, Christiaan Leeuwenburgh, Roberto Bernabei, Francesco Landi, Emanuele Marzetti. Relationship among systemic inflammation, body composition and physical performance in advanced age: An exploratory study based on multi-block PLS-DA modeling. *Journal of Cachexia, Sarcopenia and Muscle*. In Press.

114. Corbett, D., Valiani, V., Knaggs, J., and **Manini, TM*** (2016). Evaluating walking metabolic intensity with hip-worn accelerometers in elders. *Medicine & Science in Sports & Exercise* (Accepted 6/9/2016). In Press. NIHMSID 795013.
115. Nicholas R. Wawrzyniak, Anna-Maria Joseph, David G. Levin, David M. Gundermann, Christiaan Leeuwenburgh, Bhanuprasad Sandesara, **Todd M. Manini***, and Peter J. Adhihetty*. Idiopathic Chronic Fatigue in Older Adults is linked to Impaired Mitochondrial Content and Biogenesis Signaling in Skeletal Muscle. *Oncotarget: Gerotarget*. In Press.
116. Snyder PJ, Bhasin S, Cunningham GR, Matsumoto AM, Stephens-Shields AJ, Cauley JA, Gill TM, Barrett-Connor E, Swerdloff RS, Wang C, Ensrud KE, Lewis CE, Farrar JT, Cella D, Rosen RC, Pahor M, Crandall JP, Molitch ME, Cifelli D, Dougar D, Fluharty L, Resnick SM, Storer TW, Anton S, Basaria S, Diem SJ, Hou X, Mohler ER 3rd, Parsons JK, Wenger NK, Zeldow B, Landis JR, Ellenberg SS (**Manini TM** listed as a collaborator of the T-Trial investigative group); Testosterone Trials Investigators. Effects of Testosterone Treatment in Older Men. *New England Journal of Medicine*. 2016 Feb 18;374(7):611-24.
117. Calvani R, Marini F, Cesari M, Buford TW, **Manini TM**, Pahor M, Leeuwenburgh C, Bernabei R, Landi F, Marzetti E. Relationship among systemic inflammation, body composition and physical performance in advanced age: An exploratory study based on multi-block PLS-DA modeling. *Journal of Cachexia, Sarcopenia and Muscle*. In Press.
118. Gill TM, Pahor M, Guralnik JM, McDermott MM, King AC, Buford TW, Strotmeyer ES, Nelson ME, Sink KM, Demons JL, Kashaf SS, Walkup MP, Miller ME (**Manini TM** listed as a collaborator of the LIFE research group); LIFE Study Investigators. Effect of structured physical activity on prevention of serious fall injuries in adults aged 70-89: randomized clinical trial (LIFE Study). *British Medical Journal*. 2016 Feb 3;352: i245.
119. AS Layne, FC Hsu, SN Blair, SH Chen, J Dungan, RA Fielding, NW Glynn, AM Hajduk, AC King, **TM Manini**, AP Marsh, M Pahor, CA Pellegrini, TW Buford, LIFE Study Investigators. Predictors of change in physical function among older adults in response to long-term, structured physical activity: The LIFE Study. *Archives PM&R*. (in press)
120. Kheirkhahan, Matin[^]; Tudor-Locke, Catrine; Axtell, Robert; Buman, Matthew; Fielding, Roger; Glynn, Nancy; Guralnik, Jack; King, Abby; White, Daniel; Miller, Michael; Siddique, Juned; Brubaker, Peter; Rejeski, W. Jack; Ranshous, Stephen; Pahor, Marco; Ranka, Sanjay; **Manini, Todd M***. Actigraphy features for predicting mobility disability in older adults. *Physiological Measurement*. In Press
121. Sanjay Nair[^], Matin Kheirkhahan, Anis Davoodi, Parisa Rashidi, **Todd M. Manini**, Sanjay Ranka. ROAMM: A Software Infrastructure for Real-time Monitoring of Personal Health. Pear review Conference Proceedings. *Proceedings of IEEE Healthcom 2016 and the IEEE eXplore*. September 2016.
122. Aladdin H. Shadyab, Andrea Z. LaCroix, Caroline A. Macera; Richard A. Shaffer, Sonia Jain, Linda C. Gallo, Alexander P. Reiner, Charles Kooperberg, Cara L. Carty, Chongzhi Di, **Todd M. Manini**, Michael J. LaMonte, Lifang Hou, Abraham Aviv. Association of Accelerometer-Measured and Self-Reported Sedentary Time with Leukocyte Telomere Length in Older Women. *Am J of Epidemiology*. In Press
123. Wanigatunga A[^], Nickerson P, **Manini TM**, Rashidi P. Using symbolic aggregate approximation (SAX) to visualize activity transitions among older adults. *Physiological Measurement*. In Press.
124. **Todd M. Manini***, Daniel P. Beavers, Marco Pahor, Jack M. Guralnik, Bonnie Spring, Timothy S. Church, Abby C. King, Sara C. Folta, Nancy W. Glynn, Anthony P. Marsh, Thomas M. Gill for the LIFE study investigators.

Effect of Physical Activity on Self-reported Disability in Older Adults: Results from The LIFE Study. *Journal of the American Geriatrics Society*. In Press.

125. Martine Extermann*, Christiaan Leeuwenburgh, Laila Samiian, Marina Sehovic, Jinze Xu, Christopher Cubitt, Paul B. Jacobsen, Marco Pahor, Stephen R. Grobmyer, **Todd M. Manini***. Impact of chemotherapy on medium-term physical function and activity of older breast cancer survivors, and associated biomarkers. *Journal of Geriatric Oncology*. In Press.

Manuscripts in Review/Preparation as senior or corresponding author:

Title	Status
Metabolic Costs of Daily Activity in Older Adults (Chores XL) Study: Design and Methods	Submitted
Surveying predictors of late-life longitudinal change in daily activity energy expenditure	Submitted
A decade update to “Daily activity energy expenditure and mortality risk among older adults”	In preparation
Idiopathic Chronic Fatigue in Older Adults is linked to muscle circadian biomarkers	In preparation
ROAMM: A Software Infrastructure for Real-time Monitoring of Personal Health	Submitted
ENabling Reduction of low-Grade Inflammation in Seniors (ENRGISE) Pilot study: Concept, rationale and design	Submitted
Effects of Task-specific and Traditional-based Exercise in the pre-clinically disabled: A Pilot study	In preparation
Association between muscle strength and brain integrity in older adults in the Health Aging and Body Composition study	In preparation
Influence of brain aging on physical function in older, postmenopausal women: Results from the Women’s Health Initiative Long-Life study	In preparation

Books and book chapters

1. Book Chapter: **Manini TM***, Gunderman D, Clark BC. 7th edition of Hazzard’s Geriatric Medicine and Gerontology. Chapter 113, Aging of the Muscles and Joints. To be published by McGraw-Hill.
2. Book Chapter: Naugle K, Higgins T[^], **Manini TM***. Energy Metabolism and Diet: Effects on Healthspan in Bioactive Foods and Aging. Published by Elsevier. Maryland Heights, MO USA.
3. Book Chapter. **Manini TM***, Russ D, Clark BC. The complex relation between muscle mass and muscle strength. To be published in *Sarcopenia*.
4. Stephen D. Anton, Sandrine Sourdet, Marco Pahor, & **Todd Manini**. *Challenges in implementing large-scale clinical trials in moderately functioning older adults* for inclusion in the book Clinical Trials in Older Adults. Editor: Antonio Cherubini. Publisher: John Wiley & Sons. Published 2015.
5. Anton SA, Corbett DB, **Manini TM**. *Optimising physical activity across the lifespan*. Chapter in *Geriatric Medicine* edited by Jean-Pierre Michel, B. Lynn Beattie, Finbarr C. Martin, and Jeremy Walston. Publisher: Oxford Press. 2016.
6. Book: **Manini TM***. Adaptations to strength exercise in pre-clinically disabled older adults. Published by Lambert Academic Publishing. Saarbrücken, Germany.

International invited presentations

International Congress on Controversies in Longevity, Health and Aging (CoLONGY).

Presentation given in Barcelona, Spain July 8th 2010

Presentation title: Can we treat Sarcopenia in older persons?

Keynote speaker

Quebec network for studies on aging.

Presentation given in Montreal, Canada. October 7th, 2011

Presentation title: Sarcopenia \neq Dynapenia

8th International Congress on Strength Training" (ICST2012)

Presentation given in Oslo, Norway October 25th, 2012

Presentation title: Resistance Training using vascular occlusion (BFRE): Adaptive Mechanisms and usage in Athletic Training and Clinical Rehabilitation

E.U / U.S Task Force on Designing Drug Trials for Sarcopenia in Frail Older Adults

Presentation given in Orlando, Florida on December 5th, 2012.

Presentation title: What we have learned from Physical activity, weight loss and blood restricted exercise trials

International Conference on Sarcopenia Research

Presentation given in Orlando, Florida on December 7th, 2012.

Presentation title: Brain aging and dynapenia

INTERNATIONAL SYMPOSIUM MHC / CONGRÈS INTERNATIONAL DE LA MASSE MUSCULAIRE : DE LA CELLULE À L'HOMME.

Presentation to be given in Montreal, CA May 3rd 2013

Presentation title : Strengthening the grip on the semantics of sarcopenia

INTERNATIONAL SYMPOSIUM MHC / CONGRÈS INTERNATIONAL DE LA MASSE MUSCULAIRE : DE LA CELLULE À L'HOMME.

Presentation to be given in Montreal, CA May 4th 2013

Presentation title : Dynapenia and physical function

36th International Symposium on Sports Sciences

Presentation given in São Caetano do Sul, São Paulo, Brazil (CELAFISCS)

Presentation given on October 3rd, 2013

Presentation title: Dynapenia & Sarcopenia: New concepts and Implications for Aging?

Keynote Speaker

Workshop on Aging in the Neuro-Musculo-Skeletal System

Institute of Movement sciences. Marseille, France

Aging in the neuro-muscular system

Presentation given on March 17, 2016

Symposiums and invited professional presentations

Manini TM. Muscle predictors and measurement of functional status in the elderly. American Dietetic Association Pre-Conference workshop Sponsored by the ADA Foundation and Abbott Nutrition Health Institute. Presentation given in October, 2009.

Manini TM & Ferrucci L. Energy metabolism: associations with age, fatigue and activity. Presented to the 2008 National Conference for the Gerontological Society of America. Chair: **TM Manini**.

Manini TM, Clark BC, Ploutz-Snyder LL, Rasmussen B. Efficacy, safety and mechanisms of blood flow restricted exercise. Presented for symposium to the 2009 American College of Sports Medicine. Chair: **TM Manini**.

Manini TM. Skeletal muscle loss in HIV infected older persons. UF Jacksonville/Shands Infectious Disease Department Grand Rounds. Presentation given in November, 2009.

Manini TM. Skeletal muscle loss in HIV infected older persons. UF Gainesville Infectious Disease Department Grand rounds. Presentation given in September, 2009.

Manini TM. Physiological effects of blood flow restricted exercise. Veterinary Medicine Seminar Series. November, 2009. Presentation given in October, 2010

Manini TM. Aging and the interplay among energy, mass, and mobility: Findings from the BLSA. Invited Discussant. Presented at the 2010 Gerontological Society of America.

Manini TM. The LIFE study: Primary, Secondary and Tertiary Outcomes. Symposium: Physical activity interventions and prevention of mobility disability in older adults (Clinical Exercise Physiology Association). Presented at the 2011 International Conference for The American College of Sports Medicine.

Manini TM. Symposium Chair. Sarcopenia ≠ Dynapenia. Symposium to be presented on November 19th 2011.

Manini TM & Clark BC. Sarcopenia Perspectives from a Web Based Survey. Presented at the Foundation of the National Institutes of Health, National Institute on Aging and Federal Drug Association— Sarcopenia Consensus Summit. Presented in Baltimore, MD. May 8th 2012.

Manini TM. Performance and Perceived Fatigability in older adults who self-report severe fatigue. Presented at the 2012 Gerontological Society of America.

Manini TM. Dynapenia and optimal protein intake. American Federation for Aging Research Board Meeting. New York, New York. Presented given on April 1st, 2013.

Manini TM. Using Bioinformatics to plan and conduct research in geriatrics – pitfalls, promises and lessons learned. 2013 Claude D. Pepper Older Americans Independence Center Annual Meeting held in Bethesda, MD. Presentation given on April 9th, 2013.

Manini TM. Energy metabolism and aging. College of Health & Human Services. University of New Hampshire. Presentation given in March 2013.

Manini TM. Activity energy expenditure and healthspan in older adults. Schoeller Symposium: Energy Balance and Obesity. University of Wisconsin, Madison. Presentation given on September, 13th 2013.

Manini TM. mtDNA variants, activity energy expenditure and age-related Health Outcomes. VA/IOA Clinical Translational Aging Research Seminar Series. University of Florida, Gainesville, FL. Presentation given on October, 27th 2014

Manini TM. mtDNA variants, activity energy expenditure and age-related Health Outcomes. Vision and Aging symposium. University of Florida, Gainesville, FL. Presentation given on December, 8th 2014.

Manini TM. Considering the role of compensatory strategies in contemporary models of disability. CHP Friday Colloquium. UF Department of Clinical and Health Psychology. August 7th, 2015.

Manini TM. Physical activity to prevent mobility disability: Results of the LIFE study. Texas Health Research & Education Institute. Presentation given on December 16, 2015.

Manini TM. mtDNA variants, activity energy expenditure and aging. University of Iowa, Carver College of Medicine. Presentation given on September 12, 2016.

Manini TM. mtDNA variants, activity energy expenditure and aging. Gerald J. and Dorothy R. Friedman School of Nutrition Science and Policy at Tufts University. Presentation given on September 18, 2016.

Manini TM. Measurement, Statistics, and Research Design Special Interest Group Session: Methods for Interpreting Physical Activity Data in Older Adults: One Size Does Not Fit All. Invited Discussant. Presented at the 2016 Gerontological Society of America.

Manini TM. Clinical Interventions Track: Using Accelerometry for Physical Activity Monitoring and Promotion: The LIFE and NHANES Studies. Symposium Co-Chair. Presented at the 2016 Gerontological Society of America.

Published/Accepted Abstracts

Over 150 abstracts published and/or presented at international conferences. Available upon request.

TEACHING & MENTORING EXPERIENCE

University of Florida

2015-present	<u>Graduate Certificate and Master's Degree in Aging and Geriatric Practice</u> Population-Based Research on Aging Role: Director
2007-present	<u>Interdisciplinary Program</u> <i>Integrative Aging Physiology</i> Role: Lecturer
2008-present	<u>Clinical and Translational Science Institute</u> <i>Clinical and Translational Science Seminar Series</i> Role: Lecturer
2010-2014	<u>Department of Epidemiology & Biostatistics</u> <i>Epidemiology of Chronic Disease</i> Role: Director
2008-2009	<u>Department of Applied Physiology & Kinesiology</u> <i>Environmental Stress physiology</i> Role: Co-director
2007-2010	<u>Department of Anesthesiology</u> <i>Epidemiology and Physiology of Aging-</i> Role: Lecturer
2007-2009	<u>Department of Epidemiology & Health Policy</u> <i>Measurement issues in Epidemiology-</i> Lecturer

Syracuse University

2008-2009	Environmental physiology
1997-2002	Exercise Physiology Laboratory
2001-2003	Personal Health and Safety - Director
2001	Analysis of Human Motion – Director
2002	Cardiovascular physiology laboratory
2002-2003	Skeletal Muscle Physiology - Director

Mentoring and advisement

Primary Advisor/Mentor

<u>Name</u>	<u>Date</u>	<u>Degree</u>	<u>Current Status</u>
Amal Wanigatunga	2012-2016	Ph.D.	Completed program
Matin Kheirkhahan	2014-present	Ph.D.	Enrolled in program
Torrie Higgins	2009-2015	Ph.D.	Enrolled in program
Sunil Swami	2010-2014	Ph.D.	Completed program
Brad Cannell	2011-2013	Ph.D.	Completed program

Thesis & Dissertation Committee Member

<u>Name</u>	<u>Date</u>	<u>Degree</u>	<u>Primary Advisor</u>
Kate Duchowny	2014-present	Ph.D.	Philippa Clarke, Ph.D. (U of Michigan)
Ali Barikroo	2014-present	Ph.D.	Michael Crary, Ph.D.
Wajha Aktar	2011-2015	Ph.D.	Robert Cook, MD
Pamela Dubyak	2008-2014	Ph.D.	Steve Anton, Ph.D.
Jeff Parr	2008-2010	Ph.D.	Paul Borsa, Ph.D.
Maria Gine Garriga	2008-2010	Ph.D.	Vish Unnithan, Ph.D.
Zvinka Zlatar	2008-2011	Ph.D.	Bruce Crosson, Ph.D.

Research assistants / interns

<u>Name</u>	<u>Date</u>	<u>Degree</u>	<u>Current status</u>
Amal Wanigatunga	9/11-6/13	MPH	Graduated—enrolled in Doctoral program
Boya Lin	5/16-present	MPH	Enrolled
Anjili Thakur	1/16-4/1/16	MPH	Graduated
Nick Wawrzyniak	9/14-7/16	MS	Graduated - Nova Medical School
Rohini Patel	8/15-7/16	BS	Graduated
Hetaim Patel	5/08-5/09	BS	Graduated – Nova Medical School
Shiyao Gao	9/14- 12/14	MPH	Graduated
Stacey Schulz	5/08-5/09	BS	Graduated
Dave Gunderman	1/09-6/09	MS	Graduated – Ph.D. program at U of Texas
Jeff Knaggs	6/09-12	BS	Graduated
Lauren Menke	6/08-9/08	BS	Graduated – UF Medical School
Carolyn Scott	9/11-9/13	BS	Graduated - Vanderbilt Medical School
Marina Gariga	1/14-5/14	MPH	Graduated
Karen Cuttin	9/14-8/15	BS	Graduated – Georgetown Medical School

Faculty and fellow mentees

<u>Name</u>	<u>Date</u>	<u>Degree</u>	<u>Role</u>	<u>Current status</u>
Anoop Balachandran	10/16-present	Ph.D.	Primary mentor	Research Fellow
Haihou Chen	12/14-present	Ph.D.	Secondary mentor	Faculty in Biostatistics
Vincenzo Valiani	12/14-present	M.D.	Primary mentor	Geriatrician
Yenisel Cruz-Almeida	9/14-present	Ph.D.	Secondary mentor	Asst Professor – Tenure track
Duane Corbett	7/14-present	Ph.D.	Primary mentor	Research Fellow
Scott Brakenridge	8/16-present	M.D.	Secondary mentor	Asst Professor & OAIC Scholar
Nathan Eckert	1/16-9/16	Ph.D.	Secondary mentor	T32 Mentee – secondary mentor
Corey Simon	12/15-5/16	Ph.D.	Secondary mentor	Asst Professor of Physical therapy
David Gunderman	5/14-10/15	Ph.D.	Primary mentor	Employed in private industry
Tom Buford, Ph.D.	8/09-6/13	Ph.D.	Secondary mentor	Asst Professor – Tenure track
Keith McGregor	8/10-6/13	Ph.D.	Secondary mentor	VA – Career Development Awardee
Siliva Giovannini	2007-2008	M.D.	Secondary mentor	Geriatrician

SERVICE

National and international service:

- Standing member on NIH/Neurological, Aging and Musculoskeletal Epidemiology (NAME) Study Section. 2016
- Voting member of the Data & Safety Monitoring Board for *Researching the Effectiveness of Lumbar Interventions for Enhancing Function Study (RELIEF study)*
- Voting member of the Data & Safety Monitoring Board for *Health Outcomes of Tai Chi in Subsidized Senior Housing*
- Dr Hadwen Trust Foundation UK's leading medical research charity
- Medical Research Council in the UK
- NIA/National Institute on Aging Grants for Early Medical/Surgical Specialists Transition to Aging Research (GEMSSTAR) 2015 & 2016
- NSF/Cyber-Physical Systems Program (NSF 15-541)
- National Institute on Aging: Study Section ZAG1 ZIJ-7 NIA Thrombosis RFA review
- National Institute on Aging: Study Section ZAG1 ZIJ-M1 Special Emphasis Panel SRG
- ARRA fund stage 1 grant reviewer
- Director of the Office of Disease Prevention (ODP), National Institutes of Health (NIH), Invitation to contribute to a panel on, *Physical Activity and Disease Prevention Research Gaps and Goal-Setting: How Do We Get More People Moving More?*
- American Federation for Aging Research Board Meeting. Invited to be a member of the panel to explore protein recommendations for older adults. Event to be held on April 5th in New York City
- Physical Activity and Disease Prevention: Identifying Research Priorities. National Institutes of Health
- Ad Hoc member of NIH/Neurological, Aging and Musculoskeletal Epidemiology (NAME) Study Section
- NIA/National Institute on Aging Grants for Early Medical/Surgical Specialists Transition to Aging Research (GEMSSTAR)
- NSF/Cyber-Physical Systems Program (NSF 15-541)
- Chair of the Strategic Health Initiative on Aging in Exercise Science and Sports Medicine of the American College of Sports Medicine

Editorial boards:

Editorial Board Member. *The Journal of Frailty & Aging* is a peer-reviewed international journal aimed at presenting articles that are related to research in the area of aging and age-related (sub) clinical conditions. In particular, the journal publishes high-quality papers describing and discussing social, biological, and clinical features underlying the onset and development of frailty in older persons.

Editorial Board Member. *Journals of Gerontology: Medical Sciences* publishes articles representing the full range of medical sciences pertaining to aging. Appropriate areas include, but are not limited to, basic medical science, clinical epidemiology, clinical research, and health services research for professions such as medicine, dentistry, allied health sciences, and nursing.

Ad Hoc Journal Review:

Journal of the American Medical Association (JAMA)
 The LANCET
 Journal of Applied Physiology
 AJP: Regulatory, Integrative and Comparative Physiology
 Journals of Gerontology: Biological & Medical Sciences
 Journal of the American Geriatrics Society
 British Medical Journal
 International Journal of Obesity
 International Journal of Sport Psychology
 National Institute on Aging internal reviewer
 Biomed Central: Geriatrics
 Obesity Journal
 Aging Clinical and Experimental Research
 Medicine & Science in Sports & Exercise
 Proceedings of the National Academy of Sciences
 Journal of Physiology
 Obesity
 PLOS ONE

Academic service:

Various Search committees for Department of Aging & Geriatric Research	present
University of Florida, Faculty Senate Department of Aging & Geriatric Research representative	8/09 - 2013
University of Florida, College of Medicine Faculty Council Department of Aging & Geriatric Research representative	8/07- 2013
University of Florida, College of Medicine Faculty Council Sub-committee for mentoring within COM	8/07- 8/09
University of Florida Faculty Senate	8/06-7/07
The Learning Resource Center Tutor for Physics & Managerial Statistics	5/03 - 8/03
School of Education, Syracuse University Promotion and Tenure Teaching Committee	10/02 - 2/03
Department of Athletics, Tutor Tutor for Anatomy & Exercise Physiology	9/98 -12/04
Faculty search committee Syracuse University, Dept. of Health and Exercise Science Graduate student representative	9/2003