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### EDUCATION

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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

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2012 CTSI Academy of Research Excellence at the University of Florida  
2012 Leadership Development Program  
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

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2014-present Associate Professor with Tenure, Department of Aging & Geriatric Research, University of Florida  
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  
2007-2014 Assistant 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

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Category	Brief description	Page
Grant support	8 PI or Co-PI grants; 15 Co-investigator/consultant/program faculty grants; 27 completed	2; 4
Bibliography	162 peer-reviewed, invited or commentary articles (55 as Senior/Corresponding author) 6 books/chapters, >175 abstracts presented at National and/or International Meetings	10
Academics, teaching & mentorship	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.	26
Service	NIH study section, Editorial boards, DSMB's, review panels and University committees	28

## PROFESSIONAL SOCIETIES

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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 - FGSA
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

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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)
2017	Term Professorship – UF recognition of outstanding academic achievement
2017	Fellowship status, Gerontological Society of America
2016	Chair of the Strategic Health Initiative on Aging in Exercise Science and Sports Medicine of the American College of Sports Medicine
2016	Co-Chair of the Measurement, Statistics, and Research Design (MSRD) Interest Group of the Gerontological Society of America

## GRANT SUPPORT

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### Active Principal or Co-Principal Investigator:

1. R01AG042525  
NIH/NIA

7/01/13-06/31/18

\$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  
NIH/NHLBI \$1,385,405 01/1/14 – 12/31/18  
*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  
NIH/NCI \$607,308 09/01/15-03/31/18  
*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  
NIH/NIA Site: \$523,371 (Total: \$5,361,994) 09/01/15 – 05/31/18  
*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  
NIH/NIA Site: \$5,400,000 (Total: \$64,400,000) 09/1/09 – 11/31/17  
*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. NIH/NIA P30AG028740-core  
*Claude D. Pepper older Americans Independence Center- Data Science & Applied Technology Core.* 3/31/17 – 3/31/22  
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)
7. U01 AG051421, NIA 9/2015- 8/2017  
*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)
8. UF Health Cancer Center \$40,000 1/1/16 – 10/30/17  
*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, Consultant or Mentor on training awards

1. NIH/NIA R33AG056540 9/1/17-8/31/22  
The University of Florida Jacksonville Aging Studies Center (JAX- ASCENT)  
This grant expands existing research collaborations on both aging and health disparities at a clinical research site in Jacksonville, FL. The project will develop and partner with expertise on clinical trials, recruitment, adherence, retention, assessment of geriatric outcomes, biomarkers, and behavioral studies all focused and tailored on research in urban minorities and low SES older adults.  
Role: Co-Investigator (Multi PI: Anton and Pahor)
  
2. UF CTSI/PRICE/IOA 8/1/16-7/31/17  
Pain Research and Intervention Center of Excellence / Institute on Aging / UF Center for Translational Science Institute  
*Real-Time Patient Reported Outcome of Pain in Community-dwelling Older Adults. (PROMPT)*  
This is an internal award to the UF CTSI, Pain Institute and Institute on Aging to develop wearable systems for assessing ecological momentary assessment of pain and mobility using a smart watch.  
Role: Co-Investigator (PI: Rashidi)
  
3. P30AG028740 Development Project 8/1/15-7/31/17  
*Feasibility of real-time online activity and mobility monitoring (ROAMM)*  
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: Co-Investigator (PI: Pahor; PI of Development Project: Rashidi)
  
4. 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
  
5. 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)
  
6. 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)
  
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. R01 HL122846 6/1/15-11/31/18

NIH/NHLBI

*Low intensity exercise intervention for peripheral artery disease: the LITE trial*

Our primary aim is to determine whether peripheral arterial disease (PAD) participants randomized to a low intensity, self-paced, home-based walking exercise intervention achieve greater improvement or less decline in six-minute walk performance at 52-week follow-up, compared to PAD participants randomized to a high-intensity, ischemic pain inducing home-based walking exercise intervention, and as compared to a control group, respectively.

Role: Co-Investigator

9. 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)

10. NIH/NIA P30AG028740 6/1/12 – 3/31/22

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)

11. 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)

12. 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)

13. 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)

14. NIH/NIA T32AG049673 9/2015-8/2020

*Integrative and multidisciplinary pain and aging research*

The overall goal of the IMPART program is to develop outstanding independent investigators capable of sustaining productive clinical and translational research careers addressing the biopsychosocial mechanisms underlying age-related changes in the experience of pain and/or designing clinical interventions to ameliorate acute and chronic pain among older adults.

Role: Program Faculty (PI: Fillingim)

15. NIH/NIA T32AG020499

05/01/02-04/30/18

*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: Program Faculty (PI: Marsiske) Primary Mentor graduates Torrance Higgins and Amal Wanigatunga

### **Pending and planned grants**

U01 RFA-OD-17-004

01/01/18-12/31/23

*The Florida Intensive Health Choices Study (FIHCS)*

This project will study factors that influence key health behaviors at the individual level, using intensive longitudinal data collection and analytic methods

Role: Administrative PI (Multi-PI grant with Dallery and Tucker)

Submitted 10/2017

R21/R33 Phased Innovation Award

01/01/18-12/31/23

*Wearable technology infrastructure to enhance capacity for Real-time, Online Assessment and Mobility Monitoring (ROAMM) of intervening health events in older adults.*

This award will build an infrastructure to understand the impact of intervening health events (i.e. episodic falls, injuries, illnesses, hospitalizations) using smartwatch apps.

Role: PI (Co-PI: Ranka)

Submitted 6/30/17

T32-NR016917 NIH/NINR

01/01/18-12/31/22

NextGen Nurse Researchers Leverage Team Science, Informatics, and Technology to Advance Palliative Care.

Role: Program faculty (MPI: Keenan, G.M. & Wilkie, D.J).

Submitted 5/25/2017

1P30AG059297-01

04/01/18 – 03/31/23

*University of Florida Resource Center for Minority Aging Research*

The two primary goals of the UF RCMAR are: 1) to promote the diversity of the aging research workforce by identifying, supporting, and mentoring promising investigators from underrepresented backgrounds; and 2) to enhance the health of older populations by conducting state-of-the-art interdisciplinary research investigating social and behavioral contributions to pain and disability in later life.

Role: Program faculty (PI: Fillingim)

Submitted 7/20/2017

R01

06/01/18-12/31/23

*Evaluating D3-creatine dilution estimates of functional muscle mass due to weight loss and exercise in older adults who have obesity.*

This project will evaluate a new method of assessing functional muscle mass in low functioning older adults with obesity.

Role: Co-PI (Multi-PI grant with Cawthon, Anton and Evans)

To be submitted 12/2017

T32 NIH/NIA

01/01/19-12/31/23

Mobility and Aging

The overall goal is to develop outstanding independent investigators capable of sustaining productive clinical and translational research careers that help build a translational understanding and interventions that impact mobility in older adults.

Role: PI

To be submitted 04/2018

**Completed within the past 15 years:**

1. NIH/NIA R21 AG044862

09/11/14-08/31/17

*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)

2. NIH/NIA P30AG028740-Pilot

8/1/13 – 3/31/17

*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

3. 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)

4. 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

5. 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

6. 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)

7. 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)

8. 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

9. 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

10. 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

11. 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

12. 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

13. 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

14. 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

15. 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

16. 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

17. 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)

18. 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

19. 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.)

20. 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

21. 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)

22. 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

23. 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

24. 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

25. 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)

26. NIH/NIA U01AG022376 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)

27. 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

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### ***Refereed Journal Articles:***

Total Number of peer-reviewed, non-peer reviewed and invited articles: 150

Total Number of Senior (Corresponding) Author Publications: 55

\*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 or non-peer reviewed (indicated) papers:**

1. **Manini TM\***. Organ-o-penia. *Journal of Applied Physiology*. Vol 106 (6) 1759-60, 2009. (Commentary)
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, Scarpace 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\***. Expanding our physical activity (measurement) budget wisely. *Journal of Applied Physiology*. Vol 111 (2): 608-13. (Commentary)
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**Manuscripts in Review/Preparation as senior or corresponding author:**

<b>Title</b>	<b>Status</b>
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
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
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### Books and book chapters

1. Book Chapter: **Manini TM\***, Gunderman D, Clark BC. 7<sup>th</sup> 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<sup>^</sup>, **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. Published 2017.
6. Book: **Manini TM\***. Adaptations to strength exercise in pre-clinically disabled older adults. Published by Lambert Academic Publishing. Saarbrucken, Germany.

### International invited presentations

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

Presentation given in Barcelona, Spain July 8<sup>th</sup> 2010

Presentation title: Can we treat Sarcopenia in older persons?

Keynote speaker

Quebec network for studies on aging.

Presentation given in Montreal, Canada. October 7<sup>th</sup>, 2011

Presentation title: Sarcopenia ≠ Dynapenia

8th International Congress on Strength Training" (ICST2012)

Presentation given in Oslo, Norway October 25<sup>th</sup>, 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 5<sup>th</sup>, 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 7<sup>th</sup>, 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 3<sup>rd</sup>, 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 19<sup>th</sup> 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 8<sup>th</sup> 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 1<sup>st</sup>, 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 9<sup>th</sup>, 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, 13<sup>th</sup> 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, 27<sup>th</sup> 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, 8<sup>th</sup> 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 7<sup>th</sup>, 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 175 abstracts published and/or presented at international conferences. Available upon request.

## TEACHING & MENTORING EXPERIENCE

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### 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 &amp; Biostatistics</u> <i>Epidemiology of Chronic Disease</i> Role: Director
2008-2009	<u>Department of Applied Physiology &amp; 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 &amp; 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

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### Primary or Co-Primary Graduate Trainee Advisor/Mentor

<u>Name</u>	<u>Date</u>	<u>Degree</u>	<u>Current Status</u>
Matin Kheirkhahan	2014-present	Ph.D.	Enrolled in program
Anis Davoudi	2015-present	Ph.D.	Enrolled in program
Amal Wanigatunga	2012-2016	Ph.D.	Completed program – Johns Hopkins U
Torrie Higgins	2009-2015	Ph.D.	Completed program – Department of Defense
Sunil Swami	2010-2014	Ph.D.	Completed program – Phillips Inc.

Brad Cannell	2011-2013	Ph.D.	Completed program – North Texas U
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### Thesis & Dissertation Committee Member

<u>Name</u>	<u>Date</u>	<u>Degree</u>	<u>Primary Advisor</u>
Kate Duchowny	2014-present (external)	Ph.D.	Philippa Clarke, Ph.D. (U of Michigan)
Ali Barikroo	2014-2017	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>
Boya Lin	5/16-5/17	MPH	Graduated
Amal Wanigatunga	9/11-6/13	MPH	Graduated—enrolled in Doctoral program
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

### 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
Vincenzo Valiani	12/14-present	M.D.	Primary mentor	Geriatrician
Duane Corbett	7/14-present	Ph.D.	Primary mentor	Research Fellow
David Gunderman	5/14-10/15	Ph.D.	Primary mentor	Employed in private industry
Nathan Eckert	1/16-9/16	Ph.D.	Secondary mentor	T32 Mentee – secondary mentor
Siliva Giovannini	2007-2008	M.D.	Secondary mentor	Geriatrician

### Faculty mentees

<u>Name</u>	<u>Date</u>	<u>Degree</u>	<u>Role</u>	<u>Current status</u>
Josh Brown	1/17-present	Ph.D.	Primary mentor	Faculty in College of Pharmacy
Yenisel Cruz-Almeida	9/14-present	Ph.D.	Secondary mentor	Asst Professor – Tenure track
Scott Brakenridge	8/16-present	M.D.	Secondary mentor	Asst Professor & OAIC Scholar
Haihou Chen	12/14-9/16	Ph.D.	Secondary mentor	Faculty in Biostatistics
Corey Simon	12/15-5/16	Ph.D.	Secondary mentor	Asst Professor of Physical therapy
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

## SERVICE

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### 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
- Co-Chair of the Measurement, Statistics, and Research Design (MSRD) Interest Group of the Gerontological Society of America

### Editorial boards:

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.

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.

**Ad Hoc Journal Review (at least 1 review per year):**

Journal of the American Medical Association (JAMA)  
Journals of Gerontology: Biological & Medical Sciences  
Journal of the American Geriatrics Society  
Medicine & Science in Sports & Exercise

**University Academic Service:**

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