

## CURRICULUM VITAE

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## EDUCATION AND TRAINING

### Undergraduate

1983-1989	Scientific Lycee, B. Croce, Palermo, Italy	B.S.	Science and Math
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### Graduate

1989-1995	University of Palermo Medical School, Palermo, Italy	M.D.	Medicine and General Surgery
1991	University of Palermo Medical School, Palermo, Italy	Elective	Molecular Biology
1992-1993	University of Palermo Medical School, Palermo, Italy	Elective	Neurochemistry
1994-1995	University of Palermo Medical School, Palermo, Italy	Elective	Neurology

### Post-Graduate

1995	University of Miami School of Medicine, Miami, FL	Foreign Exchange Program	The Miami Project to Cure Paralysis, Lois Pope Foundation; Neuroregenerative potential of white matter
1996	Policlinico, University of Palermo Medical School, Palermo, Italy	Internship	Internal Medicine and Emergency Medicine
2001-2003	Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA	M.P.H.	Anne B. Newman, M.D., M.P.H Epidemiology of Aging

2002	Alzheimer Disease Research Center, University of Pittsburgh Medical Center, Pittsburgh, PA	Mini residency	Steven T. DeKosky, M.D Department of Neurology
2001- 2004	Graduate School of Public Health, University of Pittsburgh, Pittsburgh PA	Trainee for the Aging Training Program	Epidemiology of Aging Design and analysis of structural and functional brain imaging studies in large epidemiologic populations. PI: A B. Newman
2010	Institute for Clinical Research and Education, University of Pittsburgh, Pittsburgh PA	Trainee	Mentor Training Program PI: B. Rollman and W. Kapoor

### **APPOINTMENTS AND POSITIONS**

#### **Academic**

1996-1998	Post Doctoral Fellow	The Miami Projects to Cure Paralysis, Lois Pope Foundation;
1998-1999	Visiting Scientist	Department of Biomedical Engineering, Johns Hopkins School of Medicine, Baltimore, MD
1999-2001	Research Specialist	Department of Neurobehavioral Science, University of Pittsburgh, Pittsburgh PA
2001-2004	Post Doctoral Fellow	Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA
2005-2008	Assistant Professor	Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA
2009-2015	Associate Professor	Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA
2015-	Tenured Professor	Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA

#### **Non-Academic**

2003-04	Consultant	Baobab Organization, Pittsburgh
2004	Consultant	Liverpool School of Medicine, UK Lilongwe Central Hospital, Malawi University of North Carolina

2017	Consultant	SHAre India, University of Pittsburgh and Hyderabad Medical Center
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### **CERTIFICATION AND LICENSURE**

#### **Medical or Other Professional Licensure**

1996	Medical Licensure	University of Palermo Medical School, Palermo Italy
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### **MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES**

2007-present	Geriatric Society of America
2009-present	American Academy of Neurology
2010-present	Sigma Xi
2012-present	American Diabetes Association
2016-present	American Society for Clinical Investigation (ASCI)

### **HONORS AND AWARDS**

1992	Student exchange scholarship from SISM, University of Krakow School of Medicine
1994	Travel award from the University of Palermo to London, England
1995	Albanese contest for research excellence-doctoral thesis: "Neurosteroids: a probable role in neurodegeneration"
1995	Predocctoral fellowship from International Federation of Medical Students Association (IFMSA)
1996-98	Postdoctoral research fellowship award from the University of Palermo School of Medicine
2001-2003	NIH T32 award for MPH training in Epidemiology, Neuroepidemiology of aging, Graduate School of Public Health, University of Pittsburgh
2003	Best Scientific Presentation at Dean's Day, Graduate School of Public Health, University of Pittsburgh
2004	New Investigator Award for new and relevant work in geriatrics, Merck/American Geriatric Society
2004	Best Scientific Presentation at Dean's Day, Graduate School of Public Health, University of Pittsburgh
2007	Travel award from National Institute on Aging to participate in <i>Thinking, Moving &amp; Feeling</i> Conference in Bethesda, MD

2007	First prize in the Junior Faculty category at the Celebrating Research on Aging Day, University of Pittsburgh Institute on Aging
2008	Article, “Lower Digit Symbol Substitution Test Score and Slower Gait are Associated with Greater Risk of Mortality and of Developing Incident Disability in Well Functioning Older Adults” selected for a public education resource feature of the American Geriatrics Society Foundation for Health in Aging
2012	Marquis Who’s Who in America, 2012 Edition
2016	Elected Member of the American Society for Clinical Investigation (ASCI)
2019-present	Delta Omega Inductee

## PROFESSIONAL ACTIVITIES

### 1. Teaching

#### a. Courses Taught

Years Taught	Course Number: Title	Hours of Lecture, credits Average Enrollment	Role in course Primary /Coordinator
2006 –2011	EPIDEM 2981: Epidemiology of Aging-Methods	32 hrs, 2 credits 5-10 students	Primary
2007 – 2011	EPIDEM 2250: Epidemiology Seminar Series “ <i>The Tipping Point</i> ”	15 hrs, 1 credit 50-60 students	Primary
2014-	EPIDEM 2012: Principles of Neuroepidemiology, fall	32 hrs, 2 credits, 9-16 students	Primary
2018-	EPIDEM 2019: Introduction to multimodal neuroimaging	30 hrs, 2 credits,	Primary
2018	EPIDEM 2920: Grant Writing	30 hrs, 2 credits,	Primary

#### b. Other Teaching (lectures, tutorials and continuing education courses)

Date(s)	Type of Teaching	Title
05/18/06	Presentation: Health, Aging and Body Composition (ABC) Study Reception, 1 hr	The Healthy Brain Project
07/10/06	Presentation, Gingko Biloba Evaluation Memory Reception, 1 hr	Brain and movement
10/23/06	Lecture, EPI 2980, 1hr	Aging of the Central Nervous System

<b>Date(s)</b>	<b>Type of Teaching</b>	<b>Title</b>
03/13/07	Lecture, Center for Aging and Population Health (CAPH), 1hr	Association of gait characteristics with subclinical structural brain abnormalities in high functioning older adults
03/14/07	Panel, The Office of Academic Career Development, 2 hrs	Life After Your K Award Workshop
03/19/07	Presentation, Dean Series, 1 hr	Insights into the central control of gait in community-dwelling older adults
05/31/07	Presentation, Health, Aging and Body Composition (ABC) Study Reception, 1 hr	The Healthy Brain Project
10/24/07	Seminar, Pepper Scholars working group, 1 hr	Introduction to Toastmasters
03/06/08	Lecture, EPI 2900, 1 hr	Mobility and the Brain
03/07/08	Presentation, Vestibular Rehabilitation: an advanced course and update, 1 hr	Brain Neuroimaging Correlates of Mobility Control in the Oldest Old
04/03/08	Lecture, Epidemiology Seminar Series, 1hr	Neuroepidemiological approaches to mobility impairment in the oldest old
04/23/09	Seminar, Pepper Junior Scholar Toolbox	Time Management Skills
06/25/09	Lecture, CAPH Participant Advisory Board	Something in the way we move.
05/02/10	Seminar, Pepper Center	GRACE: Geriatric Research in Ambulatory and Cognitive Excellence
06/03/10	SCD Journal Club	Central Vascular Stiffness and Cognitive Function
02/01/11	LIFE Successful Aging Workshop	Recalculating your brain.
03/22/11	Invited Lecture, Advanced Epidemiology of Aging course (EPIDEM 2900)	Mobility and the Brain
10/20/2011	Invited seminar, Radiology Department, Chair: Dr. T. Bae	Etiological research applied to epidemiological studies using neuroimaging
11/28/11	Core Didactic Sessions, Claude Pepper Junior Scholars	Epidemiology of Aging
6/8/12	Lecture, Psychiatry Residents, Research Track	Neuroepidemiology: Opportunities for Translational Research
6/20/12	Lecture, Physical Medicine and Rehabilitation Panther Rehab Rounds	Something About the Way We Move

<b>Date(s)</b>	<b>Type of Teaching</b>	<b>Title</b>
07/02/2012	3 hour symposium for CNBC – Neuroscience MNTTP	“Application of neuroimaging in Epidemiological studies”
07/03/2012	Professional Development (MD/PhD course) Molecular Medicine Course	Neuroepidemiology: Definitions and applications
10/25/2012	Excellence in Neuroscience and Clinical research, (Neurology Residents)	Study Population: generalizability, feasibility
10/25/2012	Excellence in Neuroscience and Clinical research, (Neurology Residents)	Study Population: generalizability, feasibility
4/9/2013	Lecture, EPI2900	Brain and Mobility
7/2013	Lecture: Professional Development III	Grant Writing & Networking Course
10/2013	NEXT-UP Workshop Lecture Series for Neurology and Neurosurgery Residents and Fellows	Study Populations: generalizability, feasibility
3/2014	Lecture: EPIDEM 2213	Independent Study: Laboratory- Brain Imaging
5/2014	3 hour symposium for CNBC – Neuroscience MNTTP	“Neuroepidemiology: Opportunities for Translational Research on Brain Aging”
3/05/2015	Seminar EPI2250 - 1 hour	Neuroepidemiology Specialization and Area of concentration
6/24/2015	Seminar, CMU Mechanobiology 2015 Summer Institute- 1 hour	Neuroimaging at 7Tesla: a potential tool to quantify mechanical insults to brain venules
7/14/2015	Seminar, Neuroscience of Pain Program, Palma, Spain- 1 hour	Application of the principles of neuroepidemiology to understand brain response to aging and disease.
2/2/16	Lecture: Advanced Epidemiology on Aging Course	Mobility and the Brain
3/3/16	Seminar EPI2250 – 1 hour	“Neurocognitive Study of Adult Patients with Sickle Cell Disease”
10/17-21/2016	Research Workshop on Grant Proposal and Manuscript Writing	Muhimbili University of Health and Allied Sciences (MUHAS), Department of Radiology & Haematology, Tanzania
12/7/2017	Central control of mobility	Health Service Research Seminar Series, Center for Research on Health Care (CRHC)
2016-	Journal Club	Epi-BRAIN

6/4-8/2018	Research Workshop in Neuroepidemiology- Grant Proposal and Manuscript Writing	Makerere University, College of health Sciences, School of Medicine Kampala, Uganda
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**c. Major Advisor for Graduate Student Essays, Theses, and Dissertations**

<b>Date(s)</b>	<b>Name of Student</b>	<b>Training Role</b>
2006	JeanClaude Rwigema	Advisor for AFAR sponsored MSTAR program
2006-2010	Vijay Venkatraman	Advisor for PhD Thesis and dissertation
2008	Rebecca Meyer	Advisor for AFAR sponsored MSTAR program
2007-2009	Anderson Tesfazion,	MPH Academic Advisor
2008-2010	Michael Popovich	MPH Academic Advisor
2008	Elliott Dickerson	Advisor for AFAR sponsored MSTAR program
2009	Raúl Poulsen	Advisor for AFAR sponsored MSTAR program
2010-2011	Timothy Hughes	Advisor for PhD Thesis and dissertation
2010-2011	Enrique Velasquez	Advisor for MS Thesis and dissertation
2010-2013	Qu Tian	Advisor for PhD Thesis and dissertation
2010-2014	Karen Nunley	Advisor for PhD Thesis and dissertation
2011-2014	Ge Liu	Advisor for PhD Thesis and dissertation
2012- 2016	Anne Ritter	Dissertation Chair
2013-2018	Beth (Sarles) Shaaban	Advisor for PhD Thesis and dissertation
2014-2018	Dana Jorgensen	Dissertation Chair
2015-2018	Raj Kumar	Dissertation Chair
2015-2018	Jordan A. Brooks	Advisor for MPH Thesis
2016-2018	Ayushi Divechi	Advisor for MPH Thesis
2019-	Sarah Kolibash	Advisor for MPH Thesis
2019-	Shannon Mance	Advisor for MPH Thesis
2019-	Rebecca Ehrenkranz	Advisor for PhD
2018-	Alex Layden	Career Advisor for MDPHD
2019-	Marisa Millenson	Career Advisor for MDPHD
2019-	Kaylin Witonski	Academic Advisor for MDPHD

#### d. Service on Masters or Doctoral Committees

<b>Date(s)</b>	<b>Name of Student</b>	<b>Degree Awarded, Year</b>	<b>Type of Document and Title</b>
2006-2010	Vijay Venkatraman	Ph.D., 2010 Department of Biomedical Engineering, University of Pittsburgh	“Automated segmentation of white matter hyperintensities on MR images.”
2008-2009	Nora Watson	PhD, 2009 Department of Epidemiology, University of Pittsburgh	“Arterial Stiffness and Functional Decline in Aging.”
2010 - 2011	Timothy Hughes	PhD 2011, Department of Epidemiology, University of Pittsburgh	“Relationships between oxysterols and brain structural and cognitive changes.”
2009-2011	Kira Leishear	PhD 2011, Department of Epidemiology, University of Pittsburgh	“The Relationship of Changes in Vitamin B12 and Homocysteine and Changes in Peripheral Nerve and Neurological Function .”
2010-2011	Enrique Velasquez	MS in Epidemiology 2011, University of Pittsburgh	Thesis: "Association between a Sirtuin 5 SNP (rs SIRT5 SNP, rs9382222) and three functional markers of brain health.”
2010-2013	Andrea Metti	PhD, 2013, Department of Epidemiology, University of Pittsburgh	“Blood Biological Markers of Alzheimer’s Disease”
2011-2013	Qu Tian	PhD, 2013, Department of Epidemiology, University of Pittsburgh	“ Body-Heart-Brain Dynamics – An Observational Epidemiological Perspective”
2011-2013	Karina N. Alvarez	MPH, 2013, Department of Epidemiology, University of Pittsburgh	“Application of advanced statistical methods in an aging dataset”
2010-2014	Karen Nunley	PhD, 2014, Department of Epidemiology, University of Pittsburgh	“Type 1 diabetes, brain structure and function”
2011-2014	Ge Liu	PhD, 2014, Department of Epidemiology, University of Pittsburgh	“Racial Differences in Brain Health”
2012-2016	Anne Ritter	PhD, 2016, Department of Epidemiology, University of Pittsburgh	Epidemiology of Post-Traumatic Seizures Following Moderate to Severe Traumatic Brain Injury
2013-2018	Beth (Sarles) Shaaban	PhD, 2018, Department of Epidemiology, University of Pittsburgh	Promoters of cerebral small vessel integrity for cognitive disorder prevention



2014-2018	Dana Jorgensen	PhD, 2018, Department of Epidemiology, University of Pittsburgh	Racial differences in brain health at midlife and the potential mediating role of cardiorespiratory fitness and cardiometabolic risk
2015-2018	Raj Kumar	PhD, 2018, Department of Epidemiology, University of Pittsburgh	Acute Inflammation and Infection: The effects on recovery following moderate to severe traumatic brain injury

**e. Service on Comprehensive or Qualifying Examination Committees**

<b>Dates Served</b>	<b>Student Population</b>	<b>Type of Exam</b>
2007- 2010	Ph.D. students in Epidemiology, GSPH	Chronic disease preliminary exams

**f. Supervision of Post-Doctoral Students, Residents, and Fellows**

<b>Dates Supervised</b>	<b>Name of Student</b>	<b>Position of Student</b>
2006-2008	Robert Tamburo, PhD	Postdoctoral fellow
2008	Christina Vaughan, MD	Postdoctoral fellow
2011-2013	Timothy Hughes, MPH, PhD	Postdoctoral fellow
2012-2014	Andrea Rosso, MPH, PhD	Postdoctoral fellow
2013-2015	Jason Flatt, MPH, PhD	Postdoctoral fellow
2013-2015	Jen Han, MD	Neurology fellow
2013-present	C. Elizabeth (Sarles) Shaaban, MPH	Postdoctoral fellow
2014-2015	Karen Nunley, PhD	Postdoctoral Scholar
2016-2018	Robyn Massa, MD	Neurology fellow
2018-2019	Beth Shaaban, MS, PhD	Postdoctoral Scholar

**g. Mentoring of Graduate Students in Field Placements**

<b>Dates</b>	<b>Student</b>	<b>Training Role</b>
05/07-09/07	Amy Dressen	Supervisor, Intern
2008-2010	Yan Du	Supervisor, Graduate student researcher
2009-2012	Nathan Mays	Supervisor, Graduate student researcher
2010-2012	Megan Olson Hunt	Supervisor, Graduate student researcher
2010-2012	Adrian Maries	Supervisor, Graduate student researcher
2010-2013	Qu Tian	Supervisor, Graduate student researcher
2011-2013	Karen Nunley	Supervisor, Graduate student researcher

<b>Dates</b>	<b>Student</b>	<b>Training Role</b>
2011-2013	Ge Liu	Supervisor, Graduate student researcher
2012-2015	C. Elizabeth (Sarles) Shaaban	Supervisor, Graduate student researcher
2013-2016	Anne Ritter	Preceptor, Internship
2013-2015	Misun Hwang	Mentor, Department of Epidemiology
2014-2015	Dana Jorgensen	Supervisor, Graduate student researcher

## 2. Research and Training

### a. Grants and Contracts

#### Principal Investigator

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>FTE</b>
<b>ACTIVE</b>				
2018-2023	U01AG061393. Neurobiological drivers of mobility resilience: the dopaminergic system.	NIA	\$ 6,247,000	2.4
2016-2021	Grant1217681 - Population Neuroscience of Aging and Alzheimer's Disease (PNA)	NRSA	\$2,076,045	1.2
2015-2020	P30 AG024827-11 Pittsburgh Older American Independence Center (Leader of the Integrated Systems Core)	NIA	\$51,678	1.2
2018-20	Ultra-high field ante mortem and postmortem methodologies to examine small vessel disease- Administrative Supplement	NIMH	\$100,000	1.2
2017-19	Neurobiological drivers of successful rehabilitation, Administrative supplement to Claude Pepper	NIA	\$100,000	1.2
2017-2018	Maladaptive Induction of Thrombospondin-1 Dysregulates Cerebral Blood Flow and Cognition of Aged Individuals	Blum-Tansky funds- ADRC Donation	\$20,000	-
2014-2018	1R01AG044474-03- Ultra-high-field neuroimaging in elderly after a two-year exercise intervention	NIA	\$217,694	1.8

**CLOSED**

2015-2017	R21 DK107926-01, Retinal Imaging Markers of Cognition in Adults with T1D	NIDDK	\$150,000	.96
2011-2016	1R01AG037451-05, Resilience to mobility impairment: neural correlates and protective factors	NIA	\$454,100	3.0
2015-2016	3R01AG037451-05S1, Resilience to mobility impairment: neural correlates and protective factors	NIA	\$136,202	3.0
2015-2016	P30 AG024827-11 - Physical activity effects on blood biomarkers of neurogenesis, angiogenesis, and inflammation and its impact on mobility (Co-PI)	Claude Pepper	\$25,000	-
2014-2016	Neurovascular Signature of Accelerated Cognitive Impairment in Adult Patients with Sickle Cell Disease	VMI	\$25,000	1.0
2012-2015	1 U13 AG041613-01, Aging, the Central Nervous System, and Mobility in Older Adults, (Co-PI w/ Stephanie Studenski)	NIA	\$50,095	-
2010-2014	P30 AG024827-06 Pittsburgh Older American Independence Center, (PI of Clinical Core)	NIA	\$75,587.00	1.2
2012-2013	1 R01 AG029232-01, Brain anatomical correlates of mobility control in the oldest old (no cost-extension of a 5 yr RO1, 2007-2012)	NIA	\$343,657	6.0

2010-2014	R01 DK089028-01, Imaging biomarkers of accelerated brain aging in Type-1 Diabetes	NIDDK	\$463,148.00	30
2006-2009	1 K23 AG028966-01 (Beeson career award), Novel brain neuroimaging markers of age-related mobility impairment, PI	NIH/NIA	\$198,686	12.0
2006-2008	1 R03 AG025076-01, Global vs. focal neuroimaging markers of Dementia risk, PI	NIH/NIA	\$42,724	6.0
2005-2007	1 P30 AG024827-01, Pittsburgh Claude D. Pepper Older Americans Independence Center - Scholar Awardee	NIH/NIA	\$63,750	10.2

**Foundations/Institutional funding**

2014-2015	PET Neuroimaging Study of Patients with Type 1 Diabetes	MRRC	4 PET scans-	-
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2010-2013	Pepper Pilot (P30 AG024827-06), The influence of a dancing intervention on neurocognitive function in postmenopausal healthy women, (Dual-PI with Dr. K.Erickson)	Claude D. Pepper	\$35,000	-
2012-2013	PSC - A neuroimaging study to measure the association of baseline cerebral blood flow, structural brain characteristics and neuronal activation with the 2-year response to physical activity intervention in the LIFE –main participants	University of Florida	\$10,000	-
2012-2013	NIA contract (HHSN311201000281P) and Pepper Pilot (P30 AG024827-06), A neuroimaging study to measure the association of baseline cerebral blood flow, structural brain characteristics and neuronal activation with the 2-year response to physical activity intervention in the LIFE –main participants	NIA	\$20,000	-
2012-2013	Association between resting state and structural brain characteristics with 2-year response to physical activity intervention in the LIFE –main participants” (co-PI w/ Howard Aizenstein)	UPMC Aging Institute	\$20,000	2.5

2009-2012	University of Pittsburgh Research Council Multidisciplinary Small Grants Program. GRACE: Geriatric Research in Ambulatory and Cognitive Excellence	URC	\$50,000	-
2008	MRRC01: "Neuroimaging correlates of psychomotor slowing in patients with diabetes.", PI	MRRC	\$8,920	-
2007	263-MA-706016-2 Renewal, "Pilot funding to advance progress toward functional MRI study of brain changes after physical activity intervention", PI	NIA	\$21,020	-
2007	"A new functional MRI study of brain changes after intervention with a dance-dance repetition device", PI	Claude Pepper	\$7,018	-
2007	263-MA-706016, "A pilot study to measure the association between functional brain MRI activation and motor performance in the LIFE participants 1 year after the end of the intervention", PI	NIA	\$12,152	-
2006-2007	Small Pilot Pepper grant, "Diffusion tensor imaging in Motor Re-learning in Older Adults with Mobility Disability", PI	Pepper center	\$8,500	-

2001-2004 T32 AG000181-16, NIA  
 trainee

**Co- Investigator on Grants**

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>
<b>ACTIVE</b>				
2017-2021	R01- Restoring Central Motor Control to Improve Community Mobility of Older Adults (PI: Rosso)	NIA		1.2
2016-2021	R01HL127107 - Neurovascular Determinants of Cognitive Function in Adults with Sickle Cell Disease (PI: Enrico Novelli)	NHLBI	\$2,494,914	1.2
2016-2021	High Performance Imaging for Assessment of Small Vessel Disease in Older Adults with Depression (PI: Howard Aizenstein)	NIMH	\$109,680	1.2
2015-2020	Mild Cognitive Impairment: A Prospective Community Study (PI: Mary Ganguli)	NIA	\$24,267	1.2
2016-2018	R21 AG054666-01 - Cognitive Decline, Brain Aging, Physical Environment, and Mobility (PI: Andrea Rosso)	NIA	\$150,000.00	1.2
2014-2019	R37 DK034818-31 – Epidemiology of Diabetes Complications (EDC) Phase II (PI: Trevor J. Orchard, Epidemiology)	NIDDK	\$405,275	.12
<b>CLOSED</b>				
2016-2017	Retinal imaging biomarkers of worsening microvascular complications in type 1 diabetes (PI: Karen Nunley)	DiaComp	\$99,995	-
2008- 2012	R01- “Influence of White Matter Damage on Step Initiation” (PI: P.Sparto, School of Engineering)	NIA	\$4,838.00	0.6

2012-2013	The LIFE-COMBINE Study: Lifestyle Interventions and Independence for Elders - Cognition and Mobility Interface Study (AS12-04) (PI: N. Nadkarni, Submitted to the LIFE Main Emerging Science Committee			
2006-2007	Developmental Project. "Development of an automated and reliable method to quantify cerebrovascular disease burden based on brain MRIs."(PI: H. Aizenstein, Psychiatry, Pittsburgh School of Medicine)	Pepper center	\$30,000	-
2005-2007	1 P30 AG024827-01 Pittsburgh Claude D. Pepper Older Americans Independence Center P/E-C:PP5 "Restoring Skill in Walking: A Motor Re-Learning Approach to Intervention for Older Adults with Mobility Disability" (PI: J. Van Swearingen)	NIA	\$126,810	-

**b. Invited Lectures**

<b>Date</b>	<b>Title of Presentation</b>	<b>Venue</b>
07/27/06	Advanced brain MRI methods to examine the mechanisms underlying age-related physical functional impairment	National Institute on Aging, Bethesda, MD
01/08/07	Methods and applications of neuroimaging techniques in epidemiological studies	Brain Tumor Center, Pittsburgh, PA
06/20/07	Brain anatomical and functional correlates of poorer gait speed in community-dwelling older adults	Baltimore Longitudinal Study on Aging, Bethesda, MD
02/2008	See Gait, Think Brain	2 <sup>nd</sup> International Congress on Gait & Mental Function, Amsterdam, The Netherlands
03/2008	Relationships between Gait and Central Nervous System	J. Paul Sticht Center, Wake Forest University, Winston-Salem, NC



<b>Date</b>	<b>Title of Presentation</b>	<b>Venue</b>
06/2008	Functional decline and motor system: balance, gait and falling	The Role of the Vascular System in Neurological Disease of the Aging Brain Washington, DC
1/2010	GRACE: Geriatric Research in Ambulatory and Cognitive Excellence	University of Pittsburgh Research Council
2/2010	Workshop: Using Imaging to Assess Gait and Dual Task Performance	3 <sup>rd</sup> International Congress on Gait and Mental Function, Washington, DC
2/2010	Resilience to Aging: A Neuroepidemiological Perspective	University of Florida at Gainesville
2/2011	Methods to study resilience to aging.	UPMC - Palermo, Italy
4/2012	Subclinical Indicators of Functional Decline: Early Detection	Canadian Longitudinal Study on Aging, Vancouver, BC
6/2012	Update on neuroimaging of gait in aging: from observations to mechanisms	International Society for Posture and Gait Research, Trondheim, Sweden
6/11/2012	“Something About the Way We Move”	Lecture, Physical Medicine and Rehabilitation Panther Rehab Rounds, Pittsburgh, PA
07/02/2012	“Application of Neuroimaging in Epidemiological Studies”	Center for the Neural Basis of Cognition – Carnegie Mellon University Neuroscience MNTP, Pittsburgh, PA
11/15/2012	“Brain resilience and risk of negative health outcomes”	Gerontological Society of America, San Diego, CA
11/16/2012	“Aging, the Central Nervous System, and Mobility in Older Adults: Application of Neuroimaging”	Aging, CNS, and Mobility Workshop, San Diego, CA
9/6/2013	“Sickle Cell Disease as a model to study accelerated brain aging”	Vascular Medicine Institute, University of Pittsburgh, Pittsburgh, PA
11/2/2013	“Biological aging of the brain in health and psychiatric disorders”	XIII Annual Meeting of the International College of Geriatric Psychoneuropharmacology, Pittsburgh, PA
11/19-20/2013	Aging, the Central Nervous System and Mobility in Older Adults – Neural Mechanisms of Mobility Impairments	Aging, CNS and Mobility Workshop, New Orleans, LA
4/17/2014	“Resilience to Brain Aging”	Alzheimer Disease Research Center, University of Pittsburgh

<b>Date</b>	<b>Title of Presentation</b>	<b>Venue</b>
5/22/2014	“Neuroepidemiology: Opportunities for Translational Research on Brain Aging”	Center for the Neural Basis of Cognition, Carnegie Mellon University, Pittsburgh, PA
1/21/2015	Aging, the Central Nervous System, and Mobility in Older Adults	Barshop Institute for Longevity and Aging Studies Seminar, University of Texas Health Science Center at S.A., San Antonio, TX
6/24/2015	“Neuroimaging at 7Tesla: a potential tool to quantify mechanical insults to brain venules”	Mechanobiology 2015 Summer Institute, Carnegie Mellon University, Pittsburgh, PA
6/28/2015	Aging, the Central Nervous System and Mobility in Older Adults – Neural Mechanisms of Mobility Impairments	International Society for Posture and Gait Research Seville, Spain
7/14/2015	“Application of the principles of neuroepidemiology to understand brain response to aging and disease”	Neuroscience of Pain Program, Palma, Spain
9/9/2015	“Imaging Brain Small Vessel Disease to Understand Normal and Accelerated Aging”	Department of Neurology, University of Pittsburgh School of Medicine, Pittsburgh, PA
10/27/2015	“Healthy Brain Aging and Cognitive Fitness in Later Life”	PA Geriatrics Society Fall Program, Pittsburgh, PA
10/8/2015	BRAIN DAY – Science 2015!	University of Pittsburgh Brain Institute, Pittsburgh, PA
10/27/2015	“Health Brain Aging and Cognitive Fitness in Later Life”	Pennsylvania Geriatric Society Western Division, Pittsburgh, PA
11/6/2015	“MRI Abnormalities in T1D”	University of Pittsburgh – University-Wide Adult/Pediatric Endocrine Conference
12/7-/2015	“Clinical neuroscience and cognitive aging”	Wisdom and Aging Symposium at Pitt Public Health, University of Pittsburgh, Pittsburgh, PA
10/13/2016	“Midlife Type 1 Diabetes and Neuroimaging Biomarkers of Brain Aging”	VAS-COG, 2016 Amsterdam, The Netherlands
8/25-26/2016	“Brain Aging”	NIA/AGS U13, Workshop on Pathways, Contributors and Correlates of Functional Impairment Across Specialties, Washington, DC

<b>Date</b>	<b>Title of Presentation</b>	<b>Venue</b>
10/3-4/ 2017	“Plasticity of the Central Nervous System in Aging”	NIA/AGS U13 Bench to Bedside Conference series, Sensorimotor Integration in older age. Washington DC

**c. Other Research and Training Activities**

<b>Date</b>	<b>Position</b>	<b>Description of Activity</b>
2005	Grants 101: Professional Grant Proposal writing - trainee	Program Development and evaluation, Professional grant writing and grant research
2005-10	Pittsburgh Pepper Junior Faculty Research group - Attendant	Present updates on ongoing work
2005-2009	Pittsburgh Pepper Research Seminar Series- Attendant	Present updates on ongoing work
2006-present	Cardiovascular Health Study (CHS) working group	Training junior investigators in the area of cardiovascular health
2006-present	Center for Aging and Population Health (CAPH) working group - Attendant	Present updates on ongoing work
2006-present	Mobility & Brain Imaging in Older adults working group	Monthly meeting of investigators to discuss ongoing challenges associated with collecting brain measures
2007-2011	Yearly Steering Committee meetings for Health, Aging, and Body Composition (ABC) -attendant	Present updates on ongoing ancillary
2010	Massimo Cenciarini, PhD student, Bioengineering	Consultant mentor for career development
2010-present	Neelesh Nadkarni, MD, PhD, Junior faculty, Medicine	Mentor for Neuroepidemiology
2011-2012	John Ryan, PhD, postdoctoral scholar, WPIC	K01 application WPIC Review Board
2011-13	Hyogin Park, External Lab/Cosponsor	BIOSC1903 – Undergraduate research rotation
2011-16	Journal Club Coordinator	“EPI-BRAIN NeuroImaging in Epidemiology Studies of Brain Aging and Diseases”

<b>Date</b>	<b>Position</b>	<b>Description of Activity</b>
2011-present	Contact Faculty for Neuroepidemiology – Area of Concentration in the Department of Epidemiology	Developed curriculum for “Scholar Award in Neuroepidemiology”, facilitated networking of collaborators with shared research and mentoring interests in the field of Neuroepidemiology
2013 – 2014	Co-Chair Working Group on Healthy Brain Aging- Aging Institute	Identify key contributors to the field of healthy brain aging, organize regular meetings, identifying main agenda items and action items

## PUBLICATIONS

### Refereed Articles:

1. **ROSANO C**, Felipe-Cuervo E, Wood PM. Regenerative potential of adult O1+ oligodendrocytes. *Glia*. 1999 Sep; 27 (3):189-202. PMID: 10457366.
2. Oudega M, **ROSANO C**, Sadi D, Wood PM, Schwab ME, Hagg T. Neutralizing antibodies against neurite growth inhibitor NI-35/250 do not promote regeneration of sensory axons in the adult rat spinal cord. *Neuroscience*. 2000; 100 (4):873-83. PMID: 11036221.
3. Sweeney JA, **ROSANO C**, Berman RA, Luna B. Inhibitory control of attention declines more than working memory during normal aging. *Neurobiology of aging*. 2001 Jan; 22 (1):39-47. PMID: 11164275.
4. **ROSANO C**, Krisky CM, Welling JS, Eddy WF, Luna B, Thulborn KR, Sweeney JA. Pursuit and saccadic eye movement subregions in human frontal eye field: a high-resolution fMRI investigation. *Cerebral cortex (New York, N.Y.: 1991)*. 2002 Feb; 12 (2):107-15. PMID: 11739259.
5. **ROSANO C**, Sweeney JA, Melchitzky DS, Lewis DA. The human precentral sulcus: chemoarchitecture of a region corresponding to the frontal eye fields. *Brain research*. 2003 May 16; 972 (1):16-30. PMID: 12711074.
6. **ROSANO C**, Becker J, Lopez O, Lopez-Garcia P, Carter CS, Newman A, Kuller L, Aizenstein H. Morphometric analysis of gray matter volume in demented older adults: exploratory analysis of the cardiovascular health study brain MRI database. *Neuroepidemiology*. 2005; 24 (4):221-9. PMID: 15832060.
7. **ROSANO C**, Simonsick EM, Harris TB, Kritchevsky SB, Brach J, Visser M, Yaffe K, Newman AB. Association between physical and cognitive function in healthy elderly: the health, aging and body composition study. *Neuroepidemiology*. 2005; 24:8-14. PMID: 15459503.
8. **ROSANO C**, Kuller LH, Chung H, Arnold AM, Longstreth WT Jr, Newman AB. Subclinical brain magnetic resonance imaging abnormalities predict physical functional decline in high-functioning older adults. *Journal of the American Geriatrics Society*. 2005 Apr; 53 (4):649-54. PMID: 15817012.
9. **ROSANO C**, Naydeck B, Kuller LH, Longstreth WT Jr, Newman AB. Coronary artery calcium:

- associations with brain magnetic resonance imaging abnormalities and cognitive status. *Journal of the American Geriatrics Society*. 2005 Apr; 53 (4):609-15. PMID: 15817006.
10. **ROSANO C**, Aizenstein HJ, Cochran JL, Saxton JA, De Kosky ST, Newman AB, Kuller LH, Lopez OL, Carter CS. Event-related functional magnetic resonance imaging investigation of executive control in very old individuals with mild cognitive impairment. *Biological psychiatry*. 2005 Apr 1; 57 (7):761-7. PMID: 15820233.
  11. Koster A, Penninx BW, Bosma H, Kempen GI, Newman AB, Rubin SM, Satterfield S, Atkinson HH, Ayonayon HN, **ROSANO C**, Yaffe K, Harris TB, Rooks RN, Van Eijk JT, Kritchevsky SB. Socioeconomic differences in cognitive decline and the role of biomedical factors. *Annals of epidemiology*. 2005 Sep; 15 (8):564-71. PMID: 15922627.
  12. **ROSANO C**, Aizenstein H, Cochran J, Saxton J, De Kosky S, Newman AB, Kuller LH, Lopez OL, Carter CS. Functional neuroimaging indicators of successful executive control in the oldest old. *NeuroImage*. 2005 Dec; 28 (4):881-9. PMID: 16226041.
  13. **ROSANO C**, Brach J, Longstreth Jr WT, Newman AB. Quantitative measures of gait characteristics indicate prevalence of underlying subclinical structural brain abnormalities in high-functioning older adults. *Neuroepidemiology*. 2006; 26 (1):52-60. PMID: 16254454.
  14. Sudore RL, Mehta KM, Simonsick EM, Harris TB, Newman AB, Satterfield S, **ROSANO C**, Rooks RN, Rubin SM, Ayonayon HN, Yaffe K. Limited literacy in older people and disparities in health and healthcare access. *Journal of the American Geriatrics Society*. 2006 May; 54 (5):770-6. PMID: 16696742.
  15. Pope SK, Kritchevsky SB, Ambrosone C, Yaffe K, Tylavsky F, Simonsick EM, **ROSANO C**, Stewart S, Harris T. Myeloperoxidase polymorphism and cognitive decline in older adults in the Health, Aging, and Body Composition Study. *American journal of epidemiology*. 2006 Jun 15; 163 (12):1084-90. PMID: 16641309.
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  17. Faulkner KA, Redfern MS, **ROSANO C**, Landsittel DP, Studenski SA, Cauley JA, Zmuda JM, Simonsick EM, Kritchevsky SB, Newman AB, Health ABC Study. Reciprocal influence of concurrent walking and cognitive testing on performance in older adults. *Gait & posture*. 2006 Oct; 24 (2):182-9. PMID: 16168655.
  18. Wu M, **ROSANO C**, Butters M, Whyte E, Nable M, Crooks R, Meltzer CC, Reynolds CF 3rd, Aizenstein HJ. A fully automated method for quantifying and localizing white matter hyperintensities on MR images. *Psychiatry research*. 2006 Dec 1; 148:133-42. PMID: 17097277.
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  21. Wu M, **ROSANO C**, Lopez-Garcia P, Carter CS, Aizenstein HJ. Optimum template selection

- for atlas-based segmentation. *NeuroImage*. 2007 Feb 15; 34 (4):1612-8. PMID: 17188896.
22. Brenes GA, Kritchevsky SB, Mehta KM, Yaffe K, Simonsick EM, Ayonayon HN, **ROSANO C**, Rubin SM, Satterfield S, Penninx BW. Scared to death: results from the Health, Aging, and Body Composition study. *The American journal of geriatric psychiatry*. 2007 Mar; 15 (3):262-5. PMID: 17322138. PMCID: PMC2879643.
  23. Faulkner KA, Redfern MS, Cauley JA, Landsittel DP, Studenski SA, **ROSANO C**, Simonsick EM, Harris TB, Shorr RI, Ayonayon HN, Newman AB, Health, Aging, and Body Composition Study. Multitasking: association between poorer performance and a history of recurrent falls. *Journal of the American Geriatrics Society*. 2007 Apr; 55 (4):570-6. PMID: 17397436.
  24. **ROSANO C**, Aizenstein HJ, Wu M, Newman AB, Becker JT, Lopez OL, Kuller LH. Focal atrophy and cerebrovascular disease increase dementia risk among cognitively normal older adults. *Journal of neuroimaging : official journal of the American Society of Neuroimaging*. 2007 Apr; 17 (2):148-55. PMID: 17441836
  25. Atkinson HH, **ROSANO C**, Simonsick EM, Williamson JD, Davis C, Ambrosius WT, Rapp SR, Cesari M, Newman AB, Harris TB, Rubin SM, Yaffe K, Satterfield S, Kritchevsky SB, Health ABC study. Cognitive function, gait speed decline, and comorbidities: the health, aging and body composition study. *The journals of gerontology. Series A, Biological sciences and medical sciences*. 2007 Aug; 62 (8):844-50. PMID: 17702875
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- incident disability in well-functioning older adults. *Journal of the American Geriatrics Society*. 2008 Sep; 56 (9):1618-25. PMID: 18691275.
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- Executive function, memory, and gait speed decline in well-functioning older adults. *The journals of gerontology. Series A, Biological sciences and medical sciences.* 2010 Oct; 65 (10):1093-100. PMID: 20581339.
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  48. Fiocco AJ, Kanaya AM, Lindquist KM, Harris TB, Satterfield S, Simonsick EM, Kuller L, **ROSANO C**, Yaffe K, Health ABC Study. Plasma F2-isoprostane level and cognitive function over eight years in non-demented older adults: Findings from the Health ABC Study. Prostaglandins, leukotrienes, and essential fatty acids. *Alzheimer's & Dementia* 2011 Jan; 84:57-61. PMID: PMC3015004. PMID: 20870401.
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11. Shaaban CE, Jorgensen DR, Gianaros PJ, Mettenburg J, **ROSANO C**. Neuroimaging of cerebral small vessel disease. Chapter for the volume “Brain Imaging” for “Progress in Molecular Biology and Translational Science”. ED A.Cohen and J. Becker. 2019 IN PRESS

#### **Symposia, Conference Proceedings Not peer-reviewed:**

##### **Published Abstracts (Oral Presentations)**

1. **ROSANO C**, Naydeck B, Kuller L, Newman A. Is coronary artery calcification associated with Magnetic Resonance Imaging (MRI) brain abnormalities? Presented at the American Geriatrics Society 2003 Annual Scientific Meeting (A22), May 2003. *J Am Geriatr Soc*. 2003;51(4):S34.
2. **ROSANO C**, Brach JS, Newman AB. Association between parameters of gait and brain Magnetic Resonance Imaging (MRI) abnormalities in not demented participants of the cardiovascular health study. American Geriatrics Society conference, May 11-15, 2005, Orlando, FL
3. Koster A, Penninx BWJH, Bosma H, Kempen GIJM, Newman AB, Rubin SM, Satterfield S, Atkinson HH, Ayonayon HN, **ROSANO C**, Yaffe K, Harris TB, Rooks RN, van Eijk JTM, Kritchevsky SB. Paper: The Role of Biomedical Factors in Explaining Socio-Economic Differences in Cognitive Decline. Presented at the Gerontological Society of America 58<sup>th</sup> Annual Scientific Meeting, Orlando, FL, November, 2005. *The Gerontologist*. 2005;45(S1):202.
4. **ROSANO C**, Brach J, Studenski S, Wu M, Aizenstein H, Newman AB. Brain anatomical correlates of gait variability in high functioning older adults: a preliminary study. Presented at the World Federation of Neuroepidemiology, Miami, FL. *Neuroepidemiology* 2005;24:171-178.
5. **ROSANO C**, Co-chair, Newman AB, Discussant. Symposium: Declines in the Central and Peripheral Nervous Systems Contribute to Mobility Impairment in Older Adults Residing in the Community. Paper: **ROSANO C**, Sigurdsson S, Siggeirsdottir K, Newman A, Jonsson P, Kjartansson O, Eiriksdottir G, Harris T, van Buchem M, Gudnadon V, Launer L. Quantitative Assessment of Brain Cell Degeneration and Slower Gait in Community-dwelling Older Adults Participating in the Age, Gene/Environment Susceptibility (AGES Reykjavik) Study. Presented at the Gerontological Society of America 60<sup>th</sup> Annual Scientific Meeting, San Francisco, CA, November 2007. *The Gerontologist*. 2007;47(S1):S359.

6. **ROSANO C**, Verghese J, Guralnik J. The Central Control of Mobility in Older Adults. Program No. 275-1. *2008 Abstract viewer*. National Harbor, MD: The Gerontological Society of America.
7. **ROSANO, C**. Brain Networks and Gait characteristics in Older Adults. Program No. 275-4. *2008 Abstract Viewer*. National Harbor, MD: The Gerontological Society of America.
8. **ROSANO C**, Strotmeyer E. Cardiovascular Risk Factors, Decline in the Central and Peripheral Nervous Systems and Mobility Impairment in Older Adults. Program No. 275-6. *2008 Abstract Viewer*. National Harbor, MD: The Gerontological Society of America.
9. **ROSANO C**, Longstreth WT., Boudreau RM, Taylor CA, Kuller LH, Newman AB. High Blood Pressure, White Matter Disease and Gait Slowing in Well-functioning Older Adults: Results from the Cardiovascular Health Study, Program No. 275-7. *2008 Abstract Viewer*. National Harbor, MD: The Gerontological Society of America.
10. **ROSANO C**, Ryan CM, Strotmeyer ES, Orchard TO. Reduction in Size of Prefrontal Cortex is Associated with Psychomotor Slowing in Adults with Type 1 Diabetes. Presented at the American Diabetes Association 69<sup>th</sup> Annual Meeting, New Orleans, LA, June 2009. Abstract Number 274-OR. *Diabetes* 58(Supplement 1);A73.
11. **ROSANO C**, Co-Chair, Verghese J, Co-Chair. Symposium: The Central Control of Mobility in Older Adults. Symposium Number SB8-197. Paper: **Rosano, C**. Brain Network Analysis of Gait Characteristics in Older Adults. Symposium Number SB8-197-4. Presented at the 19<sup>th</sup> IAGG World Congress of Gerontology and Geriatrics, Paris, France, July 2009. *The Journal of Nutrition, Health and Aging*. 2009;13(S1):S109.
12. **ROSANO C**, Venkatraman V, Guralnik J, Newman A, Glynn NW, Taylor C, Studenski S, Launer L, Pahor M, Williamson J, Aizenstein H. Functional Brain MRI Signal of Older Adults with High Performance and Low Brain Structural Integrity. Oral Presentation OB8-169-6. Presented at the 19<sup>th</sup> IAGG World Congress of Gerontology and Geriatrics, Paris, France, July 2009. *The Journal of Nutrition, Health and Aging*. 2009;13(S1):S194.
13. **ROSANO C**, Chair, Newman AB, Discussant. Symposium: Aging with Grace in the Health Aging and Body Composition Study. Paper: **ROSANO C**, Aizenstein H, Boudreau R, Venkatraman V, Newman AB, Brain Integrity and Graceful Mobility Control in Community Dwelling Adults. Presented at the Gerontological Society of America 62<sup>nd</sup> Annual Scientific Meeting , Atlanta, GA November 2009. *The Gerontologist*. 2009;49(S2):47.
14. **ROSANO C**, Chair, Newman AB, Discussant. Symposium: Aging with Grace in the Health Aging and Body Composition Study. Paper: Strotmeyer ES, Newman AB, Harris T, Satterfield S, Atkinson H, Yaffe K, **ROSANO C**. Greater Cumulative Function in Brain Peripheral Nerves and Muscles is Associated with Faster Gait: The Health Aging and Body Composition Study. Presented at the Gerontological Society of America 62<sup>nd</sup> Annual Scientific Meeting, Atlanta, GA November 2009. *The Gerontologist*. 2009;49(S2):47.
15. **ROSANO C**, Chair, Guralnik J, Discussant. Symposium: Creative Approaches to the Study of Resilient Brain Aging. Paper: **ROSANO C**, Kuller L, Newman AB. Resilient Brain Aging: Is Brain Reserve the Answer. Presented at the Gerontological Society of America 62<sup>nd</sup> Annual Scientific Meeting, Atlanta, GA November 2009. *The Gerontologist*. 2009;49(S2):185.

16. Watson N, Sutton-Tyrrell K, **ROSANO C**, Boudreau R, Simonsick E, Yaffe K, Satterfield S, Newman AB. Arterial Stiffness and Domain-Specific Cognitive Decline in Well-functioning Older Adults. Presented at the Gerontological Society of America 62<sup>nd</sup> Annual Scientific Meeting, Atlanta, GA November 2009. *The Gerontologist*. 2009;49(S2):126.
17. Peiffer AM, **ROSANO C**, Laurienti PJ. Does the default mode network influence executive functioning? *NeuroImage*, 2009: 47(S1);S109.
18. Venkatraman VK, Viccaro L, **ROSANO C**, Aizenstein HJ & Studenski SA. Increased fronto-parietal activation and faster reaction time during functional MRI digit symbol substitution task post- Dance Dance Revolution intervention. *NeuroImage*, Volume 47, Supplement 1, July 2009, Page S87, Poster Presented at Organization of Human Brain Mapping Annual Meeting, San Francisco, CA.
19. Aizenstein HJ, Venkatraman VK, Orchard T, Newman AB, Gianaros PJ, Strotmeyer ES, Ryan C, **ROSANO C**. Neuroimaging Markers of Accelerated Brain Aging in Middle Aged Patients with Type-1 Diabetes (T1D). Presented at the American Academy of Neurology 2010 Annual Meeting, Toronto, ON April 2010.
20. **ROSANO C**, Chair, Lipsitz L, Discussant. Symposium: Biomarkers of Preserved Neurological Function. Paper: **ROSANO C**, Kuller LH, Newman AB. Resilience to Brain Aging: A Second Look. Presented at the Gerontological Society of America 63<sup>rd</sup> Annual Scientific Meeting, New Orleans, LA, November 2010. *The Gerontologist*. 2010;50(S1):128-129.
21. **ROSANO C**, Aizenstein HJ, Venkatraman V, Taylor CA, Yaffe K, Harris T, Kritchevsky SB, Newman AB. Covert Brain Characteristics of Parkinsonian Signs: A Diffusion Tensor Imaging Study of the Health Aging and Body Composition (Health ABC) Cohort. Presented at the Gerontological Society of America 63<sup>rd</sup> Annual Scientific Meeting, New Orleans, LA, November 2010. *The Gerontologist*. 2010;50(S1):436.
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23. Watson NL, **ROSANO C**, Hardy SE, Boudreau R, Simonsick EM, Satterfield A, Ayonayon HN, Newman AB. Rates of Decline in cognitive and Physical Performance Predict Mortality in Older Adults. Presented at the Gerontological Society of America 63<sup>rd</sup> Annual Scientific Meeting, New Orleans, LA, November 2010. *The Gerontologist*. 2010;50(S1):254.
24. Ward RE, Boudreau R, **ROSANO C**, Newman MA, Goodpaster B, Harris T, Newman AB, Strotmeyer ES. Leg power and functional mobility in the oldest old: The Health, Aging and Body Composition Study. Presented at the Gerontological Society of America 63<sup>rd</sup> Annual Scientific Meeting, New Orleans, LA, November 2010. *The Gerontologist*. 2010;50(S1):41.
25. Metti AL, Cauley JA, Ayonayon HN, **ROSANO C**, Williamson J. The Demographic and Medical Correlates of Plasma A $\beta$ 42 and A $\beta$ 42/A $\beta$ 40. Gerontological Society of America 64<sup>th</sup> Annual Scientific Meeting, New Orleans, LA, November 2011. *The Gerontologist*. 2010;51(S2):163.
26. Manini T, Strotmeyer ES, Newman AB, Aizenstein HJ, Satterfield S, Harris T, **ROSANO C**. Brain Aging and Dynapenia. Gerontological Society of America 64<sup>th</sup> Annual Scientific Meeting, New Orleans, LA, November 2011. *The Gerontologist*. 2010;51(S2):785.

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28. Tian Q, Simonsick EM, Glynn NW, Aizenstein HJ, Kritchevsky SB, Yaffe K, Harris TB, Newman AB, **ROSANO C**. Free-living Physical Activity and Brain Structures in Older Adults. Oral presentation at 20th Joint World Congress of International Society for Posture and Gait Research and Gait & Mental Function, Trondheim, Norway. 2012.
29. Tian Q, Erickson KI, Simonsick EM, Aizenstein HJ, Glynn NW, Kritchevsky SB, Yaffe K, Harris TB, Newman AB, **ROSANO C**. Association between Endurance Walk Capacity and Integrity of Brain Regions important for Processing Speed and Memory in Very Old Adults. Oral presentation at 20th Joint World Congress of International Society for Posture and Gait Research and Gait & Mental Function, Trondheim, Norway. 2012.
30. **ROSANO C**, Newman AB, Guralnik JM, Kuller LH, Aizenstein H. Brain Resilience and Risk of Negative Health Outcomes. The Gerontological Society of America's 65th Annual Scientific Meeting. San Diego, CA. November 2012.
31. Perera S, Patel K, **ROSANO C**, Newman AB, Cauley JA, Guralnik JM, Ferrucci L, Studenski S. Gait speed and disability in elderly: CHS, Health ABC, HEPESE, InChianti, MROS, PEP and SOF Studies. The Gerontological Society of America's 65th Annual Scientific Meeting. San Diego, CA. November 2012.
32. **ROSANO, C**. Evidence on Changes in the Central Nervous System Control of Movement Across the Lifespan and in Aging. The Gerontological Society of America's 65th Annual Scientific Meeting. San Diego, CA. November 2012.
33. Bettcher B, Yaffe K, Boudreau R, Neuhaus J, Aizenstein H, Ding J, Kritchevsky S, Launer L, Liu Y, Satterfield S, **ROSANO C**. Declines in inflammation predict greater white matter integrity in older adults. Alzheimer's Association International Conference 2014. Copenhagen, Denmark. July 2014.
34. Nunley K, Saxton J, Orchard TJ, Jennings R, Aizenstein H, Ryan C, Zgibor J, Costacou T, Boudreau R, Miller RG, **ROSANO C**. Clinically Significant Cognitive Dysfunction in Middle-Aged Adults with Childhood-Onset Type 1 Diabetes: Prevalence and Contributing Factors. American Diabetes Association 74<sup>th</sup> Scientific Sessions. June 2014.
35. Nunley K, Orchard TJ, Aizenstein H, Ryan C, Zgibor JC, Costacou T, Boudreau RM, Miller RG, **ROSANO C**. High Prevalence of White Matter Hyperintensities in Middle-aged Adults with Type 1 Diabetes is not Explained by Traditional Vascular Risk Factors. American Diabetes Association 74th Scientific Sessions. June 2014.
36. **ROSANO C**, Sarles E, Studenski S, Pahor, Guralnik, Glynn N, Newman AB, Aizenstein H. Venular density by & Tesla MRI correlates with cognitive function in mobility limited older adults. Gerontological Society of America Washington, DC, November 2014. Presented at: November 2014 67th Annual Scientific Meeting, Washington, DC, USA "Making Connections: From Cells to Societies". Published in: *The Gerontologist* (2014) 54 (Suppl 2): NP

37. **ROSANO C**, Aizenstein H, Yaffe K, Newman A, Studenski S, Rosso A, Verghese J. Maintenance of physical and cognitive function late in life: a shared neuroimaging signature. American Academy of Neurology conference, April 18-25, 2016, Vancouver, BC
38. **ROSANO C**, Aizenstein HJ. Healthy Brain Project: an overview of factors protecting brain integrity of a biracial cohort of octogenarians. 2015 Gerontological Society of America Conference, November 18-22, 2015, Orlando, FL.
39. Cruz-Almeida, Rosso AL, Newman AB, **ROSANO C**. Pain is associated with rapid gray matter atrophy among community-dwelling older adults. 2015 Gerontological Society of America Conference, November 18-22, 2015, Orlando, FL.
40. O'Hare CJ, Kenny RA, **ROSANO C**, Boudreau R, Newman AB, Launer LJ, Yaffe K, Aizenstein HJ. Selected vascular risk factors and future cerebral blood flow in older adults. Gerontological Society of America Conference, November 18-22, 2015, Orlando, FL.
41. Flatt JD, **ROSANO C**, Rosario BL, Rosso AL, Fowler NR, Aizenstein HJ, Newman AB, Simonsick EM. Association of social and recreational activities with brain volumes in late life. Gerontological Society of America Conference, November 18-22, 2015, Orlando, FL.
42. Best JR, **ROSANO C**, Boudreau R, Simonsick EM, Studenski S, Yaffe K, Newman AB, Liu-Ambrose T. The impact of maintaining walking in late life on future change in brain micro- and macro-structure. Gerontological Society of America Conference, November 18-22, 2015, Orlando, FL.
43. Rosso AL, **ROSANO C**. Healthy Brain Project: Neuroepidemiology study of 15-year exposure to risk factors for brain aging. Gerontological Society of America Conference, November 18-22, 2015, Orlando, FL.
44. **ROSANO C**, Carlson M, Studenski S. Aging, Central Nervous System, and Mobility – Follow-up from a 3 year NIA\_funded GSA Pre-Conference. Gerontological Society of America Conference, November 18-22, 2015, Orlando, FL.
45. Cruz-Almeida Y, Rosso AL, Harris TB, Marcum Z, Yaffe K, Newman AB, **ROSANO C**. Associations of musculoskeletal pain with mobility in older adults: potential cerebral mechanisms. Gerontological Society of America Conference, November 18-22, 2015, Orlando, FL.
46. Rosso AL, Tudorascu DL, Aizenstein HJ, Newman AB, Harris T, Satterfield S, Yaffe K, **ROSANO C**. Age-related changes in gray matter volume and changes in gait variability. Gerontological Society of America Conference, November 18-22, 2015, Orlando, FL.
47. **ROSANO C**. Diabetes and the brain: from bench to bedside. Midlife type 1 diabetes and neuroimaging biomarkers of brain aging. VASCOG 2016. Amsterdam, The Netherlands. October 13-16, 2016

## 6. Published Abstracts (Posters)

48. **ROSANO C**, Longstreth WT, Newman AB, Arnold AM, Kuller LH, Chung H. Subclinical brain MRI abnormalities predict physical functional decline in older adults. American Geriatric Society conference, January 27-30, 2004, Baltimore, MD

49. **ROSANO C**, Wu M, Lopez OL, Newman AB, Kuller LH, Aizenstein H. Hypertension and small hippocampal volume predict prodromal phase of dementia in black but not in white: Is prevention targeting the right population? Alzheimer's Association International Conference on Prevention of Dementia: Early Diagnosis and Intervention, July 18-21, 2005, Washington, DC
50. **ROSANO C**, Aizenstein HJ, Wu M, Newman AB, Becker JT, Lopez OL, Kuller LH. Smaller brain volumes and subclinical cerebrovascular disease increase risk of conversion to Alzheimer disease. American Academy of Neurology conference, April 1-8, 2006, San Diego, CA
51. **ROSANO C**, Aizenstein H, Studenski S, Newman AB. Focal Gray Matter Atrophy of Selected Brain Regions Discriminates Community-Dwelling Older Adults with Slower gait and Balance Difficulty. Presented at the Gerontological Society of America 59<sup>th</sup> Annual Scientific Meeting, Dallas, TX, November, 2006. *The Gerontologist*. 2006;46(S1):502.
52. Novelli EM, Ong'echa JM, Davenport G, Keller CC, Were T, Ouma C, Otieno R, **ROSANO C**, Kaplan S, Perkins DJ. Hematological characteristics of infants and young children presenting with different levels of malarial anemia at a rural district hospital in Western Kenya. American Society of Hematology conference, December 9-12, 2006, Orlando, FL
53. Inzitari M, Newman AB, Yaffe K, Boudreau R, de Rekeneire N, Shorr R, Harris TB, **ROSANO C**. Gait Speed Predicts Decline in Attention and Psychomotor Speed in Older Adults: The Health, Aging and Body Composition Study. Presented at the American Geriatrics Society 2007 Annual Meeting, Seattle, WA, May 2007. *J Am Geriatr Soc*. 2007;55(S1):S82.
54. **ROSANO C**, Newman AB, Katz R, Kuller L. Digit Symbol Substitution Test Score, Gait Speed and Long-term Mortality Risk in Community-dwelling Older Adults: Results from the Cardiovascular Health Study. Presented at the Gerontological Society of America 60<sup>th</sup> Annual Scientific Meeting, San Francisco, CA, 2007. *The Gerontologist*. 2007; 47(S1):S62.
55. **ROSANO C**. Lower Digit Symbol Substitution Test Score and Slower Gait are Prognostic Risk Factors for Mortality and Disability Independent of Brain Changes. Presented at the Celebrating Research on Aging: Building Collaborations for the Future, University of Pittsburgh, Pittsburgh, PA. December, 2007.
56. **ROSANO C**. Brain Anatomical and Functional Correlates of Poorer Gait Speed in Community-Dwelling Older Adults. Presented at the Celebrating Research on Aging: Building Collaborations for the Future, University of Pittsburgh, Pittsburgh, PA. December 2007.
57. **ROSANO C**. Gait characteristics indicate underlying focal atrophy of motor regions in older adults. Presented at the Celebrating Research on Aging: Building Collaborations for the Future, University of Pittsburgh, 2007.
58. Sparto PJ, Aizenstein HJ, VanSwearingen JM, **ROSANO C**, Perera S, Studenski SA, Jennings JR, Nebes RD, Furman JM, Redfern MS. White matter hyperintensities in localized motor tracts are associated with delays in step initiation during a choice reaction step task. 2<sup>nd</sup> International Congress on Gait & Mental Function, Amsterdam, The Netherlands. 2008.
59. Dickerson E, Venkatraman V, Guralnik J, Pahor M, Aizenstein H, **ROSANO C**. White matter hyperintensities and eye-hand coordination in the oldest old: Exploratory study using an automated white matter hyperintensity labeling pathway. S102-S103. 2009 Annual Scientific Meeting of the American Geriatric Society, Chicago, IL

60. **ROSANO C**, Yang M, Aizenstein H, Newman AB, Brach J, Boudreau R. Brain Networks Identified by Partial Least Square Modeling Are Associated with Gait Instability in the Oldest Old. 61<sup>st</sup> Annual Meeting of the American Academy of Neurology, Seattle, WA. 2009.
61. Venkatraman VK, Viccaro L, **ROSANO C**, Aizenstein HJ, Studenski SA. Increased fronto-parietal activation and faster reaction time during functional MRI digit symbol substitution task post- Dance Revolution intervention. *NeuroImage*, Volume 47, Supplement 1, July 2009, Page S87, Poster Presented at Organization of Human Brain Mapping Annual Meeting, San Francisco, CA.
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63. Peiffer AM, **ROSANO C**, Laurienti PJ. Does the default mode network influence executive functioning? *NeuroImage*, 2009; 47(S1);S109.
64. Weston AL, Costa P, Simonsick E, Ayonayon H, Harris T, **ROSANO C**, Satterfield S, Yaffe K. The Association of Personality Domains and Cognitive Function: Findings from the Health Aging and Body Composition Study. Presented at the Gerontological Society of America 62<sup>nd</sup> Annual Scientific Meeting, Atlanta, GA November 2009. *The Gerontologist*. 2009;49(S2):92.
65. **ROSANO C**, Ryan CM, Strotmeyer ES, Orchard TO. Reduction in Size of Prefrontal Cortex is Associated with Psychomotor Slowing in Adults with Type 1 Diabetes. *Diabetes* 58(Supplement 1);A73. 2009
66. **ROSANO C**, Chair, Newman AB, Discussant. Symposium: Aging with Grace in the Health Aging and Body Composition Study. Paper: Strotmeyer ES, Newman AB, Harris T, Satterfield S, Atkinson H, Yaffe K, **ROSANO C**. Greater Cumulative Function in Brain Peripheral Nerves and Muscles is Associated with Faster Gait: The Health Aging and Body Composition Study. November 18-22, 2009, Atlanta, GA. *The Gerontologist*. 2009;49(S2):47.
67. **ROSANO C**, Kuller L, Newman AB. Resilient brain aging: Is brain reserve the answer? Gerontological Society of America conference, November 18-22, 2009, Atlanta, GA.
68. Van Swearingen J, **ROSANO C**, Aizenstein H, Perera S, Studenski S. 120 Brain imaging and clinical manifestations of susyndromal gait and cognitive problems in older adults. 3<sup>rd</sup> International Congress on Gait & Mental Function, February 26-28, 2010, Washington, DC
69. Van Swearingen J, Perera S, **ROSANO C**, Aizenstein H, Brach J, Studenski S. Brain burden influence on outcomes of interventions to improve gait in older adults with mobility disability. A randomized clinical trial. 3<sup>rd</sup> International Congress on Gait & Mental Function, February 26-28, 2010, Washington, DC
70. **ROSANO C**, Aizenstein H, J. Fiocco A, Newman AB, Du Y, Venkatraman VK, Harris T, Ding J, Satterfield S, Yaffe K. Macro and Micro-Structural Brain Imaging Characteristics of Adults Who Have Maintained Cognitive Function Very Late in Life. Presented at the American Academy of Neurology 2010 Annual Meeting, Toronto, ON April 2010.
71. **ROSANO C**, Kuller LH, Newman AB. Resilience to brain aging: A second look. *The Gerontologist*, October 2010.



72. Manini T, Strotmeyer ES, Newman AB, Aizenstein HJ, Satterfield S, Harris T, **ROSANO C**. Brain Aging and Dynapenia. November 2011. *The Gerontologist*. 2010;51(S2):785.
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75. Maries A, Mandayam S, **ROSANO C**, Marai GE. Visual analysis of brain/gait correlations VisWeek 2011. Providence, RI October 2011.
76. Leishear K, **ROSANO C**, Boudreau R, Newman AB, Studenski S, Ferrucci L, Harris TB, Strotmeyer ES. The Longitudinal Relationship of Vitamin B12 and Information Processing Speed. Challenges in Analysis of Data from Longitudinal Studies of Aging. The Gerontological Society of America's 64<sup>th</sup> Annual Scientific Meeting. Boston, MA, November 18-22, 2011.
77. **ROSANO C**, Watson N, Cheng Y, Newman AB, Aizenstein HJ, Du Y, Venkatraman V, Yaffe K, Satterfield S, Harris TB, Barinas-Mitchell E, Sutton-Tyrrell K. Aortic pulse wave velocity predicts focal hyperintensities in tracts important for processing speed and memory: findings from the Health, Aging and Body Composition Study. Late Breaking/Ongoing Clinical Trial Abstract. International Stroke Conference. New Orleans, LA, February 2012.
78. Leishear K, Boudreau R, Studenski S, Ferrucci L, **ROSANO C**, de Rekeneire N, Houston D, Kritchevsky S, Schwartz A, Vinik A, Hogervorst E, Yaffe K, Harris T, Newman A, Strotmeyer E. Vitamin B12 and neurological function: Is there a threshold level? American Academy of Neurology conference, April 21-28, 2012, New Orleans, LA
79. VanSwearingen JM, Perera S, **ROSANO C**, Aizenstein HJ, Brach JS, Studenski SA. Brain grey matter volume of the Putamen and Clinical Correlates of Motor Skill in Walking. American Geriatrics Society conference, May 2-5, 2012, Seattle, WA
80. **ROSANO C**, Ryan CM, Saxton J, Miller R, Hughes TM, Strotmeyer ES, Aizenstein HJ, Orchard TJ. Slower psychomotor speed predicts faster and focal gray matter volume loss within the left prefrontal cortex over a three-year follow-up time. American Diabetes Association 72<sup>nd</sup> Scientific Sessions. Philadelphia, PA. 2012.
81. Hughes TM, Aizenstein HJ, Gianaros PJ, Ryan CM, Miller R, Costacou T, Strotmeyer ES, Orchard TJ, **ROSANO C**. Specificity of Gray Matter Aging in Middle-Aged Patients with Type 1 Diabetes. American Diabetes Association 72<sup>nd</sup> Scientific Sessions. Philadelphia, PA. 2012. Abstract Number 435-P.

82. **ROSANO C**, Bennett DA, Newman AB, Venkatraman V, Yaffe K, Harris T, Kritchevsky S, Aizenstein HJ. Patterns of focal gray matter atrophy are associated with bradykinesia and gait disturbances in older adults. Joint World Congress of ISPGR and Gait & Mental Function. Trondheim, Norway. June, 2012.
83. **ROSANO C**, Olson Hunt MJ, Brach J, Newman AB, Studenski S, Verghese J, Weissfeld L. Brain anatomical correlates of gait variability in high functioning older adults: repeatability across two independent studies. (CNS) The Gerontological Society of America's 65th Annual Scientific Meeting. San Diego, CA. November 2012.
84. Nadkarni NK, Nunley KA, Aizenstein H, Harris TB, yaffe K, Brach J, Newman AB, **ROSANO C**. Regional cerebellar grey matter volume, processing speed and gait measures. The Gerontological Society of America's 65th Annual Scientific Meeting. San Diego, CA. November 2012.
85. Tian Q, Stein PK, Kuller LH, **ROSANO C**. Heart and Brain: Longitudinal associations between markers of autonomic function and brain small vessel disease in the cardiovascular health study. The Gerontological Society of America's 65th Annual Scientific Meeting. San Diego, CA. November 2012.
86. **ROSANO C**, Abebe KZ, Aizenstein H, Harris TB, Yaffe K, Satterfield S, Newman AB. Historical Blood Pressure Measurements in Older Adults Indicate Underlying Small Vessel Disease in the Left Hemisphere. (CNS). The Gerontological Society of America's 65th Annual Scientific Meeting. San Diego, CA. November 2012.
87. Aizenstein HJ, Tudorascu DL, Harris T, Kritchevsky SB, Newman AB, Yaffe K, **ROSANO C**. Multi-Modal MRI Markers of CNS Integrity Are Associated With Depressive Symptoms in the Elderly. The Gerontological Society of America's 65th Annual Scientific Meeting. San Diego, CA. November 2012.
88. Nadkarni N, Perera S, Hanlon J, Studenski S, Elam M, Harris T, Kritchevsky S, Yaffe K, Newman A, **ROSANO C**. Statin exposure and structural integrity measures in the brain of older adults in the Health ABC Study.
89. Novelli E, Aizehstein JH, Ritter AC, Barge S, Stevens-Young D, Gladwin MT, Huang J, Ibrahim T, Butters MA, Jennings RJ, Erickson KI, **ROSANO C**. 7 Tesla Brain MRI Pilot/Feasibility study of cognitive impairment in Adult Patients with Hbss Disease. 7<sup>th</sup> Annual Sickle Cell Disease Research and Educational Symposium and 36<sup>th</sup> National Sickle Cell Disease Scientific Meeting, April 14-17, 2013, Miami, FL
90. **ROSANO C**, Aizenstein HJ, Orchard TJ, Saxton J, Ryan C. Psychomotor slowing in Middle-Age Adults with Type 1 Diabetes is associated with focal gray matter atrophy and poorer metabolic control. American Diabetes Association 74th Scientific Sessions. June 2014.
91. Hwang, M, Nunley KA, Aizenstein HJ, Orchard TJ, Ryan C, **ROSANO C**. A Multimodal Analysis of Brain Functional and Structural Imaging in Middle-Aged Adults with Type 1 Diabetes. American Diabetes Association 74th Scientific Sessions. June 2014.

92. Nunley K, Saxton JA, Orchard TJ, Jennings R, Aizenstein H, Ryan C, Zgibor JZ, Costacou T, Boudreau RM, Miller RG, **ROSANO C**. Clinically significant cognitive dysfunction in middle-aged adults with childhood-onset type 1 diabetes: Prevalence and contributing factors. *Diabetes*, June 2014 63; Supplement 1 A89. Alzheimer's Association International Conference, July 13-18, 2013, Boston, MA
93. Nunley K, Orchard TJ, Aizenstein H, Ryan C, Zgibor JZ, Costacou T, Boudreau RM, Miller RG, **ROSANO C**. High prevalence of white matter hyperintensities in middle-aged adults with type 1 diabetes is not explained by traditional vascular risk factors. *Diabetes* June 2014 63: Supplement 1 A88.
94. Nunley K, Ryan C, Saxton J, Orchard T, Costacou T, Aizenstein H, Ryan J, Miller R, **ROSANO C**. Early Development of Proliferative Retinopathy Increases Risk of Cognitive Dysfunction in Middle-Aged Adults with Type 1 Diabetes (I1-5D). American Academy of Neurology conference, April 18-25, 2015, Washington, DC
95. Nadkarni N, Boudreau R, Lopez O, Aizenstein H, Kritchevsky S, Yaffe K, Studenski S, Newman A, **ROSANO C**. The longitudinal relationship between inflammatory burden and gait speed is influenced by white matter microstructural characteristics: Secondary analysis of the Health ABC Study. American Academy of Neurology conference, April 18-22, 2015, Washington, DC
96. **ROSANO C**. Yale Workshop, "Aging, Central Nervous System and Mobility: Intervention Strategies to Prevent and Improve Late Life Gait Decline", International Society for Posture & Gait Research Conference, Seville, Spain, June 28 – July 2, 2015
97. Best JR, **ROSANO C**, Boudreau RM, Ayonayon HN, Satterfield S, Simonsick EM, Studenski S, Yaffe K, Newman AB, Liu-Ambrose T. The impact of maintaining walking in late life I nsubsequent change in brain micro- and macro-structure. 2015 Alzheimer's Association International Conference, July 18-23, 2015, Washington, DC
98. Best JR, Liu-Ambrose T, Boudreau RM, Ayonayon HN, Satterfield S, Simonsick EM, Studenski S, Yaffe K, Newman AB, **ROSANO C**. Longitudinal relations among walking activity, gait speed, and cognitive functioning over a 10-year period. 2015 Alzheimer's Association International Conference, July 18-23, 2015, Washington, DC.
99. Kaup AR, Falvey C, Byers A, Simonsick EM, Satterfield S, Ayonayon HN, **ROSANO C**, Rubin S, Yaffe K. Trajectories of depressive symptoms in older adults and incident dementia. 2015 Alzheimer's Association International Conference, July 18-23, 2015, Washington DC.
100. O'Hare CJ, Kenny RA, Aizenstein, Boudreau R, Newman AB, Launer LJ, Yaffe K, **ROSANO C**. Cognitive status, gray matter atrophy and orthostatic blood pressure response in adults aged 83+. 2015 Gerontological Society of America Conference, November 18-22, 2015, Orlando, FL.
101. O'Hare CJ, Kenny R, **ROSANO C**, Boudreau R, Newman AB, Launer LJ, Yaffe K, Aizenstein HJ. Selected vascular risk factors and future cerebral blood flow in older adults. Gerontological Society of America Conference, November 15-18, 2015, Orlando, FL
102. Rosso A, Huppert T, **ROSANO C**. Neural contributors to complex walking tasks: Novel approaches to community mobility interventions. Gerontological Society of America Conference, November 15-18, 2015, Orlando, FL

103. Shaaban CE, Aizenstein JH, Rosso AL, Launer LJ, Kritchevsky SB., Yaffe K, Newman AB, **ROSANO C.** Long-term relationship of BDNF with brain microstructural integrity of community-dwelling older adults. 2015 Gerontological Society of America Conference, November 18-22, 2015, Orlando, FL.
104. Nunley KA, Orchard TJ, Ryan CM, Miller R, Costacou T, **ROSANO C.** Statin Use and Cognitive Impairment in Middle-Aged Adults with Type-1 Diabetes. Disease Drivers of Aging: 2016 Advances in Geroscience Summit, The New York Academy of Sciences, New York, NY, April 13-14, 2016.
105. Shaaban CE, Aizenstein HJ, Jorgensen DR, MacCloud RL, Meckes NA, Erickson KI, Glynn NW, Mettenburg J, Cohen R, Guralnik J, Newman AB, Ibrahim TS, Laurienti J, Vallejo AN, **ROSANO C.** In vivo imaging of venous side microcirculation in older adults at 7T. New York Academy of Sciences 2016 conference, New York, NY
106. Rosso AL, Studenski SA, Longstreth Jr, WT, Brach JS, Boudreau RM, **ROSANO C.** Contributors to poor mobility in older adults: Integrating white matter hyperintensities and conditions affecting other systems. J Gerontol A Biol Sci Med Sci glw224, 2016 GSA Annual Meeting, New Orleans, LA, November 2017
107. Rosso AL, Metti AL, Boudreau RM, Glynn NW, Rejeski WJ, **ROSANO C.** Dopamine-related genes and sustained physical activity adherence in adults at risk for dementia. Alzheimer's Association International Conference, 2017.
108. Shaaban CE, Rosso AL, Aizenstein HJ, Newman AB, **ROSANO C.** Neuroimaging Signature of Dopamine System COMT Genotype in Older Adults. Alzheimer's Association International Conference, 2017.
109. Rosso AL, Metti AL, Nadkarni NK, Yaffe K, Launer L, **ROSANO C.** Dual-task walking as a predictor for later cognitive impairment. Alzheimer's Association International Conference, 2017
110. **ROSANO C,** Metti A, Klein R, Klein B, Orchard TJ, Miller R, Costacou T, Saxton J, Nunley KA. Long-term changes in retinal vascular measures and cognitive impairment in type 1 diabetes. 2017 ADA 77th Scientific Sessions, San Diego CA, 226-LB.
111. Nunley KA, Karp JF, Costacou T, Aizenstein HJ, Orchard TJ, **ROSANO C.** Depression in adults with type 1 diabetes: The role of cerebral small vessel disease. 2017 ADA 77th Scientific Sessions, San Deigo CA, 227-LB.
112. **ROSANO C.** Gait & Cognitive Impairment Share Common Mechanisms. Brain Structural & Metabolism Imaging Studies. International Association of Gerontology and Geriatrics (IAGG) Annual Congress 2017, San Francisco, CA, July 23-27, 2017
113. **ROSANO C.** Accelerated Cognitive and Physical Function Aging in Middle Aged Patients with Type 1 Diabetes. International Association of Gerontology and Geriatrics (IAGG) Annual Congress 2017, San Francisco, CA, July 23-27, 2017

## 1. Presentations: Non-Print Media

1. [http://www.movementdisorders.org/monthly\\_edition/2012/04/understanding\\_gait\\_in\\_aging-pt2.php](http://www.movementdisorders.org/monthly_edition/2012/04/understanding_gait_in_aging-pt2.php)
2. [http://www.cnn.com/2011/11/09/health/keeping-brain-young-memory/index.html?hpt=he\\_c1](http://www.cnn.com/2011/11/09/health/keeping-brain-young-memory/index.html?hpt=he_c1)

3. [http://www.epidemiology.pitt.edu/News/News\\_Display.asp?link=458](http://www.epidemiology.pitt.edu/News/News_Display.asp?link=458)
4. <http://www.aarp.org/health/fitness/info-04-2011/high-blood-pressure-and-slower-walking-speed.html>
5. <http://public.nhlbi.nih.gov/newsroom/home/GetPressRelease.aspx?id=2766>
6. <http://newoldage.blogs.nytimes.com/2010/05/25/another-reason-to-keep-moving/>
7. <http://www.aging.pitt.edu/newsletter.htm> - Winter 2007
8. <http://seniorjournal.com/NEWS/Alzheimers/2007/7-07-06-AlzheimersRisk.htm>
9. <http://www.pepper.pitt.edu/content.asp?id=587>
10. [http://cathedralofhope.org/news/elpc-in-the-media/2011/110730\\_pitt-magazine\\_CatarinaRosanoBrainResearch.pdf](http://cathedralofhope.org/news/elpc-in-the-media/2011/110730_pitt-magazine_CatarinaRosanoBrainResearch.pdf)
11. [www.physweekly.com](http://www.physweekly.com). - Volume 22, Issue 26
12. <https://www.youtube.com/watch?v=geFZmEgHVek>
13. [http://www.barshop.uthscsa.edu/files/user/Spring-2015BarshopSeminarSeries%20\(3\).pdf](http://www.barshop.uthscsa.edu/files/user/Spring-2015BarshopSeminarSeries%20(3).pdf)
14. <http://health.economictimes.indiatimes.com/news/industry/brain-ages-faster-in-people-with-type-1-diabetes/47181425> - May 7, 2015
15. <http://www.healio.com/endocrinology/diabetes/news/online/%7Be3a43ef6-45af-4dde-9b3e-fbb272abf597%7D/brain-aging-in-type-1-diabetes-may-lead-to-cognitive-complications> - May 7, 2015
16. <http://www.wsj.com/articles/diabetes-may-be-a-risk-factor-for-developing-alzheimers-studies-find-1432583222>
17. <http://www.hngn.com/articles/95190/20150526/diabetes-speeds-up-progression-of-alzheimer-s-disease-by-up-to-40-percent.html> - May 26, 2015
18. <http://www.pagswd.org/wordpress/archives/308>
19. <https://pitt.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=84750da7-da25-41a1-8b9b-5a6545977a3f>
20. <http://triblive.com/mobile/9845564-96/aging-brain-health>, February 4, 2016
21. <http://www.post-gazette.com/news/health/2017/06/28/Right-hippocampus-explains-link-between-slower-walking-cognitive-decline-Pitt-Study/stories/201706280037>
22. <http://triblive.com/news/healthnow/12455223-74/pitt-scientists-pinpoint-source-of-link-between-slower-walking-mental-decline>

## SERVICE

### 1. Service to School and University

Years	Committee
2007-2010	Gender Equity Committee, senate committee
2008	Accepted Students Day, GSPH
2011- present	MD/PhD Admission Program Committee

2011- 2013	Marketing Committee
2012-2014	Strategic Planning Committee
2011-2013	Epidemiology Faculty Search Committee
2011- present	Behavioral and Community Health Faculty Science Search Committee
2014 - present	Geriatric Psychiatry Faculty Search Committee
2014- present	Canadian Consensus in Mobility and Cognition, Canadian Consortium of Neurodegeneration and Aging, Advisory Board Member
2014	Reviewer, Promotion Dossier for Yale University School of Medicine
2014	Reviewer, Promotion Dossier for Harvard Medical School
2014	Reviewer, Promotion Dossier for Emory University School of Medicine
2015	Reviewer, Promotion Dossier for Galveston University School of Medicine
2017	Reviewer, Promotion Dossiers for Kaiser Permanente, LA, CA; U. Michigan, Anne Arbor
2014-current	MDPhD. Epidemiology Program Director. Duties: point of contact for potential MDPhD applicants in epidemiology; screen and provide written evaluation of applications (~12-14/year); schedule interviews with faculty members as appropriate (~20/year); write reports of interviews (~4/year); serve as career advisor for MDPhD students in Epidemiology (currently 3), prepare/update annual IDP; participate to committee meetings and annual retreat.
2017-current.	Screening and selection committee member for MDPhD program. Duties: screen and provide written evaluation of incoming applications in areas related to neuroscience as well as provide 3 <sup>rd</sup> tier feedback (~40/year); Interview candidates (~15-20/year).

## 2. Service to Field of Scholarship

### a. Editorial Boards, Editorships

Date	Position	Organization
2005-present	Editorial board member	Journal of Gerontology: Medical Sciences
2013–2014	Guest co-Editor of Special issue “Aging, CNS and mobility”	Journal of Gerontology: Medical Sciences
2014-present	Editor of Special issue on “Impact of racial differences on brain health among the oldest old” (O. Lopez, co-editor)	Journal, Current Alzheimer Research

2014-2016	Chief Editor (M. Ganguli and MK Ikram, co-editors)	Neuroepidemiology Volume in Handbook of Clinical Neurology,
2017-	Associate Editor	Journal of Gerontology: Medical Sciences

**b. Manuscript and Other Document/Publication Review**

<b>Dates</b>	<b>Journal Title</b>
2005-present	Archives of Physical Medicine and Rehabilitation
2005-present	Neuropsychology
2005-present	Journal of Gerontology: Medical Sciences
2007-present	Journal of the American Geriatric Society
2007-present	Neuroimaging
2007-present	Muscle and Nerves
2008-present	Alzheimer's Disease and Associated Disorders
2009-present	American Journal of Geriatric Psychiatry
2009-present	Neuroscience and Behavioral Reviews
2009-present	Hypertension
2009-present	American Journal of Geriatric Psychiatry
2010-present	Brain
2010-present	American Geriatric Society
2010-present	Advances in Therapy
2010-present	Annals of Neurology
2010-present	Gait and Posture

<b>Dates</b>	<b>Journal Title</b>
2010	American Academy of Neurology
2011	Neurobiology Review
2011- present	Neurology
2011- present	NeuroImage
2012- present	American Journal of Alzheimer's Disease

**c. Study Sections, Review Panels, and Related Advisory Boards**

<b>Date</b>	<b>Position</b>	<b>Organization and Nature of Activity</b>
2005- present	Reviewer	Cardiovascular Health Study Publication and Paper Committee
2005-2011	Reviewer	Health ABC Publications and Papers Committee
2007	Reviewer	Pittsburgh Institute of Neurodegenerative Disease seed money proposal
2008- present	Reviewer	Pepper Junior Scholar's working group
2008	Reviewer	Pilot/Feasibility Grant, University of Michigan Geriatrics Center
2008-2010	Ad- hoc Reviewer	National Institute of Health
2008- present	Invited member	MRI Research Center –User Advisory Board
2009- present	Reviewer	American Geriatrics Society, Annual Scientific Meeting; Abstracts
2009	Reviewer	American Academy of Neurology Annual Meeting, 2010; Aging and Dementia Abstracts



2011- present	Reviewer and Member	AFAR National Scientific Advisory Council (NSAC)
2013- present	Reviewer and Member	ASG- NIA study section
2015	Reviewer	Applications to the NIDDK Diabetes Complications Consortium
2/29-3/1/2016	Reviewer	NIH Aging Systems and Geriatrics Study Section (ASG), San Diego, CA
2/12-14/2017	Reviewer	NIH Aging Systems and Geriatrics Study Section (ASG), San Diego, CA
9/2017 – 8/2019	External Advisory Board Member	Institute for Aging Research (IFAR) External Advisory Committee
9/2017 – 8/2020	Scientific Advisory panel	UH2/UH3 Resiliences (PIs:Whitson, Colon-Emeric)

**d. Consultantships**

<b>Date</b>	<b>Name of Consultantship</b>
2004	Liverpool Tropical School of Medicine, Britain and the University of North Carolina, USA

**3. Non-Professional Service**

**a. Service to Community-Based Organizations**

<b>Year(s)</b>	<b>Position and Organization</b>	<b>Type of Service</b>
2006 - 2013	Board of the Poverty Task Force Group, East End Cooperative Ministry and East Liberty Presbyterian Church, Elder	Consultant, training Volunteer

Revised: 7/31/18