ICFSR 2015
International Conference on Frailty & Sarcopenia Research

The conference will be held at HOTEL REVERE • 200 Stuart Street, Boston, MA, USA

Thursday – Saturday, April 23–25, 2015 Boston, MA, USA

All abstracts and proceedings will be published in the Journal of Frailty & Aging

www.icfsr.com
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.

The Journal of Frailty & Aging is composed by five different sections:

- **Biology of frailty and aging**
- **Physical frailty and age-related body composition modifications**
- **Neurosciences of frailty and aging**
- **Frailty and aging in clinical practice and public health**
- **Clinical trials and therapeutics**

The Journal of Frailty & Aging is a quarterly publication of original papers, review articles, case reports, controversies, letters to the Editor, and book reviews. Manuscripts will be evaluated by the editorial staff and, if suitable, by expert reviewers assigned by the editors. The journal particularly welcomes papers by researchers from different backgrounds and specialities who may want to share their views and experiences on the common themes of frailty and aging.

www.jfrailtyaging.com
Welcome by the Organizing Committee
Roger Fielding, Shalender Bhasin, Irwin Rosenberg Boston, (USA), Matteo Cesari, Bruno Vellas, Toulouse, (France)

KEYNOTE: DRUG DESIGN FOR SARCOPENIA Shalender Bhasin, Boston, USA

ORAL COMMUNICATIONS: Chaired by Roger Fielding, Boston, (USA), Bruno Vellas, Toulouse, (France)

11:30am
OC1 • Frailty in the context of older people centred and integrated care
I. Araujo, Senior Advisor, Department of Ageing and Life Course (World Health Organization)

9:45am
OC2 • EMA (European Medicines Agency) Points to consider on frailty
Francesca Cerreta, London, (UK)

10:00am
OC3 • A Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Multicenter Study Of The Safety And BioEffect Of REGN1033 With And Without Exercise In Healthy Subjects (NCT01910220)
Roger A. Fielding, PhD(1) - (1)Nursing, Exercise Physiology and Sarcopenia Laboratory, Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University Boston, MA, (USA)

10:15am
OC4 • Phase 2 Randomized Study of Myostatin Antibody LY2495655 Versus Placebo in Older Patients Undergoing Elective Total Hip Arthroplasty (eTHA)
L Woodhouse, PhD(1) - (1)University of Alberta, (Canada)

10:30am
OC5 • Fish oil derived n-3 polyunsaturated fatty acid therapy increases muscle mass and function in older adults
G.L. Smith PhD (1) - (1)Kenter for Human Nutrition, Washington University School of Medicine, St. Louis, (USA)

10:45am
OC6 • A community-based, technology-supported service model for detecting and preventing frailty
Lex van Velsen, PhD (1) - (1)Roessingh Research and Development, Telemedicine cluster, Enschede, (the Netherlands)

12:00pm COFFEE BREAK AND POSTERS

PARALLEL SESSIONS • BALLROOM 1

11:30am SYMPOSIUM 1: ESTABLISHING AN ICD-10 CODE FOR DIAGNOSING SARCOPENIC PATIENTS
Chaired by Cynthia A. Bens, Alliance for Aging Research, Washington, DC, (USA)

11:30am • Process for Establishing an ICD-10 Code for Sarcopenia
Cynthia Bens, Alliance for Aging Research (Washington, DC, USA)

11:50am • Comparing of a Sarcopenia ICD-10 Code for Further Research and Physicians in Practice
Stephanie Studenski, MD, MPH, National Institute on Aging, National Institutes of Health (Baltimore, MD, USA)

12:10am • Benefits of a Sarcopenia ICD-10 Code to Therapeutic Development
Dana Sue Hardin, MD, Eli Lilly and Co. (Indianapolis, IN, USA)

12:30pm KEYNOTE: BIOLOGICAL ASPECTS OF AGING AND FRAILTY Jeremy Walston, Baltimore, (USA)

PARALLEL SESSIONS • BALLROOM 2

11:30am SYMPOSIUM 2: COMPARING AND CONTRASTING LOW APPENDICULAR LEAN MASS CRITERIA UTILIZED IN DEFINITIONS OF SARCOPENIA
Chaired by Todd Manini, Department of Aging and Geriatric Research, University of Florida, (USA)

11:30am • Comparison of participant characteristics and health conditions among older adults meeting different low appendicular lean mass criteria for sarcopenia
Cecilia Marta, Sanofi (USA)

12:00am • Comparing risk of walking limitation in older adults meeting different low appendicular lean mass criteria for sarcopenia
Todd Manini, Department of Aging and Geriatric Research, University of Florida, (USA)

12:30pm ORAL COMMUNICATIONS: Chaired by HA Bishoff-Ferrari, Zurich, (Switzerland)

12:30am OC7 • Comparative performance of current definitions of sarcopenia against the prospective incidence of falls among community-dwelling seniors age 65 and older
Bess Dawson-Hughes, Tufts University Boston (USA), A Bishoff-Ferrari HA, Dept. of Geriatrics, University Hospital - Centre on Aging and Mobility, University of Zurich (Switzerland)

12:45am OC8 • Comparing Measures of Sarcopenia in Predicting Physical Function Post Hip Fracture
Nancy Chiles Shaffer (1) - Co-Authors & affiliations (1) "Yvonne" Huang, PhD(2), Ann Gruber-Baldini, PhD1, Marc Hochberg, MD, MPH(1), Jay Magaziner, PhD, MSHygi(1), Denise Owrig, PhD (1) - (1)Department of Epidemiology and Public Health, University of Maryland Baltimore, Baltimore, Maryland, USA (2) Department of Mathematics and Statistics, University of Maryland Baltimore County, Baltimore, Maryland, USA

1:00pm LUNCH BREAK AND POSTERS

PARALLEL SESSIONS • BALLROOM 1

2:00pm KEYNOTE: DEFINITION OF SARCOPENIA Stephanie Studenski, Baltimore, (USA)

2:30pm SYMPOSIUM 3: HOW TO IMPLEMENT FRAILTY, FALLS PREVENTION AND SARCOPENIA INTO CLINICAL PRACTICE
Chaired by Shalender Bhasin, Boston, (USA) - Bruno Vellas, Toulouse, (France)

2:30pm • How to implement frailty into clinical practice the Gerontopole experience in 2015
Bruno Vellas, Toulouse, (France)

2:50pm • How to implement Sarcopenia into clinical practice: what we know, what we don’t know and what we will learn from the SPRINT-T trial
Roberto Bernabei, Rome, (Italy)

3:10pm • How to implement Falls Prevention: what we know and what we will learn from the STRIDE trial
Shalender Bhasin, Harvard Medical School, Boston, (USA)

3:30pm SYMPOSIUM 4: CURRENT DEVELOPMENTS IN THE TREATMENT OF SARCOPENIA: PHARMACOTHERAPY AND NOVEL TRIAL OUTCOMES
Chaired by Daniel Rooks, PhD, Translational Medicine, Novartis Institutes of BioMedical Research, Cambridge, MA, (USA)

3:30pm • New Treatments for Muscle Wasting: An Update on Bimagrumab and other Treatments
Ronenn Roubenoff, MD, MHS, Translational Medicine, Novartis Institutes of BioMedical Research, Basel, Switzerland; Dimitris Papanicolaou, MD, PhD, Novartis Pharmaceuticals, East Hanover, NJ, (USA)

3:50pm • Emerging technologies to measure physical activity and falls in sarcopenia trials
Joerg Goldhahn, MD, Translational Medicine, Novartis Institutes of BioMedical Research, Basel, Switzerland

4:10pm • Effect of bimagrumab (BMY338) on skeletal muscle mass and physical function in older adults with and without sarcopenia
Daniel Rooks, PhD, Translational Medicine, Novartis Institutes of BioMedical Research, Cambridge, MA, (USA)

4:30pm COFFEE BREAK AND POSTERS
PARALLEL SESSIONS • BALLROOM 1

5:00/5:30pm **KEYNOTE:** FRAILTY INTERVENTION: WHAT WE HAVE LEARNED FROM THE LIFE TRIAL  
Marco Pahor, Gainesville (USA)

5:30/6:30pm **SYMPOSIUM 5:** DIABETES AS A CAUSE OF ACCELERATED FRAILTY AND SARCOPENIA: MECHANISMS AND DIAGNOSIS  
Chaired by John Morley, St Louis, (USA) - Leocadio Rodriguez Manas, Madrid, (Spain)

5:30pm • Diabetes accelerates frailty and sarcopenia  
John Morley, St Louis, (USA)

5:50pm • Diabetes as a model of pre-disability: preventing further functional decline and optimising neuro-muscular and vascular function  
Alan Sinclair, Luton (UK)

6:10pm • MID-FRAIL, a different approach to the older adults with diabetes  
Leocadio Rodriguez Manas, Madrid (Spain)

PARALLEL SESSIONS • BALLROOM 2

2:00/3:00pm **SYMPOSIUM 6:** REDUCING FRAILTY IN OLDER PEOPLE: A MULTIFACTORIAL INTERDISCIPLINARY INTERVENTION DESCRIPTION, RESULTS OF RANDOMIZED TRIAL AND ECONOMIC ANALYSIS  
Chaired by I Cameron, MBBS PhD, University of Sydney (Australia)

2:00pm • The Frailty Intervention Trial intervention - Results  
S Kurrle, MBBS PhD, University of Sydney - I Cameron MBBS PhD, N Fairhall PhD, K Lockwood BHSc, S Lord PhD, C Sherrington PhD, University of Sydney and University of New South Wales (Australia)

2:40pm • Frailty Intervention Trial - Economic Analyses  
I Cameron, MBBS PhD, University of Sydney, S Kurrle MBBS PhD, N Fairhall PhD, K Lockwood BHSc, S Lord PhD, C Sherrington PhD, K Howard PhD, A Hayes PhD, University of Sydney and University of New South Wales (Australia)

3:00/4:30pm **ORAL COMMUNICATIONS**  
Chaired by Jean WOO, Chinese University, (Hong Kong), Yves ROLLAND, Toulouse University Hospital, (France)

3:00pm OC9 • Defining sarcopenia in terms of incident adverse outcomes  
J Woo MD(1) - (1)Department of Medicine and Therapeutics, The Chinese University of Hong Kong (Hong Kong)

3:15pm OC10 • The relationship between functional impairment and falls in community-dwelling older women  
E Freiberges(1) - (1)Associated Prof. PhD Institute for Biomedicine of Aging, Friedrich-Alexander-Universität [FAU] Erlangen-Nürnberg/Germany - (2)Institute of Medical Physics, FAU Erlangen-Nürnberg (Germany)

3:30pm OC11 • Sarcoplasmic Reticulum Function and Membrane Sphingolipids in Adult and Aged Rodent Skeletal Muscle  
D W. Russ, PJ, Ph.D(1,2) - (1) School of Rehabilitation and Communication Sciences, Ohio University, Athens, OH (2)Ohio Musculoskeletal and Neurological Institute, Heritage College of Osteopathic Medicine, Athens, OH (USA)

3:45pm OC12 • Relation between muscle mass, motor units and type of training in master athletes  
M Drey, MD, MSc(1) - (1) Klinikum der Universität Münche (LMU), Medizinische Klinik und Poliklinik IV, Ziemssenstrasse1, 80336 München (Germany)

4:00pm OC13 • An innovative study design to evaluate a technology-supported health service to prevent frailty  
Stephanie Jansen-Kosterlink, MSc, Roessingh Research and Development, Telemedicine cluster, Enschede, the Netherlands

4:15pm OC14 • Ghrelin Plus Resistance Training in Frailty: A Randomized, Placebo-Controlled Study  
Anne R. Cappola MD, SCm, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA (USA)

4:30/5:00pm **COFFEE BREAK AND POSTERS**

5:00/6:00pm **ORAL COMMUNICATIONS**  
Chaired by Denise HOUSTON, Wake Forest University, Winston-Salem, (USA), Marco PAHOR, Florida University, Gainesville, (USA)

5:00pm OC15 • Sarcopenia and age-related muscle impairment: histology and imaging in a close relationship  
E Piccirilli(1) - (1)Department of Orthopaedics and Traumatology, Universityof Rome Tor Vergata, Polliclinico Tor VergataFoundation, Rome (Italy)

5:15pm OC16 • Protein Intake and Incident Mobility Limitations in Older Adults: The Health ABC Study  
Denise K. Houston, PhD(1) - (1)Wake Forest School of Medicine, Winston-Salem, NC (USA)

5:30pm OC17 • Effects of long-term training on muscle strength and mobility in ≥75 year old adults  
Eeva Aartoalathi(1) - (1) Department of Health Sciences, University of Jyväskylä, Jyväskylä (Finland)

5:45pm OC18 • Effects of sarcopenia on serum myostatin and physical functioning  
Michelle Gray, Ph.D(1) - (1)University of Arkansas, Human Performance Lab, Office for Studies on Aging (USA)

6:00/6:30pm **ORAL COMMUNICATIONS**  
Chaired by Matteo CESARI, Toulouse University Hospital, France

6:00pm OC19 • Mobile Accelerometry: A “Swiss Army Knife” for Aging Research  
Martin Daumer(1,2,3) and Christian Lederer (1) for the actibelt team (1) SLCMSRe.V.-TheHumanMotionInstitute,(Germany) (2) Trium Analysis Online GmbH,(Germany) (3)TUMTechnical University of Munich (Germany)

6:15pm OC20 • Frailty more than multimorbidity was predictive of mortality among sarcopenic older persons aged 80 years and older  
Matteo Tosato, MD, (1) - (1) Department of Geriatrics, Neurosciences and Orthopedics, Catholic University of the Sacred Heart, Rome (Italy)

WELCOME RECEPTION  
6:30pm - 8:00 pm  
HOTEL REVERE • Emerald Lounge

With participation from
9:00/10:00am SYMPOSIUM 8: FRAILTY, FALLS, AND FRACTURES: COMMON PATHOPHYSIOLOGY AND THERAPEUTIC APPROACH

Chairled by Prof. Go Duque, MD, PhD, FRACP, Sydney, (Australia)

9:00am Frailty and musculoskeletal system: From bench to bedside
B R. Troen, MD, Professor and Chief, Division of Geriatrics and Palliative Medicine, University at Buffalo, Buffalo, NY (USA)

9:20am Sarco-osteoporosis: Does it really exist?
B Buehring, MD, Assistant Professor, Department of Medicine, University of Wisconsin - Madison, Madison, WI (USA)

9:40am How to develop an integrated approach to prevent falls and fractures in frail older persons?
Prof. G Duque, MD, PhD, FRACP. Director Musculoskeletal Ageing Research Program, Sydney Medical School Nepean, The University of Sydney (Australia)

10:00/10:30am KEYNOTE: ENDS POINT FOR SARCOPENIA DRUG TRAILS
Jack Guralnik, Baltimore, (USA)

10:30/1:00am COFFEE BREAK AND POSTERS

11:00/12:30am ORAL COMMUNICATIONS

Chairled by Marie-Josée Sirois, Laval University, Quebec, (Canada), Luis Miguel Gutiérrez-Robledo, Mexico City, (Mexico)

11:00am OC25 • Frailty and the use of acute medical services
On behalf of Neil D. Dattani, MD from Toronto University, Canada, Marie-Josée Sirois, PhD. The Canadian Emergency Team Initiative, Université Laval and Centre de recherche du CHU de Québec, Canada Co-Authors Vanessa Fillon, BSc (1)(2)(3), Jacques Lee, MD(1)(4), Marcel Émond, MD, MSc (1)(2)(3) (1)The Canadian Emergency Team Initiative (2)Université Laval, Québec, Canada (3) Centre de recherche du CHU de Québec, Canada (4) SunnyBrook Hospital, Toronto, Canada

11:15am OC26 • Multi-block PLS-DA modeling approach to characterize the age-dependent relations among patterns of circulating inflammatory biomarkers, changes in body composition and physical performance
Riccardo Calvani, PhD (1) - (1)Department of Geriatrics, Neurosciences and Orthopedics, Catholic University of the Sacred Heart, Rome (Italy)

11:30pm OC27 • Aerobic Exercise Mitigates Frailty
Laura V. Thompson, University of Minnesota Medical School, Minneapolis - Haiming Liu and Ted G. Graber, University of Minnesota Medical School (USA)

11:45am OC28 • Diffusion Tensor MRI of Quadriceps Muscleularity in the Setting of Clinical Frailty Syndrome
DM. Melville, MD(1) - (1)Department of Medical Imaging, University of Arizona College of Medicine, Tucson, AZ 85724 2 - Arizona Center on Aging, University of Arizona College of Medicine (USA)

12:00pm OC29 • Lipolytic, beta-oxidative and anti-glyceroneogenic effects of citrulline on white adipose tissue depend on its mass and the age of rats
Philippe Noirez, (1) - (1)D epartment of M edical Imaging, Université Paris Descartes, Sorbonne Paris Cité, France - (2) Institut National de la Santé et de la Recherche Médicale UMR S 1124, Paris, France - (3) Institut de Recherche bioM édicale et d’Epidem iologie du Sport (IRMES), EA 7329, Institut National du Sport de l’Expertise et de la Performance (INSEP), Paris, France

12:15pm OC30 • Increases in circulating IL-15 and cell-free DNA concentrations after treadmill running: Potential systemic mediators for the beneficial effects of endurance exercise
Masao Kaneki, MD, PhD(1) - (1) Tokyo Metropolitan Institute of Gerontology, Tokyo (Japan)

12:30/1:30pm LUNCH BREAK AND POSTERS

PARALLEL SESSIONS • BALLROOM 2

8:00/9:00am ORAL COMMUNICATIONS

Chairled by Jonathan Afflalo, McGill University, Montreal, (Canada), John Morley, St Louis University, (USA)

8:15am OC32 • Sarcopenia coexisting with Alzheimer’s disease and amnestic mild cognitive impairment in elderly patients.
Taiki Sugimoto, BS(1) - (1)Department of Community Health Sciences, Kobe University, Graduate School of Health Sciences, Kobe (Japan)

8:30am OC33 • Feasibility and Reliability of Psoas Muscle Area As A Novel Measure for Sarcopenia and Frailty in Patients Undergoing Transcatheter Aortic Valve Implantation
Jonathan Afflalo MD MSc (1,2,7) - (1) Department of Medicine, McGill University, Montreal, QC, Canada - (2) Division of Cardiology, McGill University, Montreal, QC, Canada (7) Department of Epidemiology, McGill University, Montreal, QC, Canada

8:45am OC34 • Frailty transitions over 12-month period in relation to cognitive status in community-dwelling older adults with cognitive impairment attending a Tertiary Memory Clinic
M Ei Sian Chong, MBBS, FRCP(EDIN)(1,2) - (1) Cognition and Memory Disorders service. Department of Geriatrics Medicine. Tan Tock Seng Hospital, Singapore. (2) Institute of Geriatrics and Active Ageing. Tan Tock Seng Hospital (Singapore)

9:00/10:00am SYMPOSIUM 8: FRAILTY IN HIV AND AGING

Chairled by Deborah Gustafson, SUNY Downstate Medical Center, Brooklyn New York USA and Monty Montano, Harvard University, Boston, Massachusetts USA and and Monty Montano, Harvard University, Boston, Massachusetts (USA)

9:00am Measuring frailty in studies of HIV and the importance of multimorbidities in the Women’s Intergenacy HIV Study
Deborah Gustafson, SUNY Downstate Medical Center, New York, USA

9:10am The Colorado Experience
Kristine Erlanson, University of Colorado, Aurora, USA

9:20am Frailty in the Multicenter AIDS Cohort Study: Definitions and Correlates
Joseph Margolick, Johns Hopkins University, Baltimore USA

9:30am Mechanisms of mitochondrial DNA damage
Brendan Payne, Newcastle University, UK

9:40am HIV and Muscle Fibrosis
Monty Montano, Harvard University, Boston, USA

9:50am Key emerging questions with Q&A
PARALLEL SESSIONS • BALLROOM 1

10:00/10:30am
OC35 • The Changes of Lower Muscular Mass, Weakness and Physical Performance in Robust and Pre-frail outpatient Older Adults
Tsai-Chun Chen, MS11 - (1) School of Exercise and Health Science, National Taiwan University College of Medicine, Taipei (Taiwan)
10:15am
OC36 • Low intensity resistance training, but not citrulline supplementation, attenuates declines in skeletal muscle mass, strength and ‘anabolic resistance’ induced by two-weeks of inactivity in older men.
Mark T von Allmen, BSc(1) - (1)Department of Kinesiology, McMaster University, Hamilton, Canada - Co-Author & Affiliations : Michaela C Devries PhD1, Leigh Breen PhD1,2 and Stuart M Phillips PhD1 (1) Department of Kinesiology, McMaster University, Hamilton (Canada)

10:30/11:00am
COFFEE BREAK AND POSTERS

11:00/12:30am
OC37 • Muscle mRNA expression signatures in wasted and non-wasted COPD patients at rest and 24 hr after resistance exercise
Despina Constanti, PhD(1) - (1) MRC/ARUK Centre for Musculoskeletal Ageing Research, School of Life Sciences, University of Nottingham, Queen’s Medical Centre, Nottingham (UK)
11:15am
OC38 • Trunk Muscle Composition 2 Months After Hip Fracture: The Baltimore Hip Studies
Gregory E. Hicks, Ph.D1, Ph.D(1) - (1) Department of Physical Therapy, University of Delaware, Newark, DE (USA)
11:30am
OC39 • Prevalence of Low Lean Mass in the USA using the FNIH Sarcopenia Project Cutpoints: Effect of Age and Gender
John A. Batsis MD (1,2,3) - (1) Geisel School of Medicine at Dartmouth, Hanover, New Hampshire, United States - (2) Department of Medicine, Dartmouth Hitchcock Medical Center, Lebanon, New Hampshire, United States - (3) The Dartmouth Institute for Health Policy, Lebanon, New Hampshire (USA)
11:45am
OC40 • Frailty Phenotype is Associated with Declines in Muscle Mass, Performance, Quality and Integrity, with Suggestion of Compensatory Hypertrophy
George A. Kolari, MD1, PhD(1) - (1) University of Connecticut Health Center, Farmington, CT (USA)
12:00am
OC41 • Novel Serum Biomarkers that Predict Sarcopenia in Older Mournished Men
Suzyette L Pereira, Ph.D1(1) - (1) Abbott Nutrition, Columbus, OH (USA)
12:15am
OC42 • Influence of gender and high-fat feeding on the development of sarcopenia in the aging rat
Robert K. O. Ph.D1(1) - (1) Institute for Biomedicine of Aging, Friedrich-Alexander-Universität Erlangen-Nürnberg, Nürnberg (Germany)

12:30/1:30pm
LUNCH BREAK AND POSTERS

1:30/2:30pm
SYMPOSIUM 9: PHYSICAL FRAILTY AND SARCOPENIA: BACKGROUND, RATIONALE, AND DESIGN OF THE SPRINT T PROJECT
1:30pm
Older people’s unmet needs are changing medicine
R Bernabei, MD, PhD - Department of Geriatrics, Orthopedics, and Neurosciences of the Università Cattolica del Sacro Cuore; Rome (Italy)
1:45pm
The physical frailty and sarcopenia condition
M Cesari, MD, PhD - Centre Hospitalier Universitaire de Toulouse; Toulouse (France)
2:00pm
The SPRINTt trial: rationale and methodology
F Landi, MD, PhD - Department of Geriatrics, Orthopedics, and Neurosciences of the Università Cattolica del Sacro Cuore; Rome (Italy)
2:15pm
Biomarkers of frailty and sarcopenia
E Marzetti, MD, PhD - Department of Geriatrics, Orthopedics, and Neurosciences of the Università Cattolica del Sacro Cuore; Rome (Italy)

2:30/3:30pm
SYMPOSIUM 10: INTERSECTION AND DISTINCTION BETWEEN PHYSICAL FRAILTY AND COGNITIVE IMPAIRMENTS AMONG OLDER ADULTS
1:30pm
U.S. national profile on the intersection between physical frailty and cognitive impairments among older adults residing in the community or residential care settings
Qian-Li Xue, PhD, Division of Geriatric Medicine and Gerontology, Department of Medicine/ Center on Aging and Health, Johns Hopkins University, Baltimore, Maryland (USA)
2:50pm
Frailty and cognition: one syndrome?
Karen Bandeen-Roche, PhD, Johns Hopkins Bloomberg School of Public Health Center on Aging and Health, Baltimore, Maryland, (USA)
3:10pm
Domain-specific cognitive performance and development of physical frailty: Longitudinal evidence from the Women’s Health and Aging Study II
Alden L. Gross, PhD MHS (1) - (1) Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA and Center on Aging and Health, Johns Hopkins Medical Institutions, Baltimore, MD (USA)

3:30/4:00pm
COFFEE BREAK AND POSTERS

4:00/4:30pm
ORAL COMMUNICATIONS
4:00pm
OC43 • Genome-wide association analysis of frailty measures in two representative cohorts in the US and the UK
Krystina Mekli, PhD(1) - (1) Frailty Resilience and Inequalities in Later Life project, CIMST, University of Manchester (UK)
4:15pm
OC44 • Muscle protein fractional synthesis rates predicts muscle mass gain in response to a oral selective androgen receptor modulator
Mahalakshmi Shankaran, M Sc (1) - (1) School and Graduate Institute of Physical Therapy, National Taiwan University College of Medicine, Taipei (Taiwan)

4:30/6:10pm
SYMPOSIUM 11: MOLECULAR MECHANISMS OF SARCOPENIA
4:30pm
Novel mechanisms regulating age-associated muscle atrophy
S Lessard, Joslin Institute, Harvard Medical School, Boston (USA)
4:50pm
Apelin reverses age-induced skeletal muscle dysfunction
C Dray, Toulouse University; Toulouse (France)
5:10pm
Muscle signaling mediating sarcopenia
D Glass, Novartis Institutes for BioMedical Research
5:30pm
A Drosophila model for sarcopenia and myokine signaling
F Demontis, St Jude Faculty, Memphis (USA)
5:50pm
MicroRNA in Skeletal Muscle: Potential Role in Sarcopenia
DA. Rivas, Tufts University, Boston (USA)
1:30/2:00pm **ORAL COMMUNICATIONS**  Chaired by Nathan LEBRASSEUR, Mayo Clinic, Rochester, (USA), Marco NARICI, Derby, (UK)

1:30pm **OC45**  The Relationship between Inflammatory Exposure over Ten Years and Slow Gait is Influenced by White Matter characteristics: the Health ABC Study
Neelesh K. Nadkarni, MD, PhD, FACP (1) - (1) Division of Geriatric Medicine and Gerontology - Dept of Medicine, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania (USA)

1:45pm **OC46**  Circulating Myostatin Levels in Women and Men using a Novel Multiplexed Mass Spectrometry-based Assay
Nathan K. LeBrassereur, PT, PhD (3,5) - (3) Robert and Arlene Kogod Center on Aging; (5) Department of Physical Medicine and Rehabilitation; Mayo Clinic College of Medicine, Rochester, MN (USA)

2:00pm **OC47**  Early detection of changes in muscle mass in young and older adults by ultrasound imaging
Marco V. Narici, PhD (1) - (1) MRC ARUK Centre for Musculoskeletal Ageing Research, Faculty of Medicine, Derby, (UK)

2:15pm **OC48**  Utility of the mid-thigh cross-sectional muscle area on CT in diagnosing sarcopenia - Analyses of the association with skeletal muscle volume measured by DXA
Yasumoto Matsuji, MD, PhD (1) - (1)Department of Orthopedic Surgery, National Center for Geriatrics and Gerontology, Obu (Japan)

2:30/3:30pm **SYMPOSIUM 12: LOSS OF MUSCLE QUALITY IN OLD AGE: MECHANISMS AND FUNCTIONAL CONSEQUENCES**
Chaired by Marco Narici, PhD and Jane A. Kent, PhD, (1) MRC ARUK Centre for Musculoskeletal Ageing Research, Faculty of Medicine, Derby, United Kingdom (2) Muscle Physiology Lab, Department of Kinesiology, Towson, University of Massachusetts (USA)

2:30pm **Muscle connective tissue changes with aging**
Michael Kjaer, PhD (1) - (1) Institute of Sports Medicine, Bispebjerg Hospital, and Centre of Healthy Aging, Faculty of Health and Medical Sciences, Copenhagen University (Denmark)

2:50pm **Neuromuscular basis of the aging-related loss of muscle quality**
Brian C. Clark, PhD (1) - (1) Ohio Musculoskeletal & Neurological Institute (OMNI), Departments of Biomedical Sciences and Geriatric Medicine, Ohio University, Athens, Ohio (USA)

3:10pm **Role of mitochondrial dysfunction in the loss of muscle quality in old age**
Russell Hepple, PhD (1) - (1) Research Centre for Physical Activity & Health, McGill University, Montreal, QB (Canada)

3:30/4:00pm **COFFEE BREAK AND POSTERS**

4:00/5:00pm **SYMPOSIUM 13: SARCOPENIA IN CHRONIC DISEASES - COMMON PATHWAYS VS. DISEASE SPECIFIC FEATURES**
Chaired by Wolfram Doehn, Chair, University Berlin, Germany; Alan Sinclair, University Bedfordshire, Luton (UK)

4:00pm **The skeletal muscle in heart failure – more relevant than the myocardial muscle?**
Alexandre Mebazaa, Hôpital Lariboisière, AP-HP Paris (France) - alternatively: John Morley University of St Louis (USA)

4:20pm **Muscle wasting and outcome after stroke – evidence for stroke specific sarcopenia?**
W. Doehnner, University Berlin (Germany)

4:40pm **Muscle wasting in COPD – impact on symptoms and outcome**
Anemie Schols, Maastricht University (The Netherlands) - alternatively: Mitja Lainscak University Clinic Golnik (Slovenia)

5:00/6:00pm **ORAL COMMUNICATIONS**  Chaired by Jonathan Bean (USA) et Angelo Parini (France)

5:00pm **OC49**  A Novel 3D QCT Technique to Quantify the Spatial Muscle-Lipid Distribution in the Thigh and its Association with Muscle Function
Alexander Mühlberg (1) - (1) Institute of Medical Physics, Friedrich Alexander-University Erlangen-Nuremberg (Germany)

5:15pm **OC50**  Do muscle strength and force development differ as a function of age?
Charlotte H. Remvig, PhD (1,2,3) - (1) Département de Biologie, Faculté des Sciences, Université du Québec à Montréal, Canada - (2) Groupe de recherche en Activités Physiques Adaptées, Faculté des Sciences, Université du Québec à Montréal, Canada - (3) Centre de Recherche de l’Institut Universitaire de Gériatrie de Montréal, Canada.

5:30pm **OC51**  Electrical Impedance Myography: Its association with standard measures in the assessment and treatment of sarcopenia
Jonathan F. Bean (1,2), Seward Rutkove (2), Laura Kurlinski (1) - (1) Spaulding Rehabilitation Hospital, Boston, MA - (2) Department of PM&R, Harvard Medical School, Boston, MA - (3) Beth Israel Deaconess Medical Center, Boston, MA

5:45pm **OC52**  Is polypharmacy associated with an increased risk of incident frailty? Results from the esther cohort study
Kai-Uwe Saum, MPH (1) Bernd Holleczek, PhD (2) Klaus Hauer, PhD (3) Hermann Brenner, MD, MPH (1) - (1) Division of Clinical Epidemiology and Aging Research, German Cancer Research Center, Heidelberg (Germany) - (2) Epidemiological Cancer Registry of Saarland, Saarbrücken (Germany) - (3) Department of Geriatric Research, Bethanien-Hospital and Geriatric Centre, University of Heidelberg (Germany)
<table>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
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<tr>
<td>8:00/9:00am</td>
<td>ORAL COMMUNICATIONS</td>
<td>Importance of the frailty syndrome for the aged cancer patient treatment</td>
<td>J. Leibovici, Dept. of Pathology, Sackler Faculty of Medicine, Tel-Aviv University (Israel)</td>
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<td>8:15am</td>
<td>OC54 • How Muscle Quality and Frailty Mediate and Moderate Pathways Leading to Fragility Fractures</td>
<td>Andy Kin On Wong, PhD University Health Network, Osteoporosis Program, Toronto, ON (Canada)</td>
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<td>8:30am</td>
<td>OC55 • Sarcopenia predicts incident disability, institutionalisation and mortality in community dwelling older Men: The Concord Health and Ageing in Men Project</td>
<td>V Hirani, PhD (1,2,3) • (1) Centre for Education and Research on Ageing, Concord Hospital, University of Sydney, NSW, Australia; (2) School of Public Health, University of Sydney, NSW, Australia; (3) The ARC Centre of Excellence in Population Ageing Research, University of Sydney (Australia)</td>
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<td>8:45am</td>
<td>OC56 • Physical Capability Predicts Mortality in Middle-Aged as well as Older Community-Based Adults</td>
<td>Victoria L Keevil, (1,2) • (1) The European Prospective Investigation of Cancer-Nordfolk Study, Department of Public Health and Primary Care, University of Cambridge, Strangeways Research Laboratory, Woot’s Causeway, Cambridge (UK); (2) Specialist Registrar, Department of Medicine for Older People, Royal Bournemouth Hospital, Castle Lane East, Bournemouth, Dorset (UK)</td>
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<td>9:00/10:00am</td>
<td>SYMPOSIUM 14: MUSCLE DISUSE AS A PIVOTAL PROBLEM IN SARCOPENIA-RELATED MUSCLE LOSS AND DYSFUNCTION</td>
<td>Disuse and the concept of 'anabolic resistance' in protein metabolism</td>
<td>L van Loon, Ph.D. University of Maastricht, Maastricht (the Netherlands)</td>
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<td>Catabolic crises in the elderly: the impact of disuse</td>
<td>D Paddon-Jones, Ph.D. University of Texas Medical Branch, Galveston, TX (USA)</td>
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<td>Reduced physical activity as part of the disuse continuum</td>
<td>M Devries, Ph.D. McMaster University, Hamilton, ON, (Canada)</td>
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<td>10:00/10:30am</td>
<td>KEYNOTE: FRAILTY AND SARCOPENIA, TWO SIDES OF THE SAME COIN</td>
<td>Mattéo Césari, Toulouse (France)</td>
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<td>10:30/11:00am</td>
<td>COFFEE BREAK AND POSTERS</td>
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<td>11:00/12:00am</td>
<td>SYMPOSIUM 15: FRAILTY AND FALLS EVIDENCE AND GAPS</td>
<td>Frailty and Falls in TILDA: Do frailty indices differ when they are constructed using exclusively self-reported or test based measures?</td>
<td>O. Theou, Post-doctoral Fellow, Dalhousie University, Rm 1313 Veterans’ Memorial Bldg, 5955 Veterans’ Memorial Lane, Halifax, Nova Scotia, B3H 2E1, Canada (Ireland)</td>
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<td>Frailty and falls in the oldest old: LiLACS NZ</td>
<td>N Kerse, University of Auckland 261 MORRN RD Auckland 1072 (New Zealand)</td>
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<td>Frailty and Falls in DEGS1. Findings from the German Health Interview and Examination Survey</td>
<td>J Fuchs, PhD Robert Koch –Institute, Department of Epidemiology and Health Monitoring, Berlin (Germany)</td>
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<td>12:00/12:45pm</td>
<td>ORAL COMMUNICATIONS</td>
<td>Does it matter what we measure: How do the number and type of deficits included affect the predictive power of frailty indices?</td>
<td>Matthew DL O’Connell, PhD The Irish Longitudinal Study on Ageing, Trinity College, Dublin, Ireland</td>
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<td>Confirming the association between endothelial dysfunction and frailty. The Toledo Study Healthy Ageing</td>
<td>Cristina Alonso-Bouzón, MD Geriatric Department, Hospital Universitario de Getafe, Madrid (Spain)</td>
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<td>12:30am</td>
<td>OC59 • The relation of muscle strength and gait speed with muscle cross-sectional area determined by mid thigh computed tomography - comparison and skeletal muscle mass measured by dual-energy X-ray absorptiometry</td>
<td>Koji Tsukasaki, M.D. (1) • (1) Hospital, National Center for Geriatrics and Gerontology, Aichi (Japan)</td>
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PARALLEL SESSIONS • BALLROOM 2

8:00/10:30am ORAL COMMUNICATIONS Chaired by Michael LUSTGARTEN, Tufts University, Boston, (USA) Stephanie STUDENSKI, NI/A/N/NIH, Baltimore, (USA)

8:00am OC60 • Frailty markers were associated with entry into and less recovery from disability profiles in healthy community-dwelling older adults. The NuAge study
Michel Raiche, PhD (1) - (1) Research Centre on Ageing, CSSS-IUJG of Sherbrooke, Québec, Canada

8:15am OC61 • Serum levels of C-terminal agrin fragment (CAF) are associated with sarcopenia in older People: Results from the iSIRENTE Study.
Anna Maria Martone, MD (1) - (1) Department of Geriatrics, Neurosciences and Orthopedics, Catholic University of the Sacred Heart, Rome (Italy)

8:30am OC62 • Frail older people in nursing homes: Quality of life and care modalities
Enid Wai-yung, RN, RM, PhD (1) - (1) Center for Gerontology Nursing, School of Nursing, the Hong Kong Polytechnic University (Hong Kong)

8:45am OC63 • Frailty and Aging: an actual challenge
Roberto Carlos Castrejón-Pérez, PhD (1) - (1) Geriatric Epidemiologic and Clinical Research Department at Instituto Nacional de Geriatría, Mexico City, (México)

9:00am OC64 • The exercise-induced myokine apelin reverses age-related skeletal muscle weakness
Vinzel C, (1,2) - (1) I2MC, Inserm U1048, Toulouse - (2) Gerontopole, CHU Toulouse, Inserm U1027 - 3: University of Miami, Gainesville (USA)

9:15am OC65 • Circulating Branched Chain Amino Acids are Associated with Body Composition, Physical Function and, Inflammation in Older Adults
Michael S. Lustgarten (1) - (1) Nutrition, Exercise Physiology, and Sarcopenia Laboratory, Jean Mayer USDA Human Nutrition Research Center, Tufts University, Boston, MA (USA)

9:30am OC66 • Ruits and vegetables intake and physical activity as predictors of disability risk factors in african american health study
Sandra ML Ribeiro, PhD (1) - (1) University of São Paulo, School of Arts, Science and Humanities (Brazil)

9:45am OC67 • Antihypertensive use and functional outcome events among older adults in the LIFE Study
Thomas W. Burford (1) - (1) University of Florida College of Medicine, Gainesville, FL (USA)

10:00am OC68 • Association of Physical Impairments with FNIH Sarcopenia definitions of Clinical Weakness: Data from the Health & Retirement Survey
John A. Batsik (1) - (1) Department of Medicine, Geisel School of Medicine at Dartmouth, Dartmouth-Hitchcock Medical Center, Center for Health and Aging, Dartmouth College, Hanover, NH (USA)

10:15am OC69 • Lamin A expression in circulating osteoprogenitors as a new biomarker for frailty: The Nepean Osteoporosis and Frailty (NOF) Study
Gustavo Duque (1,2) - (1) Obhamanderane (1,2), Sandra Bermeo (2), Philip Chung (2), Derek Boersma (1), Steven Fung (2), Pushpa Suryaaraachchi (2), Oddom Demontiero (1,2) - (1) Department of Geriatric Medicine, Nepean Hospital, Penrith, NSW, Australia - (2) Musculoskeletal Ageing Research Program, Sydney Medical School Nepean, The University of Sydney, Penrith, NSW (Australia)

10:30/11:00am COFFEE BREAK AND POSTERS

11:00/11:30am ORAL COMMUNICATIONS Chaired by Kristine Erlandson Colorado University,Aurora,(USA) Antoni SALVA, Barcelona University, (Spain)

11:00am OC70 • A Frailty-Related Phenotype in HIV+ Men is Associated with Increased Inflammation and Hormonal Dysregulation
Kristine M. Erlandson, MD (1) - (1)University of Colorado-Anschutz Medical Center; Aurora (USA)

11:15am OC71 • The impact of different measures of frailty on rates of health service use among the community dwelling elderly.
Aisling M. O’Halloran PhD (1) - (1) The Irish Longitudinal Study of Ageing (TILDA), Centre for Medical Gerontology, Trinity College, Dublin (Ireland)

11:30/12:30am SYMPOSIUM 16: PHYSICAL PERFORMANCE TESTS AND BODY COMPOSITION ASSOCIATIONS: FROM POPULATION TO CLINICAL SETTINGS
Chaired by Ricardo Salinas-Martínez, MD (1) Head of the Department of Geriatrics, "Dr. José Eleuterio González" University Hospital; University Gerontological Comité, Autonomous University of Nuevo León, Monterrey, Nuevo León, (Mexico)

11:30am Correlation between muscle mass by bioelectrical impedance analysis, calf circumference and grip strength.
Karina Rodriguez-Quintanilla (1), Ricardo Salinas-Martínez(1,2), Aochitl Ortiz-Jimenez (2), Carlos Quiñónez-Olivas (1), “Luis Miranda-Plata (1) - (1) Department of Geriatrics, "Dr. José Eleuterio González" University Hospital, (2) University Gerontological Committee, Autonomous University of Nuevo León (Mexico)

11:50am Skeletal Muscle Mass Index In A Geriatric Outpatient Population
Karina Rodriguez Quintanilla MD, Ricardo Salinas Martinez MD, 1,4, Guillermo Guajardo Alvarez MD,1, Javier A. Davila Olade MD,1, David Vega Morales MD,2, Pedro A. Garcia Hernandez MD,3, Mario A. Garza Elizondo MD,1, (1) Geriatrics Department - (2) Reumatology Department - (3) Endocrinology Department, "Dr. José Eleuterio González" University Hospital (4) University Gerontological Comité. Autonomous University of Nuevo León, Monterrey, Nuevo León (Mexico)

12:10am Association Between Handgrip Strength And Body Mass Index And Other Simple Clinical And Anthropometric Measurements: A Cross-Sectional Population Based Study
Raúl Hernán Medina-Campos, MD, MSc (1), Mario Úñes Pérez-Zepeda, MD, MSc(1), Luis Miguel Gutiérrez-Robledo, MD, PhD(1) - (1) Research Division at the Hospital Infantil de México, Mexico City (México)
P180 • iNOS-dependent inhibitory S-nitrosylation of the CXXC motifs in SIRT1 function as a pro-inflammatory switch leading to sustained activation of p53 and p65 NF-κB in age-related muscle wasting.
Shohei Shinozaki, PhD1,2, Akihito Ishigami, PhD3, Konrad Ben1,4, Marlene E. Starr, PhD4, Hiroshi Saito, PhD5, Hideki Ito, MD, PhD3, Kentaro Shimokado, MD, PhD6, Masao Kaneki, MD, PhD1 - (1) Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Shriners Hospitals for Children, Harvard Medical School, Charlestown, MA, USA; (2) Department of Atherosclerosis and Vascular Biology, Tokyo Medical and Dental University Graduate School; (3) Tokyo Metropolitan Institute of Gerontology, Tokyo, Japan; (4) Vassar College, Poughkeepsie, NY, USA; (5) Department of Surgery, University of Kentucky College of Medicine, Lexington, KY, USA; (6) Department of Geriatrics and Vascular Medicine, Tokyo Medical and Dental University Graduate School, Tokyo, Japan.

P181 • Transition in Frailty Status and Associated Factors in Community-dwelling Chinese: the Beijing Longitudinal Study on Aging II (BLSAII)
Zheng Zheng, 1,2,4,5, Hui Ding 1,5, Jing Zhao2, Shaochen Guan3, Jin Zhang1, Jinghong Ma4,5, Yuzhu Jiang6, Piu Chan1,2,4,5* - 1 Department of Neurobiology, 2 Department of Geriatrics, 3 Evidence-Based Medicine Center, 4 Department of Neurology, Beijing Institute of Geriatrics, Xuanwu Hospital of Capital Medical University, Beijing, China; - 5 Parkinson Disease Center of Beijing Institute for Brain Disorders, Key Laboratory on Neurodegenerative Disease of Ministry of Education, and Beijing Key Laboratory on Parkinson’s Disease, Beijing, China; - 6 Germ Inc., Beijing, China - This study is supported by grants from Ministry of Health (No. 201002011), Beijing Municipal Commission of Science and Technology (D07050701130701), Ministry of Science and Technology (2012AA02A514, 2011CB504101) *Corresponding Author: Piu Chan.

P182 • Prevalence of sarcopenia among community-dwelling elderly of a medium-sized South American city: results of the COMO VAI?
Thiago Gonzalez Barbosa-Silva, MD, MS, Post-Graduation Program in Epidemiology, Federal University of Pelotas (UFPe), Pelotas, Brazil. Co-authors & affiliations: Renata Moraes Bielemann, MS, PhD (1); Ana Maria Baptista Menezes, MD, MS, PhD (1); Maria Cristina Gonzalez, MD, MS, PhD (2,3). (1) Post-Graduation Program in Epidemiology, Federal University of Pelotas (UFPe), Pelotas, Brazil. (2) Post-Graduation Program in Health and Behavior; Catholic University of Pelotas (UCPe), Pelotas, Brazil. (3) Post-Graduation Program in Nutrition, Federal University of Pelotas (UFPe), Pelotas, Brazil.

P183 • Comfortable and maximal gait speed: reference values of Chinese seniors living in community and relevant factors
Li Cao, MD1, Shan Hai, MD1, Hui Wang, MD1, Ping Lu2, Ling Zeng, GP (general practitioner)3, Birong Dong, MD1. 1) Center of Gerontology and Geriatrics, West China hospital, Sichuan University, China 2) West China School of Medicine, Sichuan University, China 3) Yun Lin Center of Community Health Service, Chengdu City, China
P215 • Depression in elderly as independent risk factor of performance measures to develop incident disability and frailty. The Toledo Study Healthy Ageing
Claudio Palumbo MD (1), Jose Antonio Carrero, PhD (2,3), Verónica Calderón Suárez, MD (1), Cristina Alonso-Bouzón, MD (1), Francisco J. García-García, MD (1), Lecadío Rodríguez-Mañas, MD, PhD (1), 1 - Geriatric Department. Hospital Universitario de Getafe, Madrid (Spain). - 2 - Fundación para la Investigación Biomédica. Hospital Universitario de Getafe, Madrid (Spain). - 3 - Geriatric Department. Hospital Virgen del Valle. Complejo Hospitalario de Toledo, Toledo (Spain).

P216 • Sarcopenia is a biomarker of frailty and predicts adverse outcome in the surgical intensive care unit
Noemi Mueller (1), Sushila Murthy MD, MPH (1), Christopher Tainter MD (1), Jarone Lee MD (2), Kathleen Richard MD (1), Florian Frimmel MD (3), Stephanie Grabitz (1), Benjamin Levy MD (1, 4), and Matthias Eikermann MD, PhD (1, 5) - 1 - Department of Anaesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital and Harvard Medical School, Boston, MA, USA. - 2 - Department of Surgery, Trauma, Emergency Surgery, Surgical Critical Care, Massachusetts General Hospital and Harvard Medical School, Boston, MA, USA. - 3 - Harvard Medical School, Boston, MA, USA. - 5 Department of Anaesthesia and Critical Care Medicine, University Hospital Essen, University Duisburg-Essen, Essen, Germany.

P217 • Risk factors of frailty and incident disability: cognitive status and performance measures. The Toledo Study Healthy Ageing
Verónica Calderón Suárez MD (1); Jose Antonio Carrero MD (2,3); Claudio Palumbo MD (1); Cristina Alonso-Bouzón, MD (1); Francisco J. García-García, MD (1); Lecadío Rodríguez-Mañas, MD, PhD (1,2); 1 - Geriatric Department. Hospital Universitario de Getafe. Madrid (Spain). - 2 - Fundación para la Investigación Biomédica. Hospital Universitario de Getafe. Madrid (Spain). - 3 - Geriatric Department. Hospital Virgen del Valle. Complejo Hospitalario de Toledo, Toledo (Spain).

P218 • Does the Asian Working Group’s consensus definition for sarcopenia effectively characterize seniors with low levels of physical performance?
Armi Firth ML PHD (1,2), Brian C. Clark, PhD1, Suzana Shahr1, PhD3, Zarida Marshal, PhD3, Divinder Kaur Aij1, PhD3, Liu Hui Jin, BSc2, Vic Loo Hui, BSc2 (1) - 1 Ohio Musculoskeletal and Neurological Institute. Ohio University, OH, USA. - 2 BiobMedical Science Program. School of Diagnostic and Applied Health Sciences. Faculty of Health Sciences. Universiti Kebangsaan Malaysia. Malaysia. (3) Dietetic Program, School of Healthcare Sciences, Faculty of Health Sciences. Universiti Kebangsaan Malaysia, Malaysia. (5) Nutrition Science Program. School of Healthcare Sciences, Faculty of Health Sciences. Universiti Kebangsaan Malaysia, Malaysia.

P219 • Prevalence and agreement of different operational diagnostic criteria for sarcopenia in a homogeneous cohort of 68-year-old subjects
Andrea Trombett, M.D., Meliani Han, PhD, Emanuel Bae, MD, PhD, Thierry Chevaley, MD, Serge Ferrato, MD; René Rizzoli, MD - Division of Bone Diseases, Geneva University Hospitals and Faculty of Medicine, Geneva, Switzerland.

P220 • Skeletal muscle mass and fracture risk in 65-year-old healthy community-dwellers
Andrea Trombett MD, Meliani Han PhD, Emanuel Bae MD, PhD, Thierry Chevaley MD, Serge Ferrato MD, René Rizzoli MD - Division of Bone Diseases, Geneva University Hospitals and Faculty of Medicine, Geneva, Switzerland.

P221 • Can excitatory brain stimulation enhance exercise capacity in older adults?
Kentarou Oki PhD (1), Naotaka K. Mahato MBBS (1), Shinichi Amaro PhD (2), Masato Nakazawa PhD (3), Brian C. Clark PhD (1) - The Ohio Musculoskeletal & Neurological Institute at Ohio University (2) Clinical & Translational Research Unit at Ohio University - (3) Ohio University Heritage College of Osteopathic Medicine Office of Research & Grants

P222 • “Sarcopenia in Older Patients with Cancer: A Comparison Between Image-based Analytic and Patient Reported Outcomes”
Breton N. Roussel MBS, Robert Wood Johnson Medical School, Rutgers University, New Brunswick, NJ - Co-Authors and Affiliation: Brad Hensley, MD MBA, Department of Surgery, University of Rochester Medical Center, Rochester, NY - Christian Pandya MD MPH, Department of Public Health Sciences, University of Rochester Medical Center, Rochester, NY - Allison M. Magnuson DO, Department of Medicine, Hematology/Oncology, University of Rochester Medical Center, Rochester, NY - Supriya S. Mohile, MD MS, Department of Medicine, Hematology/Oncology, University of Rochester Medical Center, Rochester, NY - Ferial J. Fleming, MD FRCS, Department of Surgery, Colorectal Surgery, University of Rochester Medical Center, Rochester, NY.

P223 • Cross-sectional relationship between respiratory and muscular function in older male Taiwanese with chronic obstructive pulmonary disease
Kuan-Yuan Zhang MD, PhD. 1,2,3, Ming-Shyan Huang, MD. 1,2,3, Nicholas Molloy, PhD. 1 - Division of Geriatrics and Gerontology, (2) Division of Chest Medicine, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan. Co-author: Ming-Shyan Huang, MD, PhD. Division of Geriatrics and Gerontology, Kaohsiung Medial University Hospital, Kaohsiung, Taiwan.

P224 • Psychological associated factors and transitions between frailty states: results from an elderly Mexican cohort.
Liliana Ruiz-Arregui PhD (1), (1) Instituto Nacional de Ciencias Médicas y Nutrición “Salvador Zubirán”, México. - (2) Facultad de Medicina, Universidad Nacional Autónoma de México. - (3) Instituto Nacional de Geriatría, México.

P225 • Hematopoietic Stem Cell Transplantation in the elderly: nutritional and geriatric assessment
Perera, AZ(1); Rodriguez PM (1); Koch LO (1); Novacov, SMF (2); Luco, F (2); Tanaka, M (2); Barrene, AP (2); Bernardo JS (2); Nicoasto M (2); Hernachslak, N (1) - (1) Hematology-Oncology and Bone Marrow Transplantation Center of Albert Einstein Hospital, São Paulo, Brazil - (2) Nutrition Department of Albert Einstein Hospital, São Paulo, Brazil.

P226 • Effect of age on performance in cohort mice
Norris Philippe L (1,2), PhD, Djemai Hadid (1,2), PhD student, Remi Thomason (1,2), PhD, Desgorges Francois (1,2), PhD, Toussaint Jean-François (1), MD, PhD, Denis Raphaël (3), PhD - (1, 2) Institut de Recherche bioMédicale et de Epidemiology of the Sport (IRBESS), Institut National du Sport de l'Expertise et de la Performance (INSEP), Paris, France - (3) EA732, UFR ST APS, Université Paris Descartes, Sorbonne Paris Cité, France - (3) Unité de Biologie fonctionnelle et Adaptative - CNRS UMR 8251, Université Paris Diderot, Sorbonne Paris Cité, France.

P227 • Comparison of body composition, muscle force and physical performances between fallers and non-fallers people included in a cohort of 100 community dwelling volunteers.
S. Gillain Geniatrician, MD, PhD student, Geriatric Department, University Hospital of Liège, Belgium.

P228 • Clinical determinant components of the FAST walking speed in a cohort of 100 community dwelling volunteers included in a two-year longitudinal study
S. Gillain, Geniatrician, MD, PhD student, Geriatric Department, University Hospital of Liège, Belgium.

P229 • Twelve weeks of uncomplicated resistance training increases lean body mass and reduces markers of muscle atrophy in older adults
Brendan Logan PhD 1,2, Domenico Cannella, PhD1, Marco Krause, PhD3, Karl Coogan, MSc1, Prof. Philip Nevitt, PhD4, Prof Guiseppe De Vita, MD, PhD1,2. - 1 - Institute for Sport & Health, 2 Institute of Exercise & Health Sciences, School of Public Health, Physiotherapy and Population Science, University College Dublin, Ireland. - 2 - Department of Physiotherapy, Institute of Basic Health Sciences, Federal University of Rio Grande do Sul, Brazil. - 3 - CHIRI Biosciences Research Prechnt, School of Biomedical Sciences, Curtin University, Australia.

P230 • A mature human skeletal muscle model to detect hypertrophic compounds by high content screening

P231 • Hyperinsulinemia is associated with the loss of appendicular skeletal muscle in older adults
Mireia Lopez-Teros Instituto Nacional de Geriatría La Magdalena Conteras, 10200 Distrito federal.

P232 • Normal gait speed, grip strength and thirty second chair rising among older Indians.
Prashun Chatterjee M.D (Geriatric Medicine), Department of Geriatric Medicine, All India Institute of Medical Sciences, New Delhi. - Co-author: Venugopalan G, Avnish Chakravarty M.D (Internal Medicine), Department of Geriatric Medicine, All India Institute of Medical Sciences, New Delhi.

P233 • Endothelial dysfunction, evaluated by ADMA, predicts disability. The Toledo Study Healthy Ageing
Cristina Alonso-Bouzón MD, Jose Antonio Carrero, PhD 2,3; Mariam El Asadi PhD 2, Francisco J. García-García, MD (1); Lecadío Rodríguez-Mañas, MD, PhD 1,2, 1 - Geriatric Department. Hospital Universitario de Getafe. Madrid (Spain). 2 - Fundación para la Investigación Biomédica. Hospital Universitario de Getafe. Madrid. Spain. 3 - Geriatric Department. Hospital Virgen del Valle. Complejo Hospitalario de Toledo, Toledo (Spain).
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