

PRELIMINARY PROGRAM

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

A CALL FOR LATE BREAKING NEWS IS EXPECTED FROM 2-16 FEBRUARY 2015

Tufts
UNIVERSITY

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

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Program • Thursday 23rd April 2015

8:30/9:00am	Welcome by the Organizing Committee <i>Roger Fielding, Shalender Bhasin, Irwin Rosenberg (Boston, USA), Matteo Cesari, Bruno Vellas (Toulouse, France)</i>
9:00/9:30am	KEYNOTE: DRUG TRIAL DESIGN FOR SARCOPENIA <i>Shalender BHASIN (Boston, USA)</i>
9:30/11:00am	ORAL COMMUNICATIONS: <i>Chaired by Roger Fielding (Boston, USA), Bruno Vellas (Toulouse, France)</i>
9:30am	OC1 • Frailty in the context of older people centred and integrated care <i>I. Araujo, Senior Advisor, Department of Ageing and Life Course (World Health Organization)</i>
9:45am	OC2 • EMA (European Medicines Agency) Points to consider on frailty <i>Francesca Cerreta (London - UK)</i>
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) <i>Roger A. Fielding, PhD(1) - (1)Nutrition, Exercise Physiology and Sarcopenia Laboratory, Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University, Boston, MA</i>
10:15am	OC4 • Phase 2 Randomized Study of Myostatin Antibody LY2495655 Versus Placebo in Older Patients Undergoing Elective Total Hip Arthroplasty (eTHA) <i>L Woodhouse, PhD(1) - (1)University of Alberta, Canada</i>
10:30am	OC5 • Fish oil derived n-3 polyunsaturated fatty acid therapy increases muscle mass and function in older adults <i>G I. Smith PhD (1) - (1)Center for Human Nutrition, Washington University School of Medicine, St. Louis, USA</i>
10:45am	OC6 • A community-based, technology-supported service model for detecting and preventing frailty <i>Lex van Velsen, PhD (1) - (1)Roessingh Research and Development, Telemedicine cluster, Enschede, the Netherlands</i>
11:00/11:30am	COFFEE BREAK AND POSTERS
11:30/12:30am	SYMPOSIUM 1: ESTABLISHING AN ICD-10 CODE FOR DIAGNOSING SARCOPENIC PATIENTS <i>Cynthia A. Bens, Alliance for Aging Research (Washington, DC, USA)</i>
12:30/1:00pm	KEYNOTE: BIOLOGICAL ASPECTS OF AGING AND FRAILTY <i>Jeremy Walston (Baltimore, USA)</i>
1:00/2:00pm	LUNCH BREAK AND POSTERS
PARALLEL SESSIONS • BALLROOM 1	
2:00/2:30pm	KEYNOTE: DEFINITION OF SARCOPENIA <i>Stephanie Studenski (Baltimore, USA)</i>
2:30/3:30pm	SYMPOSIUM 2: HOW TO IMPLEMENT FRAILTY, FALLS PREVENTION AND SARCOPENIA INTO CLINICAL PRACTICE <i>Chaired by Shalender Bhasin (Boston, USA) - Bruno Vellas (Toulouse, France)</i>
2:30pm	• How to implement frailty into clinical practice the Gerontopole experience in 2015 <i>Bruno Vellas (Toulouse, France)</i>
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 <i>Roberto Bernabei (Rome, Italy)</i>
3:10pm	• How to implement Falls Prevention: what we know and what we will learn from the STRIDE trial <i>Shalender Bhasin, Harvard Medical School (Boston, USA)</i>
3:30/4:30pm	SYMPOSIUM 3: CURRENT DEVELOPMENTS IN THE TREATMENT OF SARCOPENIA: PHARMACOTHERAPY AND NOVEL TRIAL OUTCOMES: <i>Chaired by Daniel Rooks, PhD, Translational Medicine, Novartis Institutes of BioMedical Research, Cambridge, MA, USA</i>
3:30pm	• New Treatments for Muscle Wasting: An Update on Bimagrumab and other Treatments <i>Ronenn Roubenoff, MD, MHS, Translational Medicine, Novartis Institutes of BioMedical Research, Basel, Switzerland; Dimitris Papanicolaou, MD, PhD, Novartis Pharmaceuticals, East Hanover, NJ.</i>
3:50pm	• Emerging technologies to measure physical activity and falls in sarcopenia trials <i>Joerg Goldhahn, MD, Translational Medicine, Novartis Institutes of BioMedical Research, Basel, Switzerland</i>
4:10pm	• Effect of bimagrumab (BYM338) on skeletal muscle mass and physical function in older adults with and without sarcopenia <i>Daniel Rooks, PhD, Translational Medicine, Novartis Institutes of BioMedical Research, Cambridge, MA, USA</i>
4:30/5:00pm	COFFEE BREAK AND POSTERS
5:00/5:30pm	KEYNOTE: FRAILTY INTERVENTION: WHAT WE HAVE LEARNED FROM THE LIFE TRIAL <i>Marco PAHOR (Gainesville, USA)</i>
5:30/6:30pm	SYMPOSIUM 4: DIABETES AS A CAUSE OF ACCELERATED FRAILTY AND SARCOPENIA: MECHANISMS AND DIAGNOSIS <i>Chaired by John Morley (St Louis, USA) - Leocadio Rodriguez Manas (Madrid, Spain)</i>
5:30pm	• Diabetes accelerates frailty and sarcopenia <i>John Morley (St Louis, USA)</i>
5:50pm	• Diabetes as a model of pre-disability: preventing further functional decline and optimising neuro-muscular and vascular function <i>Alan Sinclair (Luton, UK)</i>
6:10pm	• MID-FRAIL, a different approach to the older adults with diabetes <i>Leocadio Rodriguez Manas (Madrid, Spain)</i>
6:30/7:00pm	ORAL COMMUNICATIONS:
6:30pm	OC7 • Mobile Accelerometry: A "Swiss Army Knife" for Aging Research <i>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) TUM Technical University of Munich (Germany)</i>
6:45pm	OC8 • Frailty more than multimorbidity was predictive of mortality among sarcopenic older persons aged 80 years and older <i>Matteo Tosato, MD, (1) - (1) Department of Geriatrics, Neurosciences and Orthopedics, Catholic University of the Sacred Heart, Rome (Italy)</i>

Program • Thursday 23rd April 2015

PARALLEL SESSIONS • BALLROOM 2

2:00/3:00pm

SYMPOSIUM 5: REDUCING FRAILITY IN OLDER PEOPLE: A MULTIFACTORIAL INTERDISCIPLINARY INTERVENTION

INTERVENTION DESCRIPTION, RESULTS OF RANDOMIZED TRIAL AND ECONOMIC ANALYSIS

Chaired by I Cameron, MBBS PhD, University of Sydney (Australia)

• **The Frailty Intervention Trial intervention**

K Lockwood, BHSc, University of Sydney - I Cameron MBBS PhD, N Fairhall PhD, S Kurrle MBBS PhD, S Lord PhD, C Sherrington PhD, University of Sydney and University of New South Wales (Australia)

• **Results of the Frailty Intervention Trial**

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)

• **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

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 Freiburger Associated Prof. PhD Institute for Biomedicine of Aging, Friedrich-Alexander-Universität [FAU] Erlangen-Nürnberg/Germany for Biomedicine of Aging 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, PT, 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 München (LMU), Medizinische Klinik und Poliklinik IV, Ziemssenstrasse 1, 80336 München, Germany

4:00pm

OC13 • An innovative study design to evaluate a technology-supported health service to prevent frailty

Stephanie Jansen-Kosterink, 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

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, University of Rome Tor Vergata, Policlinico Tor Vergata Foundation, 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 Aartolahti (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

6:00/7:00pm

SYMPOSIUM 6: FRAILITY ACROSS ALL AGES

Chaired by J A Ávila-Funes (Mexico City, México)

6:00pm

• **A frailty index that fits across all ages**

MU Pérez-Zepeda, (Mexico City, México)

6:20pm

• **Failure to thrive in newborns and maternal health by the frailty index**

C García-Peña, MD, PhD2 (Mexico City, México)

6:40pm

• **Associations of socioeconomic determinants with the frailty index in different age groups**

LM Gutiérrez-Robledo (Mexico City, México)

Program • Friday 24th April 2015

PARALLEL SESSIONS • BALLROOM 1

8:00/9:00am ORAL COMMUNICATIONS

8:00am **OC20 • Phase 2 Trial of Myostatin Antibody LY2495655 in Older People with Recent Falls and Low Muscle Strength**

Rolland Y (1) - (1)Gérontopôle de Toulouse, Centre Hospitalo-Universitaire de Toulouse, and INSERM 1027, Toulouse, France

8:15am **OC21 • Hypoenergetic diet-induced reductions in myofibrillar protein synthesis are rescued by resistance training and balanced daily protein ingestion in older men**

Caoileann H Murphy(1) - (1)Department of Kinesiology, McMaster University, Canada

8:30am **OC22 • Development of a self-administrated quality of life questionnaire specific to sarcopenia in elderly aged 65 years and older: the SarQoL.**

C. Beaudart, J.-Y. Reginster, R. Rizzoli, Y. Rolland, I. Bautmans, E. Biver, J. Petermans, S. Gillain, J. Van Beveren, M. Jacquemain, P. Italiano, N. Dardenne, O. Bruyère.

8:45am **OC23 • Effects of a vitamin D and leucine-enriched whey protein oral nutrition supplement on measures of sarcopenia in older adults - The PROVIDE study: a randomized, double-blind, placebo-controlled trial**

Sjors Verlaan, MSc(1) - (2)(2) Nutricia Research, Nutricia Advanced Medical Nutrition, Utrecht, The Netherlands

9:00/10:00am **SYMPOSIUM 7: FRAILTY, FALLS, AND FRACTURES: COMMON PATHOPHYSIOLOGY AND THERAPEUTIC APPROACH**

Chaired 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**

J GURALNIK (Baltimore, USA)

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

11:00/12:00am ORAL COMMUNICATIONS

11:00am **OC24 • Frailty and the use of acute medical services**

Despina Constantin, PhD1, On behalf of Neil D. Dattani, MD from Toronto University, Canada, MJ Sirois, PhD, The Canadian Emergency Team Initiative, Université Laval and Centre de recherche du CHU de Québec, Canada - Vanessa Fillion, 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 **OC25 • 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

11:30am **OC26 • Personalized physiotherapy in frail older adults with mobility problems is (cost)-effective in improving physical activity and frailty: a randomized controlled trial:**

N de Vries(1) - (1)Scientific Institute for Quality of Healthcare, adboud University Medical Center, Nijmegen, The Netherlands

11:45am **OC27 • Diffusion Tensor MRI of Quadriceps Musculature 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)

12:00/12:30am **LATE BREAKING NEWS (2)**

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

PARALLEL SESSIONS • BALLROOM 2

8:00/9:00am ORAL COMMUNICATIONS

8:00am **OC28 • Derivation of a Frailty Index from the interRAI Acute Care Instrument**

Ruth E Hubbard(1) - (1)Centre for Research in Geriatric Medicine, The University of Queensland, Brisbane, Queensland, Australia

8:15am **OC29 • Sarcopenia coexisting with Alzheimer's disease and amnesic 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 **OC30 • Feasibility and Reliability of Psoas Muscle Area As A Novel Measure for Sarcopenia and Frailty in Patients Undergoing Transcatheter Aortic Valve Implantation**

Jonathan Afilalo 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 **OC31 • Frailty transitions over 12-month period in relation to cognitive statuts in community-dwelling older adults with cognitive impairment attending a Tertiary Memory Clinic**

MEI Sian Chong, MBBS, FRCP(EDIN)(1,2) - (1) Cognition and Memory Disorders service. Department of Geriatrics Medecine. Tan Tock Seng Hospital, Singapore. (2) Institut of Geriatrics and Active Ageing. Tan Tock Seng Hospital, Singapore

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

Chaired 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

Kenneth Rockwood, Halifax Nova Scotia, Joseph Margolick, Johns Hopkins, Amy Justice, Yale, Deborah Gustafson, Monty Montano, Paola Sebastiani, Boston University, Kim Erlandson, University of Colorado, KrisAnn Oursler, Veterans Administration (USA)

10:00/10:30am ORAL COMMUNICATIONS

10:00am **OC32 • The Changes of Lower Muscular Mass, Weakness and Physical Performance in Robust and Pre-frail outpatient Older Adults**

Tsai-Chun Chen, MS(1) - (1) School and Graduate Institute of Physical Therapy, National Taiwan University College of Medicine, Taipei, Taiwan

10:15am **OC33 • Age-related decline in skeletal muscle mass and function among elderly men and women in Shanghai, China - A cross sectional study**

Jianqin Sun MD(1, 2, 3) - (1)Clinical Nutrition Center, Fudan University Affiliated Hua Dong Hospital, Shanghai, China. - (2) Shanghai Key Laboratory of Clinical Geriatric Medicine, Shanghai, China. - (3) Research Center on Aging and Medicine, Fudan University, Shanghai, China. -

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

Program • Friday 24th April 2015

11:00/12:30am ORAL COMMUNICATIONS

- 11:00am **OC34 • Muscle mRNA expression signatures in wasted and non-wasted COPD patients at rest and 24 hr after resistance exercise**
Despina Constantin, 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 **OC35 • Trunk Muscle Composition 2 Months After Hip Fracture: The Baltimore Hip Studies**
Gregory E. Hicks, PT, PhD(1) - (1)(1) Department of Physical Therapy, University of Delaware, Newark, DE, USA
- 11:30am **OC36 • Prevalence of Low Lean Mass in the USA using the FNIH Sarcopenia Project Cutpoints: Effect of Age**
John A. Batsis MD (1,2,3) - (1) Geisel School of Medicine at Dartmouth, Hanover, New Hampshire, United States - (2) Department of Medicine, Dartmouth itchcock Medical Center, Lebanon, New Hampshire, United States - (3) The Dartmouth Institute for Health Policy, Lebanon, New Hampshire, United States
- 11:45am **OC37 • Frailty Phenotype is Associated with Declines in Muscle Mass, Performance, Quality and Integrity, with Suggestion of Compensatory Hypertrophy**
George A Kuchel, MD(1) - (1) University of Connecticut Health Center, Farmington, CT
- 12:00am **OC38 • Novel Serum Biomarkers that Predict Sarcopenia in Older Malnourished Men**
Suzette L Pereira, PhD(1) - (1) Abbott Nutrition, Columbus, OH, USA
- 12:15am **OC39 • Influence of gender and high-fat feeding on the development of sarcopenia in the aging rat**
Robert Kob, PhD(1) - (1) Institute for Biomedicine of Aging, Friedrich-Alexander-Universität Erlangen-Nürnberg, Nürnberg, Germany

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

PARALLEL SESSIONS • BALLROOM 1

1:30/2:30pm **SYMPOSIUM 9: PHYSICAL FRAILITY AND SARCOPENIA: BACKGROUND, RATIONALE, AND DESIGN OF THE SPRINT T PROJECT**

- Chaired by R Bernabei, MD, PhD - Department of Geriatrics, Orthopedics, and Neurosciences of the Università Cattolica del Sacro Cuore; Rome (Italy)*
- 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 ORAL COMMUNICATIONS

- 2:30pm **OC40 • Genome-wide association analysis of frailty measures in two representative cohorts in the US and the UK**
Krisztina Mekli, PhD(1) - (1) Frailty Resilience and Inequalities in Later Life project, CMIST, University of Manchester, United Kingdom
- 2:45pm **OC41 • Muscle protein fractional synthesis rates predicts muscle mass gain in response to a oral selective androgen receptor modulator**
Mahalakshmi Shankaran(1) - (1) KineMed, Inc., Emeryville, CA 94608, USA
- 3:00pm **OC42 • 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-Authors & Affiliations : Michaela C Devries PhD1, Leigh Breen PhD1,2 and Stuart M Phillips PhD1 (1) Department of Kinesiology, McMaster University, Hamilton, Canada
- 3:15pm **OC43 • 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

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

4:00/5:00pm **SYMPOSIUM 10: INTERSECTION AND DISTINCTION BETWEEN PHYSICAL FRAILITY AND COGNITIVE IMPAIRMENTS AMONG OLDER ADULTS**

- Chaired by Qian-Li Xue, PhD, Division of Geriatric Medicine and Gerontology, Department of Medicine/ Center on Aging and Health, Johns Hopkins University, Baltimore, Maryland (USA)*
- 4:00pm **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
- 4:20pm **Frailty and cognition: one syndrome?**
Karen Bandeen-Roche, PhD, Johns Hopkins Bloomberg School of Public Health Center on Aging and Health, Baltimore, Maryland, USA
Co-Authors & Affiliations : Alden Gross, PhD MHS2, Michelle Carlson, PhD2, Linda P. Fried, MD, MPH3, Judith D. Kasper, PhD2, Qian-Li Xue, PhD2 - (2) Johns Hopkins Bloomberg School of Public Health / Center on Aging and Health, Baltimore, Maryland, USA; (3) Mailman School of Public Health, Columbia University, New York, New York (USA)
- 4:40pm **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

5:00/6:40pm **SYMPOSIUM 11: MOLECULAR MECHANISMS OF SARCOPENIA**

- Chaired by P Valet, Inserm U1048 (Toulouse, France), M Cesari, Gérontopôle (Toulouse, France)*
- 5:00pm **Novel mechanisms regulating age-associated muscle atrophy**
S Lessard, Joslin Institute, Harvard Medical School (Boston, USA)
- 5:20pm **Apelin reverses age-induced skeletal muscle dysfunction**
C Dray, Toulouse University (Toulouse, France)
- 5:40pm **Muscle signaling mediating sarcopenia**
D Glass, Harvard Medical School (Boston, USA)
- 6:00pm **A Drosophila model for sarcopenia and myokine signaling**
F Demontis, St Jude Faculty (Memphis, USA)
- 6:20pm **MicroRNA in Skeletal Muscle: Potential Role in Sarcopenia**
DA. Rivas, Tufts University (Boston, USA)

Program • Friday 24th April 2015

PARALLEL SESSIONS • BALLROOM 2

1:30/2:30pm ORAL COMMUNICATIONS

1:30pm **OC44 • 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, FRCP(1) - (1) Division of Geriatric Medicine and Gerontology - Dept of Medicine, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, USA

1:45pm **OC45 • Circulating Myostatin Levels in Women and Men using a Novel Multiplexed Mass Spectrometry-based Assay**

Nathan K. LeBrasseur, 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, 55905 (USA)

2:00pm **OC46 • 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, United Kingdom
Marco V. Narici, PhD1, MRC ARUK Centre for Musculoskeletal Ageing Research, Faculty of Medicine, Derby, United Kingdom

2:15pm **OC47 • 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 Matsui, 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, PhD1 and Jane A. Kent, PhD2, (1) MRC ARUK Centre for Musculoskeletal Ageing Research, Faculty of Medicine, Derby, United Kingdom (2) Muscle Physiology Lab, Department of Kinesiology, Totman, University of Massachusetts (USA)

2:30pm **Muscle connective tissue changes with aging**

Michael Kjaer, PhD1, (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, PhD1, (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, PhD1, (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 Doehner, Charite, 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. Doehner, 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)

5:00/5:30pm ORAL COMMUNICATIONS

5:00pm **OC48 • 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 **OC49 • Do muscle strength and force development differ as a function of age?**

Charlotte H. Pion, 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.

5:30/6:30pm **LATE BREAKING NEWS (4)**

Program • Saturday 25th April 2015

PARALLEL SESSIONS • BALLROOM 1

8:00/9:00am ORAL COMMUNICATIONS

8:00am OC50 • Importance of the frailty syndrome for the aged cancer patient treatment

J. Leibovici (1) - (1) Dept. of Pathology, Sackler Faculty of Medicine, Tel-Aviv University (Israel)

8:15am OC51 • How Do Muscle Quality and Frailty Mediate and Moderate Pathways Leading to Fragility Fractures

Andy Kin On Wong , PhD(1) - (1) University Health Network, Osteoporosis Program, Toronto, ON (Canada)

8:30am OC52 • Sarcopenia predicts incident disability, institutionalisation and mortality in community dwelling older Men: The Concord Health and Ageing in Men Project

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.

8:45am OC53 • Physical Capability Predicts Mortality in Middle-Aged as well as Older Community-Based Adults

Victoria L Keevil, (1,2) - (1) The European Prospective Investigation of Cancer-Norfolk Study, Department of Public Health and Primary Care, University of Cambridge, Strangeways Research Laboratory, Worts Causeway, Cambridge, CB1 8RN, UK - (2) Specialist Registrar, Department of Medicine for Older People, Royal Bournemouth Hospital, Castle Lane East, Bournemouth, Dorset, BH7 7DW, UK

9:00/10:00am SYMPOSIUM 14: MUSCLE DISUSE AS A PIVOTAL PROBLEM IN SARCOPENIA-RELATED MUSCLE LOSS AND DYSFUNCTION

Chaired by S M. Phillips, Ph.D. McMaster University, Hamilton, ON (Canada)

9:00am Disuse and the concept of 'anabolic resistance' in protein metabolism

L van Loon, Ph.D. University of Maastricht, Maastricht (the Netherlands)

9:20am Catabolic crises in the elderly: the impact of disuse

D Paddon-Jones, Ph.D. University of Texas Medical Branch, Galveston, TX (USA)

9:40am Reduced physical activity as part of the disuse continuum

M Devries, Ph.D. McMaster University, Hamilton, ON, (Canada)

10:00/10:30am KEYNOTE: FRAILTY AND SARCOPENIA, TWO SIDES OF THE SAME COIN

M CESARI (Toulouse, France)

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

11:00/12:00am SYMPOSIUM 15: FRAILTY AND FALLS EVIDENCE AND GAPS

Chaired by C. Sieber Prof. Dr. & E Freiburger Associated Prof. PhD Institute for Biomedicine of Aging, Friedrich-Alexander (FAU) -Universität Erlangen-Nürnberg (Germany)

11:00am Frailty and Falls in TILDA: Do frailty indices differ when they are constructed using exclusively self-reported or test based measures?

Theou O(1) - (1) Post-doctoral Fellow, Dalhousie University, Rm 1313 Veterans' Memorial Bldg, 5955 Veterans' Memorial Lane, Halifax, Nova Scotia, B3H2E1, Canada Dublin 8 (Ireland)

11:20am Frailty and falls in the oldest old: LiLACS NZ

N Kerse(1) - (1) University of Auckland 261 MORRIN RD Auckland 1072 (New-Zealand)

11:40am Frailty and Falls in DEGS1. Findings from the German Health Interview and Examination Survey

J Fuchs, PhD(1) - (1) Robert Koch --Institute, Department of Epidemiology and Health Monitoring, Berlin

12:00/1:00pm LATE BREAKING NEWS (4)

PARALLEL SESSIONS • BALLROOM 2

8:00/8:30am LATE BREAKING NEWS (2)

8:30/10:30am ORAL COMMUNICATIONS

8:30am OC54 • Frailty markers were associated with entry into and less recovery from disability profiles in healthy community-dwelling older adults. The NuAge study

Michel Raïche, PhD (1) - (1) Research Centre on Ageing, CSSS-IUG of Sherbrooke, Québec, Canada-

8:45am OC55 • 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)

9:00am OC56 • 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)

9:15am OC57 • Frailty and Aging: an actual challenge

Roberto Carlos Castrejón-Pérez, PhD (1) - (1) Geriatric Epidemiologic and Clinical Research Department at Instituto Nacional de Geriatria, Mexico City, (México)

9:30am OC58 • The exercise-induced myokine apelin reverses age-related skeletal muscle weakness

Vinel C (1,2) (1) I2MC, InsermU1048, Toulouse - (2) Gérotopole, CHU Toulouse, Inserm U1027.-3 :University of Miami, Gainesville (USA)

9:45am OC59 • 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)

10:00am OC60 • 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

10:15am OC61 • Antihypertensive use and functional outcome events among older adults in the LIFE Study

Thomas W. Buford (1) - (1) University of Florida College of Medicine, Gainesville, FL (USA)

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

11:00/12:00am ORAL COMMUNICATIONS

11:00am OC62 • 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 OC63 • Association of Physical Impairments with FNIH Sarcopenia definitions of Clinical Weakness: Data from the Health & Retirement Survey

John A. Batsis (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)

Program • Saturday 25th April 2015

- 11:30am **OC64 • 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.
- 11:45am **OC65 • 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**
Koji Tsukasaki, M.D (1) - (1) Hospital, National Center for Geriatrics and Gerontology, Aichi, Japan
- 12:00/1:00pm **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 Committee, Autonomous University of Nuevo León, Monterrey, Nuevo León (Mexico)
- 12:00am **Correlation between muscle mass by bioelectrical impedance analysis, calf circumference and grip strength.**
*Karina Rodriguez-Quintanilla1, Ricardo Salinas-Martínez1-2, Xochitl Ortiz-Jiménez2, Carlos Quiñonez-Olivas1, *Luis Miranda-Plata1(1) Department of Geriatrics, "Dr. José Eleuterio González" University Hospital, (2) University Gerontological Committee, Autonomous University of Nuevo León (Mexico)*
- 12:20am **Skeletal Muscle Mass Index In A Geriatric Outpatient Population**
Karina Rodriguez Quintanilla MD1, Ricardo Salinas Martinez MD1,4, Guillermo Guajardo Alvarez MD1, Javier A. Davila Olalde MD1, David Vega Morales MD2, Pedro A. García Hernandez MD3, Mario A. Garza Elizondo MD2. - (1) Geriatrics Department - (2) Rheumatology Department (3) Endocrinology Department, "Dr. José Eleuterio González" University Hospital (4) University Gerontological Committee, Autonomous University of Nuevo León, Monterrey, Nuevo León (Mexico)
- 12:40am **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, MSc1; Mario Ulises Pérez-Zepeda, MD, MSc1; Luis Miguel Gutiérrez-Robledo, MD, PhD1 (1) Research Division at the Hospital Infantil de México, Mexico City (México)

Preliminary Program online
 with the 230 Posters

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