ICFSR 2018
International Conference on Frailty & Sarcopenia Research
International Academy Nutrition and Aging

March 1–3, 2018 • Miami Beach, FL USA

Meeting Place:
MIAMI BEACH RESORT AND SPA 4833 COLLINS AVENUE MIAMI BEACH, FLORIDA 33140 USA

8th EDITION

All abstracts and proceedings will be published in the Journal of Frailty and Aging (JFA) www.jfrailtyaging.com

www.icfsr.com
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<tr>
<th>Time</th>
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<th>Details</th>
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<tr>
<td>9:00/9:30am</td>
<td>Welcome</td>
<td>Jorge Ruiz (Miami, USA), Roger Fielding (Boston, USA), Marco Pahor (Gainesville, USA), Bruno Vellas (Toulouse, France)</td>
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<td>Presentation of the ICFSR Lifetime Achievement Award:</td>
<td>Linda Fried (Columbia University New York, NY, USA)</td>
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<td>9:30/10:00am</td>
<td>KEYNOTE 1: Moderator: Bruno Vellas (Toulouse, France) Frailty: What’s been done and what needs doing</td>
<td>Linda Fried Columbia University New York, NY, USA</td>
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<td>10:00/10:30am</td>
<td>KEYNOTE 2: Moderator: Roger Fielding (Boston, USA) Muscle cell regenerative capacity and aging</td>
<td>Charlotte A. Peterson University of Kentucky Lexington, KY, USA</td>
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<td>10:30-11:00am</td>
<td>COFFEE BREAK</td>
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<td>11:00/12:00am</td>
<td>SYMPOSIUM 1</td>
<td>The enabling Reduction of low-grade inflammation in seniors (ENRGISE) pilot trial to avert inflammation, mobility loss, and frailty: early results</td>
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<td>The design and rationale of the ENRGISE study</td>
<td>Marco Pahor, MD, Department of Aging and Geriatric Research, University of Florida, Gainesville, FL, USA</td>
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<td>The ENRGISE pilot study: screening, recruitment and retention preliminary results</td>
<td>Jane Cauley, DrPH Department of Epidemiology, University of Pittsburgh, Pittsburgh, PA, USA</td>
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<td>The relationship between IL-6 levels and physical function in older adults with chronic low-grade inflammation</td>
<td>Carlo Custodero, MD Department of Aging and Geriatric Research, University of Florida, Gainesville, FL, USA</td>
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<td>12:00/12:30am</td>
<td>KEYNOTE 3: Moderator: Bruno Vellas (Toulouse, France) Stems cells for frailty: rational, biological and clinical impact</td>
<td>Joshua M. Hare, MD Longeveron LLC, Miami, FL USA</td>
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<td>12:30/1:30pm</td>
<td>LUNCH BREAK</td>
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<td>1:30/ 2:30pm</td>
<td>SYMPOSIUM 2</td>
<td>Frailty research at the veterans affairs GRECCs (Geriatric Research Education and Clinical Center)</td>
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<td>An automated cumulative deficit index to identify frailty in the VA</td>
<td>Jane Driver, MD - New England GRECC, Brigham and Women’s Hospital and Harvard Medical School, Boston, Massachusetts, USA</td>
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<td>Metformin: a potential intervention for preventing frailty in older adults with pre-diabetes.</td>
<td>Sara E. Espinoza, M.D., M.Sc., AGSF - San Antonio GRECC and Barshop Institute for Longevity and Aging Studies, University of Texas Health Science Center at San Antonio, Texas, USA</td>
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<td>Physical resilience and frailty</td>
<td>Heather E. Whitson, MD, MHS Durham VA GRECC, and Duke University Aging Center, Duke University School of Medicine, Durham, North Carolina, USA</td>
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<td>2:30/3:30pm</td>
<td>ORAL COMMUNICATIONS</td>
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<td>2:30pm</td>
<td>OC 1: The relationship between T-cell responses to cytomegalovirus (CMV) and onset of frailty in HIV- and IV+ men in the Multicenter AIDS Cohort Study (MACS)</td>
<td>Marplick JB - Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health Bream JH- Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health Nilles TL- Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health Li H- Division of Geriatric Medicine and Gerontology, Department of Medicine, Johns Hopkins School of Medicine Langan SL- Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health Deng S- Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health Wang R- Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health Wada N- Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health Leng SX- Division of Geriatric Medicine and Gerontology, Department of Medicine, Johns Hopkins School of Medicine</td>
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<td>2:45pm</td>
<td>OC 2: Manual (stopwatch) and instrumental (gaitrite) evaluation of 4-meter preferred walking speed in older subjects with physical frailty</td>
<td>Marcello Maggio (Clinic Geriatric Unit Department of Medicine and Surgery, University of Parma), Yari Longobucco, Valentina Angileri, Sara Tagliaferri (Department of Medicine and Surgery, University of Parma), Fulvio Lauretani (Department of Medicine and Surgery, University of Parma)</td>
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3:00pm **OC 3**: Frailty and multimorbidity: a systematic review and meta-analysis
Davide L Vetrano, MD 1,2, Katie Palmer, PhD 2, Alessandra Marescogni, MD, PhD 4, Emanuele Marzetti, MD, PhD 2, Fabrizia Lattanzio, MD, PhD 5, Regina Roller-Winsberger, MD, MME 6, Luz Lopez Sanamango, PhD 7, Leocadio Rodriguez-Mañas, MD, PhD 8, Roberto Remabi, MD 2, and Graziano Onder, MD, PhD 2 on behalf of the Joint Action ADVANCE WP4 group. 1 Aging Research Center, Department of Neurobiology, Health Care Sciences and Society, Karolinska Institutet and Stockholm University, Stockholm, Sweden 2 Department of Geriatrics, Catholic University of Rome, Italy 3 San Camillo Hospital IRCCS, Venice, Italy 4 Department of Clinical and Experimental Sciences, University of Brescia, Italy 5 Scientific Direction, Italian National Research Centre on Aging, Ancona, Italy 6 Department of Internal Medicine, Medical University of Graz, Austria 7 Andalusian Public Foundation of Progress and Health, Regional Ministry of Health of Andalucia, Spain 8 Geriatric Department, Hospital Universitario de Getafe, Madrid, Spain

3:15pm **OC 4**: Innovating Animal Models of Frailty: Frailty Index and Mortality in Pet Dogs with Exceptional Longevity
David J. Waters, DVM, PhD 1,2, Emily Chiang, PhD 2, Chen Suckow RN 2, Aimee Maras, DVM 2 1 Center on Aging, Aging Research Center, Department of Geriatrics, Catholic University of Rome, Italy 3 San Camillo Hospital IRCCS, Venice, Italy 4 Department of Clinical and Experimental Sciences, University of Brescia, Italy 5 Scientific Direction, Italian National Research Centre on Aging, Ancona, Italy 6 Department of Internal Medicine, Medical University of Graz, Austria 7 Andalusian Public Foundation of Progress and Health, Regional Ministry of Health of Andalucia, Spain 8 Geriatric Department, Hospital Universitario de Getafe, Madrid, Spain

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

4:00/5:00pm **SYMPOSIUM 3**
WHO-ESCEO Symposium: “Assessment of Physical Performance in daily clinical practice: Outcomes of an Experts’ consensus meeting organized by the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO) under the auspices of the World Health Organization”
Moderators: Islene Araujo de Carvalho - René Rizzoli (Switzerland)
- Welcome: Jean-Yves Reginster (Belgium)
- Scope of the problem: Cyrus Cooper (UK)
- Recommendations for the standardization of the assessment of physical performance: Alfonso Cruz Jentoft (Spain)
- Recommendations for the standardization of the assessment of muscle strength and power: Jürgen Bauer (Germany)
- Discussion leader: Jean-Marc Kaufman
- Conclusion: Olivier Bruyère (Belgium)

5:00/6:00pm **INDUSTRY SYMPOSIUM** (see p23) Followed by a cocktail with light snacks

**BALLROOM 2 • SARCOPENIA**

11:00/12:00am **SYMPOSIUM 4**
The critical role of periodic inactivity and muscle disuse in worsening sarcopenia and hastening disability and frailty
Moderator: Stuart Philips, PhD, department of kinesiology McMaster University Hamilton Canada
- Mechanisms of muscle loss in older persons during disuse and their consequences: Luc J.C. Van Loon Department of Human Biology NUTRIM School of Nutrition and Translational Research in Metabolism Maastricht, the Netherlands
- Therapeutic Intervention and strategies to alleviate loss and promote recovery: Douglas Paddon-Jones Department of Nutrition and Metabolism, The University of Texas Medical Branch Galveston USA
- Reduced activity accelerates sarcopenia and leads to metabolic dysfunction in aging: Chris McGlory Department of kinesiology, McMaster University Hamilton Canada

12:00/12:30 am **ORAL COMMUNICATIONS**
Moderators: Samuel Mamane (Montreal, Canada) - Charlotte A.Peterson (Lexington, USA)

12:00am **OC 5**: Blockade of GDF8 and activin a lead to Increases in thigh muscle volume in healthy postmenopausal women: a single ascending dose study
Stephen Donańah, Shazia Ali, Dinko Gonzalez Trotter, Zhizhi Qing, Joseph Yen, Evelyn Gasparino, Pretty Meier, Marcella Ruddy, and Gary Herman, Regeneron Pharmaceuticals, Inc., Tarrytown, NY USA

12:15am **OC 6**: Psoas muscle area in healthy adults: effect of normal aging and derivation of reference values
Samuel Mamane MD MSc (1), Christos Galatas MD (2), Wayne Lok (3), Mina Girgis MD (2), Chams Cherid (3), Louis Mullie MD (1), Amanda Trnkus MSc (3), Antonette Colacino (4), Xiaoqing Xue MSc (4), Marc-Afflalo MD (4), Jonathan Afflalo MD MSc (2,3): (1) Division of General Internal Medicine, Jewish General Hospital, McGill University, Montreal, Canada (2) Division of Cardiology, Jewish General Hospital, McGill University, Montreal, Canada (3) Division of Epidemiology, Jewish General Hospital, Montreal, Canada (4) Department of Emergency Medicine, Jewish General Hospital, Montreal, Canada

12:30/1:00pm **LUNCH BREAK**

1:30/3:00pm **ORAL COMMUNICATIONS**
Moderators: Yves Rolland (Toulouse, France) - Kate Duchowny (Ann Arbor, MI USA)

1:30pm **OC 7**: Effects of fast versus slow weight loss on body composition in postmenopausal women with obesity
Radhika V. Siemens, PhD1, Alice A Gibson1, Claudia Harper1, Sally McClintock1, Michelle SH Hu1, Hamish A Fernando1, Tania P Markovic1,2, Janet Franklin2, Jackie Center3, Peter Y Li4, Nuala M Byrne5, Amanda Sainsbury1 The Boden Institute of Obesity, Nutrition, Exercise & Eating Disorders, Sydney Medical School, Charles Perkins Centre, The University of Sydney, NSW, Australia;2 Metabolism & Obesity Services, Royal Prince Alfred Hospital, NSW, Australia;3 Bone Biology Division, Garvan Institute of Medical Research, St Vincent’s Hospital Clinical School, UNSW, Sydney, Australia;4 Division of Endocrinology, Department of Medicine, Harbor-UCLA Medical Center and Los Angeles BioMedical Research Institute, Los Angeles, CA, United States;5 School of Health Sciences, Faculty of Health, University of Tasmania, TAS, Australia

ICFSR 2018 • Miami Beach • P2
1:45pm **OC 8**: Effect of delta-tocotrienols and green tea polyphenols on glucose homeostasis and skeletal muscle in obese male mice with insulin resistance  
Fenhee Chang1, Hayli E. Joiner2, Salvatore N. Campise1, Kassandra Gonzalez1, Gurvinder Kaur3, Jannette M. Dufourz3, Chuan-Li Shen4. 1 Department of Kinesiology, Health, and Nutrition, University of Texas at San Antonio, San Antonio, TX; 2 Department of Kinesiology and Sport Management, Texas Tech University, Lubbock, TX; 3 Department of Cell Biology and Biochemistry, Texas Tech University Health Sciences Center, Lubbock, TX; 4 Department of Pathology, Texas Tech University Health Sciences Center, Lubbock, TX, USA

2:00pm **OC 9**: Leveraging non-physiological aspects of NMES for beneficial neuromuscular adaptations in older adults  
David W. Russ, Ohio University Division of Physical Therapy, Athens, OH, USA - Eric Leach, Ohio University Division of Physical Therapy, Athens, OH, USA - Brian C. Clark, Ohio Musculoskeletal and Neurological Institute (OMNI) at Ohio University, Athens, OH, USA

2:15pm **OC10**: SARC-F and anthropometric measures: enhancing sarcopenia screening in clinical practice  
Wee-Shiong Lim1, 2, Laura Tay3, Audrey Yeo2, Suzanne Yew2, Noor Hafizah2, 4, Yew-Young Ding1, 2, Solomon Yu5, 6, 1 Department of Geriatric Medicine, Tan Tock Seng Hospital, Singapore 2 Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital, Singapore 3 Department of General Medicine (Geriatric Medicine), Sengkang General Hospital, Singapore 4 Department of Preventive and Community Care, Tan Tock Seng Hospital, Singapore 5 National Health and Medical Research Council of Australia Centre of Research Excellence Frailty Transdisciplinary Research to Achieve Healthy Ageing, University of Adelaide, Adelaide, South Australia, Australia 6 Aged and Extended Care Service, The Queen Elizabeth Hospital, Central Adelaide Local Health Network, Australia

2:30pm **OC 11**: Clinical muscle weakness is associated with mortality in a nationally representative sample of older adults: the health and retirement study  
Kate Duchowny, MPH 1, Mark Peterson, PhD 2, Philippa Clarke, PhD 1, 3 - 1 Department of Epidemiology, University of Michigan School of Public Health, Ann Arbor, MI 2 Department of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI 3 Institute for Social Research, University of Michigan, Ann Arbor, MI USA

2:45pm **OC 12**: Combined effects of BIO101 on anabolism and mitochondrial function in skeletal muscle cells  
Maria Serova, Sissi On, Biophys, UPMC, BC9, 4 place Jussieu, 75005 Paris, France Blaise Doly-Barca, Stanislas Veillet René Lafont, Sorbonne Universités, UPMC Univ Paris 06, Paris-Seine Biology Institute (BIO SIPE), CNRS, 75005 Paris, France Pierre Dilda, Biophys, UPMC, BC9, 4 place Jussieu, 75005 Paris, France

3:00pm **OC 13**: Weight change and risk of FNIH sarcopenia project low Lean mass  
John A. Batsis, MD1, 2, Rebecca S. Crow, DO, Curtis Petersen, MPH3, Courtney J. Stevens, PHD1, Todd A. Mackenzie, PHD1, 2, 3, Stephen J. Bartels, MD1, 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 Dartmouth Institute for Health Policy, Lebanon, New Hampshire, USA

3:15pm **OC 14**: Inter- and intra-reader precision errors of volume of muscle and IMAT of the thigh in T1-weighted magnetic resonance imaging  

3:30/4:00pm COFFEE BREAK

4:00/5:00pm ORAL COMMUNICATIONS  
Moderators: Denise K. Houston (Winston Salem, USA), Hidenori Arai (Kyoto, Japan)

4:00pm **OC 15**: Muscular, visuospatial processing, and neuromotor factors as predictors of physical function in older adults  
Nathan P. Wages, PhD1, 2, Leatha A. Clark, DPT, MS1, 2, Andrew M. Bryant, MA1, 5, Julie A. Suh, PhD1, 2, Todd M. Manini, PhD, 2, and Brian C. Clark, PhD1, 2, 3 (1) Ohio Musculoskeletal and Neurological Institute (OMNI), Ohio University, Athens, OH, USA (2) Department of Biomedical Sciences, Ohio University, Athens, OH, USA (3) Department of Geriatric Medicine, Ohio University, Athens, OH, USA - (4) Department of Family Medicine, Ohio University, Athens, OH, USA (5) Department of Psychology, Ohio University, Athens, OH, USA (6) Department of Aging and Geriatric Research, University of Florida, Gainesville, FL, USA

4:15pm **OC 16**: New views on sarcopenia and dynapenia do we know the coherence?  
Heber A.12, Stöver K3, Bloch W1, Eichberg S3, Noirez P2 - (1) Institute of Cardiology & Sports Medicine, Department of Molecular & Cellular Sport Medicine, German Sport University – Cologne, Germany - (2) Institute of Biomedical and Epidemiological Research in Sport, EA7329, Université Paris Descartes, France - (3) Institute of Movement & Sport Gerontology, German Sport University Cologne, Germany

4:30pm **OC 17**: 25-Hydroxyvitamin D and sarcopenia in older adults: The health ABC study  
Denise K. Houston, PhD1, Janet A. Toole, PhD1, Marjolein Visser, PhD2, Frances A. Tylavsky, DPH, MS3, Anne B. Newman, MD, MPH4, Tamara B. Harris, MD, MSS, Stephen B. Kitchener, PhD1 (1) Wake Forest School of Medicine, Winston Salem, NC, USA; (2) Vrije Universiteit, Amsterdam, The Netherlands; (3) University of Tennessee Health Science Center, Memphis, TN, USA; (4) University of Pittsburgh, Pittsburgh, PA, USA; (5) National Institute on Aging, Bethesda, MD, USA

4:45pm **OC 18**: High endogenous BCAA levels are associated with muscle strength and signatures of myosteatosis: friends or foes?  
Eleonora Poggiogalle, 1, Mario Fontana 2, Giovanni Turriziani Colonna 1, Cecilia Mancini 1, Anna Maria Giusti 1, Lorenz Maria Donini 1 - Department of Experimental Medicine, Food Science and Human Nutrition Research Unit, Sapienza University, Rome, Italy - 2 Department of Biochemical Sciences, Sapienza University, Rome, Italy
9:00/9:30am  **KEYNOTE 4**: Moderator: Roger Fielding (Boston, USA)
Myostatin and other biomarkers of sarcopenia
Nathan Lebrasseur Mayo Clinic Rochester, NY USA

9:30/10:00am  **KEYNOTE 5**: Moderator: Bruno Vellas (Toulouse, France)
Nutrition, sarcopenia and frailty
Cornel Sieber F. Alexander-University (Nuremberg, Germany)

10:00/10:30am  **CONFERENCES**
Moderator: Francesco Landi (Rome, Italy)

**CONFERENCE 1**
SPRINTT clinical trial update
Emanuele Marzetti, MD, PhD - Teaching Hospital “Agostino Gemelli”, (Rome, Italy)

10:15 am  **CONFERENCE 2**
Insight into the intersection between sarcopenia and frailty: relationship between muscle mass and frailty status
Paulo H. M. Chaves, MD, PhD1, Benjamin Leon Center for Geriatrics Research and Education, Hebert Wertheim College of Medicine, Florida International University (Miami, USA)

10:30-11:00am  **COFFEE BREAK**

11:00/12:00am  **SYMPOSIUM 5**
Macrovascular and microvascular contributors to sarcopenia in aging and disease
Moderator: Steven J. Prior, PhD - University of Maryland
• Skeletal muscle capillarization as a determinant of muscle fiber size and muscle mass in the development of sarcopenia
Odessa Addison, DPT, PhD - University of Maryland School of Medicine
• Endothelial function and nutritive flow as potential determinants of anabolic resistance and sarcopenia
Elena Volpi, MD, PhD - University of Texas Medical Branch at Galveston
• Skeletal muscle capillarization and satellite cell function: Implications for interventions targeting sarcopenia.
Tim Snijders, PhD - Maastricht University Department of Human Biology and Movement Sciences

12:00/12:30am  **Keynote 6**: Moderator: Roger Fielding (Boston, USA)
Neuromuscular changes with aging and sarcopenia
Brian Clark, Ohio University (Athens, USA)

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

1:30/2:30pm  **SYMPOSIUM 6**
Osteoporosis and sarcopenia: Two diseases or one?
Moderator: Olivier Bruyère, MD PhD, Department of Public Health, Epidemiology and Health Economics, University of Liège, Liège, Belgium
• Lifetime course of muscle and bone wasting
Cyrus Cooper, MD Ph D, MRC Lifecourse Epidemiology Unit, University of Southampton, Southampton, UK
• Role of nutrition and physical exercise in the prevention of bone and muscle wasting
MD-René Rizzoli, MD PhD, Division of Bone Diseases, Faculty of Medicine, Geneva University Hospitals, Geneva, Switzerland
• What can we learn from osteoporosis to get a treatment against sarcopenia approved?
Jean-Yves Reginster, MD PhD, Department of Public Health, Epidemiology and Health Economics, University of Liège, Belgium

2:30/3:30pm  **CONFERENCES**
Moderator: Jorge Ruiz (Miami, USA)

**CONFERENCE 3**
Sarcopenia in hospitalized older people: the Italian experience of glisten study
Francesco Landi, MD, PhD - Catholic University of the Sacred Heart, Rome, Italy

2:45 pm  **CONFERENCE 4**
Sarcopenia and frailty guidelines update in Asia
Hidenori Arai, National Center for Geriatrics and Gerontology, Japan

3:00 pm  **CONFERENCE 5**
A Novel non-pharmaceutical intervention to improve physical health in obese elderly: citrulline with high intensity interval training.
Aubertin-Leheudre Mylène, PhD; Université du Québec Montréal, Quebec-Canada
3:15pm  **CONFERENDE 6**  
A minimalistic approach to power training for enhancing lateral balance function and mobility in older adults  
Mario Inacio, PhD University of Maryland School of Medicine Department of Physical Therapy and Rehabilitation Science, MD, USA  

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

4:00/5:00pm  **ORAL COMMUNICATIONS**  
Moderators: Bertrand Fougère (Toulouse, France), Megan M. Marron (Pittsburgh, USA)  

4:00pm  **OC 19: Relationship of incident falls with balance deficits and body composition in male and female community-dwelling elders**  
Waters DI 1, Qualls CR 2, Cesarini M 3,4, Rolland YS, Vellas B5,6,1. Department of Medicine and School of Physiotherapy, University of Otago, Dunedin, New Zealand. 2. Department of Mathematics & Statistics and School of Medicine, University of New Mexico, Albuquerque, USA; and Biomedical Research Institute of New Mexico, Albuquerque, USA. 3. Fondazione Ca Granda Ospedale Maggiore Policlinico, Milan, Italy. 4. Department of Clinical and Community Sciences, University of Milan, Italy. 5. Centre Hospitalier Universitaire de Toulouse, Toulouse, France. 6. Department of Internal and Geriatrics Medicine, Gerontopôle, CHU de Toulouse, UMR 1027 INSERM, University Toulouse III, Toulouse, France.

4:15pm  **OC 20: JNK regulates muscle hypertrophy via Myostatin/SMAD inhibition**  
Sarah Lessang1, Joslin Diabetes Center Tara MacDonald, Joslin Diabetes Center Prerana Pathak, Joslin Diabetes Center Myoung Sook Han, University of Massachusetts Medical School Vernon Coffey, Bond University Donato Rivas, Jean Mayer USDA Human Nutrition Research Center on Aging at Tufts University Michael Hirschman, Joslin Diabetes Center Roger Davis, University of Massachusetts Medical School Laurie Goodyear, Joslin Diabetes Center (USA)

4:30pm  **OC 21:Metabolomics of frailty severity in the Health ABC study**  
Megan M. Murray, MS1, Rachel A. Murphy, PhD2, Tamara B. Harris, MD3, Stacy G. Wendell, PhD4, Robert Boudreau, PhD1, Anne B. Newman, MD1,4 - (1) Department of Epidemiology, University of Pittsburgh, Pittsburgh, PA. (2) Centre of Excellence in Cancer Prevention, School of Population and Public Health, University of British Columbia, Vancouver, Canada. (3) Laboratory of Epidemiology and Population Sciences, Intramural Research Program, National Institute on Aging, Bethesda, MD. (4) Departments of Medicine and Translational Science, University of Pittsburgh, Pittsburgh, PA (USA)

4:45pm  **OC 22: Approaches to assessment of sarcopenia on Computed Tomography (CT): a systematic review**  
Behrang Amini, (The University of Texas M.D. Anderson Cancer Center) Sean P. Boyle (University of California, Davis) Robert D. Boutin (University of California, Davis) Leon Lenchik (Wake Forest School of Medicine) - (USA)

5:00/6:00pm  **INDUSTRY SYMPOSIUM** (see p23) Followed by a cocktail with light snacks

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**Final Program • Friday, March 2**

**BALLROOM 2 • FRAILTY**

9:00/10:00am  **CONFERENCES**  
Moderator: Elsa Dent (Adelaide, Australia)

9:00am  **CONFERENCE 7**  
How do we improve the quality of evidence from frailty interventional trials?  
John Muscedere MD, FRCPC1 Scientific Director, Canadian Frailty Network, Queens University Kingston, Canada  

9:15am  **CONFERENCE 8**  
European and north american practices addressing endocrine Issues in older adults with frailty  
Willy Marcos Valenciac, MD 1,2, Carmen Castillo Gallego, MD 3,4 Ana Alfaro-Achac, MD, PhD 4,5 Jose Losa-Reynad, PhD 4,5,6 - (1) Geriatrics Research, Education and Clinical Center (GRECC), Miami VA Medical Center, Miami (VAMC), FL. USA (2) Dpt. of Medicine, University of Miami, Miami, FL, USA (3) Hospital Virgen del Valle, Complejo Hospitalario de Toledo, Spain (4) CIBER de Frailty and Aging (CIBERFES), Toledo, Spain (5) Frailty Unit. Dpt. of Geriatric Hospital Virgen del Valle de Toledo. Spain [6] GENUD (Growth, Exercise, Nutrition and Development) Research group, University of Toledo. Spain.

9:30am  **CONFERENCE 9**  
The Future of Frailty Management  
Bertrand Fougère 1,2,3, Elsa Dent 4,5 1Gérontopôle, CHU de Toulouse, Toulouse, France. 2.Inserm UMR1027, U de Toulouse III P Sabatier, Toulouse, France. 3. Division of Geriatric Medicine, St Louis University School of Medicine, St. Louis, Missouri, USA. 4 Torenns University of Australia, Australia S Baker Heart and Diabetes Institute Melbourne, Australia  

9:45am  **CONFERENCE 10**  
Natural History of Frailty and Cognitive Impairment: Longitudinal Evidence from Two Population Studies  
Qian-Li Xue, PhD1,2, (1) School of Medicine, Division of Geriatric Medicine and Gerontology, Johns Hopkins University, Baltimore, MD, USA (2) Johns Hopkins Center on Aging and Health, Johns Hopkins Medical Institutions, Baltimore, MD, USA

10:00/10:30am  **ORAL COMMUNICATIONS**  
Moderators: Amal A. Wanigatunga (Baltimore, USA), Lorenzo Donini (Rome, Italy)  

10:00am  **OC 23: Socioeconomic gradients in frailty, disability, and death process: Results from the Japan Gerontological Evaluation Study**  
Takaki Ikeda1,2, Jun Aida2, Toru Tsu baya 2; Yusuke Matsuyama3,4, Shihoko Koyama2,5, Katsunori Kond o6,7, Ken Osaka2 1. Department of Rehabilitation, Sendai Seiy o Gakuin College, Sendai. 2. Department of International and Community Oral Health, Tohoku University Graduate School of Dentistry, Sendai. 3. Department of Global Health Promotion, Tokyo Medical and Dental University, Tokyo. 4. Research Fellow of Japan Society for the Promotion of Science, Tokyo. 5. Tohoku Medical Megabank Organization, Tohoku University Sendai. 6. Center for Preventive Medical Sciences, Chiba University, Chiba. 7. Center for Gerontology and Social Science, National Center for Geriatrics and Gerontology, Aichi

10:15am  **OC 24: Interleukin-6 and perceived fatigability among adults in mid-to-late life**  
Amal A. Wanigatunga, PhD, MPH (1,2), Ravi Varadhan, PhD, PhD (2,3), Elean or M. Simon schick, PhD (4), Stephanie Studenski, MD, MPH (4), Luigi Ferrucci, MD, PhD (4), Jennifer A. Schrack, PhD (1,2) - 1 Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA 2 Center on Aging and Health, Johns Hopkins University and Medical Institutions, Baltimore, Maryland, USA 3 Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA 4 Intramural Research Program, National Institute on Aging, Baltimore, Maryland, USA
SYMPOSIUM 7
The MID-FRAIL study. Effects of the first study multimodal intervention in older frail/prefrail people with Diabetes Mellitus from a functional perspective. Changing the paradigm of approaching diabetes in older people
Moderators: Prof. Leocadio Rodriguez-Manas MD, PhD Geriatric Department, Getafe University Hospital, Getafe, Madrid, Spain
Prof. Alan J. Sinclair, MD, PhD Foundation for Diabetes Research in Older People, Diabetes Frail, MediCare Medical Practice, UK
• Why we undertook the European Mid-Frail Study and how the Intervention was defined?
Prof. Alan J. Sinclair, MD, PhD - Foundation for Diabetes Research in Older People, Diabetes Frail, MediCare Medical Practice, UK
• Design and implementation of the MID-FRAIL study
Olga Laosa, MD, PhD; Foundation of Biomedical Research, Getafe University Hospital, Getafe, Madrid, Spain
• Main results and conclusions
Prof. Leocadio Rodriguez-Manas MD, PhD; Geriatric Department, Getafe University Hospital, Getafe, Madrid, Spain

ORAL COMMUNICATIONS
Moderators: Leocadio Rodriguez-Manas (Madrid, Spain), Manuel Montero-Odasso (London, Canada)
12:00am
OC 25: Identifying frailty using the electronic medical record within a medicare accountable care organization
Nicholas M. Painoowski, PhD,1, Kristin Lenoir, MS2, Brian J. Wells, MD, PhD2, Jeff D. Williamson, MD, MHS3, and Kathryn E. Callahan, MD, MS3 (1) Division of Public Health Sciences, Wake Forest School of Medicine, Winston-Salem, NC, USA (2) Clinical and Translational Science Institute, Wake Forest School of Medicine, Winston-Salem, NC, USA (3) Section on Gerontology and Geriatric Medicine, Department of Internal Medicine, Wake Forest School of Medicine, Winston-Salem, NC, USA

12:15am
OC 26: Multimodal interventions to prevent and manage cognitive frailty
Manuel Montero-Odasso MD, PhD,1,2,3*, Quincy J. Almeida PhD4, Richard Camicioli MD 5, Karen Li PhD6, Teresa Liu-Ambrose PhD7, Laura Middleton PhD8, Louis Bherer PhD6,9 1Department of Medicine, Division of Geriatric Medicine, Schuchl School of Medicine & Dentistry, University of Western Ontario, London, ON, Canada.; 2Department of Epidemiology and Biostatistics, Schuchl School of Medicine & Dentistry, University of Western Ontario, London, ON, Canada.; 3Gait and Brain Lab, Parkinson Institute, Lawson Health Research Institute, London, ON, Canada; 45Sun Life Financial Movement Disorders Research Centre, Wilfrid Laurier University; 5Geriatric and Cognitive Neurology, University of Alberta; 6Department of Psychology and PERFORM Centre, Concordia University; 7Department of Physical Therapy, University of British Columbia, Centre for Hip Health and Mobility, and Djavad Mowafaghian Centre for Brain Health, Vancouver Coastal Research Institute, University of British Columbia; 8Department of Kinesiology, University of Waterloo; 9Faculty of Medicine, University of Montreal, Montreal, (Canada)

LUNCH BREAK

1:30pm
ORAL COMMUNICATIONS
Moderators: Bertrand Fougère (Toulouse, France), Aluko A. Hope (New York, USA)
1:30pm
OC 27: Age-related decline in D3Cr muscle mass (but not DXA lean mass) is correlated with decline in walking speed
Peggy M. Cawthon (1,2), Katherine Peters (1), Eric S. Orwoll (3), Andrew Hoffman (4), Steven R. Cummings (1,2), Marc Herrerstein (5), William J. Evans (5,6) 1. California Pacific Medical Center Research Institute, San Francisco, CA, USA 2. University of California, San Francisco, CA, USA 3. Oregon Health and Sciences University, Portland, OR, USA 4. Stanford University, Stanford, CA, USA 5. University of California, Berkeley, CA USA 6. Duke University Durham, NC, USA

1:45pm
OC 28: High and low response to high intensity interval training correlates with distinct muscle miRNA profiles
Kenneth L. Selden, MD,1,2 Le Yang B.S.2, Jonathan Bard M.S.3, Merced Leiker M.S.1, Norma Nowak Ph.D.3, Yijun SunPh.D.2, Bruce R. Troen M.D.1 1. Division of Geriatrics and Palliative Medicine, Jacobs School of Medicine and Biomedical Sciences, University at Buffalo and Research Service, Veterans Affairs Western New York Healthcare System, Buffalo, NY, USA; 2. Department of Microbiology and Immunology, School of Medicine and Biomedical Sciences, University at Buffalo, Buffalo, NY, USA 3. New York State Center of Excellence in Bioinformatics and Life Sciences and Department of Biochemistry, School of Medicine and Biomedical Sciences, University at Buffalo, Buffalo, NY, USA

2:00pm
OC 29: How does frailty influence who gets dementia?
Lindsay Wallace, MSc1, Olga Theou, PhD1, Judith Godin, PhD1, Melissa Andrew, MD, PhD1,2, Kenneth Rockwood, MD1,2, Kenneth Rockwood, MD1,2 (1)Department of Medicine, Dalhousie University, Halifax, Canada (2)Centre for Health Care of the Elderly, Nova Scotia Health Authority, Halifax, Canada

2:15pm
OC 30: The role of homocysteine and B vitamins in telomere length: results from the cross-sectional and interventional trials
Irene Pucceddura,1,2, Markus Herrmann3, Marcus Klebend, Susanne H. Kirsch2, Christian Werner5, Graciela Delgado4, Ulrich Höbner2, Marien Bodis2, Angela M. Di PIERO1, Silvia Giulian1, Ulrich Laff5, Stefan Wagner1, Jürgen Geise2, Winfried März4, Wolfgang Herrmann 1 1Department of Clinical Pathology, District Hospital Bolzano, Italy; 2Department of Clinical Chemistry and Laboratory Medicine, Saarland University Hospital, Germany; 3Clinical Institute for Medicinal Chemical Laboratory Diagnostics Medical University of Graz; 4University of Mannheim, Germany; 5Department of Cardiology, Saarland University Hospital, Germany; 6Department of Biometry and Epidemiology, Saarland University Hospital, Germany

2:30pm
OC 31: MiRNAs and procollagen type III N-terminal peptide (P3NP) in Elderly
Del Panta V,1 Talluri E1, Grillari J2,3, Hackl M2, Skalicky S2, Bandinelli S1 (1) Laboratory of Clinical Epidemiology, INCHIANTI Study Group, LHTC Local Health Tuscany Center, Florence, Italy (2) TAmiRNA GmbH, Vienna, Austria, (3) Christian Doppler Laboratory for the Biotechnology of Skin Aging, Vienna, Austria

2:45pm
OC 32: Pre-Hospital frailty and incident disability after critical illness hospitalizations in older adults
Aluko A. Hope; Jannime Law; Rahul Nair; Michelle Ng. Gong; Department of Medicine, Division of Critical Care Medicine, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, New York USA
3:00pm **OC 33:** Microbiota and metabolic danger sensing contribute to sarcopenia
   J Schertzer - Dr. Jonathan D. Schertzer, McMaster University

3:15pm **OC 34:** Comparing objective and self-reported measures of frailty among community-dwelling older adults: a pilot study
   Brian Butt, MHS1,2, Scott Zheng, BA1, Bukola Adesoun, BS2, Jackie Langdon, MS2, Jeremy Walston, MD1,2, Karen Bandeen-Roche, PhD1,2,3, Qian-Li Xue, PhD1,2 (1) Center on Aging and Health, Johns Hopkins University School of Medicine, Baltimore, MD, USA (2) Division of Geriatric Medicine & Gerontology, Johns Hopkins University School of Medicine, Baltimore, MD, USA (3) Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA

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

4:00/5:00pm **ORAL COMMUNICATIONS**

4:00pm **OC 35:** Geroprotectors for multimorbidity and frailty: roadmap to clinical translation
   Anne Ulrike Trendelenburg Novartis Institutes for Biomedical Research Cambridge MA USA

4:15pm **OC 36:** A novel app for assessing the individual’s functions and intrinsic capacity
   JP Michel French Academy of Medicine Switzerland Geneva

4:30pm **OC 37:** Muscle architecture: a useful tool to identify functional decline in inpatient older people?
   Livia P. Carvalho PhD1,2, Dominic Martel MSc(c)1,2, Marco V. Narici PhD3, Marc Bonnefoy PhD4, Mylène Aubertin-Leheudre PhD1,2 (1) Department of Physical Activity Sciences, Université du Québec à Montréal, Montreal, QC, CA (2) Centre de Recherche de l’Institut de Gériatrie de Montréal (CRIUGM), Université de Montréal, Montreal, QC, Canada (3) MRC-ARUK Centre for Musculoskeletal Ageing Research, School of Medicine, University of Nottingham, Derby, UK (4) Centre Hospitalier Universitaire de Lyon Sud, Lyon, France

4:45pm **OC 38:** The effect of intentional weight loss on biomarkers of mortality in older adults with obesity
   Lauren Shaver, BS1, Daniel Beavers, PhD2, Stephen Kritchevsky, PhD3, Kristen Beavers, PhD1. (1) Health and Exercise Science, (2) Biostatistics, and (3) Internal Medicine, Wake Forest University, Winston-Salem, NC, USA
9:00/9:30am CONFERENCES
Moderator: Dennis Villareal (Houston, USA)

9:00am CONFERENCES 11
New healthy ageing framework: updates from the WHO clinical consortium on healthy aging
Iselene Araujo de Carvalho (Geneva, Switzerland)

9:15am CONFERENCES 12
Cognitive frailty: from conceptual proposal to clinical practice
Liang-Kung Chen1,3, Hiroyuki Shimada2, Li-Ning Peng1,3, Chih-Kuang Lia1,3, Hidenori Arai1,2
1National Yang Ming University, Taiwan; 2National Center for Geriatrics and Gerontology, Japan; 3Taipei Veterans General Hospital, Taiwan; and 4Kaohsiung Veterans General Hospital, Taiwan

9:30am CONFERENCES 13
Nutrition and joint health: current and future
Chwan-Li (Leslie) Shen, PhD, 1 Jia Zhang, PhD. 2
1 CCPR. Texas Tech University Health Sciences Center, Lubbock, TX - 2Texas Tech University, Lubbock, TX.

9:45/10:30am ORAL COMMUNICATIONS
Moderators: Juergen Bauer (Oldenburg, Germany) - Janet E. Simon (Athens, USA)

9:45am ORAL COMMUNICATIONS 39:
Small-molecule approaches to attenuate the E3 ligase MuRF1 and skeletal muscle atrophy and dysfunction
Seigfried Labert - University of Heidelberg, Germany; Scott Bowen, University of Leeds, UK; Lee H. Sweeney, University of Florida, USA; Volker Adams, TU Dresden (Germany)

10:00am ORAL COMMUNICATIONS 40:
Relationship between patient-reported outcome measures and leg extensor muscle weakness in older adults
Janet E. Simon PhD,1,2, Todd M. Manini PhD,3, Anoop Balachandran PhD,3, Leatha A. Clark DPT MS,1,4,5, Brian C. Clark PhD,1,4,6 - (1) The Ohio Musculoskeletal and Neurological Institute, Ohio University, Athens, OH, USA (2) School of Applied Health Sciences and Wellness, Ohio University, Athens, OH, USA (3) Institute on Aging and the Department of Aging and Geniatric Research, University of Florida, Gainesville, FL, USA (4) Department of Biomedical Sciences, Ohio University, Athens, OH, USA (5) Department of Family Medicine, Ohio University, Athens, OH, USA (6) Department of Geriatric Medicine, Ohio University, Athens, OH, USA.

10:15am ORAL COMMUNICATIONS 41:
Higher expression of mir-19b-3p associated with increased fat-free mass following 6 months of resistance exercise in older men and women
Donato A Rivas - USDA Human Nutrition Research Center on Aging at Tufts University Roger A. Fielding, USDA Human Nutrition Research Center on Aging at Tufts University Lee M. Margolis, USDA Human Nutrition Research Center on Aging at Tufts University (USA)

10:30-11:00am COFFEE BREAK

11:00/12:00am SYMPOSIUM 8 - IANA
Nutrition, Frailty and Sarcopenia - Moderator: Debra Waters (USA)

• Association of Leisure-Time Physical Activity with Low Lean Mass using the FNH Sarcopenia Project Cutpoints
John A. Batsis, MD - Geisel School of Medicine at Dartmouth, Hanover, New Hampshire, United States-Department of Medicine, Dartmouth Hitchcock Medical Center, Lebanon, New Hampshire, United States - The Dartmouth Institute for Health Policy, Lebanon, New Hampshire, USA.

• Association Between Dietary Intake and Skeletal Muscle Mass Changes after Weight Loss among Middle-aged and Older Men with Obesity
Allison Morris, BS Division of Animal and Nutritional Sciences, West Virginia University, Morgantown, West Virginia USA

• Influence of functional parameters, physical activity, and nutritional status on health related fatigue and physical function of older cancer patients
Haritz Arrieta, MSc Department of Physiology, University of the Basque Country, Leioa, Bizkaia, Spain

• Association between Dietary Quality and Leukocyte Telomere Length in a Middle-Aged Appalachian Population
Margaret Drazba, BS Division of Animal and Nutritional Sciences, West Virginia University, Morgantown, West Virginia USA

12:00/12:30am ORAL COMMUNICATIONS
Moderators: Michael Lustgarten (Boston USA) - Liang-Kung Chen (Taipei, Taiwan)

12:00am ORAL COMMUNICATIONS 42:
Frailty, Inflammation, and Mortality Among Patients with End-Stage Renal Disease
Mara A. McdAdams-DeMarco PhD (1,2), Hao Ying ScM (1), Alison G. Thomas MSPH (1), Fatima Warsame BS (1), Ashton A. Shaffer BA (1,2), Christine E. Haugen MD (1), Jacqueline M. Garonzik-Wang MD PhD (1), Niraj M. Desai MD (1), Ravi Varadhan PhD (3), Jeremy Walston MD (4), Silas P. Norman MD (5), Dorry L. Sogna MD PhD (1,2) - (1) Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD. (2) Department of Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD. (3) Department of Oncology, Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD. (4) Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD. (5) Department of Internal Medicine, Division of Nephrology, University of Michigan School of Medicine, Ann Arbor, MI, USA

12:15am ORAL COMMUNICATIONS 43:
Role of the Serum Metabolome and Gut Microbiome on Lean Mass, Muscle Composition, and Physical Function in Older Adults
M Lustgarten, Roger A. Fielding Tufts University HNRC 711 WashingtonSt. Boston Ma USA

12:30/1:30pm LUNCH BREAK
9:00/10:30 am **ORAL COMMUNICATIONS**
Moderators: Mylène Aubertin-Leheudre (Montreal, Canada) - (Boston USA) - Adam J. Santanasto (Pittsburgh, USA)

**OC 44**: Aging-associated changes in skeletal muscle morphology assessed by intramuscular adipose and connective tissue
Jaclyn Sesso1, Yoko Kato1, Jeremy Walston1, Karen Bandeen-Roche1, Joao AC Lima1, Bharath Ambale Venkatesh2 1.Johns Hopkins University, Baltimore, MD, USA, 2Radiology, Johns Hopkins University, Baltimore, MD

9:15am **OC 45**: The temporal relationship between change in muscle mass and change in muscle strength
Nancy Chiles Shaffer, PhD1, Qu Tian, PhD1, Stephanie Studenski, MD, MPH1 (1)Longitudinal Studies Section, Translational Gerontology Branch, National Institute on Aging, National Institutes of Health, Baltimore, MD, USA, 21225 USA

9:30am **OC 46**: The diagnostic significance of pQCT and DXA in geriatric patients
Michael Drey, MD, MSc1, Michaela Henkel1, Sophie Petermeise1, Uta Ferrari MD1, Marietta Rottenkolber1, Ralf Schmidmaier MD, MME1,2 (1) Geriatric Department, Klinikum der Universitat Munchen, Munich, Germany (2) Endocrinological Department, Klinikum der Universitat Munchen, Munich, Germany

9:45am **OC 47**: Normative values of knee extensors isokinetic strength for older women and implications on physical function
Ricardo M. Lima, PhD1, Juscelia Cristina Pereira, MS1, Silvia Goncalves Ricci Neri, MS1, Baruch Vainshelboim, PhD2, AndreBonadias Gadelha, PhD1, Martin Bottaro, PhD1 1.Faculty of Physical Education, University of Brasilia, Brasilia, Distrito Federal, Brazil. 2 Master of Cancer Care Program, School of Health Sciences, Saint Francis University, Loretto, PA, USA.

10:00am **OC 48**: A specific profile of circulating amino acids characterizes older persons with Physical frailty and Sarcopenia: results from the BIOSPHERE study
Anna Picca, PhD, Federico Marini, PhD, Alessandra Biancolillo, PhD, Emanuele Marzetti, MD, PhD, Jacopo Gervasoni, PhD, Silvia Persichilli, PhD, Aniello Primiano, MSc, Francesco Landi, MD, PhD, Roberto Bernabei, MD, Riccardo Calvani, Ph - Catholic University of the Sacred Heart Italy Rome

10:15am **OC 49**: Body composition remodeling and incident mobility limitations in African Ancestry Men
Adair J. Santanasto, PhD, MPH1 (presenting author), Iva Miljkovic, MD, PhD1, Ryan K. Cvejkus, BS1, Christopher L. Gordon, PhD2, Victor W. Wheeler, MRCOG3, Clareann H. Bunker, PhD1, and Joseph M. Zmuda, PhD1, 1 (1) Department of Epidemiology, University of Pittsburgh (2) McMaster University, Hamilton, ON, Canada (3) Tobacco Health Studies Office, Scarborough, Tobago, Trinidad & Tobago (4) Department of Human Genetics, University of Pittsburgh

10:30-11:00am **COFFEE BREAK**

11:00/12:30am **ORAL COMMUNICATIONS**
Moderators: Paulo Chaves (Miami, USA) - Kevin Conley (Seattle, USA)

**OC 50**: Co-application of LMHFV and HMB retards sarcopenia by reducing intramyocellular fat infiltration in sarcopenic mice
Wang J 1, Chow SKH 1, Wong RMY 1, Chin YN 1, Leung KS 1, Cheung WH 1 1.Amount of Orthopaedics and Traumatology, Faculty of Medicine, the Chinese University of Hong Kong, Hong Kong

11:15am **OC 51**: SARA-OBS, an observational study dedicated to characterize age related sarcopenia population suitable for interventional studies
Waly Dioh, Carole Margault, Gianluca Zia, Stanislas Veillet and Susanna Del Signore Biophytis Paris, France

11:30am **OC 52**: Association of circulating miRNAs with sarcopenia: the Sarcopenia and Physical impairment with advancing Age study (SarcoPhage)
Rousseau JC PhD1, Cavalier E PhD2, Beaudart C PhD3, Regisiter JY MD-PhD3 Brunyere O MD-PhD3,4 and Chapurlat R, MD-PhD5 (1) INSERM 1033, Lyon, France, (2) Department of Clinical Chemistry, University of Ligue, Belgium, (3) Department of Public Health, Epidemiology and Health Economics, University of Ligue, Belgium, (4) Department of Sports Sciences, University of Ligue, Belgium (5) Hôpital E. Herriot, Hospices Civils de Lyon, France; University of Lyon, France

11:45am **OC 53**: High protein intake and the maintenance of skeletal muscle during energy deficit combined with reduced daily activity in older adults
Sara Y Oikawa, MSc1, Chris McGlory, PhD1, Nelson I Saddler, BSc1, Adrienne K Morgan, BSc1, Lisa K D'Souza, BSc1, Gianni Parise, PhD1, Stuart M Phillips, PhD1. (1) Department of Kinesiology, McMaster University, Hamilton, Canada

12:00am **OC 54**: Sarcopenia and exercise intolerance in the old: new treatments that combine diet and exercise to build strength and endurance
Kevin Conley, PhD1, Sophia Z. Liu, PhD1, Amir S. Ali, BS1, Baback Roshanravan, MD2, and Eric G. Shankland, PhD1, (1)Departments of Radiology, and (2) Medicine, University of Washington, Seattle, WA 98195 USA

12:15am **OC 55**: Does combined osteopenia and sarcopenia confer greater risk of fracture than either condition alone in older men? The Concord Health and Ageing in Men Project
Vasant Hirani, Discipline of Dietetics, School of Life and Environmental Science and the Charles Perkins Centre, The University of Sydney Centre for Education and Research on Ageing, Concord Hospital, University of Sydney, New South Wales, Sydney, Australia. The ARC Centre of Excellence in Population Ageing Research, University of Sydney, New South Wales, Sydney, Australia.
PLENARY SESSION

1:30/2:30pm  **Symposium 9**  
**Metabolic Signatures of Frailty**  
Moderator: Jeremy D. Walston, MD Johns Hopkins University School of Medicine  
- Chronic Inflammation-related Metabolic Profile Discovery in the interleukin 10tm1Cgn mouse  
  Reyhan Westbrook Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore, MD  
- Evidence of Kynurenine Pathway Involvement in Age-associated Muscle Weakness  
  Tae Chung, MD Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore  
- Altered frailty metabolome links chronic inflammation to functional decline  
  P. Abadir Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore, USA

2:30/3:45pm  **ORAL COMMUNICATIONS**  
Moderators: Miriam Zylberglait Lisigurski (Miami, USA) - Marco Narici (Padova, Italy)

2:30pm  **OC 56:**  
Human multilineage-inducible cells mediate the repair and rejuvenation of tissues derived from all embryonic layers in immunocompetent rodents through multiple mechanisms  
Paul C. Schiller, PhD, Prime Cell Biomedical Inc Miami Beach Fl USA

2:45pm  **OC 57:**  
Health care utilization in non-geriatric patients with frailty phenotype  
Miriam Zylberglait Lisigurski, MD Carmen Cartwright, MD Shamila Ravindranathan, MD Sameer Shaharyar, MD - Osman Perez, MD Aimee Almanzar, MD Jasdip Grewal, MD Saied Alsabagh, MD Internal Medicine Residency Training Program. Aventura Hospital and Medical Center USA

3:00pm  **OC 58:**  
A double-blind placebo controlled trial into the effects of testosterone provision upon body composition, glycaemic control and intra-muscular signaling pathways during resistance exercise training in older men  
Nima Gharabdaghi1, Supreeth S Rudrappa1, Bethan E Phillips1, Iskandar Idris1, Matthew S Brook1, Daniel J Wilkinson1, Nathaniel J Szewczyk1, Kenneth Smith1, Philip J Atherton1 1MRC-ARUK Centre of Excellence and NIHR BRC, School of Medicine, University of Nottingham, UK

3:15pm  **OC 59:**  
Disruption of IL-6 in a frail mouse model delays physical function decline in older animals  
Lina Ma, Huanle Yang, Jackie Langdon, Reyhan Westbrook, Ruth Marx-Rattner, Jeremy Walston, Peter Abadir Division of Geriatric Medicine and Gerontology, Johns Hopkins University, Baltimore, USA

3:30pm  **OC 60:**  
The role of diminishing energy reserves in increasing fatigability in mid-to-late life  
Jennifer A. Schrack, PhD, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health Amal A. Wanigatunga, PhD, MPH, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health Pablo Martinez-Amezcua, MD, MHS, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health Vadim Zipunnikov, PhD, Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health Stephanie A. Studenski, MD, MPH, National Institute on Aging Eleanor M. Simonsick, PhD, National Institute on Aging
P21 • Anthropometric measurements, number of comorbidities and medications in use in Brazilian elderly women at risk of sarcopenia Patricia Pareire Batista, MSc; Patrícia Sena Pinheiro, MSc; Kellen C. Chaves de Almeida Antunes de Morais, PT; Taciane Mendes Costa Silva; Lygia Piacentino Louto, PhD Postgraduate program in Rehabilitation Sciences, Physiotherapy Department, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, (Brazil)

P22 • Association between dynapenia and subsequent serious fall injuries in older adults Anoop Balachandran PhD, Borya Lin, MS1, Thomas M. Gill, MD2, Jack M. Guralnik, MD, PhD3, Abby C King PN4, Fang-Chi Hsu PN5, Anne B. Newman, MD, MPH6, Mary M. McDermott, MD7, Roger A. Fielding PhD, RN8, Department of Geriatric Research, University of Florida, Gainesville, FL, USA (2) Department of Medicine, Yale School of Medicine, New Haven, CT, USA (3) Department of Epidemiology and Public Health, University of Maryland School of Medicine, Baltimore, MD, USA (4) Departments of Health Research & Policy and Medicine, Stanford School of Medicine, Stanford, CA, USA (5) Department of Biostatistical Sciences, Division of Public Health Sciences, Wake Forest School of Medicine, Winston-Salem, NC, USA (6) Department of Epidemiology, University of Pittsburgh, Pittsburgh, PA, USA (7)Departments of Medicine and Preventive Medicine, Northwestern University, Feinberg School of Medicine, Chicago, IL, USA (8) Nutrition, Exercise Physiology, and Sarcopenia Laboratory, Emory University School of Medicine, Atlanta, GA, USA.

P23 • Myofascial force transmission and muscle weakness in old age marco maria, Robert Csapo, Usha Sinha, Shantanu Sinha - University of Padova (Italy)

P24 • Body profile and functional capacity in healthy free living women of the city of Córdoba, Argentina Acudurováya A V Costanzia J, Sohbi VB, Rosset S, Gallarón RH - Córdoba (Argentina)

COGNITIVE FRAILTY

P25 • Prevalence and related factors of cognitive frailty in China Linra Li Zhang, Yuxin Zhang1, Yun Li2, Zhe Tang1, Piu Charmi2, 1Department of Geriatrics, Beijing Geriatric Healthcare Center; Beijing Institute of Geriatrics, Xiannuo Hospital of Capital Medical University, Key Laboratory on Neurodegenerative Disease of Ministry of Education; Beijing Institute for Brain Disorders, China National Clinical Research Center for Geriatriac Disorders, Beijing 100053, China 2Department of Neurology, Neurosciences Research Unit; National University Hospital, Singapore (China)

P26 • A quasi-experimental pilot study to examine the effectiveness of the programme versus cognitive stimulation to prevent progression of cognitive frailty in older adults from day centers João Apolônio RN, RN1,2, Elbieta Bobrowicz-Campos PhD2, Paula Costa RN, MLS2, Susana Duarte RN, PhD3, Alberto Barata RN, PhD3, Paula Cordeiro RN, PhD3, Maria de Lurdes Almeida RN, PhD4, Isabel Gil RN1, RN2, MS1, (1) Health Sciences Research Unit; Nursing, Nursing School of Coimbra, Portugal (2) Department of Evidence Based Practices A Joanna Briggs Institute Centre of Excellence, Coimbra, Portugal (2) Health Sciences Research Unit; Nursing, Nursing School of Coimbra, Coimbra, Portugal (3) Nursing School of Coimbra, Coimbra, Portugal

P27 • Association between frailty and injury in Toulouse: cross-sectional data from Toulouse frayday hospital day ward Bertrand Fouquer1, 1, Matthieu Daumas 1, Matthieu Llimand2, Sandrine Sourd1, 2, Julie Delue1, 2, Bruno Vellas 1, 2, Gabor Abellan von Kien, 1, 2, 1 Gérontopôle, Centre Hospitalier Universitaire de Toulouse, Toulouse, 2 Inserm UMR1027, Université de Toulouse II Paul Sabatier, Toulouse, France. 3 AHPH- Department of Geriatrics, Bichat University Hospital, Paris, (France)

P28 • The Relationship between fatigue and function in aging adults Natalía Barzana MD, Mojina McNenney, PhD; Sarah Getz, PhD; Sun Ni Li; MS; Joyce Gomes Onum, PT; PhD; Annely Bure-Reyes, PhD; Marina Sarno, PsyD; Stacy Merritt, MA; Wendy Gattany; Chunhui Dong, PhD; Xiaoyan Sun, MD; Tatjana Rundek, MD, PhD; & Bonnie Levin, PhD. All authors from the University of Miami, Department of Neurology, Miami, FL (USA)

P29 • The influence of frailty and cognitive declines on skeletal muscle clarifies the cognitive frailty concept in older people Anne-Marie De Coq, MD1, 2, Stanny Perkinas, MD2; Veronique Verhoeven, MD1; Piotr Wawedewoude, MD, PhD; Roy Remm, MD, PhD1: 1 Department of Primary and Interdisciplinary Care (ELUZA), University of Antwerp, Antwerp, Belgium 2: University Center Geriatrics, General Hospital ZNA, Antwerp, (Belgium)

P30 • Differences in dietary intake and physical function in stroke survivors with self-report Cognitive impairment Jennifer Atkins, MS; Monica Serra, PhD Atlanta VA Center of Excellence for Geriatric Education and Clinical Center (GRECC) and Emory University School of Medicine, Atlanta, GA, USA

FRAILTY IN CLINICAL PRACTICE AND PUBLIC HEALTH

P31 • Oropharyngeal dysphagia and fragility: can it be related? Gulistan Behat (1), Ozlem Yilmaz(1), Sukran Durmazoglu(1), Cihan Kilic(1), Basar Ayken(2), Mehmet Akif Karan(1) Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division (1) Istanbul University Istanbul Faculty of Medicine Internal Medicine Division Toker (2) Istanbul University Istanbul Faculty of Medicine Internal Medicine Division Toker

P32 • Effects of an intergenerational exchange program between nursing students and community healthy elderly Irene Hayakawa1, Poonpeng Zhang1. 1 Saitama Prefectural University (Japan)

P33 • Association of frailty with recovery from disability among community-dwelling older adults: results from two large U.S. cohorts Chentao Wu1, New York Medical College (USA)

P34 • Longitudinal relationship between knee pain status and incident frailty data: from the osteoarthritis initiative Saud M. Bhandari MD, PhD, PT1, Vishal Vennu, MSc, (1) Brendan Stubbs, PhD, PT, PhD (2) 1-Department of Rehabilitation Sciences, King Saud University, Riyadh, Saudi Arabia; 2-Physiotherapy Department, South Lawrence Urgent Care, Lawrence, Kansas, USA 3-Department of Physical Therapy, 1-University of Texas Health Science Center at Dallas, Texas, USA 2-INSERM U 710, Paris, France 3-INSERM U 710, Paris, France 4-INSERM U 710, Paris, France

P35 • Self-rated health and frailty: cross-sectional and longitudinal relationships in older adults from the three-city Bordeaux study SMarine Tabue Teguo, MD1, 2, 3, Sophie Pilleron, PhD1, 2, 3, Soufiane Ajana, MsC1, 2, Catherine Helmer, MD1, 2, Jean-François Dartigues, MD, PhD1, 2, Catherine Fèart, PhD1, 2 Universités Bordeaux, Inserm, Bordeaux Population Health Research 2Center, UMR 1219, F-33 000 Bordeaux, France 3 CHU de Guadeloupe/Université des Antilles (France)

P36 • A community-engaged approach to design, develop, and pilot an exercise mobile application for elderly medication and community-based services of frailty adults clients with frailty and home care aides Margaret Danilovich, PT, DPT, PhD - Northwestern University Laura Davids BA, BS - Northwestern University Gustavo Sabeber, M.S. - Help at Home, Inc. William Healey, PT, EdD - Northwestern University Gill Huber, PT, PhD - Northwestern University Daniel Marcus, PhD - Northwestern University

P37 • Rapid multi-domain geriatric screen and fitness assessment identifies (pre)frailty and its potentially modifiable risk factors in community-dwelling older adults Tay Laura, MBBS1, Chua Melvin, MBChB1, Tay Ye Ling, MS2, Chan Hui Nam, MD1,2,3, Ching Gemainge, MBAA, Mohamed Razil, BSN5, Ng Yee Sien, MBBS6 1Department of General Medicine (Geriatric Medicine), Sengkang General Hospital 2Physiotherapy Department, Sengkang General Hospital 3Occupational Therapy, Sengkang General Hospital 4Serivice Planning, Sengkang General Hospital 5Nursing Department, Sengkang General Hospital 6Department of Rehabilitation, Singapore General Hospital, Singapore

P38 • Hand Grip Strength as a measure of Physical Frailty of Patients in a Subacute Geriatric Inpatient Setting in Singapore Chng Shyan Chua School of Medicine, National University of Singapore 2Departament of Geriatric Medicine, Tan Tock Seng Hospital, Singapore 2Department of Pharmacy, Tan Tock Seng Hospital, Singapore

P39 • Disease activity and functional capacity influence frailty in rheumatoid arthritis patients Jessica Kelleher, MS; Monica Serra, PhD Atlanta VA Center of Excellence for Geriatric Education and Clinical Center (GRECC) and Emory University School of Medicine, Atlanta, GA, USA

P40 • Engaging clinicians and patients to assess and improve frailty measurement in adults with end stage renal disease Sadie Balachandran, MS1,2, Eunice Sang, MS3,4, Jessica Kelleher, MS, Monica Serra, PhD1. 1) Department of Rehabilitation Sciences, King Saud University, Riyadh, Saudi Arabia; 2-Physiotherapy Department, South Lawrence Urgent Care, Lawrence, Kansas, USA 3-Department of Physical Therapy, 1-University of Texas Health Science Center at Dallas, Texas, USA 2-INSERM U 710, Paris, France 3-INSERM U 710, Paris, France 4-INSERM U 710, Paris, France

P41 • Frailty and risk of adverse drug reactions among hospitalized older adults. Tan Li Feng, PhD, RN, MS1,2, 1 School of Medicine, Baltimore, MD. (2) Department of Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD. (3) Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD. (4) Department of Oncology, Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD. (5) Hospital Universitario de Getafe, Madrid, Spain.

P42 • Frailty and risk of adverse drug reactions among hospitalized elderly patients. Wu Q, Zhang Y, Hao P, Zhang M, Liu H, Yang Y, Liu Y, Zhang S, Li J, Guo H, Shen W, Ye Y, Wu Z. Shanghai Medical College, Fudan University, Shanghai, China, (1) Shanghai Medical Collge, Fudan University, Shanghai, China, (2) Shanghai Medical Collge, Fudan University, Shanghai, China, (3) Shanghai Medical Collge, Fudan University, Shanghai, China, (4) Shanghai Medical Collge, Fudan University, Shanghai, China, (5) Shanghai Medical Collge, Fudan University, Shanghai, China

P43 • Myofascial force transmission and muscle weakness in old age Marco Narci, Robert Csapo, Usha Sinha, Shantanu Sinha- University of Padova (Italy)

P44 • Prevalence and frailty of patients compared to controls in older adults with aortic bifurcation Yang Yanping, PhD Postgrad uate program in Rehabilitation Sciences, Physiotherapy Department, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, (Brazil)

P45 • Myofascial force transmission and muscle weakness in old age Marco Narci, Robert Csapo, Usha Sinha, Shantanu Sinha- University of Padova (Italy)
P70 • Effects of two different physical exercise-based strategies to treat frailty
Iván Baltasar-Fernández, Ana Alfaro-Acha, MD, PhD, 2, Maria Isabel Ureta-Espinosa2, Roberto Navarro-Cruz1, Carlos Rodríguez-López1, Francisco José García-Garcia, MD, PhD, 2, Luis Alegre-Durán, PhD, 1, José Loa-Reyna, PhD1, 2, 3 (1) GENDU (Growth, Exercise, Nutrition and Development) Research group. University of Castilla-La Mancha, Toledo, Spain (2) Frailty Unit. Dpt. of Geriatric, Hospital Virgen del Valle of Toledo, Toledo, Spain (3) CIBER of Frailty and Aging (CIBERFES), (Spain)

P71 • The Pictorial Fit-Frail Scale
Olga Theou, PhD1, Emma J Squires, BA1, Lisa Maganaris, PhD, 1, Lindsay Wallace, MSc, 1, Judah Goldstein, PhD2, Melissa Andrew, MD1, PhD Kenneth Rockwood, MD1 (1) Division of Geriatric Medicine, Department of Medicine, Dalhousie University and Nova Scotia Health Authority, Halifax, Nova Scotia, Canada (2) Emergency Medical Services, Department of Emergency Medicine, Dalhousie University and Nova Scotia Health Authority, Halifax, Nova Scotia, (Canada)

P72 • Psoas lumbar vertebral index (PLVI) as a preoperative central sarcopenia predicts the early clinical outcomes in elderly cardiac surgery patients
Hiroshi Furukawa, MD, PhD, Takeshi Honda, MD, Takaaki Yamashita, MD, PhD, Katsuo Tanemoto, MD, PhD (1) Department of Cardiovascular Surgery, Kawasaki Medical School, Kurashiki, Japan

P73 • Frailty and adverse quality of life among persons aging with HIV in Barbados
Damani A. Piggott (1), Anton Best (2), T. Alodia Samuel (3), R. Cline LaRita (4), Gregory D. Kirk (1) 1 Johns Hopkins University, Baltimore, MD, USA 2 Barbados Ministry of Health, Bridgetown, Barbados 3 University of the West Indies George Alleyne Chronic Disease Research Centre, Bridgetown, Barbados 4 University of the West Indies Cave Hill, Bridgetown, Barbados (USA)

P74 • Frailty status and advance directives
Alejandro A. Robles-Torres1, Shvini Piyadasa2, Michael J. Minzner2,3, Stuart Dang2,4, Willy Marcos Valencia2,4, and Jorge G. Ruiz2,4 1Jackson Memorial Hospital, Miami, Florida, USA 2Miami VA HSR & RECC Veterans Successful Aging for Frail Elders (VSAFE), Miami, Florida, USA 3 FIU Herbert Wertheim College of Medicine, Miami, Florida, USA 4University of Miami Miller School of Medicine, Miami, Florida, USA

P75 • Predictive validity of the Brazilian version of the rapid geriatric assessment
Fabiana de Souza Orlandi; Rafaela Brochine Lanzotti; Juliana Gomes Duarte; Silvia Matumoto; Henrique Novaes Mansur; Marcia Regina Cominetti; Sofia Cristina Iost Pavarini; Marisa Silvana Zazzetta Federal University of São Carlos (Brazil)

P76 • Evaluation of frailty in elderly people in the community of são carlos, são paulo, Brazil
Fabiana de Souza Orlandi; (1); Rafaela Brochine Lanzotti (1); Juliana Gomes Duarte (1); Marisa Silvana Zazzetta (1); Silvia Matumoto (2) 1- Department of Gerontology, Federal University of São Carlos, Brazil. 2- Nursing School of Ribeirão Preto - University of São Paulo, (Brazil)

P77 • Comparison of frailty criteria items (fried phenotype and FRAIL scale) in elderly patients admitted into high Risk clinical setting: FRAILCLINIC PROJECT* M Choca (MD, PhD), IA Camicero (PhD), M. Oviedo (MD), A. Pardo (MD), J. González MD, T. Guevara (MD), N. Fernández (MD), L. Rodriguez-Mañas (PhD MD-PhD) Fundación de Investigación Biomédica- Hospital Universitario Getafe (Spain)

P78 • Frailty and malnutrition in fallers
María Neves MD, PhD (1), Estefania Arias Mld (1), Rafael Bielas Mld, PhD (1), Jorge Francisco Gómez Cerezo Mld, PhD (1) 1 Hospital Infantil Sofía. Universidad Europea de Madrid. Madrid. (Spain)

P79 • Implementation of an integrated healthy aging clinic to investigate frailty, sarcopenia, and locomotive syndrome in a clinical setting
Yusumoto Matsu, Hidenori Araki, Tatsushi Watanabe, Shoouke Saito, Kazuhiro Senda, Izumi Kondo, Kaori Kishimoto, Naoki Ito, Sara Morita Saber and Atsushi Harada National Center for Geriatrics and Gerontology, (Japan)

P80 • Importance of frailty recognition and identification in the geriatric patient population: knowledge for future advanced practice nurses.
Kristina Fortes DNP, FNP-BC, ACHPN School of Nursing. California State University Fullerton, Fullerton, CA (USA)
P142 • Dynamic approach of the frailty status in nursing homes: the SENIOR Cohort
F. Buckinx 1, PhD; A. Charlin, MSc, PhD Candidate; T. Bruce-Noël, MSc; J-Y. Reginster, MD, PhD; J. Petermans, MD, PhD; O. Bruyère, PhD 1. Department of Public Health, Epidemiology and Health Economics, University of Liège, Belgium. 2. WHO Collaborating Centre for Public Health Aspects of Musculoskeletal Health and Ageing. 3. Geriatrics Department, CHU of Liège, (Belgium)

P143 • Sensory impairment and dependency, a prospective study among French elderly women: results from the E3N cohort study
Bouscaren Nathalie 1, MD; A. Charles, MSc, PhD Candidate; T. Bruce-Noël, MSc; J-Y. Reginster, MD, PhD; J. Petermans, MD, PhD; O. Bruyère, PhD 1. Department of Public Health, Epidemiology and Health Economics, University of Liège, Belgium. 2. WHO Collaborating Centre for Public Health Aspects of Musculoskeletal Health and Ageing. 3. Geriatrics Department, CHU of Liège, (Belgium)

P144 • Frailty increases the incidence of mortality in elderly patients with cardiovascular diseases
A. Froid, Sheila, Martin, Jairo Borges, Antonio Carlos Carvalho Federal University of Sao Paulo (Brazil)

P145 • Validity of physical performance tests in screening sarcopenia in low-income middle-aged and older women from Northeast Brazil
Saionara Camara 1, MD; M. Cristiana Gomes, MD 1, 2, 3, 4. Department of Nutritional Epidemiology, the National Institute of Environmental Medicine, Karolinska Institute, Stockholm, Sweden. 5. Department of Epidemiology, School of Public Health, School of Medicine, Tohoku University, Sendai, Japan.

P146 • Genetic determinants of healthy ageing
Kooijkam Mikaël 1, MD; Department of Health and Welfare, Helsinki, Finland. 2. Institute for Molecular Medicine Finland, University of Helsinki, Helsinki, Finland. 3. University Tampere, Esther, Finland 4. Edgar, Department of Epidemiology, GROW School for Oncology and Developmental Biology, Maastricht University, Maastricht, The Netherlands. 5. Department of Public Health Sciences, Penn State Cancer Institute, Hershey, PA, (USA)

P150 • Validity of clinical feeding and nutrition assessment tools for geriatric patients
Kuokkanen Mikko 1, MD; M. Chiesi, MD; A. Ferrando, MD; M. Benito, MD; A. Bartolomeo, MD; A. Leonardi, MD; A. Covino, MD; A. Staccini, MD; A. Aragona, MD; M. Verdecchia, MD. 1. Division of Clinical Nutritional Science, University of Birmingham, Birmingham, (UK).

P151 • Association of tooth loss with incident functional disability in an elderly Japanese population: a propensity score matched cohort study
Kanazawa Kiyonori 1, DDS; S. Yokoyama, MD, PhD; H. Tomita, MD, PhD; H. Arakawa, MD, PhD; K. Fujita, MD, PhD; H. Nagai, MD, PhD. 1. Department of Geriatric and Longevity Science, Tokyo Medical and Dental University, Tokyo, Japan.
NUTRITION INTERVENTION

P162 • Improvements in physical function after concurrent exercise training in older adults are augmented by a high protein diet intervention targeting leucine-rich meals
Michelle Hone, BSc*, 1, James F. Timmons, MSC2, 1, Earl C. Cogan, MSc1, Oriahth Duffy, BSc, John C. Murphy, MSc3, Brendan Fagan, PhD1, 2 (1) School of Health and Human Performance, Dublin City University, Ireland; (2) St Vincent's University Hospital, Dublin, Ireland; (3) School of Medicine and Medical Science, University College Dublin, Ireland

P163 • Vitamin D supplementation is associated with a reduction in self-reported falls among older adults - D-SAFE Feasibility Study
Madison Geoghegan1, Robert T. Mankowski PhD1, Christian Leeuwenburgh PhD1, Marco Pahur MD1, Stephen D. Anton PhD1, 2 (1) Department of Aging and Geriatric Research, University of Florida, Gainesville, FL, USA; (2) Department of Clinical and Health Psychology, University of Florida, Gainesville, FL, USA

P164 • Screening of sarcopenia in a cardiology hospital - distinguishing functional capability of muscular weakness and its consequences
Patricia Amante de Oliveira MD1, PhD1 - Alaine Santos Monteiro, MD1; Cristiane Kovacs, MD1; Karina Gama dos Santos MD1; Isadora Cardoso Pimentel Mota, MD1; Tatiana Magalhães de Almeida MD1; Amanda Guerra de Mares Souza MD1, PhD1; Daniel Machado MD1, PhD1
(1) Nutrition Department, Instituto Dante Pazzanese de Cardiologia, São Paulo, Brazil

P165 • The effects of vitamin D supplementation on skeletal muscle function and fatigue in sedentary and physically active mice
Danielle A Debrun12, Emma Rybak12, Craig Goodman12, Alan Hayes123 1 Institute of Sport, Exercise & Active Living (ISEAL), College of Health & Biomedicine, Victoria University, Melbourne, 3021 Australia 2 Australian Institute for Musculoskeletal Science (AIMSS), Western Health, Melbourne, 3021 Australia 3 Department of Medicine - Western Health, Melbourne Medical School, The University of Melbourne, Melbourne (Australia)

NUTRITION AND AGING

P166 • Influence of quality of nutrition on health of the Elderly workers
Natalia Prokopienko+ Grand PhD, Institute of Gerontology of National Academy of Medical Sciences, Kiev, Ukraine

P167 • Effect of creatine supplementation dosing strategies on aging muscle performance
Daren G. Cawdow acuity of Kinesiology and Health Studies, University of Regina 2. Jennifer Chang, Faculty of Kinesiology and Health Studies, University of Regina (Canada)

P168 • Components of the Mediterranean diet and mortality among older women with frailty
Olive Zhang1, PhD, Shira Zelfein-Sagi, PhD2, James M. Shigaki, DrPh3, Tonya Orchard, PhD4, Robert Wallace, MDS1, Linda Smetters1, PhD5, Lesley Tinker, PhD6, (1) School of Nursing, University of Washington, Seattle, WA (2) Faculty of Health Science and Social Welfare, University of Hawaii, Honolulu, HI (3) Division of Preventive Medicine, University of Alabama, Birmingham, AL (4) College of Education and Human Ecology, Ohio State University, Columbus, OH (5) College of Public Health, University of Iowa, Iowa City, IA (6) Public Health Sciences, Fred Hutchinson Cancer Research Center, Seattle, WA (USA)

P169 • Osteoporosis, active daily living skills, and dietary component interventions of complementary groups meet carer preferences
Fariha Khan1, PhD, Luca V)cocz1, Joan A. Zemel, PhD1, 2, 3 Giselle Z. Zemel, Ph.D.1, 2, 3  (1) Department of Medicine, University of British Columbia (2) Faculty of Health Science and Social Welfare, University of Haifa, Israel (3) Division of Preventive Medicine, University of Alabama, Birmingham, AL

P160 • A meta-analysis of the effect of dietary omega-3 fatty acid supplementation on walking speed and inflammatory markers in older healthy adults
Joanne Stock2, PhD1, 2, An M Valdes PhD1, 2 1 NIHR Nottingham Research Unit in Primary Care, University of Nottingham, UK 2 Division of Rheumatology, Orthopaedics and Dermatology, School of Medicine, University of Nottingham, (UK)

P171 • Association between dietary nutrient intake and sarcopenia: the sarcophage cohort study
Charlotte Beaudart1, PhD1, 2, Mélanie Lacouet1, 2, PhD Candidate, Mathilde Toussaint, PhD3, Jean-Yves Regnier, MD1, 2, Olivier Bruslé, PhD1, 2 1 Department of Public Health, Epidemiology and Health Economics, University of Liège, Liège, Belgium 2 WHO Collaborating Centre for Public Health Aspects of Musculo-Skeletal Health and Aging 3 Equipe de Recherche en Épidémiologie Nutritionnelle (EREN), UMR U1153 Inserm / U1125 Inra / Cnam  / Université Paris 5, 7 et 13  , Centre de Recherche en Epidémiologie et Statistiques Sarbonne Paris Cité (CRBESS) (France)

P172 • Social media - A possibility to improve the dissemination in promiss: a pilot study
Eben Freyberger1, Michael Talakat1, Javier Gancarz1, Marjovenka Vass1,1. Institute for Biomedicine of Aging (IAU Erlangen-Nürnberg) Kobergerstr. 60, 90408 Nürnberg 2. AGE Platform Europe 168 Avenue of Tournon (Brazil) 3. Vrije Universiteit Amsterdam, Amsterdam (The Netherlands)

P173 • Dietary supplementation with curcumin and oleuropein modulates muscle quality during aging
Claire Boury1, Eline Cazaboun1, Olivier Rizzo2, Jacques Vauchoud1, Andreas Rytz1, Marie-Noëlle Horcajada1, Jérôme Feige1, Sonia Karaz2, Denis Breulh1 1. Nestlé Research Center, Lausanne, Switzerland 2. Nestlé Institute of Health Sciences, Lausanne, J (Switzerland)

P174 • Risk factors associated with sarcopenic obesity in elderly residents in the north of the R.J.:FIBRA III study.
Gláucia Campos MD, PhD 1, 2, Virgílio Garcia MD, PhD 2, Maria-Angélica MD, PhD2, Claudia López, MD, PhD 1, Roberto Lourenço MD, PhD 2. (1) Instituto de Medicina Social- Universidade do Estado do Rio de Janeiro (UERJ) - RJ Brasil 2 Laboratório de Envelhecimento Humano- Gerontlab - UERJ - RJ (Brasil)

P175 • Evaluation of nutritional risk through Mini-Nutrition Screening and the Payette Scale in a Geriatric Population
Blanca González MNT1, Patricia Guerrenol1,2, Daniel Gómez PMT1, Sagrario Nuñez MD1, Xochilt Ortiz PhD3, Carolina Vergara1, Daniela Mendoza1, Abraham Treviño1, Patricia Ancer PhD2, Ricardo Salinas MD1 1 (1) Servicio de Geriatría del Hospital Universitario Dr. José Eleuterio González UANL 2 (2) Consulta de Nutrición del Hospital Universitario Dr. José Eleuterio González UANL 3 (3) Facultad de Psicología, UAANL (México)

P176 • Bioelectrical impedance analysis and risk of malnutrition in older adults of the community
Manuela Díaz1, Patricia Guerra, MSc1, Gema González1, Blanca2, Vergara Carolina1, Salinas Ricardo 1.1 (1) Servicio de Geriatría del Hospital Universitario Dr. José Eleuterio González UANL 2 (2) Consulta de Nutrición del Hospital Universitario Dr. José Eleuterio González UANL (México)

P177 • Muscle mass index, grip strength and nutritional status during hospitalization of acute hip fracture
Guerra Javier MD1, Games Daniel PM2, González Blanca MNC2, Ortiz Xóchitl PhD1, Salinas Ricardo MD1, Peña Victor PhD1, 2 1 Servicio de Ortopedia y Traumatología del Hospital Universitario 2. José Eleuterio González UANL 2 (1) Facultad de Medicina y Ciencias de la Salud, Universidad Autónoma del Estado de México, Tultitlán (Mexico)

P178 • Evaluation of swallowing in patients with heart failure
Raquel Gama Fernandez1, Tatiana Magalhães de Almeida1, Marcela Dinalli Gomes Barbosa1, Patricia Amante de Oliveira Soares2 (2 presenter)  Robert T. Mankowski PhD1; Christiaan Leeuwenburgh PhD1; Marco Pahur MD1, PhD2; Fatima Baptista, PhD3, Exercise and Health Laboratory, Faculty of Human Movement, Technical University of Lisbon, Lisbon, Portugal 4 Alivo R. Gouveia, PhD1, 2 Department of Physical Education and Sports University of Madeira Funchal, Portugal, 5 Alex Barreto de Lima, MS2, Faculty of the State of Amazonas, Manaus, Am, Brasil

P179 • Prevalence of obesity, sarcopenia and osteoporosis in a group of older Mexican women
Maria Consuelo Velazquez-Aleja, Maria Esther Ingenay-Camacho, Jararchevon Irina and Marco Zepeda. Professors and researchers. Health care department, metropolitan autonomous University. Mexico city (Mexico)

P180 • Sarcopenic obesity and metabolic syndrome in elderly outpatients: is there an association?
Banita Bodh using Amazonas Oliveira MD1, PhD1, Juliana de Carvalho Lima B2, Marco José de Medeiros MPh1. 1 Instituto de Medicina Social- Universidade do Estado do Rio de Janeiro (UERJ) - RJ Brasil 2 (1) Speech Therapy Department, Dante Pazzanese Institute 3 (2) Nutrition Department, Dante Pazzanese Institute (Brazil)

P181 • Risk of dysphagia and nutritional status of post-stroke older
Guerra Javier MD1, Games Daniel PM2, González Benitia MNC3, Ortiz Xóchitl PhD1, Salinas Ricardo MD2, Peña Victor PhD1 1 Department of Endocrinology and Traumatology of the Hospital Universitario 2. José Eleuterio González UANL 3 (1) Consulta de Nutrición del Hospital Universitario 2. José Eleuterio González UANL (4) Facultad de Psicología, UANL (México)

P182 • Nutritional profile of elderly women in Manaus- AM
Joan Faber MD1, General Surgery, Hospital and Emergency Room August 28, Manaus, Am, Brasil- Myrian Faber, PhD2, University of the State of Amazonas, Manaus, Am, Brasil 3. Vrije Universiteit Amsterdam, Amsterdam (The Netherlands)

P183 • Association between frailty and micronutrient deficiencies in japanese older outpatients
Koichi Kinoshiba Shoshuke Satake, Yasumoto Matsu, and Hidenori Arai National Center for Geriatrics and Gerontology.

P184 • Nutritional deficiencies in amazonian elderly
Myrian Faber PhD2, University of the State of Amazonas, Manaus, Am, Brasil - Joan Faber MD2, General Surgery, Manaus, Am, Brasil- Fatima Baptista, PhD3, Exercise and Health Laboratory, Faculty of Human Movement, Technical University of Lisbon, Lisbon, Portugal, Alivo R. Gouveia, PhD4, Department of Physical Education and Sports University of Madeira Funchal, Portugal, Alex Barreto de Lima, MS2, Faculty of the State of Amazonas, Manaus, Am, Brasil
Osteoporosis & Sarcopenia

P187 • Osteoporosis, self-rated health, and activity of daily living skills of older adults attending congregate meal sites
Eugene D. Viera, Joan A. Vaccaro, Ezio G. Zerini, and Fatma G. Huffman (1) Department of Physical Therapy, Florida International University, Miami, FL, USA (2) Department of Dietetics and Nutrition, Florida International University, Miami, FL, USA

P188 • Mutual associations among frailty, sarcopenia, and morbid obesity: A four-year observations between the second and third ROAD study surveys
Noriko Yoshizumi, Shigeru Morikita, Hiroaki Okazaki, Yoshitaka Idaoka, Risako Komatsu, Chika Hori, Hiroshi Kawaguchi, Koza Nakamura, Toru Akuni, Sakae Tanaka (1) Department of Preventive Medicine for Locomotive Organ Diseases, 22nd Century Medical and Research Center, The University of Tokyo, Tokyo, Japan (2) Department of Preventive Medicine and Management for Musculoskeletal Pain, 22nd Century Medical and Research Center, The University of Tokyo, Tokyo, Japan (3) Department of Orthopaedic Surgery, Sensory and Motor System Medicine, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan (4) JCHO Tokyo Shinjuku Medical Center, Tokyo, Japan (5) National Rehabilitation Center for Persons with Disabilities, Saitama, Japan

P189 • Walking steps correlated with bone mineral density at the femoral neck independently of muscle function in postmenopausal Japanese women
Isao Kinoegawa, PD, Takahiro Tachiki, PM, Masayuki Iki, MD, PhD, Junko Tamaki, MD, PhD, Katsuhiro Kouda, MD, PhD, Yuko Sato, PhD, Etsuko Kajita, PhD, Naomichi Takahara, MD, PhD, Sadanobu Kagamimori, MD, PhD, IPS Study Group (1) Graduate School of Medical Science, Kitasato University, Kanagawa, Japan (2) Department of Public Health, Kinki University Faculty of Medicine, Osaka, Japan (3) Department of Hygiene and Public Health, Osaka Medical College, Osaka, Japan (4) Department of Human Life, Jin-ai University, Fukui, Japan (5) Department of Nursing, Nagoya University Graduate School of Medicine, Aichi, Japan (6) Department of University of Toyama, Toyama, Japan

Biomarkers and Imaging

P190 • Risk factors of sarcopenia in Ukrainian postmenopausal women
Vladyslav Povoronyuk, Nataliia Dzeryozh, Roksolana Povoronyuk (D.F. Chebokov Institute of gerontology NAMS Ukraine, Kyiv, Ukraine)

P191 • Influence of grip strength, physical activity, and dietary protein intake on muscle strength and cross-sectional area in middle-aged women
Christopher J. Kotarsky, MS, CCSF, Kara A. Stone, MS, CCSF, Rachel Ivenson, MS, Wannoo Byun, PhD, Kyle J. Hackney, PhD, CS, CCS, and Sherri N. Stasny, PhD, RD, CSSD, LRD (1) Department of Nutrition, University of Hawaii, Honolulu, HI, USA (2) Department of Nutrition, University of Hawai‘i at Mānoa, Honolulu, HI, USA

P192 • Changes in plasma levels of neurotensin and monocyte chemotactic protein-1 levels after etanercept therapy in rheumatoid arthritis
C Chen National Yang-Ming University Medical School Taipei, Taiwan)

P193 • Screening tool for sarcopenia in older people: a biospectroscopic approach
Ricardo Oliveira Guerra, 3,Leomair Oliveira Silva de Lima, 1, Danielle Srrine Pereira2, Juliana Fernandes de Souza Barboza2, Aline do Nascimento Falcão Freire, 1, Kassio Michel Gomes de Lima, 1. Instituto of Chemistry, Biological Chemistry and Chemosensors, Federal University of Rio Grande do Norte, Natal, RN, Brazil ZPhyical Therapy Department, Federal University of Almeria, Almuñecar, Almeria, Spain, 3 Department of Physical Therapy, Federal University of Rio Grande do Norte, Natal, RN, Brazil

P194 • A new CT based approach to determine muscle mass and adipose tissue of paraspinal muscles

P195 • OMIC signatures in risk of frailty - a meta-analysis of nested case-control studies from the FRAILMOMS initiative
Walter P193, 2, David Gomez-Calderon 3, B Davies M1, F Garcia MD 4, Jepson Togneri 3, Rodriguez-Matias MD 5, Pons5, on behalf of the FRAILO MICS Consortium (1) Fundación para la Investigación Biomédica Getafe University Hospital, Madrid, Spain (2) Dept. of Epidemiology and Biostatistics, University of California San Francisco, United States (3) Karolinska Institutet, Stockholm, Sweden. (4) King’s College London, London, United Kingdom. (5) Geriatrics Department, Geriatric Geriatric Vener del Valle Hospital, Toledo, Spain (6) Geriatrics Department, Getafe University Hospital, Madrid, Spain

P196 • Biomechanics in heart failure: systematic review of current evidence
Eric Carelli (1), Melissa Bendayan (2,3), Alexandre O’Brand (3), Louis Mullie (1), Jonathan Affalio (2,3,4) (1) Department of Medicine, McGill University, Montreal, Quebec, Canada; 2 Division of Experimental Medicine, McGill University, Montreal, Quebec, Canada; 3 Centre for Clinical Epidemiology, Lady Davis Institute, Jewish General Hospital, Montreal, Quebec, Canada; 4 Division of Cardiology, Jewish General Hospital, McGill University, Montreal, Quebec, Canada

P197 • Semi-automated segmentation of psoriatic muscle area in older adults undergoing aortic valve replacement
Wayne Lok OK Cho, Centre for Clinical Epidemiology, Lady Davis Institute, Jewish General Hospital, McGill University, Montreal, QC, Canada Samuel Mamane - Department of Medicine, McGill University, Montreal, QC, Canada Louis Mullie - Department of Medicine, McGill University, Montreal, QC, Canada Matthew Ades - Faculty of Medicine, McGill University, Montreal, QC, Canada Amanda Trnkus - Centre for Clinical Epidemiology, Jewish General Hospital, McGill University, Montreal, QC, Canada - Joslin - Division of Geriatric Medicine, McGill University, Montreal, QC, Canada - Giuseppe Martucci - Department of Cardiology, McGill University, Montreal, QC, Canada Nicolò Piazza - Division of Cardiology, McGill University, Montreal, QC, Canada Jonathan Affalio - Division of Cardiology, McGill University, Montreal, QC, Canada

P198 • Panoramic ultrasound muscle cross-sectional area normalized to echo intensity as a marker for the loss of muscle quality with aging
Kyle J Hackney PhD, CCSF, Christopher J. Kotarsky, MS, CCSF, Kara A Stone, MS, CCSF, and Sherri N. Stasny, PhD, RD, CSSD, LRD (1) North Dakota State University, Fargo, ND, USA

Osteoporosis & Sarcopenia

P199 • Cognitive and psychosocial factors associated with reduced muscle mass, strength, and function in residential care apartment complex residents
Murad H. Taani, MPH, PhD, RN, College of Nursing, University of Wisconsin-Milwaukee Ellen Siglinsky, BS, CCRC, Osteoporosis Clinical Research Program, University of Wisconsin - Madison Christine R. Kovach, PhD, RN, FAAN, FGSA, College of Nursing, University of Wisconsin-Milwaukee Joan Buehring, MD, Assistant Professor of Medicine, Division of Geriatrics and Gerontology/Osteoporosis Clinical Research Program, University of Wisconsin - Madison, USA

P200 • Association between FRAX and sarcopenia in community-dwelling elderly in Japan
Noboru Udo, MD, PhD, Tomokazu Furuya, PT, Shoichi Ide, MD, Yoshifumi Miyazaki MD, Kenji Fuji MD, Taisaku Syouyuki MD, Nobuyo Yamashita MD, PhD Kurotsuba Fukueka Kasuga Rehabilitation Clinic (Japan)

P201 • The mortality determinants of sarcopenia, MMSE and comorbidities in hospitalized geriatric patients.
Scott Lamers, 1, Robin Degrick, 1, Stany Perris, 2 (1) School of Medicine, University of Antwerp, Antwerp 2610, Belgium (2) University Centre for Geriatrics, ZNA (Ziekenhuis Netwerk Antwerpen), Antwerp 2000 (Belgium)

P202 • Muscles and intramuscular adipose tissue as predictors of 4-year mortality risk.
PerkSiM, MD1,2,3, Scott Lamers1, Robin Degrick2, Anne-Marie De Cock, MD1, Vandvandae Mauits, MD, PhD,1,2,1 ZNA (ZiekenhuisNetwerk Antwerpen) / Department Geriatrics, Universiteit Antwerpen 1 Department Geneseskunde, Universiteit Antwerpen 2 Department Gerechtelijke Geneeskunde, Universiteit Antwerpen 3 Belgian Ageing Muscle Society (Belgium)

P203 • One mineral density, spinal micro-architecture (bts data) and body composition in the older Ukrainian women with vertebral fragility fractures
Vladyslav Povoronyuk, Nataliia Dzeryozh D.F. Chebokov Institute of gerontology NAMS Ukraine, Kyiv, Ukraine

P204 • Potential factors involved in sarcopenia progression in community-dwelling older adults
Tatjana MBBS1, Leonhard, PhD,2, Noor Hafizah, MBBS3,4, Yeo Audrey, BSc3, Yeo Suzanne, BSc3, Ding Woy Yung, MBBS3,5, Lim Wei Shiong, MBBS3,5 Department of General Medicine (Geriatric Medicine), Sengkang General Hospital. Singapore 1Department of Rheumatology, Allergy and Immunology, Tan Tock Seng Hospital. Singapore 2Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital. Singapore 4Department of Continuing and Community Care. Tan Tock Seng Hospital. Singapore 5Department of Geriatric Medicine. Tan Tock Seng Hospital. Singapore
P206 • Aging, severe sarcopenia with metabolic syndrome in home care
Yvonne Sug Handjiantj, 1 Yuda Suriana, 2 Nelly Tina Wijaya 2 1. Department of Public Health & Nutrition, Faculty of Medicine, Atma Jaya Catholic University of Indonesia, North Jakarta, Jakarta, Indonesia. 2. Department of Nutrition, Faculty of Medicine, Atma Jaya Catholic University of Indonesia, North Jakarta, Jakarta, Indonesia 3. Center of Health Research, Faculty of Medicine, Atma Jaya Catholic University of Indonesia, North Jakarta, Indonesia

P207 • A high score on the SARC-F screening questionnaire for sarcopenia is associated with lower quality of life in patients attending High Risk Foot Clinic. Lena Charlax (St Vincent’s Hospital Melbourne Australia) Leonard Charlax (Flory Institute of Neuroscience and Mental Health, Melbourne, Australia), Michelle Proctor (St Vincent’s Hospital Melbourne Australia), Anna Galligan (St Vincent’s Hospital Melbourne Australia), David Murphy (St Vincent’s Hospital Melbourne Australia), Mark Westcott (St Vincent’s Hospital Melbourne Australia), Richard J MacIaac (St Vincent’s Hospital Melbourne Australia), Elf I.Ekin The University of Melbourne, (Australia)

P208 • Altered expression of H19/miR-675 and regulation of SMADI5 expression in skeletal muscle is associated with low muscle mass in community-dwelling older adults: findings from the Hertfordshire Sarcopenia Study (HSS)
FadiAntoun, 1 F.Migliavacca, 2 F.Garratt, 1, SJ Barton, 1 P.Tilcombe, 1, I.Westbury, 1, A.Charpe, 2, A.Baczyńska, 2, R.Dodd, 2, HC.Roberts, 4, AA.Sayer, 4, 6, S.Shaw, 3, A.Shepheard, 3, C.Cifarelli, 3, N.Karmanci, 10, P.Descombes, 2, C.Cope, 1, KM.Godfrey, 3,5, JN.Feige, 2, HP.Patel, 3, 4,5, YK.Lillycrop, 11, 9 and the EpiGen-MEMOSA Study Group 1. Joint first authors, 9 Joint senior authors, 1 Human Development and Health Academic Unit, Faculty of Medicine, University of Southampton, UK. 2 Nestle Institute of Health Sciences, Lausanne, Switzerland. 3 MRC Lifecourse Epidemiology Unit, University of Southampton; 4 Academic Geriatric Medicine, Faculty of Medicine, University of Southampton; 5NHHR Southampton Biomedical Research Centre, University of Southampton & University Hospital Southampton NHS Foundation Trust, UK; 6GAGE Research Group, Institute of Neuroscience, Newcastle University, UK; 7NHHR Newcastle Biomedical Research Centre; Newcastle University and Newcastle upon Tyne Hospitals NHS Foundation Trust; BLOGins Institute, University of Auckland, Auckland, New Zealand; Blames Cook University, Australia, 10Singapore Institute for Clinical Sciences, Singapore; 11Biological Sciences, University of Southampton, (UK)

P209 • Body mass index recommendations and sarcopenia in hospitalized older adults
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P210 • Factors associated with low muscle mass index in aging
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P211 • Sarcopenia is associated with postural balance and risk of falls in community-dwelling older women
André Bonadias Gadelha, MSC 1, 3, Silvia Gonçalves Ricci Nei, MSc 1, Ricardo Jaci de Oliveira, PhD 1, Martim Botto, PhD 1, Ana Cristina de David, PhD 1, Baruch Vainsbeinboim, PhD 2, and Ricardo Moreno Lima, PhD 1 1 Faculty of Physical Education, University of Brasilia, Brasilia, Distrito Federal, Brazil 2 Master of Cancer Care Program, School of Health Sciences, Saint Francis University, Loretto, PA, USA 3 3 Masai Institute of Research and Education, Brasilia, (Brazil)

P212 • Assessing sarcopenia risk using established metrics in obese, middle-aged and older Appalachian males
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P214 • Design and validation of a software for the diagnostic of sarcopenia in community-dwelling chilean elders
Lydia Lerato PhD, Barbara Angel PhD, Carlos Marquez, Rodrigo Saguez, Cecilia Albalá MD Institute of Nutrition and Food Technology (INATA) - University of Chile, Santiago, (Chile)

P215 • Prevalence of sarcopenia with a bipolar impedance meter at a cardiac rehabilitation center in Bogotá, Colombia
Luz Karime Alzib MD1 Juan Carlos Galvit MD1 Orlando José Angulo MD1 (1) Department of Physical Activity and Sports Medicine, Hospital Infantil Universitario de San José, Fundación Universitaria de Ciencias de la Salud, Bogotá, (Colombia)

P216 • Lipid accumulation product is inversely associated with skeletal muscle index indicating increased cardiometabolic risk in sarcopenic women.
Elenore Poggiogalle, MD1, Katie A. O’Brien1, Shawn Goodlett1, Leyla Akwendiyeva1, Elena Valipj1 (1) University of Texas Medical Branch, Galveston, TX, USA

P217 • Association between sarcopenia and osteoporosis in community dwelling elderly patients
Melissa Hughes MD1, Ricardo Salinas MD1, Gladys Garza MD1, Xochilt Ortiz PhD1 (1) Geriatric Unit, University Hospital 7Dr. Jose Eleuterio Gonzalez? UANL, Monterrey, NL, MX. 2 Faculty of Psychology UANL, NL, (Mexico)

P218 • Dynapenic-obesity as a risk factor for falls in older women
Julia de Moraes Ellis, 1 Josela Cristina Pereira, MSc1, Silvia Gonçalves Ricci Nei, MSc1, André Bonadias Gadelha, MSc1, Ricardo M. Lima, PhD1. 1 Faculty of Physical Education, University of Brasilia, Brasilia, Distrito Federal, Brazil 2 Masai Institute of Research and Education, Brasilia, (Brazil)

P219 • Hand grip strength and sarcopenia in patients with postural systolic heart failure patients receiving left ventricular assist devices
Amanda R.Vest MBB, MPH1, Corinne Pellow MA1, MA1, Nathan Yuan BS1, Angelo DeNofrio BA1, Alexandra Costan BA1, Edward Saltzman MDD(1) Tufts Medical Center, Boston, MA, USA (2) Friedman School of Nutrition Science and Policy, Tufts University, Boston, MA, USA

P220 • Factors associated with low bone mineral density among white women - Santos city, Brazil
Marilia Sperotto MD PhD, 1 Alice Maria Esteves Ph D, 1, Rafaela Ribeiro Paulo Missul, 1, Ignez Arantes Moreira, 1, Carolina Miyahara, 1, Joél Souza MD, PhD1, P. Maria Regina Simas Torres Klein MD1, PhD1 (1) Rio de Janeiro State University, Rio de Janeiro, RJ, (Brazil)

P221 • Sarcopenia in adult renal transplant recipients: frequency and relationship with age, gender, type of graft donor, time from transplantation, type of immunosuppressive drugs and time on dialysis before transplant
Ana Paula Medeiros Menna Barreto MD, PhD student1, Maria Inês Barreto Silva MD, PhD1, Keli Trindade Carvalho MD1, Mariana Silva Costa MD student1, Karine Scanci Silva Pontes MD student1, Stephanie Giannini1, Jessica Vieira Pires1, Fernanda Gomes Abrahan1, Edson Souza MD, PhD1, Maria Regina Simas Torres Klein MD, PhD1 (1) Rio de Janeiro State University, Rio de Janeiro, RJ, (Brazil)

P222 • Is skipping meals associated with adverse health outcomes in community dwelling older adults? Findings from the National Health and Aging Trends Study
Loretta R. Anderson, M.H.S., M.A.1, 2 1Johns Hopkins Bloomberg School of Public Health, Department of Mental Health 2Epigenetic Data Science, Director of Research, Neurosciences Division

P223 • Association of Diabetes Mellitus with frailty phenotype and sarcopenia in young, middle aged and older adults
Miriam Zylberglait Lisigurski, MD1, Carmen Cartwright, MD, Shimalla Ravindranathan, MD, Sameer Shaharyar, MD, Osman Perez, MD, Aimée Almanzar, MD, Jadid Grewal, MD, Saied Alusabagh, MD Affiliation: Internal Medicine Residency Training Program. Aventura Hospital and Medical Center, (USA)

P224 • Characteristics of the frailty phenotype in young, middle-aged, and older adults. A single center experience
Miriam Zylberglait Lisigurski, Sameer Shaharyar (1) Carmen Cartwright (1) Omair Jamal (1) Chi Chau Lee (1) Shimalla Ravindranathan (1) Matteo Cesari (2) Internal Medicine Residency Training Program. Aventura Hospital and Medical Center, USA. 2) Centre Hospitalier Universitaire de Toulouse. (France)

P225 • Implementation of an Integrated Healthy Aging Clinic to investigate frailty, sarcopenia, and locomotor syndrome in a clinical setting
Yasumoto Motoi, Hidenori Arai, Tatsurô Watanabe, Shooue Satake, Kazuyoshi Senda, Izumi Kanda, Keiichi Kinosita, Naoki Inoue, Sanita Mona Sabre and Atsushi Harada National Center for Geriatrics and Gerontology, (Japan)
NESTLE HEALTH SCIENCE - SPONSORED SYMPOSIUM

Interactive Session: Practicalities of Sarcopenia Management

Each speaker will review a patient case and facilitate interactive input on practical aspects of better medical care (i.e., strategies to increase awareness among both multidisciplinary clinicians and patients, how to screen for and treat sarcopenia).

- Orthopedic Surgery
  Alan H Daniels, MD - Assistant Professor of Orthopaedic Surgery (Providence, RI - USA) [TBC]

- Physiotherapy / Rehabilitation
  Reto W. Kressig, MD - Professor & Chair of Geriatrics (Basel - Switzerland) [TBC]

Friday, March 2 • 17:00 / 18:00

LONGEVERON - SPONSORED SYMPOSIUM

Regenerative Medicine to Treat Chronic, Debilitating Conditions Associated with Aging

Longeveron LLC is a cellular therapy company developing biological solutions for chronic aging-related diseases and conditions, such as Aging Frailty and Alzheimer’s disease. Longeveron’s allogeneic mesenchymal stem cell product is currently being tested in 4 clinical studies under FDA-authorized Investigational New Drug (IND) applications, including a multicenter, randomized, placebo-controlled Phase 2b study in frail elderly patients with inflammation and mobility limitations. Longeveron’s symposium will feature experts from around the world, and is intended to provide a forum for discussion of the therapeutic potential for regenerative medicine to treat chronic, debilitating conditions associated with aging.

Joshua M. Hare, MD, FACC, FAHA
Co-Founder & Chief Science Officer, Longeveron LLC
Director, Interdisciplinary Stem Cell Institute, University of Miami Miller School of Medicine - Miami, FL

Sean X. Leng, MD, PhD
Associate Professor of Medicine - Division of Geriatric Medicine and Gerontology
Department of Medicine - Johns Hopkins University School of Medicine - Baltimore, MD

Bruno Vellas, MD
Professor of Internal Medicine and Geriatrics - Chair Gerontopole
Toulouse University Hospital - Toulouse, France