8:30/9:00  WELCOME
Marco PAHOR (Gainesville, USA), Bruno VELLAS (Toulouse, France), Jorge RUIZ (Miami, USA), Matteo CESARI (Milano, Italy), Roger FIELDING (Boston, USA)

9:00/9:20  KEYNOTE 1
DO-HEALTH TRIAL  Chairman: Bruno Vellas, Toulouse (France) Heike Bishoff Ferrari, Zurich University, (Switzerland)

9:20/10:05  SYMPOSIUM 1
U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS) INITIATIVES TO IMPROVE FUNCTION, PROMOTE HEALTHY AGING AND INDEPENDENT LIVING AMONG OLDER ADULTS
Moderator: Rosaly Correa-de-Araujo, MD, MSc, PhD - National Institute on Aging (NIA), National Institutes of Health (NIH), U.S. Department of Health and Human Services (HHS)
- Aging Research Supported by the National Institute on Aging (NIA)
  Marie A. Bernard, MD - National Institute on Aging (NIA), National Institutes of Health (NIH), U.S. Department of Health and Human Services (HHS)
- Aging Research Supported by the National Institute on Aging (NIA): Announcing the NIA Central Biorepository
  Rosaly Correa-de-Araujo, MD, MSc, PhD - National Institute on Aging (NIA), National Institutes of Health (NIH), U.S. Department of Health and Human Services (HHS)
- Chronic Disease Self-Management Education (CDSME) Programs and Other Services and Supports Resources Funded by the HHS Administration for Community Living (ACL)
  Carol Nohelia Montoya, FMD, MPH - Florida Health Networks (FHN)

10:05/10:20  CONFERENCE 1  Moderators: Angelo Parini, Toulouse (France), Anurag Singh, Ecublens (Switzerland)
RACE DEPENDENT CHANGES TO GENE EXPRESSION IN FRAIL, MIDDLE AGED ADULTS
Calais S. Prince PhD, Nicole Noren Hooten PhD, Nicole Mode MSc, Yongqing Zhang PhD, Ngazi Ejiofor MD, Kevin Becker PhD, Alan B. Zonderman PhD, and Michele K. Evans PhD - 1) Laboratory of Epidemiology and Population Sciences, National Institute on Aging, National Institutes of Health, Baltimore, MD; USA 2) Laboratory of Genetics and Genomics, National Institute on Aging, National Institutes of Health, Baltimore, MD; USA

10:20/10:35  CONFERENCE 2  TRANSLATING UROLITHIN A BENEFITS ON MUSCLE MITOCHONDRIA INTO HUMANS
A. Singh 1, P. A. Andreux 1, W. Blanco-Boso 1, P. Aebischer 1, J. Auverx 1, C. Risch 1 - 1 Amazentis SA, Switzerland 2 Brain Mind Institute, Ecole Polytechnique Federale de Lausanne, Switzerland 3 School of Life Sciences, Ecole Polytechnique Federale de Lausanne, (Switzerland)

10:35/11:05  COFFEE BREAK - POSTER SESSIONS - EXHIBITS

11:05/11:20  CONFERENCE 3  Moderators: Matteo Cesari, Milan (Italy), Cyrus Cooper, Southampton (UK)
DEVELOPMENTS IN THE PATHOPHYSIOLOGIC BASIS OF FRAILTY IN TYPE 2 DIABETES AND EMERGING ROLES OF APELIN IN FUTURE CLINICAL TRIALS
Cedric Dray, INSERM (France) - Alan Sinclair, London (UK)

11:20/11:35  CONFERENCE 4  COMPENSATORY ADJUSTMENTS IN MOTOR UNIT BEHAVIOR DURING FATIGUE DIFFER FOR YOUNGER VERSUS OLDER MEN
Matt S. Stock 1, Jacob A. Mota 1, Dennis P. Kwor 1, Mary Kennedy 1, Eric J. Sobolevski 1, Youngdeok Kint 1, Joaquim Gonzales 1 - 1 University of Central Florida, Orlando, FL 2 University of North Carolina at Chapel Hill, Chapel Hill, NC 3 Furman University, Greenville, SC 4 Texas Tech University, Lubbock, TX (USA)

11:35/11:50  CONFERENCE 5  IS FRAILTY ASSOCIATED WITH WORSE OUTCOMES AFTER TOTAL JOINT REPLACEMENTS?
Lisa A. Mandell, MD, MPH 1, Charles N. Cornell, MD 1, Michael B. Cross, MD 1, Alejandro Gonzalez Della Valle, MD 1, Mark P. Figgie, MD 1, Seth A. Jerabek, MD 1, Justin T. Do, BSE 1, Mayu Sasaki, MPH 1, Nathaniel Hupert, MD, MPH 1, Jackie Fink, MPH 1, Steven K. Magid, MD 1, 1 Hospital for Special Surgery, New York, NY 2 Weill Cornell Medicine, New York, NY (USA)

11:50/12:00  ORAL COMMUNICATION 1  MEMBRANE LIPID REPLACEMENT WITH ORAL NTFACTOR LIPIDS® TO RESTORE MITOCHONDRIAL FUNCTION, REDUCE FATIGUE, PAIN AND OTHER SYMPTOMS AND IMPROVE QOL INDICATORS IN AGED SUBJECTS
Garth L. Nicolson, PhD, MD(H) 1 and Paul Breeding, DC 2 - 1 Dept. of Molecular Pathology, The Institute for Molecular Medicine, Huntington Beach, CA, USA 2 Blue Hole Wellness, San Antonio, TX, USA

12:00/12:10  ORAL COMMUNICATION 2  OLDER ADULTS WITH BOTH COGNITIVE AND PHYSICAL IMPAIRMENTS ARE AT HIGHEST RISK TO DEVELOP DEMENTIA: A 12-YEAR LONG POPULATION-BASED STUDY ORAL
Giulia Grande 1, Debora Rizzuto 1, Davide L Vetrano 1, Anna Marseglia 1, Nicola Vanacore 1, Erika Laukka 1, Anna-Karin Welmer 1, Laura Fratiglioni 1, 1 Aging Research Center, Department of Neurobiology, Care Sciences and Society Karolinska Institutet and Stockholm University, Stockholm, Sweden 2 Department of Geriatrics, Catholic University of Rome, Italy 3 National Centre of Epidemiology, National Institute of Health, Rome, Italy 4 Stockholm Gerontology Research Center, Stockholm, (Sweden)
12:10/12:20  ORAL COMMUNICATION 3
LONG TERM RATES OF CHANGE IN MUSCULOSKELETAL AGING: FINDINGS FROM THE HEALTH, AGING AND BODY COMPOSITION STUDY
Leo Westbury, MSc, Holly Syddall, PhD, Elaine Dennison, PhD, Jane Cauley, DrPH, Tamara Harris, MD, MS, Eric Shiroma, Jr, ScD, MEd, Bret Goodpaster, PhD, Anne Newman, MD, MPH, Cyrus Cooper, FMedsC 1 MRC Lifecourse Epidemiology Unit, University of Southampton, Southampton, UK; 2 Department of Epidemiology, University of Pittsburgh, Pittsburgh, Pennsylvania, USA; 3 Laboratory of Epidemiology and Population Sciences, Intramural Research Program, National Institute on Aging, Bethesda, Maryland, USA; 4 Division of Preventive Medicine, Department of Medicine, Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts, USA; 5 Translational Research Institute for Metabolism and Diabetes, Florida Hospital, Orlando, Florida, USA

12:20/12:30  ORAL COMMUNICATION 4
INTERVENTIONS TO TREAT FRAILTY: A SYSTEMATIC REVIEW AND NETWORK META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS
Ahmed Negm1,2, Courtney C Kennedy1,3, Ian D Cameron4, Lehana Thabane5, Areti-Angeliki Veroniki6,7, Jonathan D. Adachi3, Julie Richardson2, Maria Petropoulou1, Saad Alsad1, Papaioannou1,2. Geriatric Education and Research for the Aging Sciences (GERAS), St Peter's Hospital, Hamilton ON, Canada; 2 School of Rehabilitation Science, McMaster University, Hamilton, ON, Canada; 3 Department of Medicine, McMaster University, Hamilton ON, Canada; 4 John Walsh Centre for Rehabilitation Research | Sydney Medical School Northern, University of Sydney, Kolling Institute | Royal North Shore Hospital | St Leonards, NSW, Australia; 5 Department of Health Research Methods, Evidence, and Impact, McMaster University, Hamilton ON, Canada; 6 Department of Primary Education, School of Education, University of Ioannina, Ioannina, Greece; 7 Li Ka Shing Knowledge Institute, St. Michael’s Hospital, Toronto, Ontario, Dept of Family and Community Medicine, College of Medicine, King Saud University, Riyadh, (Saudi Arabia)

1:50/2:35  SYMPOSIUM 2
NOVEL TARGETS FOR TREATING PHYSICAL AND COGNITIVE SYMPTOMS OF FRAILTY
Moderator: Tom Buford, University of Alabama at Birmingham, Department of Medicine (USA)
- Neuroinflammation as a contributor to cognitive and physical frailty
  Yenisel Cruz-Almeida, University of Florida, Department of Aging and Geriatric Research (USA)
- Weakened skeletal muscle circadian rhythms in older adults with chronic idiopathic fatigue
  Todd Manini, University of Florida, Department of Aging and Geriatric Research (USA)
- The Gut Microbiome as a Target for Physical and Cognitive Frailty
  Tom Buford, University of Alabama at Birmingham, Department of Medicine (USA)

2:35/3:25  KEYNOTE 2
EFFECT ON PROTEIN INTAKE ON MUSCLE MASS, PERFORMANCE AND PHYSICAL FUNCTION IN FUNCTIONALLY LIMITED OLDER ADULTS
Chairman: Marco Pahor, Gainesville, FL, (USA)
Shalender Bhasin, Harvard Medical School, Boston (USA)

3:25/3:55  PANEL DISCUSSION
INTERNATIONAL CLINICAL PRACTICE GUIDELINES FOR SARCOPENIA: SCREENING, DIAGNOSIS AND MANAGEMENT
John Morley, Saint Louis (USA), Elsa Dent, Adelaide, (Australia)

3:55/4:40  SYMPOSIUM 3
BIOENERGETICS OF FRAILTY: FROM THE ANIMAL MODELS TO THE HUMAN EVIDENCE
Moderators: Leocadio Rodriguez Manas, MD, PhD, Director GARN-IAGG scientific Director of ciberfes, head of the department of geriatrics, hospital universitario de Getafe, Spain; Jose Vina, MD, PhD Society for research on free radicals (SRFR), chair, department of physiology, Universidad de Valencia, Spain
- Longitudinal Trajectories of Physical Function in Mice
  Rafael de Cabo, (NIH/NIA/IRP) National Institute of Aging, Baltimore, (USA)
- The isocaloric Ketogenic Diet reduces frailty and extends longevity in mice: potential mechanisms.
  Gino Cortopassi, Professor, Molecular Biosciences UC Davis, (USA)
- The role of bioenergetics in human frailty
  Jeremy D. Walston, MD- Raymond and Anna Lublin Professor of Geriatric Medicine Johns Hopkins Asthma and Allergy Center, Baltimore, (USA)
4:40/4:50  **ORAL COMMUNICATION 5**  Moderators: Marco Pahor, Gainesville (USA), Pierre Dilda, Paris (France)

**INHIBITION OF KYNURENIНЕ PRODUCTION PROTECTS SKELETAL MUSCLE FROM THE AGE-RELATED LOSS OF MASS AND STRENGTH.**

Helen Kaiser †1, Kangjun Yu MD†, Chirayu Pandya PhD, Carlos M. Isales MD, Meghan E. McCrie-Lawrence PHD1, Maribeth Johnson†, Sadanand Fulzele PhD, Mark W. Hamrick PhD† 1 Medical College of Georgia, Augusta University, Augusta, (USA)

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4:50/5:00  **ORAL COMMUNICATION 6**

**EARLY KIDNEY DYSFUNCTION IS ASSOCIATED WITH LONGITUDINAL DECLINE IN PHYSICAL PERFORMANCE IN THE ELDERLY**

Petra Bozkova PhD1, Joshua Bartol MD2, Howard A Fink MD, MPH3, John A Robbins MD, MPH4, Jane A Cauley DrPH5, Joachim Hix MD6, Kenneth J Mukamel MD, MPH7, † Department of Biostatistics, University of Washington, Seattle, WA 2, Division of Endocrinology Kaiser Permanente of Georgia and the Division of Endocrinology, Emory University School of Medicine, Atlanta, GA 3. Geriatric Research Education and Clinical Center, VA Health Care System, Minneapolis, MN 4. Department of Medicine, University of California at Davis, Modesto, CA 5. Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA 6. Division of Nephrology, University of California at San Diego, San Diego, CA 7. Department of Medicine, Beth Israel Deaconess Medical Center, Brookline, MA (USA)

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5:00/5:10  **ORAL COMMUNICATION 7**

**EVALUATING THE PHYSIOTYPE OF FRAILTY: VALIDATION OF A MEASURE OF PHYSIOLOGICAL MULTISYSTEM DYSREGULATION IN TWO DATASETS**

A Gross, Michelle C. Carlso1, Mara A. McAdams-DeMarco, Dan Mungan1,2,3,4,5 Elena Simonsick1,2,3,4,5 Ravi Varadharajan1,2, Qian-Li Xue1,2,3,4,5 Jeremy Walsh2, Karen Bandeen-Roche2,3, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA 2. Department of Mental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA 3. Department of Psychiatry, University of California, San Diego, CA, USA 4. Department of Medicine, Division of Geriatric Medicine and Gerontology, Johns Hopkins School of Medicine, Baltimore, MD, USA 5. Intramural Research Program, National Institute on Aging, Baltimore, Maryland, USA 6. Division of Biostatistics & Bioinformatics, Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins School of Medicine, Baltimore, MD, USA 7. Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (USA)

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5:10/5:20  **ORAL COMMUNICATION 8**

**CT-DERIVED MUSCLE MASS AND MYOSTEATOSIS IN PATIENTS WITH SOFT-TISSUE SARCOMA: RESULTS FROM A PHASE-3 TRIAL AT 81 SITES IN 13 COUNTRIES**

Praman Fuangfa, MD1, Yao Lu, ScW2, Lanny Yao, MD1, Karla V. Ballman, PhD1, Patrick Kortebein, MD1, Robert J. Canter, MD1, Leon Lenchik, MD4 Robert D. Boutin MD1,2 1. Departments of Radiology, Physical Medicine and Rehabilitation, and Surgery, University of California Davis, School of Medicine, Sacramento, CA, USA 2. Department of Healthcare Policy and Research, Weill Cornell Medical College, New York, NY, USA 3. Radiology and Imaging Sciences, National Institutes of Health, Bethesda, MD 4. USA (4) Dept of Radiology, Wake Forest School of Medicine, Winston-Salem, NC, (USA)

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5:20/5:30  **ORAL COMMUNICATION 9**

**EFFECT OF RESISTANCE EXERCISE TRAINING AND FISH OIL SUPPLEMENTATION ON THE ADAPTIVE RESPONSE OF MUSCLE IN SARCOPENIC OLDER WOMEN**

Natalia Maia da Cruz Alves MsC1,2, Carolyn Anne Greig PhD1, Karina Pfrimer PhD1, Priscila Carvalho MsC3, Ellen Christine de Freitas PhD4, Thiago Neves MsC5, Juliana Cristina Lemos dos Santos Marches PhD1, Daniela Dalpuebl Campanari MsC1, Olga Laura Sena Almeira MD6, Eduardo Ferragoli MD PhD1, (1) Department of Medicine, Ribeirao Preto Medical School, University of Sao Paulo, Ribeirao Preto, SP, Brazil 2. School of Sport, Exercise and Rehabilitation Sciences and MRC-Arthritis Research UK Centre for Musculoskeletal Ageing Research, University of Birmingham, Birmingham, UK 3. Sao Paulo State University (Unesp), Araraquara, SP, (Brazil)

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5:30/5:40  **ORAL COMMUNICATION 10**

**SARCONEOS (API BIO101) TARGETS MASS RECEPTOR WITHIN THE PROTECTIVE ARM OF THE RENIN ANGIOTENSIN SYSTEM AND PROVES EFFICACY IN VARIOUS MODELS OF MUSCLE WASTING**

Pierre Dilda1, Mathilde Lati1, Maria Serova2, Blaise Didry-Barca2, Sissi On3, Stanislas Veillet1, René Lafort1 1. Biophytis, Sorbonne Université, Paris, France 2. Sorbonne Université, UPMC Univ Paris, Paris-Seine Biology Institute (BIOSIPE), CNRS, Paris, (France)

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5:40/6:20  **SYMPOSIUM 4**

**A GLOBAL CALL TO ACTION TO IMPROVE CARE FOR OLDER ADULTS WITH FRAGILITY FrACTURES**

Jay Magaziner on behalf of the Fragility Fracture Network

- Mobilizing the Globe: A Call to Action for Treating and Managing Hip Fractures
  - Jay Magaziner, PhD, MSHyg Professor of Epidemiology, Division of Gerontology, Department of Epidemiology and Public Health, School of Medicine, University of Maryland, Baltimore, MD, USA
- Sarcopenia as a Target for Care After Hip Fracture
  - Denise Orwig, PhD Associate Professor of Epidemiology, Division of Gerontology, Department of Epidemiology and Public Health, School of Medicine, University of Maryland, Baltimore, MD, USA
- Promising Interventions Targeting Sarcopenia in Hip Fracture Patients
  - Ellen Binder, MD Professor of Medicine, Division of Geriatrics and Gerontology, Department of Medicine, Washington University School of Medicine, St Louis, MO, USA
8:00/9:00
BREAKFAST INDUSTRY EXPERT PANEL: Hosted by Amazentis
NEW PARADIGM (MITOCHONDRIAL FUNCTION TO ADDRESS MUSCLE HEALTH) VS. OLD PARADIGM (BOOSTING MUSCLE MASS)
An expert panel comprising thought leaders in the field of muscle health will be discussing the important paradigm shift in how we address muscle health during aging: from the old established paradigm of targeting improvement’s in muscle mass, to the new emerging concept of improving muscle bioenergetics and mitochondrial health to boost muscle function
Chairman: Taylor Wallace, PhD, CEO at the Think Healthy Group
• Roger Fielding, PhD, Professor, Tufts University Boston, MA, (USA) - Bill Evans, PhD, Duke University, Durham, (USA)
• Jeremy D. Walston, MD- Professor of Geriatric Medicine Johns Hopkins University, Baltimore, (USA)

9:00/9:15
PRESENTATION OF THE ICFSR LIFETIME ACHIEVEMENT AWARD
Lifetime Achievement Award is awarded to Dr. Jack Guralnik’s for his long time contribution to the understanding of the epidemiology of age-related changes in physical functioning and disability and for his continued efforts in the promotion of sarcopenia as a clinically significant syndrome of advancing age.
Jack Guralnik, University of Maryland, Baltimore, (USA)

9:15/9:35
KEYNOTE 3
INTRINSIC CAPACITY Chairman: Bruno Vellas, Toulouse (France)
Matteo Cesari, University of Milan (Italy)

9:35/10:20
SYMPOSIUM 5
THE ROLE OF MITOCHONDRIAL FUNCTION IN CONDITIONS OF ACCELERATED AGING: IMPLICATIONS FOR NUTRITIONAL THERAPY Chairman: Roger Fielding, Tufts University Boston, (USA)
• Novel aspects of mitochondrial biology and its implications for healthy aging
Pinchas Cohen (University of Southern California, Los Angeles, (USA)
• Benefits of increasing glutathione concentrations with cysteine and glycine supplementation demonstrated in HIV patients
Rajagopal V Sekhar (Baylor College of Medicine, Houston, (USA)

10:20/10:40
KEYNOTE 4 Chairman: Roger Fielding, Tufts University MA, (USA)
BIOMARKER AND BIOLOGY OF FRAILTY
Jeremy Walston, Johns Hopkins University, Baltimore, (USA)

10:40/11:10
COFFEE BREAK - POSTER SESSIONS - EXHIBITS

11:10/11:25
CONFERENCE 6 Moderators: Yves Rolland, Toulouse (France), Adelaida Palla, Stanford (USA)
The association between muscle mass assessed by D3CR dilution with incident ADL and IADL disability in community dwelling older men
Peggy M. Cawthon, Terri Blackwell, Steven R. Cummings, Eric S. Orwoll, Kate A. Duchowny, Deborah Kado, Katie L. Stone, Kristine E. Ensrud, Jane A. Cauley; William J. Evans California Pacific Medical Center Alameda CA (USA)

11:25/11:40
CONFERENCE 7
DIFFERENCES IN AMINO ACID COMPOSITION BETWEEN VARIOUS TYPES OF PROTEIN SUPPLEMENTS.
Nathaniel Johnson BA1, Kara Trautman MS, CSCS1, Christopher Kotarsky MS, CSCS1, Nathan Dicks MS, CSCS, TSAC-F1, Kyle Hackney, PhD, CSCS1, and Sherri Stasny PhD, RD, CSSD, LRD1. 1Department of Health, Nutrition, and Exercise Sciences, North Dakota State University, Fargo, ND, (USA)

11:40/11:55
CONFERENCE 8
ALLOGENEIC BONE MARROW-DERIVED MESENCHYMAL STEM CELLS AS A TREATMENT FOR AGING RELATED INDICATIONS
IHare, Longeveron LLC, Miami, FL, (USA)

11:55/12:05
ORAL COMMUNICATION 11
SURMOUNTING THE AGED NICHE TO IMPROVE SKELETAL MUSCLE REGENERATION
Adelaida R. Palla*1, Andrew T.V. Ho*1, Ann Yang1, Colin A. Holbrook1, Peggy Kraft1, and Helen M. Blau *Equal contribution; 1Baxter Laboratory for Stem Cell Biology, Department of Microbiology and Immunology; Stanford School of Medicine, California, (USA)

12:05/12:15
ORAL COMMUNICATION 12
DIETARY SUPPLEMENTATION WITH FISH OIL AND CURCUMIN IMPROVES GAIT SPEED AND MITOCHONDRIAL FUNCTION DURING AGING
Claire Boutry-Regard, PhD1, Laurent Mosoni, PhD2, Lydie Combaret, PhD2, Christiane Deval2, Lenaick Dupuis, MSc1, Eugenia Migliavacca, PhD1, Gabriele Cialetta, PhD1, Jerome N. Feige, PhD2, Dominique Dardevet, PhD2, Denis Breuille, PhD21 Nestle Research, Vers-chez-les-Blanc, Lausanne Z6, Switzerland 1University Clermont-Auvergne; INRA, UNH, CRNHAuvergne, Clermont-Ferrand, France; 2 Nestle Research, EPFL Innovation Park, Lausanne, (Switzerland)

12:15/12:25
ORAL COMMUNICATION 13
PREDICTING ONSET, PREVALENCE AND MORTALITY IN MALE AND FEMALE MICE USING THE MOUSE FRAILTY PHENOTYPE
L Thompson, Dongmin Kwak, Boston University Cory Baumann, University of Minnesota (USA)
12:25/12:35 ORAL COMMUNICATION 14
AGING-ASSOCIATED LOSS OF HYPOXIA SIGNALING LIMITS SKELETAL MUSCLE REGENERATION
Indranil Sinha MD,1,4, Dharaniya Saktivel MS,1, Kode Udesh BS,1, Bin Li MD,1, Adriana Panayi MD,1, Ronald Neppl PhD,1, Shalender Bhasin MD,1, Amy Wagers PhD,1 Division of Plastic Surgery, Brigham and Women's Hospital, Boston; 2 Department of Orthopedic Surgery, Brigham and Women's Hospital; 3 Division of Endocrinology, Brigham and Women’s Hospital, Boston; 4 Harvard Stem Cell Institute, Cambridge (USA)

12:35/12:45 ORAL COMMUNICATION 15
DYNAPEXIA IS ASSOCIATED WITH EXECUTIVE DYSFUNCTION. RESULTS FROM THE GAIT AND BRAIN STUDY
Montero-Odasso M MD PhD AGSF FRCP(C)1,2, Sakurai R PhD1, Bray NW MSc3,4, Pioruncki-Faria F PhD1,2, Sarquis-Adamson Y PhD, Speechley M PhD1 Department of Medicine, Division of Geriatric Medicine, Schulich School of Medicine & Dentistry, University of Western Ontario, London, ON, Canada; 2 Department of Epidemiology and Biostatistics, Schulich School of Medicine & Dentistry, University of Western Ontario, London, Canada; 3 Gait and Brain Lab, Parkwood Institute, Lawson Health Research Institute, London, ON, Canada; 4 Tokyo Metropolitan Institute of Gerontology, Tokyo, Japan; 5 School of Kinesiology, Faculty of Health Sciences, University of Western Ontario, London, ON, (Canada)

12:45/1:45 LUNCH INDUSTRY SYMPOSIUM Hosted by Biophytis
TARGETING THE PROTECTIVE ARM OF RENIN ANGIOTENSIN SYSTEM FOR DRUG DEVELOPMENT IN AGE RELATED SARCOPENIA
• Inhibition of the renin angiotensin system and physical performance
  Marco Pahor, MD Institute on Aging University of Florida, Gainesville FL (USA)
• Insect Steroid Hormones as Human Medicine: Application to Sarcopenia and Muscle Dystrophies
  René Lafont1,2, Pierre Dilda1, Laurence Dinan1 and Stanislas Veillet1,1 Biophytis, Sorbonne Université, Paris, France 2 Sorbonne Université, UFR 927, IBPS-BIOSIPE, CNRS, Paris, (France)
• Designing a clinical program for BIO101, a Mas receptor activator to target Age-related sarcopenia
  Waly Dioh1, Cendrine Tourette1 Carole Margalef1, René Lafont1,2, Philippe Dupont1, Pierre Dilda1, Stanislas Veillet1, Susanna Del Signore1, and Samuel Agus1 Biophytis, Sorbonne Universités, UPMC BC9, Paris, France 2 Sorbonne Universités, UPMC Univ Paris , CNRS - Institut de Biologie Paris Seine (BISOIPE), Paris, France 1 Bluecompanion ltd, London, (UK)

1:45/2:30 SYMPOSIUM 6
SPECIAL CONSIDERATIONS OF THE CANCER PATIENT WITH SARCOPENIA AND FRAILTY
Symposium moderator: Bette Caan Dr. PH, Senior Research Scientist Division of Research Kaiser Permanente of Northern California
• The Aging Cancer Patient: Assessing Frailty, Sarcopenia and Accelerated Aging in the Geriatric Oncology Setting
  Grant Williams, Assistant Professor Institute for Cancer Outcomes and Survivorship, University of Alabama at Birmingham
• Maintaining muscle health in cancer survivors: when and how to intervene
  Kristin Campbell Ph.D, Associate Professor, Faculty of Medicine University of British Columbia
• Sarcopenia in oncology: prediction and assessment tools for clinical practice
  Elizabeth Cespedes Feliciano, Research Scientist Division of Research Kaiser Permanente Northern California (USA)

2:30/2:50 KEYNOTE 5
BIOMARKERS FOR SARCOPENIA Chairman: Matteo Cesari, Milano, (Italy)
Bill Evans, Duke University, Durham, (USA)

2:50/3:25 PANEL DISCUSSION
DEFINITION FOR SARCOPENIA
Presentation: Alfonso Cruz Jentoft, Madrid (Spain)
Panel Discussion: Marco Pahor, Gainesville (USA), Yves Rolland, Toulouse (France), Matteo Cesari, Milan (Italy), Roger Fielding, Boston (USA)

3:25/3:55 COFFEE BREAK - POSTER SESSIONS - EXHIBITS

3:55/4:40 SYMPOSIUM 7
OSTEOSARCOPENIC OBESITY: ENOUGH EVIDENCE FOR A DISTINCT ENTITY?
Organized by the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO), in collaboration with the WHO Collaborating Center on Public Health Aspects of Musculoskeletal Health and Aging, Liège (Belgium)
Symposium moderator: Islene Araujo de Carvalho Geneva (Switzerland), Roger Fielding Boston (USA)
• Welcome and introduction: Jean-Yves Regnier Liège (Belgium)
• Osteosarcopenic obesity: Facts and evidence supporting a distinct entity: Jurgen Bauer Heidelberg (Germany)
• Osteosarcopenic obesity: Lack of evidence supporting a distinct entity: Alfonso Cruz Jentoft Madrid (Spain)
• Discussion (Leader: René Rizzoli Geneva (Switzerland)): Islene Araujo de Carvalho Geneva (Switzerland), Jurgen Bauer Heidelberg (Germany), Olivier Bruyère, Médec Lacquet, Jean-Yves Regnier Liège (Belgium), Cyrus Cooper Southampton (UK), Alfonso Cruz Jentoft Madrid (Spain), Roger Fielding Boston (USA), Jean-Marc Kaufman Ghent (Belgium) • Conclusion: Cyrus Cooper Southampton (UK)
4:40/4:50 ORAL COMMUNICATION 16 Moderators: Roger Fielding, Boston (USA), Mylène Aubertin-Leheudre, Montréal (Canada)
COmPARAISON OF HIGH-INTENSITY INTERVAL TRAINING AND MODERATE-INTENSITY CONTINUOUS TRAINING ON PHYSICAL AND FUNCTIONAL CAPACITIES IN OBESE OLDER ADULTS
Aubertin-Leheudre M, Carvalho LP, Goussipoulou G Département des Sciences de l'Activité Physique, GRAPA Université du Québec à Montréal, ; Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal, Université de Montréal, QC, (CA)

4:50/5:00 ORAL COMMUNICATION 17
FRAILTY AMONG PATIENTS WITH ACUTE MYOCARDIAL INFARCTION
Abdulla A. Damulji, Karen Bandeen-Roche, Daniel E. Forman, Gary Gerstenblith, Jin Huang, Mauro Moscucci, Jon R. Resar, Ravi Varadhan, Jeremy D. Walston, Jodi B Segal Johns Hopkins University Baltimore MD (USA)

5:00/5:10 ORAL COMMUNICATION 18
CHANGE IN METABOLIC AND INFLAMMATORY BIOMARKERS AFTER A 24-WEEK MULTIMODAL INTERVENTION DESIGNED TO IMPROVE FUNCTIONAL STATUS IN HYPERTENSIVE OLDER ADULTS: A PILOT RANDOMIZED CONTROLLED TRIAL
Liliana C. Baptista, PhD1, Byron C. Jaeger, PhD2, Stephen D. Anton, PhD3, Anthony A. Bavy, MD4 Eileen M. Handberg, PhD, ARNP5, Anna K. Piazza-Gardner, PhD5, Sara A. Harper, PhD6, Lisa M. Roberts, PhD6, Bhunuprasad Sandesara, MD1, Christy S. Carter, PhD7, Thomas W. Buford, PhD8
(1) Department of Medicine, Division of Gerontology, Geriatrics and Palliative Care, University of Alabama at Birmingham, Birmingham, AL, USA
(2) Department of Biostatistics, University of Alabama at Birmingham, Birmingham, AL, USA (3) Department of Aging and Geriatric Research, College of Medicine, University of Florida, Gainesville, FL, USA (4) Department of Medicine, College of Medicine, University of Florida, Gainesville, FL, USA

5:10/5:20 ORAL COMMUNICATION 19
THRESHOLD DEFINITION FOR GRIP STRENGTH TO IDENTIFY RELEVANT WEAKNESS IN SWISS DO-HEALTH PARTICIPANTS
Michael Gagesch, MD1-2, Lauren Abderhalden, PhD1-2, Reto W. Kressig, MD2, Bruno Vellas, MD3, René Rizzoli, MD5, Gregor Freyßtätter, MD2, Heike A. Bischoff-Ferrari, MD, DrPH1-2 for the DO-HEALTH investigators

5:20/5:30 ORAL COMMUNICATION 20
ASSOCIATION BETWEEN NUTRIENT INTAKE, PHYSICAL ACTIVITY AND SARCOPENIA-RELATED GENE-PROMOTER DNA METHYLATION
Lingxiao He MS1-2, Praval Kanthal MS1-2, Christopher I Morse PhD3, Martine Thoms PhD3 (1) Department of Movement Sciences, KU Leuven, Leuven, Belgium (2) Department of Exercise and Sport Science, Manchester Metropolitan University, Crewe, (UK)

5:30/5:40 ORAL COMMUNICATION 21
USINGSOCIALLYASSISTIVEROBOTSFORMONITORINGANDPREVENTINGPHYSICALFRAILTYAMONGOLDERADULTS:A STUDY ON USBABILITY ANDUSER EXPERIENCE
Lex van Velzen1-2, Michelle A.C.M. Olde Keizer1, Mathieu Monchamont1, Brigitte Riche2, Nadir Ammour3, Gianluca Zia4-5, Hemmie Hermens4-5, Aurélie N'Djao and Susanna Del Signore4-5 Roessingh Research and Development, Enschede, The Netherlands (2) University of Twente, Enschede, the Netherlands (3) Sanofi R&D, Paris, France (4) Caretek srl, Torino, Italy (5) BlueCompanions Ltd, London, (UK)

5:40/5:50 ORAL COMMUNICATION 22
A GENOME-WIDE ASSOCIATION STUDY OF GRIP STRENGTH IN UK BIOBANK TO IDENTIFY GENETIC DETERMINANTS OF MUSCLE FUNCTION AND POTENTIAL THERAPEUTIC TARGETS FOR SARCOPENIA
Aaron Hinken, David Frederick, Mark Harpel, Fritz Kramer, Jaclyn Kery, Jacqueline Panigel- Muscle Metabolism DPU, GSK Dawn Waterworth, Lea Sarov-Brat, Deepak Rajpal, Johannes Freudenberg - Target Sciences, GSK - Collegeville PA (USA)

5:50/6:00 ORAL COMMUNICATION 23
EFFECT OF LOSARTAN AND FISH OIL ON SECONDARY OUTCOMES IN THE ENRGISE PILOT RANDOMIZED CLINICAL TRIAL
Jane A. Cauley, PhD1, Stephen Anton, PhD1, Dan Beavers, PhD1, Roger Fielding, PhD3, Stephen Kritchevsky, PhD1, Christiana Leeuwenburgh, PhD1, Kristina Lewis, MD, MHP, SM5, Christine Liu, MD, MS4, Laura Lovato, MS1, Ching-ju (Jane) Lu, MHP1, Todd Manini, PhD1, Mary McDermott, MD2, Mike Miller, PhD1, Anne Newman, MD, MHP2, Barbara Radziszewska, PhD, MHP1, Cindy L. Stowe, MPM3, Russell Tracy, PhD1, Mike Walkup, MS5, Samuel Wu, PhD1, Walter Ambrosius, PhD3, Marco Pahor, MD2, (1) University of Pittsburgh, Pittsburgh, PA, USA (2) University of Florida, Gainesville, FL, USA (3) Wake Forest School of Medicine, Winston-Salem, NC, USA (4) Tufts University, Boston, MA, USA (5) Boston University School of Medicine, Boston, MA, USA (6) Northwestern University, Chicago, IL, USA

6:00/7:30 SPRINTT SYMPOSIUM
SARCOPENIA & PHYSICAL FRAILTY IN OLDER PEOPLE: MULTI-COMPONENT TREATMENT STRATEGIES
Symposium moderator: Roberto Bernabei, Roma, (Italy), Bruno Vellas, Toulouse, (France)
• Baseline characteristics of eligible SPRINTT screenees
Francesco Landi, Catholic University of the Sacred Heart, Rome (Italy)
• SPRINTT biomarker study: rationale and methods
Emanuele Marzetti, Policlinico Universitario Agostino Gemelli, Rome, (Italy)
• Pharmacological and nutraceutical approaches to sarcopenia
Dan Rooks, Novartis Institutes for BioMedical Research (USA)

7:30/9:00 ICF SR NETWORKING RECEPTION IN EDEN ROC GARDENS
(PRE-REGISTERED ATTENDEES ONLY)
CONFERENCE 11 

Moderators: Debra Waters, Dunedin, (New Zealand), Suzette Pereira, Colombus (USA)

ROLE OF MALNUTRITION IN THE DEVELOPMENT OF FRAILTY AND COST IMPLICATIONS AMONG COMMUNITY-DWELLERS
Beatriz Rodríguez-Sánchez, PhD1, José Antonio Carnicer-Carrero, PhD2, Suela Sula, PhD3, Ricardo Rueda MD, PhD4, Jamie Partridge, PhD5, MBA1, Suzette Pereira, PhD1, Leocadio Rodríguez-Marías MD, PhD5 (1) Universidad de Castilla-La Mancha, Spain (2) Geriatric Department Fundación de Investigación Biomédica, Hospital Universitario de Getafe, Getafe, Spain (3) Abbott Nutrition, Columbus, OH, USA (4) Abbott Nutrition, Granada, Spain (5) Geriatric Department, Hospital Universitario de Getafe, Getafe, Spain

CONFERENCE 12
FRAILTY AND SARCOPENIA IN LATIN AMERICA. PRESENT AND FUTURE
Clemente Zuniga-Gil, head of the geriatric department at Tijuana’s general hospital. universidad autonoma de Baja California. (Mexico)

CONFERENCE 13
PREDICTING FIRST TIME INJURIES IN OLDER MEN AND WOMEN LIVING IN THE COMMUNITY
THE FIF SCREENING TOOL
Stina Ek1, Debora Rizzato1, Amaia Calderon Larranaga1, Erika Franzén2, Weili Xu3, Anna-Karin Welmer2,3,4,5 (1) Aging Research Center (ARC), Department of Neurobiology, Care Sciences and Society, Karolinska Institutet and Stockholm University, Stockholm, Sweden (2) Division of Physiotherapy, Department of Neurobiology, Care Sciences and Society, Karolinska Institutet, Sweden (3) Allied Health Professionals, Function Area Occupational Therapy & Physiotherapy, Karolinska University Hospital, Stockholm, Sweden (4) Stockholm Gerontology Research Center, (Sweden)

ORAL COMMUNICATION 27
NETWORK ANALYSIS OF FRAILTY AND AGING: EMPIRICAL DATA FROM THE MEXICAN HEALTH AND AGING STUDY
Carmen García-Peña, Ricardo Ramírez-Aldana, Lorena Parra-Rodríguez, Juan Carlos Gómez-Véjar, Mario Ulises Pérez-Zepeda, Luis Miguel Gutierrez-Rubledo, Instituto Nacional de Geriatría (Mexico)

ORAL COMMUNICATION 28
NORMATIVE DATA FOR AND PREDICTORS OF 5-YEAR CHANGE IN GAIT SPEED AMONG U.S. OLDER ADULTS IN THE NATIONAL SOCIAL LIFE, HEALTH AND AGING STUDY
Huisingsh-Scheet M1, Kocherginsky M1, Ferguson M1, Huang E1, Schum L1, Waite L1, University of Chicago Medicine, Department of Medicine, Section of Geriatrics and Palliative Care Medicine, Chicago, IL (2) Northwestern University, Department of Preventive Medicine, Chicago, IL (3) University of Chicago Medicine, Department of Surgery, Section of Thoracic Surgery (4) University of Chicago Medicine, Department of Medicine, Section of General Medicine, Chicago, IL (5) University of Chicago, Dept of Public Health Sciences, Chicago, IL (6) University of Chicago, Department of Sociology & NORC (USA)

ORAL COMMUNICATION 29
EFFECT OF OMEGA-3 FATTY ACID INTAKE ON RED BLOOD CELL FATTY ACID COMPOSITION AND ASSOCIATION WITH INFLAMMATION AND MOBILITY
R.A. Fielding, R.A. Fielding, PhD2, T. Manini, PhD2, A. Newman, MD3, M.M. McDermott, MD3, S. Anton, PhD3, S.B. Kritchevsky, PhD3, R. Tracy, PhD3, W.T. Ambrosius, PhD3, L. Lovato, MS3, Suzette Pereira, PhD3, A. Santos, MS3, M. Pahor, MD3 (1) Nutrition, Exercise Physiology, and Sarcopenia Laboratory, Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University, Boston, MA, USA (2) Department of Aging and Geriatric Research, University of Florida, Gainesville, FL, USA (3) Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, USA (4) Division of General Internal Medicine and Geriatrics, Feinberg School of Medicine, Northwestern University, Chicago, Illinois, USA (5) Sticht Center on Aging, Wake Forest School of Medicine, Winston-Salem, NC, USA (6) Departments of Pathology & Laboratory Medicine, and Biochemistry, Lerner College of Medicine, University of Vermont, Burlington, Vermont, USA (7) Department of Biostatistics and Data Science, Division of Public Health Sciences, Wake Forest School of Medicine, Winston-Salem, NC, USA (8) Abbott Nutrition, Columbus, OH, USA (9) Abbott Nutrition, Granada, Spain

ORAL COMMUNICATION 30
NOVEL INFLAMMATORY BIOMARKERS AND THE ONSET OF FRAILTY AND MAJOR MOBILITY DISABILITY IN THE ENERGIZE PILOT TRIAL
Stephen B. Kritchevsky, PhD1, Russell Tracy, PhD2, Todd M. Manini, PhD2, Anne B. Newman, MD3, MPH3, Mary McDermott, MD3, Roger Fielding, PhD3, Laura Lovato, PhD3, Ezequiel Zamora, MD3, Marco Pahor, MD3 (1) Section on Gerontology and Geriatric Medicine, Department of Internal Medicine, Sticht Center for Healthy Aging and Alzheimer’s Prevention, Winston-Salem, NC, USA (2) Department of Pathology & Laboratory Medicine, Lerner College of Medicine, University of Cincinnati, Cincinnati, OH, USA (3) Department of Aging and Geriatric Research, College of Medicine, University of Florida, Gainesville, FL, USA (4) Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, USA (5) Department of Medicine, General Internal Medicine and Geriatrics, Feinberg School of Medicine, Northwestern University, Chicago, IL, USA (6) Nutrition exercise physiology and sarcopenia laboratory, Jean Mayer USDA Human Nutrition Research Center on Aging Tufts University Boston USA (7) Dept of Biostatistics and Data Science, Div.of Public Health Sciences, Wake Forest School of Medicine, Winston-Salem, USA

ORAL COMMUNICATION 31
EFFECT OF AEROBIC OR RESISTANCE EXERCISE OR BOTH ON BODY COMPOSITION AND METABOLIC AND PHYSICAL FUNCTION IN OBESE OLDER ADULTS WHILE DIETING: RESULTS FROM THE LILOE RANDOMIZED CLINICAL TRIAL
Debra L. Waters University of Otago Department of Medicine, School of Physiotherapy, Dunedin, New Zealand and University of New Mexico School of Medicine, Department of Internal Medicine, Albuquerque, New Mexico; Lina Aguirre New Mexico VA Health Care System, Albuquerque, New Mexico and University of New Mexico School of Medicine, Department of Internal Medicine, Albuquerque, New Mexico; A. Burke Gurney University of New Mexico School of Medicine, Division of Physical Therapy, Albuquerque, New Mexico; David R. Sinacore Washington University School of Medicine in Physical Therapy, St. Louis, Missouri; Kenneth Fowler New Mexico VA Health Care System Albuquerque, New Mexico; Reina Arman,婷Villareal Baylor College of Medicine, and the Center for Translational Research on Inflammatory Diseases, Division of Endocrinology, Diabetes, and Metabolism, Michael E. DeBaKEY Veterans Affairs (VA) Medical Center, Houston, Texas; Clifford Qualls University of New Mexico School of Medicine, Department of Mathematics and Statistics, Albuquerque, New Mexico; Dennis T Villareal Baylor College of Medicine, and the Center for Translational Research on Inflammatory Diseases, Division of Endocrinology, Diabetes, and Metabolism, Michael E. DeBaKEY Veterans Affairs (VA) Medical Center, Houston, Texas

LUNCH BREAK - POSTER SESSIONS - EXHIBITS
SYMPOSIUM 9

SELECTION OF RELEVANT OUTCOMES IN SARCOPENIA: A DISCRETE CHOICE EXPERIMENT

Organized by the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO), in collaboration with the WHO Collaborating Center on Public Health Aspects of Musculoskeletal Health and Aging, Liège (Belgium)

Symposium moderator: Mickaël Hilgsmann Maastricht (the Netherlands), Charlotte Beaudart Liège (Belgium)

• Welcome and introduction: Jean-Yves Regnier Liège (Belgium)

• Identification and prioritization of important outcomes for patients in sarcopenia: Charlotte Beaudart

• Results from the cross-European Discrete Choice Experiment: Mickaël Hilgsmann Maastricht (the Netherlands)

• Discussion (Leader: Fanny Buckinx Liège (Belgium)): Islene Araujo de Carvalho Geneva (Switzerland), Jurgen Bauer Heidelberg (Germany), Charlotte Beaudart, Olivier Bruyère, Jean-Yves Regnier Liège (Belgium), Cyrus Cooper Southampton (UK)

Alfonso Cruz-Jentoft Madrid (Spain), Mickaël Hilgsmann Maastricht (the Netherlands), Jean-Marc Kaufman Ghent (Belgium), René Rizzoli Geneva (Switzerland)

Conclusion: Olivier Bruyère Liège (Belgium)

PANEL DISCUSSION

ICOPE Integrated Care for Older People: Presentation and Panel discussion

Islene Araujo de Carvalho, World Health Organization (WHO), Geneva, Switzerland

Bruno Vellas, Toulouse (France), Matteo Cesari, Granda-Università di Milano, (Italy)

Luis Miguel Gutierrez-Robledo Instituto Nacional de Geriatria (Mexico)

COFFEE BREAK - POSTER SESSIONS - EXHIBITS

ORAL COMMUNICATION 32 Moderators: Jorge Ruiz, Miami (USA), Catherine Jankowski, Aurora (USA)

BIOMARKERS OF SARCOPENIA IN VERY OLD PATIENTS WITH HIP FRACTURE

Alfonso-Jose Cruz-Jentoft MD, PhD, Carmen Sánchez-Castellano MD, PhD1, Paloma Bemje-Bescós PhD, María-Nieves Vaquero Pinto (1), Carmen Miret-Corcho (1), Sagrario Martín-Aragón PhD, (1) Geriatrics Department, Hospital Universitario Ramón y Cajal, IRyCIS, Madrid, Spain. (2) Facultad de Farmacia, Universidad Complutense de Madrid, (Spain)

3:55:00

ORAL COMMUNICATION 33

SARCOPENIC OBESITY IN ASIAN POPULATIONS: INFLUENCE OF OBESITY DEFINITIONS ON PREVALENCe

AND PHYSICAL PERFORMANCE

Ezra Qi-En Khor1; Jun-Pei Lim, MBBS, MRCP (UK), MMed (Int Med)2, Laura Tay, MBBS, MRCP (UK), MMed (Int Med), MCP; Audrey Yeo, BMSc; Suzanne Yew, BSN3; Yew-Young Ding, MBBS, FAMS, FRCP (Edin), PhD1; Wee-Shiong Lim, MBBS, MRCP (UK), MMed (Int Med), MHPed, AGSF, FAMS; (1) Lee Kong Chian School of Medicine, Singapore (2) Department of Geriatric Medicine, Tan Tock Seng Hospital, Singapore (3) Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital, Singapore (4) Department of General Medicine (Geriatric Medicine), Sengkang Hospital, (Singapore)

4:05:15

ORAL COMMUNICATION 34

UREMIC MYOPATHY: DYNAPENIA, DIABESIES-ASSOCIATED SARCOPENIA & PHYSICAL FRAILTY IN DISGUISE?

David R. Sinacore PT, PhD, FAPTA, (1), Daniel C. Bittel PT, PhD, DPT, (2), Adam J. Bittel PT, PhD, DPT, (2) Department of Physical Therapy, High Point University, High Point NC, USA. (2) Center for Genetic Medicine Research, Children’s Nataional Medical Center, Washington DC, USA

4:15:40

ORAL COMMUNICATION 35

MUSCLE MASS IS MAINTAINED AND BODY FAT REDUCED WITH EXERCISE IN OLDER PEOPLE AGING WITH HIV

Catherine M. Jankowski, PhD1, Melissa P. Wilson, MS2, Todd T. Brown, MD, PhD, Samantha MaWhinney, ScD1, Kristine M. Erlandson, MD4; University of Colorado College of Nursing Aurora Colorado (USA)

4:25:35

ORAL COMMUNICATION 36

A RANDOMIZED CONTROLLED PILOT AND FEASIBILITY EXERCISE AND PROTEIN EFFECTIVENESS SUPPLEMENTATION STUDY SUPPORTING AUTONOMY IN COMMUNITY-DWELLING FRAIL OLDER ADULTS

Agathe Daria Jadczak1, Renuka Visvanathan1,2, Robert Barnard 4, Natalie Lascombe-Marsh 5, 1; National Health and Medical Research Council Centre of Research Excellence Frailty and Healthy Ageing, University of Adelaide, South Australia, Australia; 2 Adelaide Geriatrics Training and Research with Aged Care (G-TRA C) Centre, Discipline of Medicine, Adelaide Medical School, University of Adelaide, South Australia, Australia; 3 Aged and Extended Care Services, The Queen Elizabeth Hospital, Central Adelaide Local Health Network, Adelaide, South Australia, Australia; 4 Centre for Physical Activity in Ageing (CPAA), Central Adelaide Local Health Network, Adelaide, South Australia; 5 Health and Biosecurity, Common wealth Scientific Industrial Research Organisation (CSIRO), Adelaide, South Australia, Australia

4:35:45

ORAL COMMUNICATION 37

EFFECT OF GASTRIC ACID SUPPRESSANTS ON RESPONSE TO A PHYSICAL ACTIVITY INTERVENTION AND MAJOR MOBILITY DISABILITY IN OLDER ADULTS: RESULTS FROM THE LIFESTYLE INTERVENTIONS FOR ELDERS (LIFE) STUDY

J Brown University of Florida Gainesville (USA), Patrick Squires, PharmD, Marco Pahor, MD, Todd Manini, PhD, Joshua Brown, PharmD, PhD1; Department of Pharmaceutical Outcomes & Policy, University of Florida College of Pharmacy (2) Institute on Aging, University of Florida College of Medicine

4:45:55

END OF THE CONFERENCE
**COGNITIVE FRAILTY**

**P 45 • Frailty as a predictor of cognitive disorders: a systematic review and meta-analysis**
Marcus Kilis Borges (1), Marco Canevelli (2), Matteo Cesari (3), Ivan Aprahamin (3).
1. Department of Geriatrics and Psychiatry, “Ambulatorio de Alterações Comportamentais em Idosos” (ACID), Faculty of Medicine, University of São Paulo (FMUSP), São Paulo, Brazil. 2. Department of Human Neuroscience, Sapienza University, Rome, Italy. 3. Fondazione IRCCS Ca’ Granda - Ospedale Maggiore Policlinico, University of Milan, Milan, Italy. 4. Geriatrics & Psychiatry division, Department of Internal Medicine, Faculty of Medicine of Jundiaí, Brazil.

**P 46 • The relationship between frailty and mild cognitive impairment in the elderly: a systematic review**
Natália Ongini, Rodolfo de Araújo, Carlos Cezar, MD, PhD (1), Marcus Kilis Borges, MD, PhD (1), Alaine Silva Santos de Siqueira, MD (1), Mônica Sanches Yasuda, PhD (1), Matteo Cesari, MD, PhD (2,3), Ivan Aprahamin, MD, MS, PhD (2,3).
1. Department of Physical Therapy, Federal University of São Carlos (UFSCar), São Carlos, SP, Brazil. 2. Department and Institute of Psychiatry, Faculty of Medicine, University of São Paulo, São Paulo, Brazil. 3. School of Arts, Sciences and Humanities, University of São Paulo, São Paulo, Brazil. 4. Department of Neurology, Faculty of Medicine, University of São Paulo, São Paulo, Brazil. 5. Fondazione IRCCS Ca’ Granda - Ospedale Maggiore Policlinico, University of Milan, Milan, Italy. 6. Department of Internal Medicine, Faculty of Medicine of Jundiaí, Jundiaí, Brazil.

**P 47 • Cognitive Frailty: results from SABE Colombia Study**
Estefanía Chacón-Valezuela (1), Elly Morales-González (1), María Pilar Vargas-Beltrán (1), Luis Carlos Venegas-Sanabria (1), Diego Chavarro-Carvajal (1), Carlos Alberto Cano-Gutiérrez (1,2,3), Semillero de Neurociencias y Envejecimiento, Aging Institute and Faculty of Medicine, Universidad Javeriana, Bogotá, Colombia. 2. Geriatric Unit, Hospital Universitario San Ignacio and Pontificia Universidad Javeriana, Bogotá, Colombia.

**P 48 • Sex difference of the tendency of food habit of cognitive frail patient and caregiver**
Yumi Umeda-Kameyama, Kiyoshi Yamaguchi, Mitsutaka Yakabe, Taro Kojima, Yasuhiro Yamaguchi, Sumito Ogawa, Masahiro Akishita Department of Geriatric Medicine, The University of Tokyo (Japan).

**P 49 • Sarcopenia and cognition in the oldest old: data from the FIBRA study in Brazil**
Mônica Sanches Yasuda - University of São Paulo, University State of Campinas Gabriela Cabett Cipollini - University of São Paulo Flávia Arbex Borin - State University of Campinas André Fattori - State University of Campinas Lígia Fares Conta - State University of Campinas Anna Liberalesso Neri - State University of Campinas Ivan Aprahamin - Jundiaí Medical School (Brazil).

**P 50 • Physical Frailty and Cognitive Functioning in Non-demented Community-dwelling Older Adults: China Comprehensive Geriatric Assessment Study**
Lina Li, Li Zhang, Fei Sun, Yun Li, Zhe Tang Department of Geriatrics, Xuanwu Hospital, Capital Medical University, China National Clinical Research Center for Geriatric Disorders Beijing (China).

**P 51 • Could Delirium be a Manifestation of Sym pathetic Over-drive?**
Elaine Shawhan-University Hospital Limerick, Ireland and Graduate Entry Medical School School, University of Limerick, Ireland Sheila Carew-Carew-University Hospital Limerick, Ireland Aine Costelloe-President Hospital Limerick, Ireland Tina Sheehy-University Hospital Limerick, Ireland Catherine Peters-University Hospital Limerick, Ireland Dissipation of Limerick University Hospital Limerick, Ireland Margaret O’Connor-University Hospital Limerick, Ireland and Graduate Entry Medical School School, University of Limerick, Ireland Declan Lyons-University Hospital Limerick, Ireland Margaret O’Connor-University Hospital Limerick, Ireland and Graduate Entry Medical School School, University of Limerick, Ireland (Ireland).

**P 52 • Study of cognitive frailty in a health-seeking population**
Meenal Thakral Junior Resident, Pursuing MD, Avinash Chakravarty MD, Aparajit Ballav Dey MD (1) Department of Geriatric Medicine, AIIMS, (India).

**P 53 • Lower Cerebral Volumes in Frail versus Robust Non-Demented Elderly**
A Fattori, Faculty of Medical Sciences of UNICAMP - Campinas State University Debora Lee Vianna Paulo (1,2), Camila Vieira de Lago Teixeira (1), Amanda Veiga Sardella (1), Amanda Ximenes Reis (1,2), Maria Fernanda Bottino Roma (1,3), Heitor Moreno Junior (1), Paula Tixeira Fernandes (1,2), André Fattori (1,2,3). Gerontology Program, Faculty of Medical Science, University of Campinas (UNICAMP) 4. Faculty of Physical Education - UNICAMP: Nutrition Department - UNICAMP (Brazil).

**P 54 • Imaging and frailty**
Mathieu Maltais, Philippe de Souto Barreto, Yves Rolland & Bruno Vellas Gerontology of Toulouse (France).

**P 55 • Frailty Mediates Senility in Mexican-Americans**
Palmer BF, 1, Royall DR 1-4 Departments of Family & Community Medicine, Psychiatry, Medicine 1, The University of Texas Health Science Center at San Antonio and the South Texas Veterans Health Administration Geriatric Research Education and Clinical Center (GRECC)(USA).

**FUNCTIONAL ASSESSMENT**

**P 56 • Comparison of diagnostic criteria for identification of sarcopenic obesity in adults with knee osteoarthritis**
Kristine Godbild, PhD(Candidate) (1), Carla M. Prado, PhD (1), Linda J Woodhouse, PhD, MD (1), Mary Forhan, PhD (1) 1. Faculty of Rehabilitation Medicine, University of Alberta, Edmonton, Alberta, Canada 2. Department of Agricultural, Food and Nutritional Science, Faculty of Agricultural, Life and Environmental Sciences, University of Alberta, Edmonton, Alberta, Canada 3. Department of Physical Therapy, Faculty of Rehabilitation Medicine, University of Alberta, Edmonton, Alberta, Canada 4. Department of Occupational Therapy, Faculty of Rehabilitation Medicine, University of Alberta, Edmonton, Alberta, Canada.

**P 57 • Evaluation of Sleep Disorders and Accompanying Factors Evaluation of Sleep Disorders and Accompanying Factors**
Banu Oztulu Turkmen Istanbul University Istanbul Medical School Department of Internal Medicine Division of Geriatrics (Turkey).

**P 58 • Functional assessment of the workability, functional decline and frailty in the elderly subjects**
Glena Tomarevka, MD, PhD, Oleksandr Polakow, MD, PhD Laboratory Occupational-Labor Rehabilitation, Social gerontology and Public Health Department, Institute of Gerontology by D.F. Chebotarev of National Academy of Medical Sciences of Ukraine, Kyiv, (Ukraine).
PHYSICAL FRAILTY AND AGE-RELATED BODY COMPOSITION MODIFICATIONS

P 80 • Prevalence of sarcopenia among healthy elderly adults: the sarcopenia begins from 45 years
Christophe de Jaeger (1), MD, Elena Vonoroska (1), MD, Carla Lamberti (1), MD, Saskia Kruiskamp (1), Patrick Cherin (1), MD (1); Institut de médecine et physiologie de la longévité, 4 rue de Galliera, 75116 Paris, France 2 Service de Médecine Interne 2 Bâtiment E3M3, CHU Pitité-Salpêtrière, 47 bd de l’hôpital 75013 Paris, (France)

P 81 • Prevalence of osteo-sarcopenia and osteo-sarcopenia ambulatory subjects older than 45 years in France
Christophe de Jaeger (1), MD, Elena Vonoroska (1), MD, Carla Lamberti (1), MD, Saskia Kruiskamp (1), Patrick Cherin (1), MD (1); Institut de médecine et physiologie de la longévité (ID), 4 rue de Galliera, 75116 Paris, France 2 Service de Médecine Interne 2 Bâtiment E3M3, CHU Pitité-Salpêtrière, 47 bd de l’hôpital 75013 Paris, (France)

P 82 • Weight loss and incidence of disability among the oldest old: the fibra study longitudinal findings
Luise Correa (1), BSc, Pedro Zaccura (1), MS, C. D. Andrade: College of Applied Health Sciences – University of Illinois at Urbana-Champaign Flavia S. A. Borim: Faculty of Medical Sciences – University of Campinas Ivan Arahmanah: Faculty of Medicine of Jundiaí André Fattori: Faculty of Medical Sciences – University of Campinas Matteo Cesari: Fondazione (IRCCS) Ca’ Granda - Ospedale Maggiore Policlinico, University of Milan, Milan, Italy Monica S. Yassuda: School of Arts, Sciences and Humanities (EACH) – University of São Paulo Aníta L. Neri: Faculty of Medical Sciences – University of Campinas (Brazil)

P 83 • Preserved physical fitness is associated with lower 1-year mortality in frail elderly patients with a severe comorbidity burden
K Alshund: Department of Physiotherapy, NU Hospital Group, Trollhättan, Sweden. Department of Physiotherapy, NU hospital. Länketappsvågen a-461 73 Sweden TrollhättanMarie Black PhD, RPT. Department of Medical and Health Sciences, Division of Physiotherapy, Linköping University, Linköping, Sweden. Department of Occupational Therapy and Physiotherapy, Sahlgrenska University Hospital, Göteborg, Sweden Björn Karlson MD, PhD. Division of Internal and Acute Medicine, NU Hospital Group, Trollhättan-Uddevalla, Sweden, Department of Molecular and Clinical Medicine, Institute of Medicine, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden Niklas Ekerstad PhD, MD: Department of Medical and Health Sciences, Division of Health Care Analysis, Linköping University, Linköping, Sweden. Department of Research and Development, NU Hospital Group, Trollhättan, Sweden Birgitta Oberg PhD, RPT. Department of Medical and Health Sciences, Division of Physiotherapy, Linköping University, Linköping, Sweden

P 84 • Sarcopenia, obesity, and sarcopenic obesity prevalence and respective body composition in middle-aged women
Edgar Ramos Vieira (1), Maria Sozorro Mederos de Morais (2), Rafaela Andrade do Nascimento (3), Mariana Camargo Apolinário Vieira (4), Mayde Andreia Moreira (5), Sianora Maria Aires da Câmara (6), Alvaro Campos Cavalcanti Maciel (7, 8). Department of Physiotherapy, Florida International University, Miami, FL, USA. 1 Health Sciences Center, Federal University of Rio Grande do Norte, Natal, Natal, RN, Brazil, 2 Graduate Program in Physical Therapy, Federal University of Rio Grande do Norte, Natal, RN, Brazil, 3 Department of Physical Therapy, Federal University of Ceará, Fortaleza, CE, Brazil, 4 Traini College of Health Sciences, Federal University of Rio Grande do Norte, Natal, Natal, RN, Brazil

P 85 • The role of bioelectrical impedance analysis (BIA) in identification of sarcopenia. comparison among different classifications
Sara Tagliaferi, PhD1, Fulvio Lauretani, MD2, Mario Pedrazzoni, MD1, Giovanni Passeri, MD1, Marcello Maggio, MD, PhD (1, 2). 1 Dept. of Medicine and Surgery, University of Parma, Parma, Italy 2 Frailty of Elderly Lab, Genitric Clinic Unit, University-Hospital of Parma, Parma, Italy

P 86 • The assessment of pain in older frail sarcopenic and osteosarcopenic subjects
Longeucbo Yari (1), Tagliaferi Sara (1), Adorni Elisa (1), Benedetti Chiara (1), Pessina Michele (1), Lauretani Fulvio (1), Maggio Marcello (1, 2). 1 Dept. of Medicine and Surgery, University of Parma, Parma, Italy 2 Frailty and Mobility Lab, Genitric Clinic Unit, University-Hospital of Parma, Parma, Italy

P 87 • High Lipid Accumulation Product and low estimated Glucose Disposal Rate indicate increased cardio-metabolic risk and decreased insulin sensitivity in postmenopausal women with sarcopenic obesity
Eleonora Poggiogalle1, Carla Lubrano, Lucio Gnesi, Stefania Marianini, Mikiko Watanabe, Andrea Lenzi, Lorenzo Maria Donini - Sapienza University, Rome, Italy

P 88 • Association between skeletal muscle stiffness and frailty in frail elderly people
Nanshi Shirashita, Department of Rehabilitation, Faculty of Health Science, Nihon Fukushi University - Kiwako Okada, Nagoya School of Nutritional Sciences, Nagoya University of Arts and Sciences, 2 Taiji Noguchi, Department of Rehabilitation, Faculty of Health Science, Nihon Fukushi University - Ichikairo Hayashi, Faculty of rehabilitation and care, Seijlu University - Yusuke Suzuki, Department of Comprehensive Care Systems, Nagoya University Graduate School of Medicine (Japan)

P 89 • Sarcopenia and Related Factors in Hospitalized Patients
Q Yinilmo, Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division Istanbul University Istanbul Medical Faculty, Istanbul, Turkey

P 90 • Comparing SARC-F with SARC-CalF to screen sarcopenia in community living older adults
G Division, Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division; G Division, Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division; Omer Ozen, Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division, Mehmet Akif Karan (1) Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division, Istanbul, Turkey

P 91 • Performance of SARC-F in Relation to Sarcopenia Definitions, Muscle Mass and Functional Measures
Gulistan Bahat (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division; Q Yinilmo (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division; Cihan Kilic (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division; Meryem Ozen (Istanbul University Istanbul Medical Faculty Internal Medicine Geriatrics Division), Mehmet Akif Karan (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division, Mehmet Akif Karan (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division; Mehmet Akif Karan (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division, Mehmet Akif Karan (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division, Mehmet Akif Karan (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division; Mehmet Akif Karan (Istanbul, Turkey)

P 92 • Nutritional status, sarcopenia and frailty in nursing-home residents - Prevalence and relationships
G Faxén-Ivring: Department of Neurobiology, Care science and Society, Karolinska Institutet, Stockholm, Sweden 1,2 Helena Grönstedt, Phys ther, PhD 1, Erika Franze, Phys ther, PhD 2, Åke Seiger MD, PhD 2, Sofia Wkström, Occup ther, PhD 1, Anders Wima, MD, PhD 2, Anne-Marie Bostrom RN, PhD 2, Tommy Cedermolm, MD, PhD 1, Department of Neurobiology, Care science and Society, Karolinska Institutet, Stockholm, Sweden 2, Division of clinical genetics, 3 Stockholm University Hospital, Stockholm, Sweden 2, Division of physical therapy 1, Division of occupational therapy, 2 Division of neurosciences, 3 Division of nursing, Department of Public Health and Caring Sciences, Division of Clinical Nutrition and Metabolism and Division of Geriatrics, Uppsala University, Uppsala, Sweden

P 93 • The styles of life and functional health of elderly participants in uniat-um health projects and quality of life
M Faber: University of Applied Sciences - University of Carinthia, Klagenfurt, Austria; Aneeta Silva - Universidade do Estado do Amazonas Clayton Cardoso dos Santos - Universidade do Estado do Amazonas José David e Silva Gomes - LPMH/Universidade do Estado do Amazonas Fámília Baptista - Universidade de Lisboa Euler Ribeiro José António Cardoso (Brazil)

P 94 • Changes in muscle mass strength and function with age among community elderly in china 7A longitudinal Study with 4 years follow-up
Ying Zhang MD, Xiaoyan Chen MD, Xu Lin MD, Dan Qiang MD, Lisha Hou PhD, Hui Wang PhD, Shan Hai PhD, Li Cao PhD, Binrong DONG PhD 1, National Clinical Research Center for Geriatrics, West China Hospital Sichuan University, Chengdu, Sichuan, China 2 Collaborative Innovation Center of Sichuan for Elderly Care and Health, Chengdu, Sichuan, China
P 114 • Associations between frailty and oral health: findings from the Concord Health and Ageing in Men Project (CHAMP)  
Eduardo Valdez 1, P.A. Cleve-Wright 1, Vasi Naganathan 1, Kate Millidge 2, Fiona M Blyth 1, Vasant Hirani 2, David G. Le Coeur 1, David J. Handelsman 1, Louise M. Watts 1, Robert G. Cumming 1 1 Centre for Education and Research on Ageing, Concord Clinical School, The University of Sydney, and the Ageing and Alzheimer’s Institute, Concord Repatriation General Hospital, Concord, NSW, Australia; 2 Department of Geriatric Medicine and Rehabilitation Medicine, Concord Repatriation General Hospital, Sydney Local Health District, Concord, NSW, Australia.  

P 115 • The association between physical frailty and depressive symptoms in community-dwelling older adults: the mediating and moderating role of social support  
Yaru Jin MSc 1, Cuili Wang PhD 1, Huaxin Si MSc 1, Xiaoyu Tian MSc 1, Xiaoxia Qiao PhD 1, Xinyu Liu MSc 1 1 School of Nursing, Shandong University, Jinan, China; 2 School of Nursing, Peking University, Beijing, China

P 116 • The association between frailty and medication adherence among community-dwelling older patients with chronic diseases: medication beliefs acting as mediators  
Xiaoxia Qiao PhD 1, Cuili Wang PhD 1, Xiaoyu Tian MSc 1, Yaru Jin MSc 1, Huaxin Si MSc 1, Xinyu Liu MSc 1 1 School of Nursing, Peking University, Beijing, China; 2 School of Nursing, Shandong University, Jinan, China

P 117 • 30-Day Readmission Diagnoses in Older Adults Previously Admitted for a Diagnosis of Sepsis  
Alison Kohn MS 1, Angellina Avdella MS 1, Gabriella Enstrom PhD 1, Bernardo Reyes MD 1, Joseph Ouslander MD 1 1 Charles E. Schmidt College of Medicine at Florida Atlantic University, Boca Raton, FL, USA

P 118 • Associations of 30 Day Readmissions Following Hip Fractures in Patients 75 and Older  
Avdella, Angellina MS 1; Kohn, Alison MS 1; Enstrom, Gabriella PhD; Reyes, Bernardo MD; Ouslander, Joseph MD 1 Florida Atlantic University, Schmidt College of Medicine, Boca Raton, FL, USA

P 119 • Co-existence of Physical Frailty and Sarcopenia is Associated with Poorer Functional Fitness and Adverse Health Outcomes in Community-Dwelling Older Adults  
Tay Laura MRCP 1, Tay Ee Ling MSc 1, Latib Aisyah BSc 1, Mah Shi Min MSc 1, Abu Rakar Huda BSc 1, Ng Yee Sien FRCP 1 1 Department of Geriatric Medicine, Sengkang General Medicine, Singapore; 2 Department of Physiotherapy, Sengkang General Hospital, Singapore; 3 Office of Regional Health System, SingHealth, Singapore; 4 Department of Rehabilitation Medicine, Singapore General Hospital, (Singapore)

P 120 • Visual Impairment and Frailty: An important, yet understudied relationship  
Boninelli, K. Sweeney 1, 2; Moon Jeong Lee 1; Jing Tsai 1; Varshini Varadarajan 1; Karen Bandeen-Roche 1, 3 Department of Ophthalmology, Johns Hopkins School of Medicine, Wilmer Baltimore, John Hopkins Bloomberg School of Public Health, Baltimore, MD, (USA)

P 121 • Community nursing care approaches based on activities of community-dwelling senior couples living independently at home  
Pingqing Zhang 1, Saitama Prefectural University, (Japan)

P 122 • Frailty was predictive of death after discharge from the emergency service: a 6-month prospective study from a middle-income country  
Gabriela Van Arco de Almeida 1, Carla Fernanda de Vasconcellos Romanin 1, Tarsila Gomes Caldas 1, Nadia Tiemi Antunes Yoshitake 1, Lia Batagli 1, Mateo Cesar 1, Ivan Aprahamian 1, Group of Investigation on Multimorbidity and Mental Health in Aging (GIMIMA), Department of Internal Medicine, Faculty of Medicine of Juduí 1, 2 Fondazione (IRCCS) Ca’ Granda - Ospedale Maggiore Policlinico 3, University of Milan (Italy)

P 123 • Non-motor characteristics but not motor signs of Parkinson’s disease were associated with frailty  
Richard Murdoch Montgomery 1, Mateo Cesar 1, Ivan Aprahamian 1, 2 Group of Investigation on Multimorbidity and Mental Health in Aging (GIMIMA), Department of Internal Medicine, Faculty of Medicine of Juduí 2 Fondazione (IRCCS) Ca’ Granda - Ospedale Maggiore Policlinico 1, University of Milan (Italy)

P 124 • Selective serotonin receptor inhibitor monotherapy was associated with frailty and falls in a clinic cohort of older adults from a middle-income country  
Ivan Aprahamian 1, 2; Sumika Moni Lin 1, 2; Alaise Silva Santos de Siqueira 1, 2; Marina Maria Biella 1, 2; Mateo Cesar 1; Wilson Jacob-Filho 1, 2 Geriatrics Division, Faculty of Medicine, University of São Paulo (2) Fondazione (IRCCS) Ca’ Granda - Ospedale Maggiore Policlinico 1, University of Milan (Italy)

P 125 • Relationship between Immune Cell Profiles and Frailty in Patients with Breast Cancer receiving Chemotherapy  
Nileshka Gilmore PhD 1, Mostafa Mohamed MBCh, MSc 1, Lianian Lei MS 1, Allison Magnuson MD, PhD 1, Ronald Maggiore MD, PhD 1, Supinya Mohile MD, MS 1, Mary Arntia RN 1, Jerry Mitchell, MD 1, Kelley Young, MD 1, Michelle Janelinski, PhD, MPH 1 1 University of Rochester Medical Center, Rochester, NY, USA 1, 2, 3 Dayton Clinical Oncology Program, Dayton, OH, USA 4 Columbus NCORP, Columbus, OH, USA, 5 Kansas City NCORP, Prairie Village, KS, (USA)

P 126 • Detecting the features of frailty criteria by comparing with comprehensive geriatric assessment via linking to the International Classification of Functioning, Disability and Health (ICF)  
Naoki Tomita MD, PhD 1, Yuki Oshashi PhD, MD, IW; Akio Ishiki MD, PhD, Akio Ozaki PhD, RN 1, Mitsuyuki Nakao PhD, MD 1, Hiroyuki Arai MD, PhD 1 1 Department of Geriatrics and Gerontology, Institute of Development, Aging and Cancer, Tohoku University; 2 Rehabilitation Medicine, Division of Health and Healthcare Nursing, Division of Health Sciences, Graduate School of Medicine, Tohoku University; 3 Laboratory of Biomodeling, Department of Applied Information Sciences, Graduate School of Information Sciences, Tohoku University (Japan)

P 127 • Association of low serum 25-hydroxyvitamin D levels with the frailty syndrome in elderly population at Colima, Mexico  
Farias-Moreno Katia Carmina 1, Carrasco-Peña Karla Berenice 1, Trujillo-Hernández Benjamin 1, Aguilar-Mancilla Zahira Cecilia 1, Pulido-García Alejandra 1, Santillán-Luna Deyadira 1, Rodríquez-Pedraza Karina 1, Trujillo-Magallón Mariana 1, Ramirez-Covarrubias Luzet Estefania 1, Cervantes-Santa Cruz Perla Guillermina 1 1 Second year student of Master in Medical Sciences, Faculty of Medicine, University of Colima, Mexico. 2 Full time professor, Faculty of Medicine, Universidad de Colima, Mexico. 3 Full time professor, Faculty of Medicine, Universidad de Colima, Mexico. 4 Fifth year Medical student, Faculty of Medicine, Universidad de Colima, Mexico. 5 Sixth year Medical student, Faculty of Medicine, Universidad de Colima, (Mexico)

P 128 • Appropriateness of new-oral anticoagulant dose adjustment in older adults  
Tugba Erdogdu 1, Onur Erdogdu 1, Gülsan Bahat Ozturk 1, Mehmet Akif Karan 1 1 Istanbul University, Istanbul Medical School, Department of Internal Medicine, Division of Geriatrics, Istanbul, Turkey 1, Istinye State Hospital, Department of Cardiology, Istanbul, (Turkey)

P 129 • Detecting the features of frailty criteria by comparing with comprehensive geriatric assessment via linking to the International Classification of Functioning, Disability and Health (ICF)  
Naoki Tomita MD, PhD 1, Yuki Oshashi PhD, MD, IW; Akio Ishiki MD, PhD, Akio Ozaki PhD, RN 1, Mitsuyuki Nakao PhD, MD 1, Hiroyuki Arai MD, PhD 1 1 Department of Geriatrics and Gerontology, Institute of Development, Aging and Cancer, Tohoku University; 2 Rehabilitation Medicine, Division of Health and Healthcare Nursing, Division of Health Sciences, Graduate School of Medicine, Tohoku University; 3 Laboratory of Biomodeling, Department of Applied Information Sciences, Graduate School of Information Sciences, Tohoku University (Japan)

P 130 • Characteristics of lifestyles of the frailty prevention among community-dwelling elderly women of positive attitude toward health promotion activities  
Manlio Zanzago 1, Saithama Prefectural University Osamu Fujinawa 1, Fukuoka Health Science University, Koy Suguino 1, Suntendo Tokyo Koto Geriatric Medical Center, Ryo Kubota 1, Saitama Prefectural University, Toyo Kikimoto 1, Saitama Prefectural University, Hiroko Nakamura-Thomas 1, Saitama Prefectural University, Hiroko Kohara 1, University of Kochi, Yoko Morikagi 1, Yamagata University, Hajime Toda 1, Kitasato University 1 (Japan)

P 131 • Community Based Dual Task Interventions to Reduce the Prevalence of Frailty: Findings from HAPPY Program  
Rashna A Merchant 1, Yong Loo Lin School of Medicine, National University of Singapore, Singapore 2 Matthew Chen (National University Hospital, Singapore) 3 Suren SANDRASAGER (National University Hospital, Singapore) 4 Tan Weng Mooi (Agency of Integrated Care) 5 Chris Tsui Tang (National University Hospital, Singapore)

P 132 • Identifying the important items to be included in a frailty specific patient outcomes : a qualitative study among patients and professionals  
F. Buckinx 1, 2, J.Y. Reginster 1, Y. Rolland 1, M. Cesari 1, C. Beaudart 1, R. Rizzoli 1, J. Petersmans 1, B. Fougerie 1, O. Bruyere 1 1 Department of Public Health, Epidemiology and Health Economics, University of Liège, Belgium; 2 MeSH; 3 Public Health Aspects of Musculoskeletal Health and Ageing, Girotondo; 4 Geronto|polis, University Hospital of Toulouse III; 5 Université Louis Pasteur, Toulouse, France; 6 Geriatric Unit, Fondazione Ca’ Granda - Ospedale Maggiore Policlinico, Milano, Italy; 7 Service of Bone Diseases, Department of Internal Medicine Specialties, Geneva University Hospitals and Faculty of Medicine, Geneva, Switzerland 8 Department of Geriatrics, CHU-Liège, Liège, Belgium; 6 Department of Geriatric Medicine, Saint Louis University School of Medicine, St Louis, (USA)
OSTEOPOROSIS & FRAILTY

P 197 • The Effect of BPA on Bone Mineral Density(BMD) in Rats
Hyunyuk Kang M.D., Daejin Nam M.D., Hongie Kang M.D. Department of Orthopedic surgery, wonkwang university hospital, Iksan, (Korea)

P 198 • The Relationship between the FRAX®-B and Noah Platforms Results and the Bone Densitometry as a Complementary Tool in the Evaluation of Fracture Risk in One City of the South of Brazil
Claudia Cipriano Vital Heluani MD,MSC, Gabriela Keller,MD, Luan Pedro Santos Roche,1 Edison Rodrigues Garcia Filho, Isadora Zaniboni; Maria Eduarda Scherer Costi,MD/Mariani Fellisberto,MD1/Geriatric Department, Medicine School, UNESC Universidade do Extremo Sul Catarinense, Criciuma, SC, Brazil2/ Medicine’s Student, Medicine School, UNESC Universidade do Extremo Sul Catarinense, Criciuma, SC, Brazil3/ Medicine School, UNESC Universidade do Extremo Sul Catarinense, Criciuma, SC, Brazil

PHYSICAL EXERCISE

P 199 • Effects of a short term exercise training protocol on the physical function of institutionalized frail older adults
Cristiane Batisti Ferreira(1), Gleiciane Gontijo Avelar(2), Athila Teles Dantas Maya(1), Paula Americano do Brasil(1), Vinicius Caroline Souza(2), Ricardo Moreno Lima(1), Aparecido Pimentel Ferreira(1), Otávio Toledo Nóbre(1)1/1 Interventional Center for Research, Integrated Colleges Promove Brasilia, Brasilia, Brazil2/Graduation Program in Sciences, Medical Faculty, University of Brasilia (UnB), Brasilia, Brazil3/Graduation Program in Physical Education, University of Brasilia (UnB), Brasilia, (Brazil)

P 200 • Low-intensity exercise suppresses myostatin pathway through androgen receptor in muscle cells
Bo-Kyung Son1, Ahn Seong Ok2, Kuki Ishida3, Miya Ours1, Masahiro Akita1/Department of Geriatric Medicine, Graduate School of Medicine, Institute of Gerontology, The University of Tokyo, Tokyo, (Japan)

P 201 • Effects of a center and a home + center-based exercise program in pre-frail older women
Sabrine Nayara Costa(1), Edgar Ramos Vieira(2), Ryelen Nicole Santos de Almeida(1), Paulo Cesar Baracca Bento(1)/Graduate Program in Physical Education, Federal University of Para, Curitiba, PR, Brazil2/Department of Physical Therapy, Florida International University, Miami, FL, (USA)

P 202 • Effects of a conventional and a virtual-reality based exercise program in older people in residence of nursing home
Larissa Bastos Tavares(1), Idaliana Fagundes de Souza(1), Cândide Simões Pimenta de Medeiros(2), Kim Mansur Yano(1)/Facilidade A defender da Costa Cavalcanti(1), Edgar Ramos Vieira(2)/Department of Physical Therapy, Federal University of Rio Grande do Norte, Natal, RN, Brazil1/Florida Department of Physical Therapy, Florida International University, Miami, FL, (USA)

P 203 • A new algorithm to monitor physical activity and compliance to a home-based exercise program in (pre) sarcopenic elderly
Luzen Dedeve(1), Jorgen Wollem(1), Johan Dupton(1), Jos Tourouy(1), Evelien Gielens(1), Sabine Verschueren(1)/Geriatrics & Gerontics, Department of Chronic Diseases, Metabolism and Ageing (CHROMETA), KU Leuven, Leuven, Belgium1/Research Group for Musculoskeletal Rehabilitation, Department of Movement Sciences, KU Leuven, Leuven, Belgium2/Department of Geriatric Medicine, UZ Leuven, Leuven, Belgium3/Division of Geriatric Medicine, UZ Leuven, Leuven, Belgium

P 204 • Comparison of the physical work capacity and the muscular skeletal mass index before and after a supervised and controlled training program once a week for six months
Marcela Echevarría Calderón, MD1 Luis Alberto Pragauta Arthul, MD2 Resident of 3th year Medicine of Physical Activity and Sports, Fundación Universitaria de Ciencias de la Salud, Hospital de San José Bogotá3/Medicine of Physical Activity and Sports. Assistant Instructor - Department of Physical Activity and Sport. Fundación Universitaria de Ciencias de la Salud, Hospital de San José, Bogotá (Colombia)

P 205 • Feasibility study of Electronic Lifestyle Activity Tracker (ELAT)-based intervention for managing general fatigue in community-dwelling frail older people
Justina Yat Wai, LRI School of Nursing, The Hong Kong Polytechnic University, Kowloon, Hong Kong. Rick Yu Cho KWNA, School of Nursing, The Hong Kong Polytechnic University, Kowloon, Hong Kong. Keith D HILL, School of Physiotherapy, Faculty of Health Sciences, Curtin University, Perth, WA, Australia. Paul Lee, School of Nursing, The Hong Kong Polytechnic University, Kowloon, Hong Kong. Xue BAI, Department of Applied Social Sciences, The Hong Kong Polytechnic University, Hong Kong

P 206 • How is the physical performance according to frailty groups in older Veterans?
Raquel Aparicio-Ugarriza, PhD1, Marianne Turner, MD2, Michael J Mintzer, MD1,2/Hermes Florce, MD, PhD, D1, Jorge G. Ruiz, MD1,3/1Department of Public Health Sciences, Miller School of Medicine, University of Miami, Miami, FL 33136, USA3/2Geriatrics Research, Education, and Clinical Center (GRECC), VA Miami Veterans Affairs Healthcare System, Miami, FL, USA3/3PFI Herbert Werthem College of Medicine, Miami, Florida, (USA)

P 207 • Effects of a simultaneous dual-task multicomponent program on physical, cognitive and dual-task performance: the Aging-ONDUAL-TASK study
Ana Rodriguez-Larred, PhD1, Karitt Arieta MSC, Jon Izazaga PhD1, Susana Maria Gil PhD1, Jose Javier Yanguas PhD2, Ander Espan BSc2, Maldor Kortajarena PhD3, Imaculada Lora BSc2, Chloé Rezola-Pardo MSc2, Frédéric Moteau2, Blandine Berson2, Jacques Granger2, Philippe Noyelle2,1/Department of Physiology, University of the Basque Country, Leioa, Bizkaia, Spain1/Fundación Bancaria La Caixa, Programa de Mayores, Palma (Illes Balears), Spain2/Division of Geriatrics, Department of Internal Medicine, Rehabilitation and Geriatrics, Geneva University Hospitals and Faculty of Medicine, Thonon, Switzerland

P 208 • Effects of Music-based Multitask Exercise (Jaques-Dalcroze Eurythmics) versus Multicomponent Exercise on Physical Function, Falls and Brain Plasticity in Older Adults: A Randomized Controlled Trial
Mélanie Hars, MD1, Natalia Fernandez, PhD2, François Herrmann, MD2, René Rizzoli, MD1, Gabriel Gold, MD, Patric Vulleumier, MD2, Andrea Trombetti1, MD2 Division of Bone Diseases, Department of Internal Medicine Specialties, Geneva University Hospitals and Faculty of Medicine, Geneva, Switzerland1/ Laboratory for Behavioural Neurology and Imaging of Cognition, Campus Biotech, University of Geneva, Geneva, Switzerland2/Division of Geriatrics, Department of Internal Medicine, Rehabilitation and Geriatrics, Geneva University Hospitals and Faculty of Medicine, Thonon, Switzerland

P 209 • Accuracy of total and exercise steps on a pedometer compared to a smartphone application
Christopher Wu, MD, Ksianne Thompson, Rafay Latif, MD, Fortune Oka, MD, Abida Oka, MD, Donald P Kneze, MD Jacobi Medical Center, Albert Einstein College of Medicine, Coalition on Positive Health Empowerment Bronx New York (USA)

P 210 • Insulin resistant older obese women are better responders to resistance training
Philipe Noyelle PhD1,2, Sami Berhaiem 1 , Andreas Karelis PhD2, Mylee Aubertin-Leheude PhD2, Jean-Frédéric Brun MD, PhD1,3/1UFR STAPS - IRMÉS, EA 7329, Université Paris Descartes, Paris, France1/2Département des sciences de l’activité physique, UQAM, Montréal, Canada1/3CHU, Université de Montpellier, Montpellier, (France)

P 211 • Effects of body mass-based resistance training, including explosive motion on muscle functions in community-dwelling elderly: A randomized controlled trial-quick report
Tomoharu Kitade1, Aiko Inoue2, Hiroki Umeak1, Joji Onish2, Hiroshi Akma2, Koji Ishida1, Masahiro Kuzya1/1Institute of Innovation for Future Society, Nagoya University, Nagoya, Japan2/2Department of Community Healthcare & Geriatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan3/3Research Center of Health, Physical Fitness & Sports, Nagoya University, Nagoya, (Japan)

P 212 • Both Neuromotor and Resistance training improve functional mobility and physical fitness in healthy older women
Fortte R. PhD1,2, De Vita G. MD, PhD1,2/1Department of Human Movement and Sports Sciences, University of Rome ‘Foro Italico, Rome, Italy’; 2School of Public Health, Physical Education and Sports Science, University College Dublin, Health Sciences Centre Belfield Dublin 4, (Ireland)

P 213 • Resistance exercise program and food re-education in the control of non transmissible chronic diseases
Joao Fabbri MD, Surgery Specialist Hospital and Emergency Room (HPS). Myrian Alecxessi Fabbri, PhD, Universidade do Estado do Amazonas/LPEHM - Laboratory of Research and Studies in Human Motricity; Mariana de Souza Ferras, MSc; Universidade do Estado do Amazonas/LPEHM - Laboratory of Research and Studies in Human Motricity; Maria José David e Silva; Universidade, Physical Education professional; LPEHM - Laboratory of Research and Studies in Human Motricity; Roldo Figueiredo Pinheiro, MSc, Universidade do Estado do Amazonas/LPEHM - Laboratory of Research and Studies in Human Motricity (Brazil)
BIOLOGY

P 214 • Transformation of mature osteoblasts into bone lining cells and RNA-seq based transcriptome profiling of mouse bone during mechanical unloading
S Kim Seoul National University College of Medicine and Boramae Medical Center, A Ram Hong Kwangsoo Kim Ji Yeon Lee Jae-Yeon Yang Jung Hee Kim, South Korea (Seoul)

STEM CELL

P 215 • Effects of Mesenchymal Stem Cells Transplantation on Cognitive Deficits in Animal Models of Alzheimer's Disease
Meiling Ge 1,2, Birong Dong 1 The Center of Gerontology and Geriatrics, West China Hospital, Sichuan University Guoxue Lane, Chengdu, China 2 The Center on Aging and Health, Johns Hopkins University School of Medicine, Baltimore, MD, (USA)

FUNCTIONAL ASSESSMENT

P 216 • Gender differences in trajectories of physical performance in older adults: Findings from the International Mobility in Aging Study
Tamer Ahmed 1,2 Presenting Simon French 1 Emmanuelle Belanger 3 Ricardo Guerra 4 Maria Victoria Zunzunegui 5 Mohamed Aualis 5,6 Queens University, Kingston, ON, Canada 5 Macquarie University, Sydney, Australia (3) Brown University, Providence, USA (4) Universidade Federal do Rio Grande do Norte, Natal, Brazil (5) University of Montreal, Montreal, QC, (Canada)