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)  
- Aging Research Supported by the National Institute on Aging (NIA): Announcing the NIA Central Biorepository  
- 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 MS, Yongqing Zhang PhD, Ngozi Ejioju 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-Bose 1, P. Aebischer 2, J. Auwerx 3 C. Rinsch 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)  
ALLOGENEIC BONE MARROW-DERIVED MESENCHYMAL STEM CELLS AS A TREATMENT FOR AGING RELATED INDICATIONS  
J Hare, Longeveron LLC, Miami, FL, (USA)

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. Kwori 1, Mary Kennedy 1, Eric J. Sobolevski 1, Youngdeok Kinn 1, Joaquin Gonzalez 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)

11:35/12:00  
**CONFERENCE 5**  
IS FRAILTY ASSOCIATED WITH WORSE OUTCOMES AFTER TOTAL JOINT REPLACEMENTS?  
Lisa A. Mandl, MD, MPH 1, Charles N. Cornell, MD 2, Michael B. Cross, MD 2, Alejandro Gonzalez Della Valle, MD 2, Mark P. Figgie, MD 2, Seth A. Jerabek, MD 2, Justin T. Do, BSE 1, Mayu Sasaki, MPH 1, Nathaniel Hupert, MD, MPH 1, Steven K. Magid, MD 2 - 1 Hospital for Special Surgery, New York, NY - 2 Weill Cornell Medicine, New York, NY, USA

12:00/12:10  
**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 1, 1 Dept. of Molecular Pathology, The Institute for Molecular Medicine, Huntington Beach, CA, USA; 2 Blue Hole Wellness, San Antonio, TX, (USA)

12:10/12:20  
**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 Vetran 1 2, 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)
**FINAL PROGRAM • WEDNESDAY • FEBRUARY 20, 2019**

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, MD; Bret Goodpaster, PhD; Anne Newman, MD, MPH; **Cyrus Cooper**, FMedsCSc; 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 Negm 1,2, Courtney C Kennedy 1,3, Ian D Cameron 4, Lehana Thabane 5, Areti-Angeliki Veroniki, 6,7, Jonathan D. Adachi 3, Julie Richardson 2, Maria Petropoulou, Saad Alsad, Papaioannou 1,3. 1 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. 6 Department of Health Research Methods, Evidence, and Impact, McMaster University. 7 Department of Primary Education, School of Education, University of Ioannina, Ioannina, Greece. 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).

12:30/1:50  **LUNCH BREAK - POSTER SESSIONS - EXHIBITS**

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-Almeyda, 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)

2:35/2:55  **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)

2:55/3:25  **PANEL DISCUSSION**
**INTERNATIONAL CLINICAL PRACTICE GUIDELINES FOR SARCOPENIA: SCREENING, DIAGNOSIS AND MANAGEMENT**
**John Morley**, Saint Louis (USA), **Elsa Dent**, Adelaide, (Australia)

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

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 ciberes, 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)
ORAL COMMUNICATION 5: Moderators: Marco Pahor, Gainesville (USA), Pierre Dilda, Paris (France)

INHIBITION OF KYNURENINE PRODUCTION PROTECTS SKELETAL MUSCLE FROM THE AGE-RELATED LOSS OF MASS AND STRENGTH.
Helen Kaiser, Kanglun Yu MD, Chiayu Pandya PhD, Carlos M. Isales MD, Meghan E. McGee-Lawrence PHD1, Maribeth Johnson, Sadanand Fulzele PhD, Mark W. Hamrick PHD 1 Medical College of Georgia, Augusta University, Augusta, (USA)

ORAL COMMUNICATION 6

EARLY KIDNEY DYSFUNCTION IS ASSOCIATED WITH LONGITUDINAL DECLINE IN PHYSICAL PERFORMANCE IN THE ELDERLY
Petra Bozova PhD 1, Joshua i Barzilay MD 2, Howard A Fink MD, MPH 3, John A Robbins MD, MPH 4, Jane A Cauley DrPH 5, Joachim Hix MD 6, Kenneth J Mukamal MD, MPH 7, 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)

ORAL COMMUNICATION 7

EVALUATING THE PHYSIOSTYPE OF FRAILTY: VALIDATION OF A MEASURE OF PHYSIOLOGICAL MULTISYSTEM DYSREGULATION IN TWO DATASETS
A Gross, Michelle C. Carlso1, Mara A. McAdams-DeMarco, Dan Mungas2, Eleanor Simonsick1, Ravi Varadharajan, Qian-Li Xue1,2, Jeremy Walston, Karen Bandeen-Roche1, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA 1, Department of Mental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA 2, Department of Psychiatry, University of California, San Diego, CA, USA 3, Department of Medicine, Division of Geriatric Medicine and Gerontology, Johns Hopkins School of Medicine, Baltimore, MD, USA 4 Intramural Research Program, National Institute on Aging, Baltimore, Maryland, USA 5, Division of Biostatistics & Bioinformatics, Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins School of Medicine, Baltimore, MD, USA 6, Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (USA)

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, ScMD, Larrv Yeo, MD1, Karla V. Ballman, PhD1, Patrick Kortebein, MD1, Robert J. Canter, MD1, Leon Lenchik, MD1
Robert D. Boutin MD1 (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, USA 4 (Dept of Radiology, Wake Forest School of Medicine, Winston-Salem, NC, (USA)

ORAL COMMUNICATION 9

EFFECT OF RESISTANCE EXERCISE TRAINING AND FISH OIL SUPPLEMENTATION ON THE ADAPTIVE RESPONSE OF MUSCLE IN SARCOPENIC OLDER WOMEN
Natalia Maira da Cruz Alves MsC1, Carolyn Anne Greig PhD1 Karina Pfrimer PhD1 Priscila Carvalho MSc 2, Ellen Cristina de Freitas PhD1, Thiego Neves MsC1, Juliana Cristina dos Santos Marchesi PhD1, Daniela Dalpuebl Campanari MsC1, Olga Laura Sena Almeira MD1, Eduardo Ferrioli 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)

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 Latil1, Maria Serova1, Blaise Didry-Barca1, Sissi On1, Stanislas Veillet1, René Lafont1 Biophytis, Sorbonne Université, Paris, France 2 Sorbonne Université,UPMC Univ Paris, Paris-Seine Biology Institute (BIOISPE), CNRS, Paris, (France)

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
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: Anurag Singh, MD, PhD, Chief Medical Officer, Amazentis, Switzerland
• 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)

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)

KEYNOTE 3

INTRINSIC CAPACITY Chairman : Bruno Vellas, Toulouse (France)
Matteo Cesari, University of Milan (Italy)

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)

KEYNOTE 4 Chairman : Roger Fielding, Tufts University MA, (USA)

BIOMARKER AND BIOLOGY OF FRAILITY
Jeremy Walston, Johns Hopkins University, Baltimore, (USA)

COFFEE BREAK - POSTER SESSIONS - EXHIBITS

CONFERENCE 6 Moderators: Yves Rolland, Toulouse (France), Adelaida Palla, Stanford (USA)
THE ASSOCIATION BETWEEN MUSCLE MASS ASSESSED BY DXCR 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)

CONFERENCE 7

DIFFERENCES IN AMINO ACID COMPOSITION BETWEEN VARIOUS TYPES OF PROTEIN SUPPLEMENTS.
Nathaniel Johnson BA1, Kara Trautman MS, CS CS1, Christopher Kotarsky MS, CS CS1, Nathan Dicks MS, CS CS, TSAC-F, Kyle Hackney, PhD, CS CS1, and Sherri Stastny PhD, RD, CSSD, LRD1. 1Department of Health, Nutrition, and Exercise Sciences, North Dakota State University, Fargo, ND, (USA)

CONFERENCE 8

DEVELOPMENTS IN THE PATHOPHYSIOLOGIC BASIS OF FRAILTY IN TYPE 2 DIABETES AND EMERGING ROLES OF APOLIN IN FUTURE CLINICAL TRIALS
Cedric Dray, INSERM (France) - Alan Sinclair, London (UK)

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. Hlobbrook1, Peggy Kraft1, and Helen M. Blau*1*Equal contribution; 1Baxter Laboratory for Stem Cell Biology, Department of Microbiology and Immunology; Stanford School of Medicine, California, (USA)

ORAL COMMUNICATION 12

DIETARY SUPPLEMENTATION WITH FISH OIL AND CURCUMIN IMPROVES GAIT SPEED AND MITOCHONDRIAL FUNCTION DURING AGING
Claire Bouthy-Regard, PhD2, Laurent Mosoni, PhD2, Lydie Combaret, PhD2, Christiane Deval2, Lenaïc Dupuis, MSc1 Eugenia Migliavacca, PhD1, Gabrielle Civiletto, PhD1, Jerome N. Feige, PhD1, Dominique Dardevet, PhD1, Denis Breuille, PhD1 1Nestle Research, Vers-chез-les-Blanc, Lausanne 26, Switzerland 1University Clermont Auvergne; IMRA, UNH, CRNH Auvergne, Clermont-Ferrand, France; 1Nestle Research, EPFL Innovation Park, Lausanne, (Switzerland)

ORAL COMMUNICATION 13

PREDICTING ONSET, PREVALENCE AND MORTALITY IN MALE AND FEMALE MICE USING THE MOUSE FRAILTY PHENOTYPE
L Thompson, Dongmin Kwak, Boston University Corybaum, University of Minnesota (USA)
12:25/12:35

**ORAL COMMUNICATION 14**

**AGING-ASSOCIATED LOSS OF HYPOXIA SIGNALING LIMITS SKELETAL MUSCLE REGENERATION**

*Indranil Sinha MD,1,2 Dharaniya Sakhivel MS,1 Kodi Udesh BS,1 Bin Li MD,1 Adriana Panayi MD,1 Ronald Neppl PhD1, Shalender Bhasin MD,1 Amy Wagers PhD4 Division of Plastic Surgery, Brigham and Women’s Hospital, Boston, 2Department of Orthopedic Surgery, Brigham and Women’s Hospital Division of Endocrinology, Brigham and Women’s Hospital, Boston 4Harvard Stem Cell Institute, Cambridge (USA)

12:35/12:45

**ORAL COMMUNICATION 15**

**DYNAPENIA IS ASSOCIATED WITH EXECUTIVE DYSFUNCTION: RESULTS FROM THE GAIT AND BRAIN STUDY**

*Montero-Odasso M MD PhD AGSF FRCPC,2,3 Sakurai R PhD4 Bray NW MSc,5,6 Pieruccini-Faria F PhD4,5 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, Canada2 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, Japan5 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 Stanislas Veillet1,2 Biophytis, Sorbonne Université, Paris, France 2 Sorbonne Université, UFR 927, IBPS-BIOSIE, 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 (BIOSIE), 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 Reginster 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, Médéa Locquet, Jean-Yves Reginster 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)

**COMPARISON OF HIGH-INTENSITY INTERVAL TRAINING AND MODERATE-INTENSITY CONTINUOUS TRAINING ON PHYSICAL AND FUNCTIONAL CAPACITIES IN OBESE OLDER ADULTS**

_Aubertin-Leheudre M_, Carvalho LP, Gouspillou 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)

5:00/5:10

**ORAL COMMUNICATION 17**

**FRAILTY AMONG PATIENTS WITH ACUTE MYOCARDIAL INFARCTION**

_Abdulla A. Damluji_, 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)

5:10/5:20

**ORAL COMMUNICATION 19**

**THRESHOLD DEFINITION FOR GRIP STRENGTH TO IDENTIFY RELEVANT WEAKNESS IN SWISS DO-HEALTH PARTICIPANTS**

_Michael Gagesch_, MD 1,2, Lauren Abderhalden, PhD 1,2, Reto W. Kressig, MD 1, Bruno Vellas, MD 1, René Rizzoli, MD,5, Gregor Freyßtätter, MD 1,2, Heike A. Bischoff-Ferrari, MD,DrPH 1,2 for the DO-HEALTH investigators

5:20/5:30

**ORAL COMMUNICATION 20**

**ASSOCIATION BETWEEN NUTRIENT INTAKE, PHYSICAL ACTIVITY AND SARCOPENIA-RELATED GENE-PROMOTOR DNA METHYLATION**

_Lingxiao He_ MS 1,2, Praval Khanal MS 1,2, Christopher I Morse PhD, Martine Thomis PhD 1 (1) Department of Movement Sciences, KU Leuven, Leuven, Belgium 1 (2) Department of Exercise and Sport Science, Manchester Metropolitan University, Crewe, (UK)

5:30/5:40

**ORAL COMMUNICATION 21**

**USING SOCIALLY ASSISTIVE ROBOTS FOR MONITORING AND PREVENTING PHYSICAL FRAILTY AMONG OLDER ADULTS: A STUDY ON USABILITY AND USER EXPERIENCE**

_Lex van Velsen_ 1,2, _Richelle A.C.M. Olde Keizer_ 1, _Mathieu Monchamont_ 1, _Brigitte Riche_ 1, _Nadir Ammour_ 3, _Gianluca Zia_ 1,2, _Hennie Hemmens_ 1,2, _Aurélie N'Dja_ 1 and _Susanna Del Signore_ 1 1 Roessingh Research and Development, Enschede, The Netherlands 1 University of Twente, Enschede, the Netherlands 2 Sanofi R&D, Paris, France 3 Caretek srl, Torino, Italy 1 BlueCompanion 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 Ker, Jacqueline Panigel- Muscle Metabolism DPU, GSK Dawn Waterworth, Lea Sarov-Blat, Deepak Rajpal, Johannes Freundgen - 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_, DrPH 1, _Stephen Anton_, PhD 1, _Dan Beavers_, PhD 1, _Roger Fielding_, PhD 1, _Stephen Kritchevsky_, PhD 1, _Christiania Leewenburgh_, PhD 1, _Kristina Lewis_, MD, MPH, SM 1, _Christine Liu_, MD, MS 1, _Lauri Lovato_, MS 1, _Ching-ju (Jane) Lu_, MPH 1, _Todd Manini_, PhD 1, _Mary McDermott_, MD 1, _Mike Miller_, PhD 1, _Anne Newman_, MD, MPH 1, _Barbara Radoszewska_, PhD, MPH 1, _Cindy L. Stowe_, MPMP 1, _Russell Tracy_, PhD 1, _Mike Walkup_, MS 1, _Samuel Wu_, PhD 1, _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 7 University of Vermont, Burlington VT, USA 8 National Institutes of Health, Bethesda MD, (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

**ICFSR NETWORKING RECEPTION IN EDEN ROC GARDENS**

(PRE-REGISTERED ATTENDEES ONLY)
BREATH INDUSTRY SYMPOSIUM: Hosted by Longeveron

TRENDS IN ANTI-AGING RESEARCH AIMED AT EXTENDING THE HEALTHSPAN

Linda Fried, MD, PhD - Dean of the Mailman School of Public Health and DeLamar Professor of Public Health Practice, Professor Epidemiology and Medicine Senior Vice President, Columbia University Medical Center

Pinchas Cohen, MD - Dean, USC Leonard Davis School of Gerontology

Joshua M. Hare, MD - Co-Founder & Chief Science Officer, Longeveron LLC

9:00/9:10

ORAL COMMUNICATION 24

THE BURDEN OF AUTONOMOUS LIVING AND BASIC SELF-CARE DISABILITY FOR AGING ADULTS IN THE UNITED STATES: DISABILITY-ADJUSTED LIFE YEARS

Ryan McGroth, PhD; Soham Al Snih, MD, PhD; Kyrniakos Markides, PhD; Kyle Hackney, PhD; Ryan Bailey, PhD, OTR/L; Mark Peterson, PhD, MS

North Dakota State University, Fargo, ND, USA

University of Texas Medical Branch, Galveston, TX, USA

Washington University in St. Louis, St. Louis, USA

University of Michigan, Ann Arbor, MI

9:10/9:20

ORAL COMMUNICATION 25

MULTICENTER COHORT STUDY OF FRAILTY AND ACCESS TO KIDNEY TRANSPLANTATION

Christine E. Haugen MD; Nadia M. Chu PhD MPH; Hao Ying MHS; Fatima Warsame BA; Courtenay M. Holscher MD; Niraj M. Desai MD; Miranda R. Jones PhD; Silas P. Norman MD; Daniel C. Brennan MD; Jacqueline Garonzik-Wang MD PhD; Jeremy D. Walston MD; Adam W. Bingaman MD; Dorry L. Segev MD PhD; Mara McAdams-DeMarco PhD; Department of Medicine, Baltimore, MD

Department of Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD

Department of Medicine, Division of Nephrology, University of Michigan, Ann Arbor, MI

Department of Medicine, Division of Nephrology, Johns Hopkins University School of Medicine, Baltimore, MD

Department of Medicine, Division of Geriatrics, Johns Hopkins University School of Medicine, Baltimore, MD

Department of Surgery, Methodist Specialty and Transplant Hospital, San Antonio, TX

9:20/9:30

ORAL COMMUNICATION 26

FRAILTY STATUS AFFECTS T CELL RESPONSES TO CMV, BUT NOT THE LEVEL OF CMV DNA

N Rodin, Johns Hopkins Bloomberg School of Public Health

Weiyiing Zhang, Johns Hopkins Bloomberg School of Public Health

Tricia L Nilles, Johns Hopkins Bloomberg School of Public Health

Jay H Bream, Johns Hopkins Bloomberg School of Public Health

Sean X Leng, Johns Hopkins School of Medicine

Joseph B Margolick, Johns Hopkins Bloomberg School of Public Health

9:30/10:15

SYMPOSIUM 8

GAP BETWEEN THEORY AND PRACTICE: A 360 DEGREE CONSIDERATION OF OPPORTUNITIES REMAINING IN FRAILTY MEASUREMENT

Symposium moderator and affiliations: Karen Bandeen-Roche, PhD

Hurley Dorrier Professor & Chair in Biostatistics Johns Hopkins Bloomberg School of Public Health (USA)

• Disparate Assessment of Frailty? A Study to Evaluate Equivalency of Frailty Criterion Behavior across Demographic Subgroups

Karen Bandeen-Roche, PhD. Johns Hopkins Bloomberg School of Public Health (USA)

• Derivation of a measure of physiological multisystem dysregulation: Results from WHAS and Health ABC

Alden L. Gross, PhD MHS. Johns Hopkins Bloomberg School of Public Health (USA)

• Measuring Frailty Status in Older Adults with Acute Myocardial Infarction in population-based Studies: Feasibility to Capture Prevalence and Effect Measure Modification

Abdulla Damluji, MD, MPH. Johns Hopkins University (USA)

10:15/10:30

CONFERENCE 9

DISTINGUISHING AMONG DYNAPENIA WITHOUT FRAILTY, FRAILTY WITHOUT DYNAPENIA, AND FRAILTY WITH DYNAPENIA: IS IT CLINICALLY RELEVANT?

Paulo H. M. Chaves, MD, PhD; Qian-Li Xue, PhD; Leocadio Rodriguez-Mañas, MD, PhD; Karen Bandeen Roche, PhD; Benjamin Leon Center for Geriatric Research and Education, Herbert Wertheim College of Medicine, Florida International University, Miami, FL, USA

Center on Aging and Health, Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore, MD, USA

Department of Geriatrics, Hospital Universitario de Getafe, Madrid, Spain

Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, Baltimore, USA

10:30/10:45

CONFERENCE 10

IMPROVING MUSCLE, BONE AND MOBILITY IN OLD AGE

Debra Waters, PhD, Director of Gerontology Research Director of Ageing Well National Science Challenge - School of Physiotherapy and Department of Medicine - Dunedin (New Zealand)

10:45/11:15

COFFEE BREAK - POSTER SESSIONS - EXHIBITS
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, PhD, José Antonio Carmeiro-Carreño, PhD, Suela Sula, PhD, Ricardo Rueda MD, PhD, Jamie Partridge, PhD, MBA, Suzette Pereira, PhD, Leocadio Rodríguez-Mañas MD, PhD(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 Ek (1); Debora Rizzuto (1); Amalia Calderon Larañaga (1); Erika Franzén (2,3); Wei Xu (4) Anna-Karin Welmer (2,3,4,5) Aging Research Center (ARC), Department of Neurobiology, Care Sciences and Society, Karolinska Institutet and Stockholm University, Stockholm, Sweden (6) Division of Physiotherapy, Department of Neurobiology, Care Sciences and Society, Karolinska Institutet, Sweden (7) Allied Health Professionals, Function Area Occupational Therapy & Physiotherapy, Karolinska University Hospital, Stockholm, Sweden (8) 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-Vérján, Mario Ulises Pérez-Zepeda, Luis Miguel Gutierrez-Robledo. Instituto Nacional de Geriatria (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-Scheut M, Kocherginsky M, Ferguson M, Huang E, Schum LP, Waite LE (1) 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, PhD, T. Manini, PhD, A. Newman, MD, M.M. McDermott, MD, S. Anton, PhD, S.B. Kritchevsky, PhD, R. Tracy, PhD, W.T. Ambrosius, PhD, L. Lovato, MS, Suzette Pereira, PhD, A. Santos, MS, M. Pahor, MD, (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 ENRGISE PILOT TRIAL
Stephen B. Kritchevsky PhD, Russell Tracy, PhD, Todd M. Manini, PhD, Anne B. Newman, MD, MPH, Mary McDermott, MD, Roger Fielding, PhD, Laura Lovato, PhD, Ezequiel Zamora, MD, Marco Pahor, MD (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 OBSESE OLDER ADULTS WHILE DIETING: RESULTS FROM THE LIITOE 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 Armamento Villareal Baylor College of Medicine, and the Center for Translational Research on Inflammatory Diseases, Division of Endocrinology, Diabetes, and Metabolism, Michael 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
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 Hilgmann 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 Hilgmann 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 Hilgmann 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 Césari, 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, PhD1, Carmen Sánchez-Castellano MD, PhD1, Paloma Bemjoe-Bescós PhD1, María-Nieves Vaquero Pinto1, Carmen Miret-Corcheda1, Sagrario Martín-Aragón PhD2,3, Geriatrics Department, Hospital Universitario Ramón y Cajal, IRyCIS, Madrid, Spain.2,3

ORAL COMMUNICATION 33
SARCOPENIC OBESITY IN ASIAN POPULATIONS: INFLUENCE OF OBESITY DEFINITIONS ON PREVALENCE AND PHYSICAL PERFORMANCE
Ezra Qiu-En Khor1; Jun-Pei Lim, MBBS, MRCP (UK), MMed (Int Med)2,3, Laura Tay, MBBS, MRCP (UK), MMed (Int Med), MCP4; Audrey Yeo, BMS5; Suzanne Yew, BSN6; Yew-Young Ding, MBBS, FAMS, FRCP (Edin), PhD1,2; Wee-Shiong Lim, MBBS, MRCP (UK), MMed (Int Med), MHPEd, AGSF, FAMS2,3,4; Lee Kong Chian School of Medicine, Singapore 2,3 Department of Geriatric Medicine, Tan Tock Seng Hospital, Singapore 4 Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital, Singapore 5 Department of General Medicine (Geriatric Medicine), Sengkang Hospital, (Singapore)

SYMPOSIUM 10
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 Hilgmann Maastricht (the Netherlands), Charlotte Beaudart Liège (Belgium)
• Welcome and introduction: Jean-Yves Regnier Liège (Belgium)
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• 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 Hilgmann Maastricht (the Netherlands), Jean-Marc Kaufman Ghent (Belgium), René Rizzoli Geneva (Switzerland) Conclusion: Olivier Bruyère Liège (Belgium)

END OF THE CONFERENCE
BIOLOGY OF FRAILTY AND AGING

**P 1** • Circulating Interleukin-6 is Associated with Skeletal Muscle Size, Composition, Contractile Function, and Physical Performance in Mobility-Limited Older Adults

**P 2** • Sarcomere is associated with widespread changes in the muscle myotye

**P 3** • Intramuscular fat infiltration, muscle strength, and muscle fatness in frail older persons

**P 4** • Searching for biomarkers and risk factors of frailty in older adults - preliminary results from the BioFrail study

**P 5** • Aortic pressure wave reflection is associated with muscle strength and mass, but not with gait speed, in older adults

**P 6** • Poor glycem ic control in patients with diabetes and prevalence of sarcopenia: The MUSCLES-DM study

**P 7** • Frailty and potential biomarkers of aging

**P 8** • Iron dyshomeostasis is associated with mitochondrial DNA alterations in skeletal muscle of sedentary high- and low-functioning older people

**P 9** • Novel Role of cardiac Troponin T in Skeletal Muscle Aging

**BIOMARKERS AND IMAGING**

**P 10** • Serum creatinine and cystatin C based index can be a screening biomarker for sarcopenia in older population

**P 11** • Identification and Characterization of New Biochemical Markers for Sarcopenia

**P 12** • Serum free testosterone levels are positively correlated with skeletal muscle mass in older women over 75 years old

**P 13** • Diagnostic validity of biochemical markers for the diagnosis of sarcopenia in adults. Systematic review

**P 14** • Diagnosing sarcopenia at the point of imaging care: Prospective integration of functional and opportunistic CT data

**P 15** • A systematic review of the secretome of skeletal muscle cells

**P 16** • Assessment of Visceral Adipose Tissue by MRI and BIA

**P 17** • On the definition of sarcopenia in the presence of aging and obesity
40 • Impacts of chronicity and habitual physical activity with sarcopenia

H Park. Department of Health Care Science, Dong-A University, Busan, (South Korea)

COGNITIVE FRAILTY

P 45 • Frailty as a predictor of cognitive disorders: a systematic review and meta-analysis
Marcus Kiti Borges, Marco Canevelli, Matteo Cesari, Ivan Aprahamian. 1,2 Department of Geriatric and Psychiatry, “Ambulatorio de Alterações Comportamentais em Idosos” (ACID), Faculty of Medicine, University of São Paulo (FMUSP), São Paulo, Brazil; 3 Department of Human Neuroscience, Sapienza University, Rome, Italy; 4 Fondazione (IRCCS) Ca’ Granda - Ospedale Maggiore Policlinico, University of Milan, Milan, Italy; 5 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 Oiring, Júlio Cezar, Marcus Kiti Borges, MD, PhD, 1,2 Alaine Silva Santos de Siqueira, MS, 3 Mônica Sanches Yassuda, PhD, 4,5 Matteo Cesari, MD, PhD 4,5 Ivan Aprahamian, MD, MS, PhD 4,5,6,10 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 S Abe Colombia Study
Estheriana Chacón-Valezuela,1,2 Elly Morales-González,3,4 María Pualía Vargas-Behrán,1,2,5 Luis Carlos Veneas-Sanabria,1,2 Diego Chavarría-Carvajal,1,2,6 Carlos Alberto Caro-Gutiérrez,1,2,3 Semillero de Neurociencias y Envejecimiento, Aging Institute and Faculty of Medicine, Pontificia 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-Kamenye, Kiyoshi Yamaguchi, Mitsutaka Yakabe, Taro Kojima, Yasuhiro Yamaguchi, Sumito Ogawa, Masahiro Akihita Department of Geriatric Medicine, The University of Tokyo (Japan)

P 49 • Sarcopenia and cognition in the oldest old: data from the FIBRA cohort study in 2018
Mônica Sanches Yassuda - University of São Paulo, State University of Campinas Gabriela Cabippoli - University of São Paulo Flávia Arbex Borin - State University of Campinas André Fattori - State University of Campinas Ligiana Pires Corona - State University of Campinas Ana Liberleso Neri - State University of Campinas Ivan Aprahamian - Jundiaí Medical School (Brazil)

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

P 51 • Could Delirium be a Manifester of a Symptomatic Over-drive?
Elaine Shahanam-University Hospital Limerick, Ireland and Graduate Entry Medical School, University of Limerick, Ireland Sheila Carew-Campus of Nursing and Health Studies, University of Limerick, Ireland The University of Limerick, Ireland and Graduate Entry Medical School, University of Limerick, Ireland.

P 52 • Study of cognitive frailty in a health-seeking population
Meenal Thakral Jr. Resident, Pursuing MD, Anivsh Chakravartty 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 Medicine of University of Cape Town, Cape Town University Hospital, Western Cape, South Africa; 2 Department of Geriatric Medicine, University of Cape Town, Cape Town, South Africa; 3 Department of Geriatric Medicine, University of Cape Town, Cape Town, South Africa.

P 54 • Measuring and frailty
Mathieu Malet, Philippe de Souza Barreto, Yves Rolland & Bruno Veiller Gérontopôle de Toulouse (France)

P 55 • Frailty Mediates Senility in Mexican-Americans
Palmer RF,1 Royall DR1-4 Departments of Family & Community Medicine, Psychiatry,3 Medicine, 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 Godbold, PhD; Candidate, Carla M. Prado, PhD, Linda J. Woodhouse, PhD, Mary Forhan, PhD 2) Faculty of Rehabilitation Medicine, University of Alberta, Edmonton, Alberta, Canada (1) Department of Agricultural, Food and Nutritional Science, Faculty of Agricultural, Life and Environmental Sciences, University of Alberta, Edmonton, Alberta, Canada (2) Department of Physical Therapy, Faculty of Rehabilitation Medicine, University of Alberta, Edmonton, Alberta, Canada (3) Department of Occupational Therapy, Faculty of Rehabilitation Medicine, University of Alberta, Edmonton, Alberta, Canada (4) Department of Physical Therapy, Faculty of Rehabilitation Medicine, University of Alberta, Edmonton, Alberta, Canada (5) 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 Ozu Cukurkmen 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
Olga Tomarevskaya MD, PhD, Oleksandr Poliakov 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.
POSTERS • Wednesday • February 20, 2019

P 59 • Findings of a Systematic Review of Psychometric Properties for Daily Activities (ADL) Questionnaires for Older Community-Dwelling Persons: A Systematic Review
Manjith Hoppman-Rock, PhD MSc MA, Helmi van Hirtum MSc,1 Paul de Vreede, PhD; Ellen Freiberg, PD PhD.1,2 Research center TNO (Netherlands Organization for Applied Scientific Research) and VU university Medical Center, Leiden/Amsterdam, The Netherlands.1 Department of Public Health, Erasmus MC, University Medical Center Rotterdam, The Netherlands.1 Institute for Biomedicine of Aging, Friedrich-Alexander University Erlangen-Nürnberg, Nuremberg, (Germany)

P 60 • Correlation between clinical questionnaires and gait parameters with foot pressure patterns in patients with knee osteoarthritis
Si-hyun Kim, PT, PhD, Kyung-nam Park, PT, PhD.1,2 Department of physical therapy, Sangji University, Wonju, South Korea;1 Department of physical therapy, College of Medical Science, Jeonju University, Jeonju, (South Korea)

P 61 • Investigation of the influence of the interaction between skeletal muscle mass and fat mass on muscle strength and performance in Japanese older people
Kiyoshi Tsuchi1, Kamide Naoto1,2, Takuya Maeda1, Tetsurou Nakazono1, Sakamotó Mik1, Haruhiko Sato1,2 Yoshihiko Shib1, Naonobu Takahira1,2,3,4,5. Graduate School of Medical Sciences, Kitasato University, Japan. (J)School of Allied Health Science, Kitasato University, Japan;1 Department of Rehabilitation, Kitasato University East Hospital, Japan;1,2Department of Rehabilitation, Kitasato University Hospital, (Japan)

P 62 • Life-Space Mobility As A Clinical Indicator for Physical Fitness in Community-Dwelling Older Adults: Gender Disparity Observations
Tay En, Ng YS, Latib A, Mah SM, Tay L.5 Sengkang General Hospital (Singapore)

P 63 • Developing a novel tool for the assessment of physical frailty in patients with a diagnosis of psychiatric disorders: Results from two Delphi studies
J Sutton1 Department of Old Age Psychiatry, King’s College London Department of Old Age Psychiatry, IoPPN, King’s College London, De Crespigny Park, London United Kingdom London Dr Rebecca Gould, Division of Psychiatry, University College London Professor Robert Howard, Division of Psychiatry, University College London (UK)

P 64 • Exploring how best to conceptualize and measure frailty indicators in the context of psychiatric disorders: Results from two Delphi studies
J Sutton1 Department of Old Age Psychiatry, King’s College London Department of Old Age Psychiatry, IoPPN, King’s College London, De Crespigny Park, London United Kingdom London Dr Rebecca Gould, Division of Psychiatry, University College London Professor Robert Howard, Division of Psychiatry, University College London (UK)

P 65 • Congenital, untreated, severe isolated growth hormone deficiency pre-disposes or protects against frailty and sarcopenia?
Miguru Boivin Gos-jo,1,2, Alana Laucha Guimarães,1,2, Giovanni Moreira Brasilieiro,1,2, Ananda A. Santanta-Ribeiro,1,2, Jansen Atier Estrázulas,1,2,3,4,5, Cesar Ferreira Amorim,1,2,5, Inaê Caroline Gadotti,1,2, Manuel Herminio Aguiar-Oliveira,1,2, Roberto Salvatori,1,2, & Edgar Ramos Vieira1,3,4,5,1 Department of Physical Therapy, Florida International University, Miami, Florida, USA. 2,3,4,5 Laboratory of Motor Control and Body Balance, Center for Health Research Science, Federal University of Sergipe, Aracaju, Sergipe, Brazil. 5 Division of Endocrinology, Federal University of Sergipe, Aracaju, Sergipe, Brazil. 2,3,4,5 Division of Endocrinology, Diabetes and Metabolism, Johns Hopkins University, Baltimore, Maryland, Baltimore, (USA)

P 66 • Remotely captured daily mobility pattern in age-related sarcopenia. A pilot clinical study
Lorenzo Maria Donato1, Alberto Raimondi,1 Eleonora Poggio-carlo1,2, Luca Carlo Feletti1,2, and Susanna Del Signore1. Sapienza University, Rome, Italy 2 NeuroMuscularFunction Research group, School of Exercise and Sport Sciences, Department of Medical Sciences - University of Turin, Italy 1 Caretek srl, Torino, Italy 3 BlueCompanion ltd, London, (UK)

P 67 • Functional reserve index determined through daily mobility rehabilitation unit: follow-up of older adults with balance alteration
Marcela Arias Barredo MD, PhD,1 Maria Victoria Figueroa Saouter LP1,2,3 (1) Physician Chef, Geriatric Hospital Howard, National Institute of Geriatrics, Santiago de Chile, Chile (2) Physical therapist, Geriatric Hospital Howard, National Institute of Geriatrics, Santiago de Chile, Chile (3) Physiotherapist, University Rey Juan Carlos, Madrid, Spain

P 68 • How young is your Muscle? Functional Assessment with Ageing
Swati Banerjee1,2, Loubna Innsri3, Sofiane Boudaoud4,5, Kyoko Kikunaga1,2,3,4,6,7,8,9,10,11,12,13,14. Sorbonne University, Paris, France 1 CNRS, UMR 8256 Biological Adaptation and Aging, Sorbonne University, Paris, France. 1 Functional Exploration Unit of older patients, University Hospitals PhD-Salpetriere Charles Foix. DHU PAST, Assistance Public Hôpitaux de Paris (APHP), Paris, France. 1 Laboratoire Bioclinique et Bioingenierie UMR 7338, Université de technologie de Compiegne, Sorbonne Universite (France)

P 69 • Accuracy of inertial sensors vs optical motion capture system for analysis of movement - preliminary results
Jansen Atier Estrázulas1,2,3,4,5, Fernanda Gonzales Civitella1,2,3,4,5, Miguru Boivin Gos-jun1,2,3,4,5, Cesar Ferreira Amorim1,2,3,4,5, Edgar Ramos Vieira1,3,4,5,1 Department of Physical Therapy, Florida International University, Miami, Florida, USA. 2,3,4,5 Laboratory of Motor Control and Body Balance, Center for Health Research Science, Federal University of Sergipe, Aracaju, Sergipe, Brazil. 5 Division of Endocrinology, Diabetes and Metabolism, Johns Hopkins University, Baltimore, Maryland, Baltimore, (USA)

P 70 • An innovative platform based on wearable sensor to quantify physical frailty phenotypes
He Zhou PhD; Bijan Nafji PhD. Interdisciplinary Consortium on Advanced Motion Performace (iCAMP), Michael E. DeBakey Department of Surgery, Baylor College of Medicine, Houston, TX, (USA )

P 71 • Prognostic value of a rapid sarcopenia measure in acutely ill older adults
Marlo J. R. Alibert MD1, *Claudia Silva-j, MD, PhD1,2, Kenneth E. Covinsky, MD, MPH1,2,3, Seth J. Lee, MD, MAS1,2,3, Wilson Jacob-filho, MD, PhD1,2,3, Claudia K. Suemoto, MD, PhD, MSc1,2,3 (1) Department of Geriatrics, University of Sao Paulo Medical School, Brazil. 2,3 Center for Clinical and Epidemiological Research, Hospital Universitario, University of Sao Paulo, Brazil

P 72 • Physical Function predicts Sarcopenia: Results from a Representative Population-Based Cross-sectional Study in Tonantins, Amazonas
Alex Lima1, Elvio Gouveia1,4, Andreas Ihe2, Mathias Kliegel1,2, Hans Markel1,2,3, Fátima Baptista1,2,3,4,5,1, Centro Universitário do Norte – Uninorte; 2 Department of Physical Education and Sport, University of Funchal, Funchal, Portugal; 3,4,5,1, University Interdisciplinary Research Institute, Funchal, Portugal; 2,3,4,5,1, Center for the Interdisciplinary Study of Gerontology and Vulnerability, University of Geneva, Switzerland; 1,2,4,5,1, Department of Psychology, University of Geneva, Geneva, Switzerland; 1,2,3,4,5,1, University of Physical Therapy, Florida International University, Miami, Florida, USA; 1,2,3,4,5,1, Health Administration Institute, Secretary of Health of the Autonomous Region of Madeira, Funchal, (Portugal); 3,4,5,1, Escola Superior de Enfermagem São José de Cluny, Funchal, Portugal; 1,2,3,4,5,1, Centro Interdisciplinar de Estudo da Performance Humana, Faculdad de Motricidade Humana, Universidade de Lisboa, Lisboa, Portugal; 1,2,3,4,5,1 Centro de Investigação em Saúde Pública, Escola Nacional de Saúde Pública, Universidade Nova de Lisboa, Lisboa, (Portugal)

CLINICAL TRIALS

P 73 • Exercise rehabilitation in older, sarcopenic and frail patients
Ellen Freiberg1, PD PhD; Monika Siegert* PhD; Wolfgang Kemmler* Prof. PhD; Cornel Siegert* Prof. Dr.; 1 Friedrich-Alexander University Erlangen Nuremberg, Institute for Biomedicine of Aging 2 Institute for Medical Physics (FAU); 2 Hospital Bambergzur Brüder Regensburg (Germany)

P 74 • The FORCE trial: Focus on Reducing Dose-Limiting Toxicities in Colon Cancer with Resistance Exercise (RT): Baseline Functional Status
Barta Cao1,2, Kathryn H. Schmitz3, Elizabeth M. Brighten4, Justin C. Brown5, Kristin L. Campbell5, Adrienne Castillo4, Elizabeth M. Copensiel Falconiano6, Valerie S. Lee1, Charles P. Quensenberry1, Sara K. Quinnin2, Barbara Sternfeld7, Renate M. Winkels8, Jeffrey A. Meyerhardt4, Kiseri Front Yerer California, Oakland, CA, 8 Penn State Cancer Institute, Penn State College of Medicine, Hershey, PA; 2,3,4 Dana Farber Cancer Institute, Boston, MA; 4,5,6 University of British Columbia, Vancouver, Canada; 6,7 Indiana University School of Medicine, Indianapolis, IN (USA)

P 75 • The effects of aerobic, resistance, and combined training for the management of frailty in older adults with subjective cognitive impairment: A randomized controlled trial
Chi Huyen Huong MD, MSc1,2,3, Hirokazu Uemagi, MD, PhD.1,2,3,4,5, Yousuke Uemagi, MD, PhD.1,2,3,4,5, Masaomi Kozuya, MD, PhD.1,2,3,4,5. Institute of Innovation for Future Society, Nagoya University, Nagoya, Japan 1 Department of Community Healthcare and Geriatrics, Graduate School of Medicine, Nagoya University, Nagoya, Japan 2,3,4,5 Department of Family Medicine, E-Da Hospital, I-Shou University, Kaohsiung City, Taiwan 4,5 School of Medicine for International Students, I-Shou University, Kaohsiung City, Taiwan 4,5 Department of Preventive Gerontology, Center for Gerontology and Social Science, National Center for Geriatrics and Gerontology, Obu, Japan
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P 149 • The potential to prevent, identify and treat frailty and its consequences in community-dwelling older adults using a digital platform and existing smartphone capabilities

Edgar Ramos Vlea, MD; Norberto Hernandez, MD; Benjamin C. Amick III, PhD; Department of Physical Therapy, Florida International University, Miami, FL, USA 1; LifeWallet, Miami, FL, USA 2; Department of Health Policy and Management, Florida International University, Miami, FL, USA (USA)

P 150 • Accelerated Aging in Older Persons with HIV Infection

Julia Dang, DO; Mary Goodey, MSc; Victor Tran, MSc; Amalia Acuvedo, PhD; Raymond Oxmdy, MD, PhD 1; Department of Psychiatry and Behavioral Medicine, Nova Southeastern University, Fort Lauderdale, FL, USA

P 151 • Potentially inappropriate medication in people over 75 years in neurosurgery departments: dream and reality...

Matthelde Strunia, Chloé Durand, Yan Hakimii, Khevin Itoua-Gassaye, C. Laborde, PharmD, PhD 2; Pharmacy Department, CHU Toulouse, Toulouse, (France)

P 152 • Does Implicit Ageism Predict Frailty in Older Veterans?

Douglas Salgueiro, MD; Mohammed Nadeem, MD; Juliana Feni-Guerreir, Raquel Aparicio 1; Zubair Rahaman 1, and Jorge G. Ruiz 1, 2; Department of Public Health Sciences, University of Miami Miller School of Medicine 3, Miami VAHS GRECC Successful Aging for frail Elders (SAFE) 1, Department of Medicine, University of Miami Miller School of Medicine (USA)

P 153 • Tobacco use and its association with frailty

Miguel Ulises Pérez-Zepeda, MD PhD 1, 2, 3, 4; Daniela Palomo-Hernández, MD 2, 3, 4. Miguel Germán Borda MD PhD 2, 3, 4, 5; Aging Institute, Pontificia Universidad Javeriana, Bogotá, Colombia 2, 5; Semillero de Neurociencias y Envejecimiento, Pontificia Universidad Javeriana, Bogotá, Colombia 2; Geriatric Epidemiology Research Unit, Instituto Nacional de Geriatría, México D.F, México 5; Medical School, Universidad Anáhuac Norte, México D.F, México 5; Centro de Especialistas, Colsubsidio, Bogota, Colombia 2; Centre for Age-Related Diseases, Stavanger University Hospital, Stavanger, (Norway)

P 154 • Testing the Pictorial Fit-Frail Scale in Canada and Malaysia

Olga Theou, PhD; Lisa Maggiori, PhD; Sally Suriani Ahip, MMED; Emma Squires, BA; Lindsay Wallace, MSC; Szatina Sharrif, PhD; Renu Visvanathan, PhD 1; Kenneth Rockwood, MD, PhD 1; Geriatric Medicine, Dalhousie University and Nova Scotia Health Authority, NS, Canada 3; Sarasaw State Health Development, Ministry of Health, Malaysia 5; Family Medicine, Universiti Putra, Malaysia 4; National Health and Mental Health Research Council Centre of Research Excellence in Frailty and Healthy Ageing, (Australia)

P 155 • Frailty and Changes in Cognitive Function After Kidney Transplantation - Failure to Recover to Baseline Levels

Mada M. Chu, PhD MPH 1, 2, 3; Alden L. Gross, PhD, MHS 4, 5; Ashdon A. Shafer, BA 1, 2, 3; Christine E. Haugan MD 5, 6; Silas P. Norman, MD 7, 8; Qian-Li Xue, PhD 1, 2, 3, 4; A. Richey Sharrar, MD, DrPh 1, 2, 3, 4; Michelle Carlson, PhD 1, 2, 3, 4; Karen Banne-Broche, PhD 1, 2, 3, 4; Dony L. Sege, MD, PhD 1, 2, 3, 4; Mara A. McAdams-DeMarco, PhD 1, 2, 3, 4; Department of Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD 5, 6; Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD 7, 8; Department of Mental Health, Johns Hopkins School of Public Health, Baltimore, MD 9; Department of Internal Medicine, Division of Nephrology, University of Michigan School of Medicine, Ann Arbor, MI 10; Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore, MD 11; Department of Biostatistics, Johns Hopkins School of Public Health, Baltimore, MD (USA)

P 156 • Seniors' Community Hub (SCH): A model of care to support primary care providers in caring for older adults with frailty

Marian Abbas, Shenyy Kshar, Julián Dávila-Rovaleski 1. Department of Family Medicine, University of Alberta, Edmonton, AB, Canada; 2. Covenant Health, Misericordia Hospital, Edmonton, AB, Canada; 3. Edmonton Oliver PCN, Edmonton, AB, (Canada)

P 157 • Frailty profile of patients referred to a secondary care frailty Clinic by Family Medicine physicians

Karina Pfrimmer MD, Márcio Elio Colombo Filho 1, Paulo Fernandes Formighieri MD PhD, Anderson Marlieri Navarro PhD, Fernanda Pinheiro Amaral dos Santos Pessana PhD 1, Nereida Kilza da Costa Lima MD PhD 1, Julio Cesar Moriguti MD PhD 1, Eduardo Ferriolli MD PhD 1; Department of Medicine, Ribeirão Preto Medical School (Brazil)

P 158 • The Transition of frailty status and its Influencing Factors in community dwelling pre-dиabetic and diabetic older population: a prospective cohort study

Qianian Sun MD, Yanyu Chen MD, Shang Wang 1, PhD 1; The Center of Gerontology and Geriatrics, West China Hospital, Sichuan University (China)

P 159 • Frailty in Hospitalized Patients with Atrial Fibrillation

Shivan Priyadarsini, Resident physician, Avena Hospital and Medical Center Ramanakamar Anan, Research fellow, Avena Hospital and Medical Center Carmel Cartwright, Resident physician, Avena Hospital and Medical Center Miriam Zylbergati Lisigurski, MD, Avena Hospital and Medical Center (USA)

P 160 • Streamlining Frailty Assessment in Clinical Practice: The Fit-Frailty App

Courtney C. Kennedy*, MD 1, 2; Sherry Kshar 3, 4; Alejandro Echeverria 1, Julen Gomez 1, Maria Amasene 2; Cristina Alonso 3, Ariania Bengt, Miriam Urquiza 1; Department of Medicine, University of Groningen, University Medical Center Groningen, The Netherlands (UvG); Drs. M.H.L. Arts, University of Groningen, University Medical Center Groningen, The Netherlands Dr. H.C. Comijn, Free University Amsterdam (VUmc), (The Netherlands)

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P 172 • Prevalence of sarcopenia and its association with bone mineral density among healthy adult north Indian population: A community survey
Riniha Pal MD, Sanjay Kumar Bhadada MD, DM, Anil Bhasin MD, DM
Department of Endocrinology, Post Graduate Institute of Medical Education and Research, Chandigarh (India)

P 173 • Forecasting life expectancy in sarcopenic and non-sarcopenic community-dwelling older chileans
Lydia Lera PhD, Blanca Alabia MD, Barbara Angel PhD, Carlos Marquez MSC, Rodrigo Sague, Ximena Moreno PhD Public Health Nutrition Unit, Instituto of Nutrition and Food Technology (INTA), University of Chile, Santiago de Chile, (Chile)

P 174 • Relationship between the Changes over Time of Bone and Muscle Health in Children and Adults: A Systematic Review and Meta-Analysis
Locquet Médée 1,2 (Beaudart Charlotte 1, Durieux Nancy 1, Register Jean-Yves 1,2, Bryllou Oliver 1,2,3) World Health Organization Collaborating Center for Public Health Aspects of Musculoskeletal Health and Aging, Department of Public Health, Epidemiology and Health Economics, University of Liège, Liège, Belgium 1,2 Liège University, University of Liège, Liège, Belgium 1,2 Biochemistry Department, College of Science, King Saud University, Riyadh, Kingdom of Saudi Arabia 3 Department of Sports and Rehabilitation Sciences, University of Liège, Liège, (Belgium)

P 175 • Age-related change in appendicular skeletal muscle mass adjusted for height or arm span in middle-aged and elderly Japanese women: the Japanese Population-based Osteoporosis (JPOS) study
Kazuki Kaji, PT, MS 1, Jun Kitagawa, PhD2, Yuko Hoshina, PT3, Takahiro Takachi, PT, MS 1, Naonobu Takahira, MD, PhD4, Masayuki Iki, MD, PhD4, Junko Tamaki, MD, PhD5, Etsuko Kajita, PhD4, Yuho Sato, PhD4
1) JPOS Study Group 1Department of Rehabilitation, Kitasato Institute Hospital, Tokyo, Japan 2Graduate School of Medical Science, Kitasato University, Kanagawa, Japan 3Kamakura Rehabilitation St. Therese’s Hospital, Kanagawa, Japan 4Department of Public Health, KingInstitute of Medicine, Osaka, Japan 5Department of Hygiene and Public Health, Osaka Medical College, Osaka, Japan

P 176 • Prevalence of prodromal sarcopenia, sarcopenia-obsesity, osteoporosis and osteosarcopenia in early middle-age
D Wither PhD School of Occupational Therapy and Physiotherapy New Zealand DunedinKim Meredith-Jones, PhD University of Otago Department of Medicine, Dunedin, New Zealand Lara Vliesta, MS University of Otago Department of Medicine, Dunedin, (New Zealand)

P 177 • Influence of the new EWGSOP2 consensus on research with presarcopenic and sarcopenic elderly
Jolan Dupont MD, Lenore Dedeene, MSc, Katrien Koppo, PhD, Sabine Verschueren, PhD, Jos Tournay, MD, PhD4, Evelyen Gielin, MD, PhD4 1Gerontology & Geriatrics, Department of Chronic Diseases, Metabolism and Ageing (CRONETA), KU Leuven, Leuven, Belgium 2Exercise Physiology Research Group, Department of Movement Sciences, KU Leuven, Leuven, Belgium 3Research Group for Musculoskeletal Rehabilitation, KANAGAWA, Japan 4Department of Public Health, Kinki University Faculty of Medicine, Osaka, Japan

P 178 • Predicting the risk of low Bone Mineral Density at diagnosis and completion of treatment of childhood Acute Lymphoblastic Leukemia
Emma J. Vervaeren1, Annelies Hartman1, Mariël L. te Winkel1, Inge M. van der Suijs2, Robert de Jonge2, Hester A. de Groot-Kruisman2,1, Maarten H. Lequin2,3, Manry M. van den Heuvel-Eibrink2,4, Saskia M.F. Pijnp1 (1) Princess Maxima Center for Pediatric Oncology, Utrecht, The Netherlands 2Department of Pediatric Physiotherapy, Erasmus MC-Sophia Children’s Hospital, Rotterdam, The Netherlands 3Department of Clinical Chemistry, Amsterdam UMC, Amsterdam, The Netherlands 4Dutch Childhood Oncology Group, Rotterdam, The Netherlands

P 180 • The prognostic effect of sarcopenia in patients treated with gemicabine based chemotherapy for metastatic/unresectable pancreatic adenocarcinoma
A Shin Seoul St. Mary’s Hospital, The Catholic University of Korea 222 Banpo-daero, Seoo-gu, South Korea Seul In Ho Kim, Myung Ah Lee Division of Medical Oncology, Seoul St. Mary’s Hospital, The Catholic University of Korea (South Korea)

P 181 • Association of Sarcopenia and mid arm circumference in older adults
Ghosh Chand Debsann MBBS, Sunny Singh MD, Sumitabh Singh MD, Avinash Chakravorthy MD, Aparajit Bailav MD1 1Department of Geriatric Medicine, All India Institute of Medical Sciences, New Delhi (India)

P 182 • Applying the EWGSOP2: Effect of muscle strength definitions on sarcopenia prevalence and predictive validity
WS Lim 1,2,3 J Chee 4, JP Lim 1,2,3, L Tag N Hafizah 1,2, YY Ding,1,2 1Department of Geriatric Medicine, Tan Tock Seng Hospital, Singapore 2Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital, Singapore 3Department of General Medicine (Geriatric Medicine), Sengkang General Hospital, Singapore 4Department of Continuing and Community Care, Tan Tock Seng Hospital, (Singapore)

P 183 • Sleep disorders and their association with incident sarcopenia in community dwelling older Chileans
Myriam Gutierrez MSCC, Carlos Márquez MSC, Lydia Lera PhD, Patricio Peirano PhD, Blanca Alabia MD MPH 1,2 1Public Health Nutrition Unit, Institute of Nutrition and Food Technology (INTA), University of Chile, Santiago, Chile 2Sleep Laboratory, Institute of Nutrition and Food Technology (INTA), University of Chile, Santiago, Chile

P 184 • Sarcopenia, functional dependence and physical performance
Javier Davila MD, Daniel Gámez MD, Sara Yerewco MD, Ricardo Salinas MD, Mauricio Navas MD, Blanca Gonzalez MFC Montery (Mexico)

P 185 • Cut-off points of phase angle and its association with sarcopenia obesity in community-dwelling Mexican older adults
López-Terós MT1, Rosas-Carrasco O2,3 1Universidad Iberoamericana, México, City, City, México 2National Geriatric’s Institute, México, City, (México)

P 186 • Sarcopenia, Osteoporosis and Frailty - do Patients understand what we are talking about ?
Tim Krappe1, Student, Hochschule St.Gallen D.t.med. Ferdinand Krappe, Spitalzentrum Oberwallis, Brig (Schweitzard

P 187 • The correlation of muscle strength and penman angle assessed by ultrasound with sarcopenia in elderly chinese community dwellers
Yanlu Sheng, MD, PHD, Siping Zhu MS, Wei Lin MS, Shu Chen BS, Guoxian Ding MD, PHD1 1Division of Genetric Oncology, the First Affiliated Hospital of Nanjing Medical University, Nanjing, People’s Republic of China

P 188 • Sarcopenia in hip fracture. the neglected risk
Sergio Chávez MD, Héctor Aguado MD, PhD1, Carmen Cervera Diaz MD, Dr, Pilar M. Díez 2, Eva Villanueva2, Clarisa Simón-Pérez MD PhD2, Miguel A Martín-Ferrero MD PhD Prof1 (1) Orthopaedic Unit, orthopaedic and trauma surgery, Hospital Clinico Universitario Valladolid, Spain 2Orthopaedic Unit, geriatric service, Hospital Clinico Universitario Valladolid, Spain 3Medical school, Valladolid University, (Spain)

P 189 • Sarcopenia and fragility fractures. they are not all the same
Sergio Chávez MD, Héctor Aguado MD, PhD1, Carmen Cervera Diaz MD, Dr, Luísa Piedra Díaz1, Clarisa Simón-Pérez MD PhD2, Miguel A Martín-Ferrero MD PhD Prof1 (1) Orthopaedic Unit, orthopaedic and trauma surgery, Hospital Clinico Universitario Valladolid, Spain 2Orthopaedic Unit, geriatric service, Hospital Clinico Universitario Valladolid, Spain 3Medical school, Valladolid University, (Spain)

P 190 • Exercise and sarcopenia. Shedding light on its effects
Sergio Chávez MD, Héctor Aguado MD, PhD1, Carmen Cervera Diaz MD, Blanca Lorente Sara2, Paula Ruiz Mesa1, Clarisa Simón-Pérez MD PhD1,2, Miguel A Martín-Ferrero MD PhD Prof1 (1) Orthopaedic Unit, orthopaedic and trauma surgery, Hospital Clinico Universitario Valladolid, Spain 2Orthopaedic Unit, geriatric service, Hospital Clinico Universitario Valladolid, Spain 3Medical school, Valladolid University, (Spain)

P 191 • Impaired sensitivity to thyroid hormones is associated with sarcopenia in Chinese subjects
Yanlu Sheng, MD, PHD, Shu Chen BS, Yu Duan MD, PHD, Guoxian Ding MD, PHD1 1Division of Genetric Oncology, the First Affiliated Hospital of Nanjing Medical University, Nanjing, People’s Republic of China

P 192 • Serum myostatin modifications in hip fractured patients: a sub-group analysis of a 2 months multidisciplinary rehabilitation and nutritional randomized study
Marco Invernizzi MD, PhD1,2, Alessandro de Sere MD1,2, Lippi Lorenzo MD, Filippo Renò PhD1,2, Sergio Riso MD, Carlo Cisari MD1,2 (1) Physical and Rehaibilitative Medicine, Department of Health Sciences, University of Eastern Piedmont, Novara, Italy 2Rehabilitation Unit, “Mons. L. Novarese” Hospital, Moncavallo, Italy 3Innovative Research Laboratory for Wound Healing, Department of Health Sciences, University of Eastern Piedmont, Novara, Italy 4Clinical Nutrition Unit, AOU “Maggiore della Carità” Novara, (Italy)

P 193 • Effect of sarcopenia definition on diagnosis of osteosarcopenia and its clinical implications on falls, function and balance in older people
Walter Sepúlveda-Loyo,1,2 (1,2), Steven Phu 3,3, Romy González1,2,3,4, Ebrahim Bani Hassan 2,3,5, Vanessa Prabst 3,5, Gustavo Duque 1,2,3,4 Program of Master and Doctoral degree in Rehabilitation Sciences, Londrina State University (UEL) and University North of Parana (UNOPAR), Londrina, Brazil 2Department of Medicine - Western Health, Melbourne Medical School, The University of Melbourne, St Albans, Victoria, Australia 3Australian Institute for Musculoskeletal Science (AIMS), The University of Melbourne and Western Health, St Albans, Victoria, Australia 4HeinrichZolzen Münche - German Research Center for Environmental Health (GmbH), Institute of Epidemiology, Neuherberg, (Germany)

P 194 • A meta-analysis on the health risk of low lean mass in older adults
Dottington Fullwood EdD, University of Florida, Gainesville, FL, USA Erta Centeno - University of Florida, Gainesville, FL, USA Todd Manini, PHD - University of Florida, Gainesville, FL (USA)

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P 197 • The Effect of BPA on Bone Mineral Density(BMD) in Rats
Huynh Tien Kang M.D., Daein Nam M.D., Dong Hyo Kang M.D. Department of Orthopedic Surgery, Wonkwang University Hospital, Iksan, (Korea)

P 198 • The Relationship between the FRAX®-Brazil and NOGG 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 Vidal Heliouan MD, MSC, Gabriela Keller, MD, Luao Pedro Santos Rocha, Eison Rodrigues Garcia Filho, Isadora Zaniboni, Maria Eduarda Scherer Costi, MD/Mariana Felisberto, MD/Geriatric Medicine, Department School, UNESC Universidade do Extremo Sul Catarinense, Criciua, SC,Brazil (1)Medicine’s Student, Medicine School, UNESC Universidade do Extremo Sul Catarinense, Criciua, SC, Brazil (2) Medicine School, UNESC Universidade do Extremo Sul Catarinense, Criciua, 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 (3), Paula Americano do Brasil (1), Vinicius Carolino Souza (1), Ricardo Morena Lima (1), Aparecido Pimentel Ferreira (1), Otavio Toledo Nobrega (1). 1 Interdisciplinary Center for Research, Integrated Colleges Promove Brascil, Brasil, Brazil; 2 Graduation Program in Sciences, Medical Faculty, University of Brasilia (UnB), Brasilia, Brazil; 3 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
Bio-Kung Soe, MD, PhD 1, Young Tae Eo, Kuki Ishida, Maja Ours, Masahiro Akita 2 Department of Geriatric Medicine, Graduate School of Medicine 1 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 adults
Sabrine Nayara Costa 1, Edgar Ramos Viera 1, Ryelen Nicole Santos de Abreu Garcia 1, Paulo Cesar Baracca Bend 1, 1 Graduate Program in Physical Education, Federal University of Parana, Curitiba, PR, Brazil; 2 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 long term care facilities
Larisa Bastos Tavares 1, Idaliana Fagundes de Souza 1, Candice Simões Pimenta de Medeiros 1, Kim Mansur Yano 1, Fabrícia Azvedo da Costa Cavalcanti 1, Edgar Ramos Viera 1. 1 Department of Physical Therapy, Federal University of Rio Grande do Norte, Natal, RN, Brazil; 2 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
Leonee Derwey 1, Jorgen Wollerot 1, Johan Dupont 1, Jes Tournel 1, Eelien Gielien 1, Sabine Verschueren 1, Geriatrics & Geriatrics, Department of Chronic Diseases, Metabolism and Ageing (CHROMETA), KU Leuven, Leuven, Belgium 1 Research Group for Musculoskeletal Rehabilitation, Department of Movement Sciences, KU Leuven, Leuven, Belgium 2 Department of Geriatric Medicine, UZ Leuven, Leuven, Belgium 3 Department 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 Echevarria Calderón, MD. Luis Alberto Pragauta Ardiá, MD. Resident of 3th year Medicine of Physical Activity and Sports, Fundación Universitaria de Ciencias de la Salud, Hospital de San José Bogotá. 1Medicine of Physical Activity and Sports. Assistant Instructor - Department of Physical Activity and Sports. Director of Physical Education and Sports. 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, LKY. School of Nursing, The Hong Kong Polytechnic University, Kowloon, Hong Kong. Rick Yiu 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, Hong Kong Polytechnic University, Hong Kong, Judy SiU, Department of Applied Social Sciences, The Hong Kong Polytechnic University

P 206 • How is the physical performance according to frailty groups in older Veterans?
Raquel Aparicio-Uapana, PhD 1, Marianne Turner, MD 2, Michael J. Mintzer, MD 1 1 Hermes Flores, MD, PhD 1, 2, Jorge G. Ruiz, MD 4 4 Department of Public Health Sciences, Miller School of Medicine, University of Miami, Miami, FL 33136, USA. 4 Geriatrics Research, Education, and Clinical Center (GRECC), VA Miami Veterans Affairs Healthcare System, Miami, FL, USA. 5 PIU Herbert Werthem College of Medicine, Miami, FL, USA. 6 Department of Medicine, Miller School of Medicine, University of Miami, Miami, FL 33136, 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-Larad, PhD 1, Haritz Arrrieta MSC 1, Jon Irazusta PhD 1, Susana Maria Gil PhD 1, Jose Javier Yanguas PhD 1, Ander Espar BC 1, Mailid Cortajarena PhD 1, Inmaculada Lora BC 1, Chloé Reza-Pardo MSc 1, 1 Department of Physiology University of the Basque Country Leioa, Bizkaia, Spain; 2 Fundación Bancaria La Caixa, Programa de Mayores. Palma (Illes Balears), Spain 3 Department of Nursing II, University of the Basque Country, Donostia-San Sebastian, Gipuzkoa, Spain 4 DomusVi, Donostia-San Sebastian, Gipuzkoa, (Spain)

P 208 • Effects of Music-based Multitask Exercise (Jaques-Dalcroze Eurythymics) versus Multicomponent Exercise on Physical Function, Falls and Brain Plasticity in Older Adults: A Randomized Controlled Trial
Melvyn Har, PhD 1, Natalia Fernandez, PhD, François Herrmann, MD, René Rizzoli, MD, Gabriel Gold, MD, Patrick Vuilleumier, MD, Andrea Trombetti, MD 1 Division of Bone Diseases, Department of Internal Medicine Specialties, Geneva University Hospitals and Faculty of Medicine, Geneva, Switzerland 2 Laboratory for Behavioural Neurology and Imaging of Cognition, Campus Biotech, University of Geneva, Geneva, Switzerland 3 Division of Geriatrics, Department of Internal Medicine, Rehabilitation and Geriatrics, Geneva University Hospitals and Faculty of Medicine, Thonex, Switzerland

P 209 • Accuracy of total and exercise steps on a pedometer compared to a smartphone application
Christopher Wu, MD, Ksana Thompson, Rafay Latif, MD, Fortune Oka, MD, Abida Oka, MD, Donald P. Korda, MD Jaobi 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 Nozor PhD 1, 2, Sami Berhawi 1, 2, Anthony D. Xarelis PhD 1, 2, Mylene Aubertin-Leheudre PhD 1, Jean-Frederic Brun MD PhD 1, 2 3 UFR STAPS - IRMES, EA7329, Université Paris Descartes, Paris, France 1 Département des sciences de l’activité physique, UQAM, Montréal, Canada 2 CHU, Université de Montréal, 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 Kitade 1, Akio Inoue 1, Hiroki Umegaki 2, Joji Onishi 2, Hiroshi Akima 3, Koji Ishida 1, Masahiro Kuzyuu 1 1 Institute of Innovation for Future Society, Nagoya University, Nagoya, Japan 2 Department of Community Healthcare & Geriatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan 3 Research 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
Fortes R. PhD, 1 De Vita G. MD, PhD 2 1 Department of Human Movement and Sports Science, University of Rome Foro Italico, Rome, Italy; 2 School of Public Health, Physical Activity 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
Joan Fábés, MD Surgery Specialist Hospital and Emergency Room (HPS). Myrian Alcubes Fàber. PhD, Universidad de Edoardo de Amazonas (PEM/PEM - Laboratory of Research and Studies in Human Morbidity Sarma da Silva Felito, Msc; Universidad de Edoardo de Amazonas; EPM - Laboratory of Research and Studies in Human Morbidity José David & Silva Gomes, Physical Education professional, PEM/PEM - Laboratory of Research and Studies in Human Morbidity Roldó Figueirido Pinheiro, MSc, Universidad de Edoardo de Amazonas

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**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, Kwangsao Kim Ji Yeon Lee, Jae-Yeon Yang, Jung Hye 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**

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Tamer Ahmed, 1 Presenting Simon French, 2 Emmanuelle Belanger, 3 Ricardo Guerra, 4 Maria Victoria Zunzunegui, 5 Mohamed Auias, 5(1) Queens University, Kingston, ON, Canada 5(2) Macquarie University, Sydney, Australia 5 Brown University, Providence, USA 5(4) Universidade Federal do Rio Grande do Norte, Natal, Brazil 5(5) University of Montreal, Montreal, QC, (Canada)