08:30/9:00  WELCOME  
Marco PAHOR (Gainesville, USA), Bruno VELLAS (Toulouse, France), Jorge RUIZ (Miami, USA), Matteo CESARI (Milano, Italy), Roger FIELDING (Boston, USA)

09:00/9:20  KEYNOTE 1  
DO-HEALTH TRIAL  
Chairman: Bruno Vellas, Toulouse (France)  
Heike Bishoff Ferrari, Zurich University, (Switzerland)

09:20/10:05  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, PhD1, Nicole Noren Hooten PhD1, Nicole Mode MS1, Yongqing Zhang PhD1, Ngozi Ejiofor MD1, Kevin Becker PhD1, Alan B. Zonderman PhD1, and Michele K. Evans PhD1. 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. Singh1, P. A. Andreux1, W. Blanco-Bose1, P. Aebischer2, J. Auwerxc3, C. Rinsch1. 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 – POSTERS

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. Stock1, Jacob A. Motar1, Dennis P. Kwon1, Mary Kennedy1, Eric J. Sobolewski1, Youngdoo Kim1, Joaquin Gonzales4. 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 FRAILITY ASSOCIATED WITH WORSE OUTCOMES AFTER TOTAL JOINT REPLACEMENTS?  
Lisa A. Mandl1, MD, MPH1,2; Charles N. Cornell, MD1,2; Michael B. Cross, MD1,2; Alejandro Gonzalez Della Valle, MD1,2; Mark P. Figge1, MD1,2; Seth A. Jerabek1, MD1,2; Justin T. Do1, BSE1; Mayu Sasaki, MPH1; Nathaniel Hupert1, MD, MPH1,2; Jackie Finik1, MPH1,2; Steven K. Magid, MD1,2; 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. Nicolosi, PhD, MD(H)1 and Paul Breeding, DC. 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 Grande1; Deborra Rizzuto1; Davide L Vettrano1,2; Anna Marseglia1; Nicola Vanacore1; Erika Lakka1, Anna-Karin Welmer1; Laura Fratiglioni1,4. 1) Aging Research Center, Department of Neurobiology, Care Sciences and Society, Karolinska Institute 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, MSc¹, Holly Syddall, PhD¹, Elaine Dennison, PhD¹, Jane Cauley, DrPH, Tamara Harris, MD, MS¹, Eric Shiroma, Jr, ScD, MEd¹, Bret Goodpaster, PhD¹, Anne Newman, MD, MPH², Cyrus Cooper, FMedSci¹ ¹MRC Lifecourse Epidemiology Unit, University of Southampton, Southampton, UK ² Department of Epidemiology, University of Pittsburgh, Pittsburgh, Pennsylvania, USA ³ Division of Preventive Medicine, Department of Medicine, Brigham and Women’s Hospital, Harvard Medical School, Boston, Massachusetts, USA ⁴ ¹Translational 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 Cameron¹, Lehana Thabane², Areti-Angeliki Veroniki,⁶,⁷, Jonathan D. Adachi³, Julie Richardson², Maria Petropoulou, Saad Akoad, Papaiannou¹,² ¹Geriatric Education and Research for the Aging Sciences (GERAS), St Peter’s Hospital, Hamilton ON, Canada ²School of Rehabilitation Sciences, McMaster University, Hamilton ON, Canada ³Department of Medicine, McMaster University, Hamilton ON, Canada ⁴John Walsh Centre for Rehabilitation Research | Sydney Medical School Northern, University of Sydney, Kolling Institute | Royal North Shore Hospital | St Leonards, NSW, Australia ⁵Department of Health Research Methods, Evidence, and Impact, McMaster University, Hamilton ON, Canada ⁶Department of Primary Education, School of Education, University of Ioannina, Ioannina, Greece ⁷Li 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)

2:35/2:55  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  COFFEE BREAK – POSTERS

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)
**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*, 1 Kanglu Yu MD,2 Chirayu Pandya PhD,2 Carlos M. Isales MD,2 Meghan E. McGee-Lawrence PhD1, Maribeth Johnson1, Sadanand Fulzele PhD,2 Mark W. Hamrick PhD1 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 Bozkova PhD 1 *Joshua J Barzilay* MD,2 Howard A Fink MD, MPH1 John A Robbins MD, MPH1 Jane A Cauley DrPH1 Joachim H IX MD 1

Kenneth J Mukamel MD, MPH1,2 1 Division 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 1, Geriatric Research Education and Clinical Center VA Health Care System, Minneapolis, MN 1, Department of Medicine, University of California at Davis, Modesto, CA 1, Department of Epidemiology, Graduate School, School of Public Health, University of Pittsburgh, Pittsburgh, PA, 6 Division of Nephrology, University of California at San Diego, San Diego, CA 1, Department of Medicine, Beth Israel Deaconess Medical Center, Brookline, MA (USA)

**ORAL COMMUNICATION 7**

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

*AGross*, Michelle C. Carlsori,1 Mara A. McAdams-DeMarco1, Dan Munags,2 Eleanor Simonsick4567, Ravi Varadharaj,1 Qian-Li Xue147, Jeremy Walston2, Karen Bandeen-Roche1 1 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)

**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, ScM1, Larry Yao, MD1, Karla V. Ballman, PhD2, Patrick Korteben, MD1, Robert J. Canter, MD1, Leon Lenchik, MD1, Robert D. Boutin MD PhD1 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 (4) Deptt 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 Maia da Cruz Alves MSc1, Carolyn Anne Greig PhD2 Karina Pfrimer PhD1 Priscila Carvalho MSc1 Ellen Christine de Freitas PhD1, Thiago Neves MSc1, Juliana Cristina Lemos dos Santos Marchesi PhD1, Daniela Daupbel Campanari MSc1, Olga Laura Sena Almeira MD1, Eduardo Ferriolli MD PhD1 1 School of Sport, Exercise and Rehabilitation Sciences and MRC Arthritis Research UK Centre for Musculoskeletal Ageing Research, University of Birmingham, Birmingham, UK 2 Sao Paulo State University (Unesp), Araquara, 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 Dilda*, Mathilde Latil1, Maria Serova1, Blaise Didy-Barca1, Sissi On1, Stanislas Veillet1, René Lafont1 1 Biophytis, Sorbonne Université, Paris, France 2 Sorbonne Université, UPMC Univ Paris, Paris-Seine Biology Institute (BIOSIPE), CNRS, Paris, (France)

**SYMPOSIUM 4**

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

*Jay Magaziner* on behalf 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: 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)

9:00/9:15 PRESENTATION OF THE ICFSR LIFETIME ACHIEVEMENT AWARD
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 – POSTERS

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, CSCS1, TSAC-F, Kyle Hackney, PhD, CSCS1, and Sherryl Bastacky PhD, RD, CSSD, LRD1. 1Department of Health, Nutrition, and Exercise Sciences, North Dakota State University, Fargo, ND, (USA)

11:40/11:55 CONFERENCE 8
DEVELOPMENTS IN THE PATHOPHYSIOLOGIC BASIS OF FRAILTY IN TYPE 2 DIABETES AND EMERGING ROLES OF APFELIN IN FUTURE CLINICAL TRIALS
Cedric Drey, INSERM (France) - Alan Sinclair, London (UK)

11:55/12:05 ORAL COMMUNICATION 11
SURMOUNTING THE AGED NICHE TO IMPROVE SKELETAL MUSCLE REGENERATION
Adelaida P. Palla1*, Andrew T.V. Ho1*, 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 Bouthy-Regard, PhD1, Laurent Mosoni, PhD1, Lydie Combaret, PhD2, Christiane Deval2, Lenaick Dupuis, MSc1 Eugenia Migliavacca, PhD2, Gabriele Civiletto, PhD 2, Jerome N. Feige, PhD3, Dominique Dardevet, PhD 2, Denis Breuil, PhD1 1Nestle Research, Vers-chex-les-Blanc, Lausanne 26, Switzerland; 2Universite Clermont Auvergne, INRA, UNH, CRNH Auvergne, Clermont-Ferrand, France; 3Nestle 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


- Division of Plastic Surgery, Brigham and Women’s Hospital, Boston
- Department of Orthopedic Surgery, Brigham and Women’s Hospital
- Division of Endocrinology, Brigham and Women’s Hospital

*Bruce Li* MD

- Harvard Stem Cell Institute, Cambridge (USA)

12:35/12:45
**ORAL COMMUNICATION 15**
DYNAMENIA IS ASSOCIATED WITH EXECUTIVE DYSFUNCTION. RESULTS FROM THE GAIT AND BRAIN STUDY

*Montero-Olasso* MD PhD AGSF FRCP FRCP, *Sakurai* PhD, *Wray* MSc, *Pieruccini-Faria* PhD, *Speechley* PhD

- Department of Medicine, Division of Geriatric Medicine, Schulich School of Medicine & Dentistry, University of Western Ontario, London, ON, Canada
- Gait and Brain Lab, Parkwood Institute, Lawson Health Research Institute, London, ON, Canada
- Tokyo Metropolitan Institute of Gerontology, Tokyo, Japan
- 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 Lafont* PhD, *Pierre Dildi* PhD, *Laurence Dinan* PhD, *Stanislas Veillet* PhD
  - Biophytis, Sorbonne Université, Paris, France
  - Sorbonne Université, UFR 927, IBPS-BIOSIPE, CNRS, Paris, (France)
- Designing a clinical program for BIO101, a Mas receptor activator to target Age-related sarcopenia
  - Biophytis, Sorbonne Universités, UPMC BC9, Paris, France
  - Sorbonne Universités, UPMC Universités, CNRS - Institut de Biologie Paris Seine (BIOSIPE), Paris, France
  - 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* PhD, 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
**COFFEE BREAK – POSTERS**

3:25/3:55
**PANEL DISCUSSION**
PANEL DISCUSSION ON DEFINITION FOR SARCOPENIA

Presentation: *Alfonso Cruz Jentoft*, Madrid (Spain)


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*, *Roger Fielding*

- Welcome and introduction: *Jean-Yves Reginster*
- Osteosarcopenic obesity: Facts and evidence supporting a distinct entity: *Jurgen Bauer*
- Osteosarcopenic obesity: Lack of evidence supporting a distinct entity: *Alfonso Cruz Jentoft*
- Discussion (Leader: *René Rizzoli*): *Islene Araujo de Carvalho*, *Jurgen Bauer*, *Olivier Bruyère*, *Cyrus Cooper*, *Alfonso Cruz Jentoft*, *Roger Fielding*, *Jean-Marc Kaufman*, *Médéa Locquet*, *Jean-Yves Reginster*
- Conclusion: *Cyrus Cooper*
ICFSR NETWORKING RECEPTION IN THE GARDEN OF EDEN ROC (PRE-REGISTERED ATTENDEES ONLY)
BREAKFAST 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 - Co-Founder & Chief Science Office, Longeveron LLC

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 McGrath, PhD, Soham Al Snih, MD, PhD, Kyriakos Markides, PhD, Kyle Hackney, PhD, Ryan Bailey, PhD, OTR/L, Mark Peterson, PhD, MS
North Dakota State University, Fargo, ND, USA (1) University of Texas Medical Branch, Galveston, TX, USA (1) Washington University in St. Louis, St. Louis, USA (1) University of Michigan, Ann Arbor, MI, (1)

ORAL COMMUNICATION 25
MULTICENTER COHORT STUDY OF FRAILTY AND ACCESS TO KIDNEY TRANSPLANTATION
Christine E. Haugen MD (1), Nadia M. Chu PhD MPH (1,2), Hao Ying MHS (1), Fatima Warsame BA (1), Courtnay M. Holscher MD (1), Niraj M. Desai MD (1), Miranda R. Jones PhD (2), Silas R. Norman MD (2), Daniel C. Brennan MD (2), Jacqueline Garonzik-Wang MD PhD (1), Jeremy D. Walston MD (1), Adam W. Bingaman MD (1,2), Dorny L. Segev MD PhD (1,2), Mara McAdams-DeMarco PhD (1,2), Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD, (2) Department of Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD, (2) Department of Medicine, Division of Nephrology, University of Michigan, Ann Arbor, MI, (2) Department of Medicine, Division of Nephrology, Johns Hopkins University School of Medicine, Baltimore, MD, (2) Department of Medicine, Division of Geriatrics, Johns Hopkins University School of Medicine, Baltimore, MD, (2) Department of Surgery, Methodist Specialty and Transplant Hospital, San Antonio, TX, (USA)

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 Weiying 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 (USA)

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)

CONFERENCE 9 Moderators: Leocadio Rodríguez Mañas, Madrid (Spain), Shalender Bhasin, Boston, (USA)
DISTINGUISHING AMONG DYNAPENIA WITHOUT FRAILTY, FRAILTY WITHOUT DYNAPENIA, AND FRAILTY WITH DYNAPENIA: IS IT CLINICALLY RELEVANT?
Philo H. M. Chaves, MD, PhD, Qian-Li Xue, PhD, Leocadio Rodriguez Mañas, MD, PhD, Karen Bandeen Roche, PhD (1) Benjamin Leon Center for Geriatric Research and Education, Herbert Wertheim College of Medicine, Florida International University, Miami, FL, USA. (2) Center on Aging and Health, Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore, MD, USA. (2) Department of Geriatrics, Hospital Universitario de Getafe, Madrid, Spain. (1) Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, Baltimore, (USA)

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)

CONFERENCE 11 Moderators: Debra Waters, Dunedin, (New Zealand), Suzette Pereira, Columbus (USA)
ROLE OF MALNUTRITION IN THE DEVELOPMENT OF FRAILTY AND COST IMPLICATIONS IN DEVELOPING COMMUNITY-DWELLERS
Leocadio Rodriguez-Mañas MD, PhD - Geriatric Department Fundación de Investigación Biomédica, Hospital Universitario de Getafe, Getafe, Spain Suzette Pereira, PhD- Abbott Nutrition, Columbus, OH, (USA)

COFFEE BREAK – POSTERS

CONFERENCE 12 Moderators: Debra Waters, Dunedin, (New Zealand), Suzette Pereira, Columbus (USA)
ROLE OF MALNUTRITION IN THE DEVELOPMENT OF FRAILTY AND COST IMPLICATIONS IN DEVELOPING COMMUNITY-DWELLERS
Leocadio Rodríguez-Mañas MD, PhD - Geriatric Department Fundación de Investigación Biomédica, Hospital Universitario de Getafe, Getafe, Spain Suzette Pereira, PhD- Abbott Nutrition, Columbus, OH, (USA)
CONFERENCE 12
FRAILITY 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 INJURIOUS FALLS IN OLDER MEN AND WOMEN LIVING IN THE COMMUNITY
THE FIF SCREENING TOOL
Stina Ek, Debora Rizzuto, Amaia Calderon Larañaga, Erika Franzén, Wei Li, Anna-Karin Welmer, Aging Research Center (ARC), Department of Neurobiology, Care Sciences and Society, Karolinska Institutet and Stockholm University, Stockholm, Sweden; Division of Physiotherapy, Department of Neurobiology, Care Sciences and Society, Karolinska Institutet, Sweden; Allied Health Professionals, Function Area Occupational Therapy & Physiotherapy, Karolinska University Hospital, Stockholm, Sweden; 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-Verján, Mario Ulises Pérez-Zepeda, Luis Miguel Gutierrez-Robleda, 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, M, Kocherginsky, Ferguson, Schum, Waite, University of Chicago Medicine, Department of Medicine, Section of Geriatrics and Palliative Care Medicine, Chicago, IL; Northwestern University, Department of Preventive Medicine, Chicago, IL; University of Chicago Medicine, Department of Surgery, Section of Thoracic Surgery, University of Chicago Medicine, Department of Medicine, Section of General Internal Medicine, Chicago, IL; Dept of Public Health Sciences, Chicago, IL; 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, PhD, Suzette Pereira, PhD, T. Manini, PhD, A. Newman, MD, M.M. McDermott, MD, S. Anton, PhD, S.B. Kritchevsky, PhD, R. Tracy, PhD, W. Ambrosius, PhD, J. Lopez Pedrosa, PhD, L. Lovato, MS, A. Santos, PhD, M. Pahor, MD

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, Section on Gerontology and Geriatric Medicine, Department of Internal Medicine, Sticht Center for Healthy Aging and Alzheimer’s Prevention, Winston-Salem, NC, USA; Department of Pathology & Laboratory Medicine, Larner College of Medicine, University of Vermont, Burlington, VT, USA; Department of Aging and Geriatric Research, College of Medicine, University of Florida, Gainesville, FL, USA; Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, USA; Department of Medicine, General Internal Medicine and Geriatrics, Feinberg School of Medicine, Northwestern University, Chicago, IL, USA; Nutrition exercise physiology and sarcopenia laboratory, Jean Mayer USDA Human Nutrition Research Center on Aging Tufts University Boston USA; 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 LITE 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 Aïgaire New Mexico VA Health Care System, Albuquerque, New Mexico; University New Mexico School of Medicine, Division of Physical Therapy, Albuquerque, New Mexico; A. Burke Gurney University New Mexico School of Medicine, Division of Physical Therapy, Albuquerque, New Mexico; David R. Sincare Washington University School of Medicine Program in Physical Therapy, St. Louis, Missouri; Kenneth Fowler New Mexico VA Health Care System Albuquerque, New Mexico; Reina Amarmento Villareal 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 – POSTERS

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 Hiligsmann, Charlotte Beaudart
• Welcome and introduction: Jean-Yves Reginster
• Identification and prioritization of important outcomes for patients in sarcopenia: Charlotte Beaudart
• Results from the cross-European Discrete Choice Experiment: Mickaël Hiligsmann
• Discussion (Leader: Fanny Buckinx): Islene Araujo de Carvalho, Jurgen Bauer, Charlotte Beaudart, Olivier Bruyère, Cyrus Cooper, Alfonso Cruz-Jentoft, Mickaël Hiligsmann, Jean-Marc Kaufman, Jean-Yves Reginster, René Rizzoli.
• Conclusion: Olivier Bruyère
**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)

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**COFFEE BREAK – POSTERS**

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**ORAL COMMUNICATION 32**  
Moderators: Alfonso-Jose Cruz-Jentoft, Madrid (Spain), Catherine Jankowski, Aurora (USA)  
**BIOMARKERS OF SARCOPENIA IN VERY OLD PATIENTS WITH HIP FRACTURE**  
Alfonso-Jose Cruz-Jentoft MD, PhD, Carmen Sánchez-Castellano MD, PhD, Paloma Bermejo-Bescós PhD, Maria-Nieves Vaquero Pinto (1), Carmen Miret-Corchado (1), Sagrario Martín-Aragón PhD (1), Geriatrics Department, Hospital Universitario Ramón y Cajal, IRyCIS, Madrid, Spain.  
Facultad de Farmacia, Universidad Complutense de Madrid, (Spain)

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**ORAL COMMUNICATION 33**  
**SARCOPENIC OBESITY IN ASIAN POPULATIONS: INFLUENCE OF OBESITY DEFINITIONS ON PREVALENCE AND PHYSICAL PERFORMANCE**  
Ezra Qi-En Khor (1), Jun-Pei Lim, MBBS, MRCP (UK), MMed (Int Med) (2), Laura Tay, MBBS, MRCP (UK), MMed (Int Med), MCI (2), Audrey Yeo, BMSc (2), Suzanne Yew, BSN (2), Yew-Young Ding, MBBS, FAMS, FRCP (Edin), PhD (2), Wee-Shiong Lim, MBBS, MRCP (UK), MMed (Int Med), MHPed, AGSF, FAMS (2), Lee King Chian School of Medicine, Singapore.  
Department of Geriatric Medicine, Tan Tock Seng Hospital, Singapore.  
Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital, Singapore.  
Department of General Medicine (Geriatric Medicine), Sengkang Hospital, Singapore.

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**ORAL COMMUNICATION 34**  
**UREMIC MYOPATHY: DYNAPENIA, DIABETES-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.  
Center for Genetic Medicine Research, Children’s National Medical Center, Washington DC, USA.

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**ORAL COMMUNICATION 35**  
**MUSCLE MASS IS MAINTAINED AND BODY FAT REDUCED WITH EXERCISE IN OLDER PEOPLE AGING WITH HIV**  
Catherine M. Jankowski, PhD (1), Melissa P. Wilson, MS (2), Todd T. Brown, MD, PhD (2), Samantha McWhinney, ScD (2), Kristine M. Erlanson, MD (2)  
University of Colorado College of Nursing and Regis University, Denver, USA.

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**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 Jadczak (1,2), Renuka Viswanathan (1,2), Robert Bamard (1), Natalie Lascombe-Marsh (1,2)  
National Health and Medical Research Council Centre of Research Excellence Frailty and Healthy Ageing, University of Adelaide, South Australia, Australia.  
Adelaide Geriatrics Training and Research with Aged Care (G-TRAC) Centre, Discipline of Medicine, Adelaide Medical School, University of Adelaide, South Australia, Australia.  
Aged and Extended Care Services, The Queen Elizabeth Hospital, Central Adelaide Local Health Network, Adelaide, South Australia, Australia.

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**ORAL COMMUNICATION 37**  
**EFFECT OF GASTRIC ACID SUPPRESANTS 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 (1), Marco Pahor, MD (2), Todd Mannini, PhD (2), Joshua Brown, PharmD, PhD (2)  
Department of Pharmaceutical Outcomes & Policy, University of Florida College of Pharmacy. Institute on Aging, University of Florida College of Medicine.

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**ORAL COMMUNICATION 38**  
**SARCOPENIA IN OLDER ADULTS UNDERGOING TRANSCATHETER AORTIC VALVE REPLACEMENT**  
Afilalo Jewish General Hospital, McGill University Montreal Quebec (Canada) Samuel Mamane MD MSc MPH, Louis Mulle MD, Matthew Ades MD, Wayne Lok Ok Choo, Nicolo Piazza MD PhD, Giuseppe Martucci MD, José A Morais MD, Dae H Kim MD ScD, Amanda Trnkus MSc Jonathan Afilalo MD MSc, on behalf of the FRAILTY-AVR Investigators.

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END OF ICFSR
**POSTERS • Wednesday • February 21, 2019**

**P 68** • Functional reserve index determined through balance rehabilitation unit: follow-up of older adults with balance alteration

Maria A. Abarca Barredo MD, PhD1, Maria Victoria Figueroa Souza LDS, (1) Physician Chef, Geriatric Hospital Day, National Institute of Geriatrics, Santiago de Chile; (2) Physical therapist, Geriatric Hospital Day, National Institute of Geriatrics, Santiago de Chile. (Chile)

**P 69** • How young is your Muscle? Functional Assessment with Ageing

Susit Baranerje1, J. Loubna Irman1, A. Sofiane Boudlousd2, A. Ayanka.Kraugen1, Z. Y. Sarboune University, Paris, France. 2. CNRS, UMR 6256 Biological Adaptation and Ageing, Sarboune University, Paris, France. 3. Functional Exploration Unit of older patients, University Hospitals Pitié-Salpêtrière-Charles Foix. DHU HAST, Assistance Publique Hôpitaux de Paris (APHP), Paris, France. 4. Laboratoire Biomécanique et Biologienergie UMR 7338, Université de technologie de Compagne, Sarboune Université (France)

**P 70** • Accuracy of inertial sensors vs optical motion capture system for analysis of movement - preliminary results

Jansen Alves Estrada (1-2), Fernanda Gonçalves Cavalcante (1), Milhauer Bolivar Goi-Junior (1), Jorge Carneiro (1), Inaê Carolaíne Gadotti (1), Jaísson Agne Estúrula (2) & Edgar Ramos Víre (1) 1-Department of Physical Therapy, Florida International University, Miami, Florida, USA. 2-School of health, Amazonas State University, Manaus, Amazonas, (Brazil)

**P 71** • An innovative platform based on wearable sensor to quantify physical frailty phenotypes

He Zhou PhD, Rijan Najafi, PhD Interdisciplinary Consortium on Advanced Motion Performance (iCAMP), Michael E. DeBakey Department of Surgery, Baylor College of Medicine, Houston, TX, (USA.)

**P 72** • Prognostic value of a rapid sarcopenia measure in acutely ill older adults

Marion J. 1, Albert MD 1, Claudie Stoll MD, PhD 2; Kenneth E. Covinsky, MD MPH 3 MPh 2,4; Sil J Lee, MD 2,4, MAs 3,4; Wilson Jacob Filha, MD, PhD 1; Claudia K. Suenotta, MD, PhD 1,2. (1) Division of Geriatrics, University of Sao Paulo Medical School, Brazil. (2) Center for Clinical and Epidemiological Research, Hospital Universitaria, University of Sao Paulo, (Brazil)

**P 73** • Physical Function predicts Sarcopenia: Results from a Representative Population-Based Cross-sectional Study in Tonantins, Amazonas

Alex Lima1,2,3,4, Andrea Kleger,5,6, Mathias Klegernes5,6, Jansen Alves Estrada1,2,3, Blusa Gouveia 2,3, 4, 7, 8, Adison Marques 9,10, Fátima Baptista10,10 Centro Universitário do Norte – Uninorte; 2 Department of Physical Education and Sport, University of Madeira, Funchal, Portugal; 3 Madeira Interactive Technologies Institute, Funchal, Portugal; 4 Center for the Interdisciplinary Study of Gerontology and Vulnerability, University of Geneva, Geneva, Switzerland; 5 Department of Psychology, University of Geneva, Geneva, Switzerland; 6 Department of Physical Therapy, Florida International University, Miami, USA; 7 Health Administration Institute, Secretary of Health of the Autonomous Region of Madeira, Funchal, Portugal; 8 Escola Superior de Enfermagem São José de Clary, Funchal, Portugal; 9 Centro Interdisciplinar de Estudo da Performance Humana, Faculdade de Morfologia Humana, Universidade de Lisboa, Lisboa, Portugal; 10 Centro de Investigação em Saúde Pública, Escola Nacional de Saúde Pública, Universidade Nova de Lisboa, Lisboa, Portugal.

**CLINICAL TRIALS**

**P 74** • Exercise rehabilitation in older, sarcopenic and frail patients

Ellen Freiberger1, PD Dr. Monika Siegrist2, PhD, Wolfgang Kemmler3 Prof. PhD, Cornel Sieben4 Prof Dr. *1 Friedrich-Alexander University Erlangen Nuremberg, Institute for Biomedicine of Aging; 2 Institute for Medical Physics (FAU); 4 Hospital Bambergzwing Bruder Regensburg (Germany)

**P 75** • The FORCEx trial: Focus on Reducing Dose-Limiting Toxicities in Colon Cancer with Resistance Exercise (RT): Baseline Functional Status

Bette Caas1,2,3,3Kathryn H. Schmitz, 2Kathryn H. Schmitz, 2Kathryn H. Schmitz, 2Elizabeth M. Brighten, 3Justin C. Brown, 4Kristin L. Campbell, 1Adrienne Castillo, 1Elizabeth M. Cespedes Feliciano, 1Valerie S. Lee, 1Charles P. Quensenberry, 5Sara K. Quinnney, 1Barbara Sternfeld, 2Leneate M. Winkels, 3Jeffrey A. Meyerhardt 1Kaiser Permanente of Northern California, Oakland, CA; 2Penn State Cancer Institute, Penn State College of Medicine, Hershey, PA; 3Dana Farber Cancer Institute, Boston, MA; 4University of British Columbia, Vancouver, Canada; 5Indiana University School of Medicine, Indianapolis, IN (USA)

**P 76** • 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 Hsin Huang MD, MSc1,2,3,4 (presentert), Hirokiyo Urgejakil MD, PhD2, Tomoharu Kitada, PhD1, Akio Inoue, PhD1, Taeko Makina, PhD1, Takeshi Hayashi, PhD1, Hirokiyo Shimada, PhD5, Masafumi Kuwajima, MD, PhD1,2,1 (1) Institute of Innovation for Future Society, Nagoya University, Nagoya, Japan (2) Department of Community Healthcare and Geriatrics, Graduate School of Medicine, Nagoya University, Nagoya, Japan (3) Department of Family Medicine, E-Io Hospital, I-Shou University, Kaohsiung City, Taiwan (4) School of Medicine for International Students, I-Shou University, Kaohsiung City, Taiwan (5) Department of Preventive Gerontology, Center for Gerontology and Social Science, National Center for Geriatrics and Gerontology, Obu, (Japan)
PHYSICAL FRAILTY AND AGE-RELATED BODY COMPOSITION MODIFICATIONS

P 81 • Prevalence of sarcopenia among healthy ambulatory subjects: the sarcopenia begins from 45 years
Christophe de Jager 1, MD, Elena Voronska 1, MD, Carla Lamberti 1, MD, Sascha Krusiekamp 1, Patrick Cherin 2, MD, PhD 1 : Institut de médecine et physiologie de la longévité, 4 rue de Gaillema, 75116 Paris, France 2 : Service de Médecine Interne 2, Bâtiment J3EM, CHU Pitié-Salpêtrière, 47 bd de l'hôpital 75013 Paris, (France)

P 83 • Weight loss and incidence of disability among the oldest old: the fibra study longitudinal findings
L Correa Faculty of Applied Sciences - University of Campinas Rua Pedro Zaccaria, 1300 Brazil São Paulo S6Flavia C D Andrade: College of Applied Health Sciences – University of Illinois at Urbana-Champaign Flavia C D Andrade: College of Applied Health Sciences – University of Illinois at Urbana-Champaign

P 85 • Sarcopenia, obesity, and sarcopenic obesity prevalence and respective body composition in middle-aged women
Edgar Ramos Vieira (1,2). 1 - Departamento de Fisioterapia, Florida International University, Miami, FL, USA. 2 - Hospital University of Gothenburg, Gothenburg, Sweden. 3 - Laboratory of Physiotherapy, University of Gothenburg, Gothenburg, Sweden. 4 - Department of Health Sciences, University of Gothenburg, Gothenburg, Sweden. 5 - Department of Health Sciences, University of Gothenburg, Gothenburg, Sweden.

P 88 • The role of bioelectrical impedance analysis (BIA) in identification of sarcopenia. comparison among different classifications
Sara Tagliabue, PhD1, Fulvia Lauretanini, MD2, Mario Pedrazzoni, MD1, Giovanni Passeri, MD1, Marcello Maggio, MD, PhD1,2 (1) Dept. of Medicine and Surgery, University of Parma, Parma, Italy. (2) Frailty of Elderly Lab, Geriatric Clinic Unit, University-Hospital of Parma, Parma, (Italy)

P 89 • The assessment of pain in older frail sarcopenic and osteosarcopenic subjects
Longdussian Yuen (1,2). 1 - Taftaljem Sana (1). Adam Elia (1), Benedetti Chiara (1), Pesuna Michele (1), Lauretanini Fulvia (1,2). Maggio Marco (1,2). 1. Dept. of Medicine and Surgery, University of Parma, Parma, Italy. 2. Frailty and Multidisciplinary Lab, Geriatric Clinic Unit, University-Hospital of Parma, Parma, (Italy)

P 90 • High Lipid Accumulation Product and low estimated Cardio Glucose Disposal Rate indicate increased cardiac-metabolic risk and decreased insulin sensitivity in postmenopausal women with sarcopenic obesity
Eleonora Pauggercoli (1), Carla Lubrano (1), Luca Gnesi (2), Stefania Mariani (1), Mikiko Watanabe (1), Andrea Lenza (1). Lorenza Maria Donnini - Sapienza University, Rome, (Italy)

P 91 • Comparing SARC-F with SARC-Calf to screen sarcopenia in community living older adults
G Cesari. Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division Istanbul University Istanbul Medical Faculty istanbul, (Turkey)

P 92 • Performance of SARC-F in Regard to Sarcopenia Definitions, Muscle Mass and Functional Parameters
Gulistan Bahar (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division), Oylum Yilmaz (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division), Cihan Kilik (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division), Meryem Mene-Oren (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division), Mehmet Akif Karam (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division)

P 93 • Nutritional status, sarcopenia and frailty in nursing-home residents - Prevalence and relationships
G Fabio-Ingers Department of Neurobiology, Care science and Society, Karolinska Institutet, Stockholm, Sweden 1,2,3 Helena Grünstedt, Phys the, PhD4,5, Eva Fransen, Phys the, PhD1,2,3, Åke Seiger MD, MD1,7, Sofia Wålfors, Occup the, PhD1,6, Anders Wåll, MD1,2,7, Anne-Marie Bostrom RN, PhD1,3,8, Tommy Cedernol, MD, PhD (1) Department of Neurobiology, Care science and Society, Karolinska Institutet, Stockholm, Sweden, (2) Division of clinical genetics, (3) Stockholm Socialhem R&D unit, Stockholm, Sweden, (4) Karolinska University Hospital, Stockholm, Sweden, (5) Division of neurogenetics, (6) Division of nursing. Department of Public Health and Care Sciences, Division of Clinical Nutrition and Metabolism and Division of Genomics, Uppsala University, Uppsala (Sweden)

P 94 • The style of life in functional elderly of healthy participants in unii-am health projects and quality of life
M Fabio Universidad de the State of Amazonas. Brazil Mariaus. Jefferson Jeruva Silva - Universidade do Estado do Amazonas Clayton Cardoso das Santos - Universidade do Estado do Amazonas. José David e Silva Gomes - LFEMUniversity do estado do Amazonas Filial Sunny - Universidade de Lubo Eder Ribeiro José Antônio Cardoso (Brazil)

P 95 • Changes in muscle mass/ strength and function with age among community elderly in china 7A longitudinal Study with 4 years Follow-up
Wang Zhang (1), Xiaoyan Chen MD (2), Xu Lin MD (2), Dan Qing MD (2), Lisha Hou PhD (1), Hui Wang PhD (2), Shan Hui PhD (2), Li Cao PhD (1), Ning 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)

ANIMAL MODELS

P 96 • MBNL1-associated mitochondrial dysfunction and apoptosis in C2C12 myoblasts and mouse skeletal muscle
Shashidhar 3, Kazuma Kato, MD (1) , Toshiaki Iwashita, MD, PhD (2) (1) Laboratory of Physiology, School of Health Science, Toyohashi SOZO University, Toyohashi, Japan (2) Department of Physiology, Graduate School of Health Science, Toyohashi SOZO University, Toyohashi, Japan (3) Laboratory of Sports and Exercise Medicine, Graduate School of Human and Environmental Studies, Kyoto University, Kyoto, (Japan)
P 118 • The association between frailty and medication adherence among community-dwelling older patients with chronic diseases: medication beliefs acting as mediators
Xiaoqiong Qiu PhD1, Cuili Wang PhD1, Xiaoyun Tian MS2, Yuan Jin MS2, Huxuan Si MS2, Xinyi Liu MS2 1School of Nursing, Peking University, Beijing. 2School of Nursing, Shandong University, Jinan, (China)

P 119 • 30-Day Readmission Diagnoses in Older Adults Previously Admitted for a Diagnosis of Sepsis
Ali Al-Kahtani MS1, Angelina Avellada MS2, Gabriela Engrinath PG1, Bernardo Reyes MD1, Joseph Ouslander MD1 (1) Charles E. Schmidt College of Medicine at Florida Atlantic University, Boca Raton, FL (USA)

P 120 • Associations of 30 Day Readmissions Following Hip Fractures in Patients 75 and Older
Aly Farhi MSY2, Kolhan Sharian MS2, Efrogaram, Gabriella PhD, Reyes, Bernardo MD1; Ouslander, Joseph MD2 Florida Atlantic University, Schmidt College of Medicine, Boca Raton, FL (USA)

P 121 • Co-existence of Physical Frailty and Sarcopenia is Associated with Poorer Functional Fitness and Adverse Health Outcomes in Community-Dwelling Older Adults
Tai Ling1, MRCP1, Tai Ling MS2, Latish Aisyah BSc3, Mah Shi Min MS2, Abu Bakar Huda BSc1, Ng Yen Siew FRCP4 1. Department of Geriatric Medicine, Sengkang General Medicine, Singapore 2. Department of Physiotherapy, Sengkang General Hospital, Singapore 3. Office of Regional Health System. SingHealth 4. Department of Rehabilitation Medicine, Singapore General Hospital, Singapore

P 122 • Visual Impairment and Frailty: an important, yet understudied relationship
Barbara De Los Reyes1, Jun Ying Leel1, Jing Tian2, Vanshika Varadany1, Karen Bender-Beck2 (1) Department of Ophthalmology Johns Hopkins School of Medicine Wilmer Baltimore, (2) Department of Biostatistics Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (USA)

P 123 • Community nursing care approaches based on activities of community-dwelling senior couples living independently at home
Pingpin Zhang Saitama Prefectural University, (Japan)

P 124 • Frailty was predictive of death after discharge from the emergency service: a 6-month prospective study from a middle-income country
Gabriela Vano Arico de Almeida1, Carla Fernando de Vascorcelos Romanim, Tania Gomes Caldas1, Nada Tanem Antunes Yohistal1, Luis Bataglin1, Matheus Cesad2, Juan Abramajian1 (1) Group of Investigation on Immunobiology and Mental Health in Aging (GIMMA), Department of Internal Medicine, Faculty of Medicine of Jundiai 2. “Fondazione IRCCS Ca’ Granda - Ospedale Maggiore Policlinico”, University of Milan (Italy)

P 125 • Selective serotonin receptor inhibitor therapy was associated with frailty and falls in a clinic cohort of older adults from a middle-income country
Juan Abramajian1 (1), Sumakki Marri Lia (1), Alaisio Silva Santos de Siqueira1, Marina Maria Belle (1), Matheus Cesar2, Wilson Jacob-Flório (1) Geriatrics division, Faculty of Medicine, University of São Paulo (2) “Fondazione IRCCS Ca’ Granda - Ospedale Maggiore Policlinico”, University of Milan (Italy)

P 126 • Relationship between Cell Profiles and Frailty in Patients with Breast Cancer receiving Chemotherapy
Naisa Gomes PhD1, Mostafa Mohamed, MBBC, MSc2, Lillian Le Ma3, Allison Magnuson DO1, Ronald Maggiore MD1, Suprijadi Mohile MD4, MD5, Mary Oni2, RN2, Jerry Mitchell, MD2, MD3, Kelley Young, MD4, Michelle Janeiro3, PhD, MPH1 (1) University of Rochester Medical Center, Rochester, NY, USA 2- Daytime Clinical Oncology Program, Dayton, OH, USA 3- Columbus NCOBP, Columbus, OH, USA 4- Kansas City NCOBP Prairie Village, KS, USA

P 127 • Detecting the features of frailty criteria by comparing with the International Classification of Functioning, Disability and Health (ICF)
Naoki Tsumori MD1, Yuki Ohashi PhD2, RN2, Akio Ishiki MD1, PhD1, Akio Ozaki PhD, RN2, Mitsuyuki Nakao PhD2, Hiroshi Araki MD, PhD1, PhD1 (1) Department of Geriatrics and Gerontology, Institute of Development, Aging and Cancer Tohoku University. 2. Rakushawakai Rehabilitation Hospital 3. Department of Gerontological and Home Healthcare Nursing, Division of Health Sciences, Graduate School of Medicine, Tohoku University 4. Laboratory for Comparative Medical Research, School of Medicine, University of Tokyo (Japan)

P 128 • Association of low serum 25-hydroxyvitamin D levels with the frailty syndrome in elderly population at Colima, México
Farias-Moreno Karla Cerrano1, Carrasco-Pala Bariona Berta2, Trujillo-Hernández Benjamin3, Aguilar-Manzana Zarra Cecilia4, Pavlo-Palca-Alejandro2, Santillán-Luna Deyanira5, Rodríguez-Pedraza Karina6, Trujillo-Maegallán Maria2, Ramírez-Cóvarbayas Lizeth Estefanía2, Cervantes-Santa Cruz Petra Guillermina5 (1) Second year student of Master in Medical Sciences, Faculty of Medicine, Universidad de 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 130 • Appropriateness of new-oral anticoagulant dose adjustment in older adults
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P 131 • 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 Tsumori MD1, Yuki Ohashi PhD2, RN2, Akio Ishiki MD1, PhD1, Akio Ozaki PhD, RN2, Mitsuyuki Nakao PhD2, Hiroshi Araki MD, PhD1, PhD1 (1) Department of Geriatrics and Gerontology, Institute of Development, Aging and Cancer Tohoku University. 2. Rakushawakai Rehabilitation Hospital 3. Department of Gerontological and Home Healthcare Nursing, Division of Health Sciences, Graduate School of Medicine, Tohoku University 4. Laboratory for Comparative Medical Research, School of Medicine, University of Tokyo (Japan)

P 132 • Characteristics of lifestyle of the frailty prevention among community- dwelling elderly women of positive attitude toward health promotion activities
Manako Zenko (Saitama Prefectural University) Osamu Fujinaga (Fukuoka Health Science University), Koji Sugano(Shuntou Koto Geriatric Medical Center), Ryu Kudota (Saitama Prefectural University), Tyrko Kimurou (Saitama Prefectural University, Tokyo Metropolitan Komagome Hospital, (Japan))

P 133 • Community Based Dual Task Interventions to Reduce the Prevalence of Frailty: Findings from HAPPY Program
Brenda Amsa (Yong Loo Lin School of Medicine, National University of Singapore, Singapore) Matthew Chen (National University Hospital, Singapore) Suren SANDRASAGER (National University Hospital, Singapore)

P 134 • Diabetes in frail older adults: assessment of glycemic control and prescriptions
Anne-Sophie Mangal1, Cécile Mccambriéd, Amos Pagé1, Charline Libérel2, Sandrine Sourdeil1, Anne Ghisolfi1, Bruno Vellais1, Philippe Cestac1, 2 (1) Centre Hospitalier Universitaire de Toulouse, Toulouse, France; (2) Inserm UMR1072, Université de Toulouse III Paul Sabatier, Toulouse, (France)

P 135 • Prevalence of frailty in older adults with Rheumatoid Arthritis
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P 136 • Relationship between predictive risk factors for oropharyngeal dysphagia and dysphagia in cardiovascular disease
Tatiane Magalhães de Almeida-Debora Almara Livias Isabels Mota Maria Jose dos Santos Roberta G Silva Fausto Fervi Carlos Daniel Magnozzi Instituto di diagnostico de cardiologia constantino de souza (Brazil)

P 137 • Screening for sarcopenia: the evaluation of different case-finding strategies using SARC-F in combination with muscle strength and performance measures

P 139 • Frailty and its risk factors in Dutch adults which have had childhood cancer
Emma J van Waardenburg1, Danielle M. Coebber2, Annelenke M. van Hulst1, Marry M. van der Heuvel-Eibrink1, Annelies Hartman2, Sandia M.T. Pijnenburg1 (1) Princess Maxima Center for Pediatric Oncology, Utrecht, (2) Department of Oncology, Erasmus MC, Rotterdam, (The Netherlands)

P 140 • Impact of frailty on postoperative major outcome of orthopedic surgery in older Indian
SumitaBhab Singh MD1, Prasun Chatterjee MD1, Rishav Bansal MD1 Gevand Chand Devangan MBBS1, Aparajit Bhowmick MD1 1. Department of Geriatric Medicine, All India Institute of Medical Sciences, New Delhi, (India)

P 141 • Prevalence of frailty in elderly patients with Aortic Stenosis included in an Aortic Stenosis Program
Pablo F Solla MD1, Eva M López, MD1, Juan J Salinas, MD1, José Gutiérrez, MD1, PhD1 (1) Geriatric Department, Área de Gerencia Clínica de Geriatria, Hospital Monte Naranco, Oviedo, Asturias, (Spain)

P 142 • Frailty assessment and its impact on elderly patients with Aortic Stenosis
Pablo F Solla MD1, Eva M López, MD1, Juan J Salinas, MD1, José Gutiérrez, MD1, PhD1 (1) Geriatric Department, Área de Gerencia Clínica de Geriatria, Hospital Monte Naranco, Oviedo, Asturias, (Spain)
P 143 • Frailty profiles: an analysis of routinely collected hospital data
Louise Lafortune PhD1, Joyce Coker PhD1, Rhiannon Simpson, MD2, Roman Romero-Ortuna, MD3 (1) Cambridge Institute of Public Health, University of Cambridge, Cambridge, United Kingdom. (2) Cambridgeshire and Peterborough NHS Foundation Trust, Fulbourn Hospital, Cambridge, United Kingdom. (3) School of Medicine, Trinity College Dublin, Dublin, (UK)

P 144 • Frailty criteria are associated with circadian rest-activity rhythm disturbances in institutionalized older adults
Patrícia Vidal de Negreiros Nodrega (1), Rafaela Silva dos Santos (2), Alvaro Campes Cavalcanti Maciel (2), John Fontanille-Araujo (1), & Edmar Ramos Vale (3) (1) University Center of João Pessoa, João Pessoa, PB, Brazil 2. Graduate Program in Physical Therapy, Federal University of Rio Grande do Norte, Natal, RN, Brazil 3. Department of Physical Therapy, Florida International University, Miami, FL, (USA)

P 145 • Is Implicit Ageism Associated with Frailty in Older Veterans?
Douglas Salguero 1,2, Nadeem Mohammed 1,2, Juliana Ferri-Guerra 1,2, Raquel Aparicio 1,2, Zubair Rahaman 2, and Jorge G. Ruiz 2,3 (1) Department of Public Health Sciences, University of Miami Miller School of Medicine (2) Miami VAH S GRECC Veterans Successful Aging for Frail Elders (VSAFE) (3) Department of Medicine, University of Miami Miller School of Medicine

P 146 • Is Explicit Ageism Associated with Frailty in Older Veterans?
Juliana Ferri-Guerra 1, 2, Nadeem Mohammed 1,2, Douglas Salguero 1,2, Raquel Aparicio-Ugarriza 1,2, Zubair Rahaman 2, and Jorge G. Ruiz 2,3 (1) Department of Public Health Sciences, University of Miami Miller School of Medicine (2) Miami VAH S GRECC Veterans Successful Aging for Frail Elders (VSAFE) (3) Department of Medicine, University of Miami Miller School of Medicine

P 147 • The Association of Obstructive Sleep Apnea with Frailty in Older Veterans with Diabetes
Christopher Lewis 1, Valeria Baldivieso 1, Isaac Peña 1, Iris Romero 1, Raquel Aparicio-Ugarriza 2,3, and Jorge G. Ruiz 3,4. (1) Jackson Memorial Hospital, Miami, FL (2) Dept. of Public Health Sciences, U of Miami Miller School of Medicine (3) Miami VAH S GRECC (4) Dept. of Medicine, U of Miami Miller School of Medicine

P 148 • The Association of Depression with Frailty in Older Veterans with Diabetes
Yosvan Lam 1, Seyed A. Mirabbasi1, Astrid Pilgrim 1, Mercedes Rodriguez-Suarezo 2, Christopher Lewis 1, Raquel Aparicio-Ugarriza 3,4, and Jorge G. Ruiz 4,5. (1) Jackson Memorial Hospital, Miami, FL (2) Mental Health Service, Miami VA H ealthcare System (3) Dept. of Public Health Sciences, U of Miami Miller School of Medicine (4) Miami VAH S GRECC (5) Dept. of Medicine, U of Miami Miller School of Medicine

P 149 • The Association of Frailty with Hospitalizations and Mortality in Older Veterans with Diabetes
Nadeem Mohammed 1,2, Juliana Ferri-Guerra 1,2, Raquel Aparicio-Ugarriza 1,2, Douglas Salguero 1,2, Hermes Flores 1,2,3, and Jorge G. Ruiz 2,3. (1) Dept. of Public Health Sciences, U of Miami Miller School of Medicine (2) Miami VAH S GRECC (3) Dept. of Medicine, U of Miami Miller School of Medicine

P 150 • Is Frailty Associated with Tight Glycemic Control in Older Veterans with Diabetes?
Nadeem Mohammed 1,2, Ranee M. Myian 3, Aakash Shuk 1,2, Raquel Aparicio-Ugarriza 1,2, Pravallika Bharatula 1,2, Srinivasa Potluri 1,2, Hermes Flores 1,2,3, and Jorge G. Ruiz 2,4,5 (1) Dept. of Public Health Sciences, U of Miami Miller School of Medicine (2) Miami VAH S GRECC (3) Jackson Memorial Hospital, Miami, FL (4) Dept. of Medicine, U of Miami Miller School of Medicine
P 176 • Relationship between the Changes over Time of Bone and Muscle Health in Children and Adults: A Systematic Review and Meta-Analysis

P 177 • Age-related change in appendicular skeletal muscle mass adjusted for height or arm span in middle-aged and elderly Japanese women: the Japanese National Nutrition Survey-based Osteoporosis (JNNSO) study

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P 181 • Sleep disorders and their association with incident sarcopenia in community dwelling older Chilesans

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P 191 • Exercise and sarcopenia. Shedding light on its effects

P 192 • Impaired sensitivity to thyroid hormones is associated with sarcopenia in Chinese subjects

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P 195 • Predictive model for sarcopenia in older adults with chronic kidney disease, a study from Asian population

P 196 • A meta-analysis on the health risk of low lean mass in older adults

P 197 • Osteoporosis, sarcopenia and correlation between SARC-F and skeletal muscle mass by absorptionmetry with dual-energy X ray absorptiometry (DEXA) in Colombian population: pilot study

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P 199 • The Effect of BPA on Bone Mineral Density(BMD) in Rats

P 200 • OSTEOPOROSIS & FRILAY
**PHYSICAL EXERCISE**

P 201 • Effects of a short term exercise training protocol on the physical function of institutionalized frail older adults

Cristiane Batisti Ferreira (1), Glicianne Gontijo Avellar (2), Atilha Teles Dantas Maia (1), Paula Americano do Brasil (1), Vinicius Carolina Souza (2), Ricardo Moreno Lima (3), Aparecido Pimentel Ferreira (1), Olívio Toledo Nêgozna (2). 1. Interdisciplinary Center for Research, Integrated Colleges Promove Brasília, Brasilia, 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 202 • Low-intensity exercise suppresses myostatin pathway through androgen receptor in muscle cells

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P 203 • Effects of a center and a home + center-based exercise program in pre-frail older women

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P 204 • Effects of a conventional and a virtual-reality based exercise program in older adults: preliminary results

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P 205 • A new algorithm to monitor physical activity and compliance to a home-based exercise program in pre-arcopcenoger

Lenore Dewey1; Jergen Wulms2; Johan Dupont1; Jos Touroyn1,3; Ewelien Giel1,3; Sabine Verschuere2,1. 1. Gerontology & Geriatrics, Department of Chronic Diseases, Metabolism and Ageing (CHROMETA), KU Leuven, Leuven, Belgium. 2. Research Group for Musculoskeletal Rehabilitation, Department of Movement Sciences, KU Leuven, Leuven, Belgium. 3. Department of Geriatric Medicine, UZ Leuven, Leuven, Belgium

P 206 • 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

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**BIOLOGY**

P 215 • Transformation of mature osteoblasts into bone lining cells and RNA-seq based transcriptome profiling of mouse bone during mechanical unloading

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**STEM CELL**

P 216 • Effects of Mesenchymal Stem Cells Transplantation on Cognitive Deficits in Animal Models of Alzheimer’s Disease

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**FUNCTIONAL ASSESSMENT**

P 217 • Gender differences in trajectories of physical performance in older adults: Findings from the International Mobility in Aging Study

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