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

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

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

10:05/10:20  CONFERENCE 1  Moderators: Angelo Parini, Toulouse (France), Anurag Singh, Ecublens (Switzerland)
RACE DEPENDENT CHANGES TO GENE EXPRESSION IN FRAIL, MIDDLE AGED ADULTS
  - Calais S. Prince, PhD, Nicole Noren Hooten, PhD, Nicolle Mode, MS, Yongqing Zhang, PhD, Ngozi Ejiofor, MD, Kevin Becker, PhD, Alan B. Zonderman, PhD, and Michele K. Evans, PhD - Laboratory of Epidemiology and Population Sciences, National Institute on Aging, National Institutes of Health, Baltimore, MD, USA; 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, P.A. Andreux, W. Blanco-Bose, P. Aebischer, J. Auwerx, C. Rinsch, Amazentis SA, Switzerland 2 Brain Mind Institute, Ecole Polytechnique Federale de Lausanne, Switzerland; 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. Stock, Jacob A. Mosta, Dennis P. Kuroi, Mary Kennedy, Eric J. Sobolevski, Youngdeok Kint, Joaquín González, University of Central Florida, Orlando, FL; University of North Carolina at Chapel Hill, Chapel Hill, NC; Furman University, Greenville, SC; Texas Tech University, Lubbock, TX, (USA)

11:35/12:00  ORAL COMMUNICATION 1  MEMBRANE LIPID REPLACEMENT WITH ORAL NTFACTOR LIPIDS® TO RESTORE MITOCHONDRIAL FUNCTION, REDUCE FATIGUE, PAIN AND OTHER SYMPTOMS AND IMPROVE QOL INDICATORS IN AGED SUBJECTS
  - Garth L. Nicolson, PhD, MD(H) and Paul Breeding, DC – Dept. of Molecular Pathology, The Institute for Molecular Medicine, Huntington Beach, CA, USA; Blue Hole Wellness, San Antonio, TX, (USA)

12:00/12:10  ORAL COMMUNICATION 2  OLDER ADULTS WITH BOTH COGNITIVE AND PHYSICAL IMPAIRMENTS ARE AT HIGHEST RISK TO DEVELOP DEMENTIA: A 12-YEAR LONG POPULATION-BASED STUDY ORAL
  - Giulia Grande, Debra Rizzuto, Davide L. Vetrano, Anna Marseglia, Nicoletta Vanacore, Anna-Lucia Welmer, Laura Fratiglioni
  1 Aging Research Center, Department of Neurobiology, Care Sciences and Society Karolinska Institutet and Stockholm University, Stockholm, Sweden 2 Department of Geriatrics, Catholic University of Rome, Italy 3 National Centre of Epidemiology, National Institute of Health, Rome, Italy 4 Stockholm Gerontology Research Center, Stockholm, Sweden
12:10/12:20  **ORAL COMMUNICATION 3**  
**LONG TERM RATES OF CHANGE IN MUSCULOSKELETAL AGING: FINDINGS FROM THE HEALTH, AGING AND BODY COMPOSITION STUDY**  
Leo Westbury, MSc 1, Holly Syddall, PhD 1, Elaine Dennison, PhD 1, Jane Cauley, DrPH 1, Tamara Harris, MD, MS 1, Eric Shiroma, Jr, ScD, ME 1, Brett Goodpaster, PhD 1, Anne Newman, MD, MPH 1, Cyrus Cooper, FMedSci 2, 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 6.

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 1, 4, Lehana Thabane 1, 5, Areti-Angeliki Veroniki 6, 7, Jonathan D. Adachi 7, Julie Richardson 7, Maria Petropoulou 1, Saad Alsaad 1, 3, Papaioannou 1, 3. Geriatric Education and Research for the Aging Sciences (GERAS), St Peter’s Hospital, Hamilton ON, Canada 1; School of Rehabilitation Science, McMaster University, Hamilton ON, Canada 2; Department of Medicine, McMaster University, Hamilton ON, Canada 3; John Walsh Centre for Rehabilitation Research | Sydney Medical School Northern, University of Sydney, Kolling Institute | Royal North Shore Hospital | St Leonards, NSW, Australia 4; Department of Health Research Methods, Evidence, and Impact, McMaster University, Hamilton ON, Canada 5; Department of Primary Education, School of Education, University of Ioannina, Ioannina, Greece 6; 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) 7.

12:30/1:50  **LUNCH BREAK – POSTERS**

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  
  Yenisei Cruz-Alm eida, 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 ciberhes, 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)
ICFSR 2019 • Miami Beach • P4

4:40/4:50 ORAL COMMUNICATION 5 Moderators: Marco Pahor, Gainesville (USA), Pierre Dilda, Paris (France)
INHIBITION OF KYNURENE PRODUCTION PROTECTS SKELETAL MUSCLE FROM THE AGE-RELATED LOSS OF MASS AND STRENGTH.
Helen Kaiser 1, Kanglin Yu MD 1, Chiayu Pandya PhD 1, Carlos M. Isales MD 1, Meghan E. Mcgee-Lawrence PhD 1, Maribeth Johnson 1, Sadanand Fulzele PhD 1, Mark W. Hamrick PhD 1 1 Medical College of Georgia, Augusta University, Augusta, (USA)

4:50/5:00 ORAL COMMUNICATION 6
EARLY KIDNEY DYSFUNCTION IS ASSOCIATED WITH LONGITUDINAL DECLINE IN PHYSICAL PERFORMANCE IN THE ELDERLY
Petra Bozkova PhD 1, Joshua I Barzilay MD 2, Howard A Fink MD, MPH 1, John A Robbins MD, MPH 1, Jane A Cauley DrPH 1, Joel Hix MD 1, Kenneth J Mukamal MD, MPH 1 1 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 1 1 Department of Geriatric Research Education and Clinical Center, VA Health Care System, Minneapolis, MN 1 1 Department of Medicine, University of California at Davis, Modesto, CA 1 1 Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA 1 1 Division of Nephrology, University of California at San Diego, San Diego, CA 1 1 Department of Medicine, Beth Israel Deaconess Medical Center, Brookline, MA (USA)

5:00/5:10 ORAL COMMUNICATION 7
EVALUATING THE PHYSIOTYPE OF FRAILTY: VALIDATION OF A MEASURE OF PHYSIOLOGICAL MULTISYSTEM DYSREGULATION IN TWO DATASETS
A Gross Michelle C. Carlson 1, Mara A. McAdams-DeMarco 1, Dan Munag 2, Ravi Varadharajan 1, Qian-Li Xue 1 4, Jeremy Walston 1, Karen Bandeen-Roche 1 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 4 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)

5:10/5:20 ORAL COMMUNICATION 8
CT-DERIVED MUSCLE MASS AND MYOSTEATOSIS IN PATIENTS WITH SOFT-TISSUE SARCOMA: RESULTS FROM A PHASE-3 TRIAL AT 81 SITES IN 13 COUNTRIES
Praman Fuangfa, MD 1, Yao Lu, ScM 1, Lamy Yao, MD 1, Karla V. Ballman, PhD 1, Patrick Kortebein, MD 1, Robert J. Canter, MD 1, Leon Lenchik, MD 1 Robert D. Boutin MD 1 1 Department of Radiology, Physics, 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 Deptt of Radiology, Wake Forest School of Medicine, Winston-Salem, NC, (USA)

5:20/5:30 ORAL COMMUNICATION 9
EFFECT OF RESISTANCE EXERCISE TRAINING AND FISH OIL SUPPLEMENTATION ON THE ADAPTIVE RESPONSE OF MUSCLE IN SARCOPENIC OLDER WOMEN
Natalia Maia da Cruz Alves MSc 1, Carolyn Anne Greig PhD 1, Karina Pfrimer PhD 1, Priscila Carvalho MSc 1, Ellen Cristine de Freitas PhD 1, Thiago Neves MSc 1, Juliana Cristina Lemos dos Santos Marchesi PhD 1, Daniela Dalpuebel Campanaro MSc 1, Olga Laura Sena Almeida MD 1, Eduardo Ferriolli MD PhD 1 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)

5:30/5:40 ORAL COMMUNICATION 10
SARCONEOS (API BIO101) TARGETS MASS RECEPTOR WITHIN THE PROTECTIVE ARM OF THE RENIN ANGIOTENSIN SYSTEM AND PROVES EFFICACY IN VARIOUS MODELS OF MUSCLE WASTING
Pierre Dilda 1, Mathilde Latil 1, Maria Serova 1, Blaise Didry-Barca 1, Sissi On 1, Stanislas Veillet 1, René Lafont 1 Biophytis, Sorbonne Université, Paris, France 2 Sorbonne Université, UPMC Univ Paris, Paris-Seine Biology Institute (BIOSIPE), CNRS, Paris, (France)

5:40/6:20 SYMPOSIUM 4
A GLOBAL CALL TO ACTION TO IMPROVE CARE FOR OLDER ADULTS WITH FRAGILITY FRACRTURES
Jay Magaziner on behalf the Frailty 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

FINAL PROGRAM • WEDNESDAY • FEBRUARY 20, 2019
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
INTRISIC 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

11:00/11:10  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, CSCS, Christopher Kotarsky MS, CSCS¹, Nathan Dick MS, CSCS, TSAC-F¹, Kyle Hackney, PhD, CSCS¹, and Sherri Stastny 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 APELIN IN FUTURE CLINICAL TRIALS
Cedric Drey, INSERM (France) - Alan Sinclair, London (UK)

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

12:05/12:15  ORAL COMMUNICATION 12
DIETARY SUPPLEMENTATION WITH FISH OIL AND CURCUMIN IMPROVES GAIT SPEED AND MITOCHONDRIAL FUNCTION DURING AGING
Claire Boutry-Regard, PhD¹, Laurent Mosoni, PhD², Lydie Combaret, PhD², Christiane Deval²; Lenack Dupuis, MSc ¹Eugenia Migliavacca, PhD, Gabriele Civitetta, PhD², Jerome N. Feige, PhD², Dominique Dardevet, PhD², Denis Breuille, PhD¹ ¹Nestle Research, Vers-chez-les-Blanc, Lausanne 26, Switzerland;²Universite Clermont Auvergne, INRA, UNH, CRNH Auvergne, Clermont-Ferrand, France;¹ Nestle Research, EPFL Innovation Park, Lausanne, (Switzerland)

12:15/12:25  ORAL COMMUNICATION 13
PREDICTING ONSET, PREVALENCE AND MORTALITY IN MALE AND FEMALE MICE USING THE MOUSE FRAILTY PHENOTYPE
L Thompson, Dongmin Kwak, Boston University Cory Baumann, University of Minnesota (USA)
### Oral Communication 14

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

*Indranil Sinha* MD,1, Dharaniya Sakthivel MS,2, Kodir Udhe BS,3, Bin Li MD,4, Adriana Panayi MD,4, Ronald Neppl PhD,4, Shalender Bhasin MD,4, Amy Wagers PhD4 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, Boston; Harvard Stem Cell Institute, Cambridge (USA).

### Oral Communication 15

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

*Montero-Odasso* M MD PhD AGSF FRCP 1,2,3, Sakurai R PhD 4, B ray NW MSc 1,3,5, Pieruccini-Faria F PhD 1,3, Sarquis-Adamson Y PhD, Speechley M PhD 1 Departm ent of Medicine, Division of Geriatric Medicine, Schulich School of Medicine & Dentistry, University of Westem Ontario, London, ON, Canada;2 Departm ent of Epidemiology and Biostatistics, chulich School of Medicine & Dentistry, University of Westem Ontario, London,Canada;3 Gait and Brain Lab, Parkwood Institute, Lawson Health Research Institute, London, ON, Canada;4 Tokyo Metropolitan Institute of Gerontology, Tokyo, Japan; School of Kinesiology, Faculty of Health Sciences, University of Westem Ontario, London, ON, (Canada).

### 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*1,2, Pierre Dilda1, Laurence Dina1 and Stanislas VeilletT1 1 Biophytis, Sorbonne Université, Paris, France 2 Sorbonne Université, UFR 927, IBPS-BIOSIPE, CNRS, Paris, (France)

- **Designing a clinical program for BIO101, a Mas receptor activator to target Age-related sarcopenia**
  *Waly Dho1, Cendrine Tourette1 Carole Margalef1, René Lafont1 2, Philippe Dupont1, Pierre Dilda1, Stanislas Veillet1, Susanna Del Signore1, and Samuel Agus1 1 Biophytis, Sorbonne Universités, UPMC BC9, Paris, France 2 Sorbonne Universités, UPMC Univ Paris , CNRS - Institut de Biologie Paris Seine (BIOSIPE), Paris, France 1 Bluecompanion Ltd, London, (UK)

### 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)

### Keynote 5

**BIOMARKERS FOR SARCOPENIA** *Chairman: Matteo Cesari, Milano, (Italy)*

*Bill Evans*, Duke University, Durham, (USA)

### Coffee Break – Posters

### Panel Discussion

**Panel Discussion on 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)*

### 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, Mèdeà Locquet, Jean-Yves Reginster**
- **Conclusion: Cyrus Cooper**
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)

Oral Communication 17

Frailty among patients with acute myocardial infarction

Abdulla A. Damulji, Karen Bandeen-Roche, Daniel E. Forman, Gary Gerstenblith, Jin Huang, Mauro Moscucci, Jon R. Resar, Ravi Varadhan, Jeremy D. Walston, Jodi B Segal Johns Hopkins University Baltimore MD (USA)

Oral Communication 18

Change in metabolic and inflammatory biomarkers after a 24-week multimodal intervention designed to improve functional status in hypertensive older adults: a pilot randomized controlled trial

Liliana C. Baptista, PhD1,2, Byron C. Jaeger, PhD2, Stephen D. Anton, PhD2, Anthony A. Bavy, MD2, Eileen M. Handberg, PhD2, ARNP2, Anna K. Piazza-Gardner, PhD2, Sara A. Harper, PhD2, Lisa M. Roberts, PhD2, Bhunuprasad Sandesara, MD1, Christy S. Carter, PhD2, Thomas W. Buford, PhD2

1 Department of Medicine, Division of Gerontology, Geriatrics and Palliative Care, University of Alabama at Birmingham, Birmingham, AL, USA
2 Department of Biostatistics, University of Alabama at Birmingham, Birmingham, AL, USA
3 Department of Aging and Geriatric Research, College of Medicine, University of Florida, Gainesville, FL, USA
4 Department of Medicine, College of Medicine, University of Florida, Gainesville, FL, USA
5 Department of Medicine, College of Medicine, University of Florida, Gainesville, FL, USA
6 Department of Internal Medicine, University of Alabama, Birmingham, AL, USA
7 Department of Internal Medicine, University of Alabama, Birmingham, AL, USA
8 Department of Internal Medicine, University of Alabama, Birmingham, AL, USA

Oral Communication 19

Threshold definition for grip strength to identify relevant weakness in Swiss DO-HEALTH participants

Michael Gagesch, MD1,2, Lauren Abderhalden, PhD1,2, Reto W. Kressig, MD1,2, Bruno Vellas, MD1,2, René Rizzoli, MD5, Gregor Freystätter, MD1,2, Heike A. Bischoff-Ferrari, MD, DrPH1,2 for the DO-HEALTH investigators

Oral Communication 20

Association between nutrient intake, physical activity and sarcopenia-related gene-promotor DNA methylation

Lingxiao He MS1,2, Praval Khanal MS1,2, Christopher I Morse PhD1,2, Martine Thomis PhD1,2. Department of Movement Sciences, KU Leuven, Leuven, Belgium
1 Department of Exercise and Sport Science, Manchester Metropolitan University, Crewe, (UK)

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 Velzen1,2, Michelle A.C.M. Ode Keizer1, Mathieu Moncharmont3, Brigitte Riche3, Nadir Ammour3, Gianluca Zia4,5, Henkie Hermens2, Aurele N’Djia1 and Susanna Del Signore1. Roessingh Research and Development, Enschede, The Netherlands
2 University of Twente, Enschede, the Netherlands
3 Sanofi R&D, Paris, France
4 Caretek srl, Torino, Italy
5 BlueCompanion ltd, London, (UK)

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 Kerr, Jacqueline Panigel- Muscle Metabolism DPU, GSK Dawn Waterworth, Lea Sarov-Blat, Deepak Rajpal, Johannes Freudenberg - Target Sciences, GSK - Collegeville PA (USA)

Oral Communication 23

Effect of losartan and fish oil on secondary outcomes in the ENRGIJE pilot randomized clinical trial

Jane A. Cauley, PhD1, Stephen Anton, PhD1, Dan Beavers, PhD1, Roger Fielding, PhD1, Roger Fielding, PhD1, Stephen Kritchevsky, PhD1, Christiana Leeuwenburgh, PhD1, Kristina Lewis, MD, MPH, SM, Christine Liu, MD, MSc, Laura Lovato, MSc, Ching-ju (Jane) Lu, MPH, Todd Manini, PhD1, Mary McDermott, MD1, Mike Miller, PhD1, Anne Newman, MD, MPH1, Barbara Radziszewska, PhD, MPH1, Cindy L. Stowe, MPH1, Russell Tracy, PhD1, Mike Walkup, MS1, Samuel Wu, PhD1, Walter Ambrosius, PHD3, Marco Pahor, MD2, (1) University of Pittsburgh, Pittsburgh, PA, USA
2 University of Florida, Gainesville, FL, USA
3 Wake Forest School of Medicine, Winston-Salem, NC, USA
4 Tufts University, Boston, MA, USA
5 Boston University School of Medicine, Boston, MA, USA
6 Northwestern University, Chicago, IL, USA
7 University of Vermont, Burlington VT, USA
8 National Institutes of Health, Bethesda MD, (USA)

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, Milan (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)

ICFSR Networking Reception in the Garden of Eden Roc

(PRE-REGISTERED ATTENDEES ONLY)
8:00/9:00

**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, MD** - Co-Founder & Chief Science Officer, Longeveron LLC

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9:00/9:10

**ORAL COMMUNICATION 24**
Moderators: Luis Miguel Gutierrez Robledo (Mexico), Nicholas Rodin, Baltimore (USA)

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

Ryan McGarth, PhD, Soham Al Snih, MD, PhD, Kyriacos Markides, PhD, Kyle Hackney, PhD, Ryan Bailey, PhD, DTRIL, 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, (USA)

9:10/9:20

**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), Courtenay M. Holscher MD (1), Niraj M. Desai MD (1), Miranda R. Jones PhD (1), Silas P. Norman MD (1), Daniel C. Brennan MD (1), Jacqueline Garonzik-Wang MD PhD (1), Jeremy D. Walston MD (1), Adam W. Bingaman MD (1), Dorry L. Segev MD PhD (2, 3), Mara McAdams-DeMarco PhD (1), (1) Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD. (2) Department of Epidemiology, Johns Hopkins University School of Public Health, Baltimore, MD.(3) Department of Medicine, Division of Nephrology, University of Michigan, Ann Arbor, MI. (USA)

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 Weying 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)

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**
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?**

**Paulo 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. (1) Center on Aging and Health, Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore, MD, USA. (1) Department of Geriatrics, Hospital Universitario de Getafe, Madrid, Spain. (1) 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 – POSTERS**
CONFERENCE 11
Mildred Water, Dunnin (New Zealand), Suzette Pereira, Colombo (USA)
ROLE OF MALNUTRITION IN THE DEVELOPMENT OF FRAILTY AND COST IMPLICATIONS AMONG COMMUNITY-DWELLERS
Beatriz Rodriguez-Sanchez, PhD, José Antonio Carriero-Devara, PhD, Suela Sula, PhD, Ricardo Rueda MD, PhD, Jamie Partridge, PhD, MBA, Suzette Pereira, PhD, Leocadio Rodriguez-Mañas MD, PhD (1) (2) (3) (4) Universidad de Castilla-La Mancha, Spain (2) (3) Geriatric Department Fundacion de Investigacion Biomedicala, Hospital Universitario de Getafe, Getafe, Spain (3) (4) Abbott Nutrition, Columbus, OH, USA (4) Abbott Nutrition, Granada, Spain (5) (6) 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), Amaia Calderon Larranaga (1); Erika Franzén (2,3), Wei Xu (4), Anna-Karin Welmer (2,3,4,5) Aging Research Center (ARC), Department of Neurology, Care Sciences and Society, Karolinska Institutet and Stockholm University, Stockholm, Sweden (5) Division of Physiotherapy, Department of Neurobiology, Care Sciences and Society, Karolinska Institutet, Sweden (6) Allied Health Professionals, Function Area Occupational Therapy & Physiotherapy, Karolinska University Hospital, Stockholm, Sweden (5) Stockholm Gerontology Research Center, (Sweden)

12:00/12:10
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, Marta Unisés Pérez-Zepeda, Luis Miguel Gutierrez-Robledo. Instituto Nacional de Geriatria (Mexico)

12:10/12:20
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
Huisingh-Scheet M, Kocherginski 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 (5) University of Chicago, Dept of Public Health Sciences, Chicago, (6) University of Chicago, Department of Sociology & NORC (USA)

12:20 – 12:30
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 of Chicago Medicine, Department of Medicine, Section of Geriatrics and Palliative Care Medicine, University of Chicago Medicine, Department of Surgery, Section of Thoracic Surgery (5) University of Chicago Medicine, Department of Medicine, Section of General Medicine, Chicago (5) University of Chicago, Dept of Public Health Sciences, Chicago, (6) University of Chicago, Department of Sociology & NORC (USA)

12:30 – 12:40
ORAL COMMUNICATION 30
NOVEL INFLAMMATORY BIOMARKERS AND THE ONSET OF FRAILTY AND MAJOR MOBILITY DISABILITY IN THE ENRIGE PILOT TRIAL
Stephen B Kritchevsky, PhD (1), Russell Tracy, PhD, Todd M. Manini, PhD, Anne B. Newman, MD, MPH, Mary McDermott, MD, Roger Fielding, PhD, Laura Lovato, PhD, Ezechiel Zamora, MD, Marco Pañor, 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 (5) Department of Pathology & Laboratory Medicine, Lerner College of Medicine, University of Vermont, Burlington, VT, USA (5) Department of Aging and Geriatric Research, College of Medicine, University of Florida, Gainesville, FL, USA (5) Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, USA (6) 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 (6) Dept of Biostatistics and Data Science, Div of Public Health Sciences, Wake Forest School of Medicine, Winston-Salem, USA

12:40 – 12:50
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 LITOE RANDOMIZED CLINICAL TRIAL
Debra L Waters 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 Aguierre New Mexico VA Health Care System, Albuquerque, New Mexico; 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 Program 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, Divison 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, Divison of Endocrinology, Diabetes, and Metabolism, Michael E. DeBakey Veterans Affairs (VA) Medical Center, Houston, Texas

12:50 – 1:50
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 Cesari, Granda-Università di Milano, (Italy)
Luis Miguel Gutierrez-Robledo Instituto Nacional de Geriatria (Mexico)

COFFEE BREAK – POSTERS
COGNITIVE FRAILTY

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

P 46 • The relationship between frailty and mild cognitive impairment in the elderly: a systematic review
Natália Oring de Castro Cezar, MS (1), Marcus Kilili Borges, MD, MS (2), Alaise Silva Santos de Siqueira, MS (2), Mônica Sanches Yussuda, PhD (3,4), Matteo Cesari, MD, PhD (5). 1 Ivan Aprahamian, MD, MS, PhD (6,2) 1 Department of Physical Therapy, Federal University of São Carlos (UFSCar), São Paulo, SP, Brazil. 2 Department of Institute of Psychiatry, Faculty of Medicine, University of São Paulo, São Paulo, Brazil. 3 School of Arts, Sciences and Humanities, and University of São Paulo, São Paulo, Brazil. 4 Department of Neurolology, Faculty of Medicine, University of São Paulo, São Paulo, Brazil. 5 “Fondazione IRCSS Ca’ Granda - Ospedale Maggiore Policlinico”, University of Milan, Milan, Italy 6 Department of Internal Medicine, Faculty of Medicine of Jundiaí, Jundiaí, Brazil

P 47 • Cognitive Frailty: results from SABE Colombia Study
Estephania Chaco Tovar-Velazquez (1), 2, Elsa Bolívar-González (1,2), María Paula Vargas-Beltrán (1,2), Luis Carlos Venegas-Sanabria (1,2), Diego Chavarro-Carvajal, (1,2), Carlos Alberto Cano-Gutiérrez (1,2,1), Semillero de Neurociencias y Envejecimiento (1), Aging Institute and Faculty of Medicine, Pontificia Universidad Javeriana, Bogotá, Colombia 2 Centro Geriatrico, Hospital San Ignacio y Pontificia Universidad Javeriana, Bogotá, Colombia

P 48 • Sex difference of the tendency of food habit of cognitive frail patient and caregiver
Yami Uneda-Kawamura, Kyōsui Yamaguchi, Mitsutaka Yakabe, Taro Kajima, Yasuhito Yamaguchi, Sumito Ogawa, Masahiro Akihida Department of Geriatric Medicine, The University of Tokyo (Japan)

P 49 • Sarcopenia and cognition in the oldest old: data from the FIBRA study in Brazil
Mônica Sanches Yussuda - University of São Paulo, State University of Campinas Gabriela Cabett Cipollo - University of São Paulo Flávia Arbeix Bonim - State University of Campinas André Fattori - State University of Campinas Ligia Pires Corra - State University of Campinas Anita Liberati-Neri -State University of Campinas Ivan Aprahamian - Jundiai 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, Yuni Li, Zhe Tang Department of Geriatrics, Xuanwu Hospital, Capital Medical University, China National Clinical Research Center for Geriatric Disorders Beijing (China)

P 51 • Could Delirium be a SYMPATHETIC Over-drive?
Ireland Declan Lyons-University Hospital Limerick, Ireland Margaret O’Connor-University Hospital Limerick, Ireland Tina Sheehy-University Hospital Limerick, Ireland Catherine Peter-Peter University Hospital Limerick, Ireland Ion Kiemann-University Hospital Limerick, Ireland Declan Lyons-University Hospital Limerick, Ireland Ireland Connor-McMaster University School, University of Limerick, Ireland

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

P 53 • Lower Cerebral Volumes in Frail versus Robust Non-Demented Elderly
A Fattori Faculty of Medical Sciences of Unicamp - Campinas State University Debora Lee Vianna Paulo 1a, Camila Vieira de Lago Teixeira 2c, Amanda Veigas Sardinha 2c, Amanda Ximenes Reis 3a, Maria Fernanda Bottino Roma 4a, Heitor Moreno Junior 5a, Paula Teixeira Fernando 6a, André Fattori 7a. a Gerontology Program, Faculty of Medical Sciences, University of Campinas (UNICAMP) b Faculty of Physical Education - UNICAMP c Neurology Department - UNICAMP (Brazil)

P 54 • Imaging and frailty
Mathieu Maltes, Philippe de Souto Barreto, Yues Rolland & Bruno Vellas Gérontopôle de Toulouse (France)

P 55 • Frailty Mediates Senility in Mexican-Americans
Palmer RF 1, Royal DR1-4Departments of Family & Community Medicine1, Psychiatry2, Medicine3, The University of Texas Health Science Center at San Antonio and the South Texas Veterans Health Administration Geriatric Research Education and Clinical Center (GRECC)4

FUNCTIONAL ASSESSMENT

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

P 57 • Evaluation of Sleep Disorders and Accompanying Factors Evaluation of Sleep Disorders and Accompanying Factors
Baru Ozulu Turmen 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
Olena Tomarzewska 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

P 59 • Findings of a Systematic Review of Psychometric Properties for Daily Activities (ADL) Questionnaires for Older Community-Dwelling Persons: A Systematic Review
Marjole Hofman-Rock, PhD MSc MA, 1 Helmi van Hirtum MSc, 1 Paul de Vreede, PhD2, Ellen Freibergen, PD PhD, 3 1 Research center Body@Work TNO (Netherlands Organization for Applied Scientific Research) and VU University Medical Center, Leiden, The Netherlands. 2 Department of Public Health, Erasmus MC, University Medical Center Rotterdam, The Netherlands. 3 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, Kye-nam Park PT, PhD2 (1) Department of physical therapy, Sangi University, Wonju, South Korea (2) Department of physical therapy, College of Medical Science, Jeonju University, Jeonju, South Korea)

P 40 • Inflammatory biomarker levels are associated with self-reported major mobility disability: A pooled analysis
Daniel P. Reue, PhD1, Todd M. Manini, PhD2, Walter T. Ambrosius, PhD1, Stephen Kittleson, PhD2, Thomas Gill, MD4, Stephen Anton, PhD2, Mary McDermott, MDS; Anne Newman, MD6; Russell Tracy, PhD7; Abby King, PhD. 1 Division of Biostatistics and Data Science, Division of Public Health Sciences, Wake Forest School of Medicine, Winston-Salem, NC, USA 2 Department of Aging and Geriatric Research, College of Medicine, University of Florida, Gainesville, FL, USA 3 Section on Gerontology and Geriatric Medicine, Department of Internal Medicine, Sticht Center for Healthy Aging and Alzheimer’s Prevention, Winston-Salem, NC, USA 4 Department of Internal Medicine, Yale University School of Medicine, New Haven, CT, USA. 5 Department of Medicine, General Internal Medicine and Geriatrics, Feinberg School of Medicine, Northwestern University, Chicago, IL, USA. 6 Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, USA. 7 Department of Pathology & Laboratory Medicine, Lerner College of Medicine, University of Vermont, Burlington, VT, USA. 8 Department of Health Research and Policy, Stanford University, Palo Alto, CA, USA. 9 Nutrition exercise physiology and sarcopenia laboratory, Jean Mayer USDA Human Nutrition Research Center on Aging Tufts University, Boston, MA, USA
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**CLINICAL TRIALS**

**P 73** • Exercise rehabilitation in older, sarcopenic and frail patients
Ellen Freiberg*1 PD PhD; Monika Siegrist2 PhD; Wolfgang Kemmler3 Prof. PhD; Cornél Sieber4 Prof. Dr. *1 Friedrich-Alexander University Erlangen Nuremberg, Institute for Biomedicine of Aging; 2 Institute for Medical Physics FAU, 4 Hospital Barmerzieche Brüder Regensburg (Germany)

**P 74** • The FORCE trial: Focus on Reducing Dose-Limiting Toxicities in Colon Cancer with Resistance Exercise (RT): Baseline Functional Status
1Bettina Caan, 2Kathryn H. Schmitz, 3Ellisabeth M. Brightons, 4Justin C. Campbell, 5Adrienne V. Wilson, 6Claudia Kaestel, 7Andreas Klopst. *1Graduate School of Medical Sciences, Kitasato University, Japan (2)Division of Health Science, Kitasato University, Japan (3)Department of Health Science, Kitasato University, Japan; 4Division of Rehabilitation, Kitasato University Hospital, (Japan)

**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 Hieun Huang MD, MSc1,2,3,4 (presenter), Hiroyuki Umezaki, MD, PhD2, Tomoharu Kitada, PhD1, Aiko Inoue, PhD1, Tanaka Makino, PhD1, Takahiro Hayashi, PhD1, Hiroyuki Shimada, PhD5, Masafumi Kuzuya, MD, PhD1,2 (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, Echu 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 Institute for Geriatrics and Gerontology, Obi (Japan)

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**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
Kiyomi Tsuchi1,2, Kameki Naka1,2, Takuya Mada2, Tetsuharu Nakazono1,2, Sakamoto Mi62, Haruhiko Sato2, 1Yoshitaka Shiba1, Naonobu Takahira1, 2 (1)Graduate School of Medical Sciences, Kitasato University, Japan (2)School of Allied Health Science, Kitasato University, Japan

**P 62** • Life-Space Mobility As a Clinical Marker for Physical Fitness in Community-Dwelling Older Adults: Gender Disparity Observations
Tay EL *1, Ng YS *1, Lau A *1, Mah SM *1, Tay L *2 *Selegka General Hospital (Singapore)

**P 63** • Developing a novel tool for the assessment of physical frailty in older adults with a diagnosis of psychiatric disorder
J Sutton Department of Old Age Psychiatry, King’s College London Department of Old Age Psychiatry IOPPN, King’s College London, Box P070, 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 Sutton Department of Old Age Psychiatry, King’s College London Department of Old Age Psychiatry IOPPN, King’s College London, Box P070, De Crespigny Park, London United Kingdom London Dr Rebecca Gould, Division of Psychiatry, University College London (UK)

**P 65** • Congenital, untreated, severe isolated growth hormone deficiency predisposes or protects against frailty and sarcopenia?
Miburge Bolvar Gis-Junior1,2, Alanis Laksha Gamaardn3,2, Giuliano Moreira Brasiln2, Aranda A.Santana-Ribeirn2, Jansen Atein Estrade1, Cesar Ferreira Amarotn1, Fernanda Goncalves Civitelln1, Inaíl Caroline Godttin1, Manuel Herninio Aguila-Oliveirin2, Roberto Salviatorin3, & Edgar Ramos Vieiran1 - 1 Department of Physical Therapy, Florida International University, Miami, Florida, USA. 2 Laboratory of Motor Control and Body Balance, Center for Health Science Research, Federal University of Sergipe, Aracaju, Sergipe, Brazil 3 Division of Endocrinology, Federal University of Sergipe, Aracaju, Sergipe, Brazil. 4: 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 Doria1, Alberto Raimondi2, Eleonora Poggiagueri1, Luca Carlo Neilleti, Gianluca Zia3,4 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 3 Caretek of, Torino, Italy 4 BlueCompanion ltd, London, (UK)

**P 67** • Functional reserve index determined through balance rehabilitation unit: follow-up of older adults with balance alteration
Marcela Arias Barredo MD,PhD1, Maria Victoria Figueroa Souper LD2, (1) Physician Chef Geriatric Hospital Day; National Institute of Geriatrics, Santiago de Chile (2) Medical Physicien, Geriatric Hospital Day, National Institute of Geriatrics, Santiago de Chile, (Chile)

**P 68** • How young is your Muscle? Functional Assessment with Ageing
Swati Banerjee1,2, Loudna Imanri1,4, Sofiane Boudaoud1,4, Aymeric Kinsnap1,2,3,1 Sodharne University, Paris, France. 2 CNRS, UMR 8256 Biological Adaptation and Aging, Sorbonne University, Paris, France. 3 Functional Exploration Unit of older patients, University Hospitals Pitié-Salpêtrière-Charles Foix, DHU Assistance Publique Hôpitaux de Paris (AP-HP), Paris, France. 4 Laboratoire Biomécanique et Biokinéntique UMR 7338, Université de technologie de Compiègne, Sodharne Université (France)

**P 69** • Accuracy of inertial sensors vs optical motion capture system for analysis of movement - preliminary results
Jansen Atein Estrade1,2, Fernanda Goncalves Civitella1, Miburge Bolvar Gis-Junior1,3, Jorge Carreño1, Inaíl Caroline Godtt1, Jaison Agne Estráulas2 and Edgar Ramos Vieira1 - 1 Department of Physical Therapy, Florida International University, Miami, Florida, USA. 2 School of health, Amazonas State University, Manaus, Amazonas, (Brazil)

**P 70** • An innovative platform based on wearable sensor to quantify physical frailty phenotypes
He Phu TH, Bijan Najafi, PhD Interdisciplinary Consortium on Advanced Motion Performance (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
Márton J. R. Alberti MD (1); Claudia Széfi, MD, PhD (2); Kenneth E. Covinsky, MD, MPH (3,4); Sei I. Lee, MD, MAS (3,4); Wilson Jacob-Rilla, MD, PhD (1); Claudia K. Suemoto, MD, PhD, MSc (1,2). (1) Department of Geriatrics, University Sao Paulo Medical School, Brazil. 2 Center for Clinical and Epidemiological Research, Hospital Universitario da Sao Paulo, Brazil (2)
PHYSICAL FRAILTY AND AGE-RELATED BODY COMPOSITION MODIFICATIONS

P 80 • Prevalence of sarcopenia among healthy ambulatory subjects: the sarcopenia begins from 45 years
Christophe de Jaeger, 1 MD, Elena Voronksa 1 MD, Carla Lambert 1 MD, Saskia Kruiskamp 1 MD, Patrick Cherin 2 MD, PhD 1 MD: Institut de médecine et physiologie de la longévité, 4 rue de Galliera, 75116 Paris, France 2 Service de Médecine Interne 2e, Bâtiment I3EM, CHU Pitil-Salpêtrière, 47 bd de l’hôpital 75013 Paris, (France)

P 81 • Prevalence of osteo-sarcopenia and osteo-sarcopenia obesity in healthy ambulatory subjects older than 45 years in France
Christophe de Jaeger, 1 MD, Elena Voronksa 1 MD, Carla Lambert 1 MD, Saskia Kruiskamp 1 MD, Patrick Cherin 2 MD, PhD 1 MD: Institut de médecine et physiologie de la longévité, 4 rue de Galliera, 75116 Paris, France 2 Service de Médecine Interne 2e, Bâtiment I3EM, CHU Pitil-Salpêtrière, 47 bd de l’hôpital 75013 Paris, (France)

P 82 • Weight loss and incidence of disability among the oldest old: the fibra study longitudinal findings
L Corseto, Faculdade Pedro Zaccaria, 1390 Brazil; Sao Paulo; Silpavia C. D. Andrade: College of Applied Health Sciences – University of Illinois at Urbana-Champaign; Flavia S. A. Borim: Faculty of Medical Sciences – University of Campinas Ivan Abrampaham: Faculty of Medicine of Jundiai André Fattori: Faculty of Medical Sciences – University of Campinas Matteo Cesari: Fondazione (IRCCS) Ca’ Granda – Ospedale Maggiore Policlinico”, University of Milan, Milan, Italy; Monica S. Yassuda: School of Arts, Sciences and Humanities (EACH) – University of São Paulo; Ana L. Neri: Faculty of Medical Sciences – University of Campinas (Brazil)

P 83 • Preserved physical fitness associated with lower 1-year mortality in frail elderly patients with a severe comorbidity burden
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P 84 • Sarcopenia, obesity, and sarcopenic obesity prevalence and respective body composition in middle-aged women
Edgar Renato Vieira (1), Maria Socorro Medeiros de Morais (2), Rafaela Andrade do Nascimento (3), Mariana Camen-Apodiário Vieira (3), Mayle Andrade Moreira (4), Suelane Maria Aires da Câmara (5), Álvaro Campos Cavalcanti Maciel (5) 1 Department of Physical Therapy, Florida International University, Miami, FL, USA 2 Health Sciences Center, Federal University of Rio Grande do Norte, Natal, RN, Brazil 3 Graduate Program in Physical Therapy, Federal University of Rio Grande do Norte, Natal, RN, Brazil 4 Department of Physical Therapy, Federal University of Ceará, Fortaleza, CE, Brazil 5 Train College of Health Sciences, Federal University of Rio Grande do Norte, Natal, RN, Brazil

P 85 • The role of bioelectrical impedance analysis (BIA) in identification of sarcopenia in different classifications
Sara Tagliaderi, PhD1, Fulvio Laurenti, MD2, Mario Pedrazzoni, MD1, Giovanni Passeri, MD1, Marcello Maggio, MD, PhD,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 86 • The assessment of pain in older frail sarcopenic and osteosarcopenic subjects
Longbozuo Yao (1), Yat Liang (2), Fujian State Key Laboratory of Rehabilitation Medicine, Fudan University, Shanghai, China 1, 2 Department of Internal Medicine, Chenxiang Hospital, Shanghai, China

P 87 • High Lipid Accumulation Product and low estimated Glucose Disposal Rate indicate increased cardio-metabolic risk and decreased insulin sensitivity in postmenopausal women with sarcopenic obesity
Eleonora Poggiopolo1, Carla Lubran1, Lucia Gnesi2, Stefania Mariani1, Mikako Watanabe1, Andrea Lenza1, Lorenzo Maria Donini1 – Sapienza University, Rome, (Italy)

P 88 • Association between skeletal muscle mass and frailty stiffness in older frailty people
Narinder Shriakul: Department of Rehabilitation, Faculty of Health Science, Naresuan University 1, Kikui Okada, Nagoya School of Nutritional Sciences, Nagoya University of Arts and Sciences, 3 Tajiy Nagouchi, Department of Rehabilitation, Faculty of Health Science, Nihon Fukushi University 4 Takahiko Hayashi, Faculty of rehabilitation and care, Seij University 5 Yusuke Suzuki, Department of Comprehensive Community Care Systems, Nagoya University Graduate School of Medical Science (Japan)

P 89 • Sarcopenia and Related Factors in Hospitalized Patients
O Yilmaz: Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division Istanbul University Istanbul Medical Faculty Istanbul, (Turkey)

P 90 • Comparing SARC-F with SARC-CalF to screen sarcopenia in community living older people
G División: Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division/Merem Merve Chen/1 3.Ozlem Yilmaz/1 (4) Cihan Kilik/1 5.Kubra Aydin/2 6.Mehmet Akif Karan/1 7 Istanbul University Istanbul Medical Faculty 2 A Atatürk University Istanbul Medical Faculty Istanbul Medical Faculty, (Turkey)

P 91 • Performance of SARC-F in regard to Sarcopenia Definitions, Muscle Mass and Functional Measurements
Gülşan Bahar MD, 1 Birkan Tharan MD, 1 Nalan Capan MD, 2 Cihan Kilic, Physiotherapist 1, Cerik Yasa MD, 2 Funda Gungor MD, 3 ozlem Perali Ozkan, Dietician (4), Ayse Karan MD (2), Mehmet Akif Karan MD (1) Tİstanbul University Istanbul Medical School, Department of Internal Medicine, Division of Geriatrics, Istanbul, Turkey, 2 İstanbul University, Istanbul Medical School, Department of Physical Medicine and Rehabilitation, Turkey, 3 İstanbul University, Istanbul Medical School, Department of Ogyrogy, Istanbul, 4 İstanbul University, Nutrition and Dietetics, (Turkey)

P 92 • Iron intake status, linking using iron fractional in sarcopenia/hypermobility syndrome – Prevalence and relationships
G Faber: Division of Neurobiology, Care science and Society, Karolinska Institutet, Stockholm, Sweden 1,2,3 Helen Grönstedt, Phys th, PhD,4,5, Erika Fränzén, Phys th, PhD,1,3,6, Else Siiger MD, MD1,7, Sofia Wikström, Occup th, PhD,1,6, Anders Wilmos, MD, PhD,1,7, Anne-Marie Boström RN, PhD,1,7,8, Tommy Cederholm, MD, PhD,1 (1) Department of Neurobiology, Care science and Society, Karolinska Institutet, Stockholm, Sweden, (2) Division of clinical genetics, (3) Stockholm Sjukhem R&D unit, Stockholm, Sweden, (4) Karolinska University Hospital, Stockholm, Sweden (5) Division of psychotherapy, (6) Division of Occupational Therapy, (7) Division of neurogenetics, (8) Division of nursing, Department of Public Health and Care Sciences, Division of Clinical Nutrition and Metabolism and Division of Genetics, Uppsala University, Uppsala, (Sweden)

P 93 • The style of life in functional health of elderly participants in unati-am health projects and quality of life
M Gallego University of the State of Amazonas, Brazil Bruno Jefferon Lorena Silva - Universidade do Estado do Amazonas Clayardo Cavalcido dos Santos - Universidade do Estado do Amazonas José David e Silva Gomes - UPEMM/Universidade do Estado do Amazonas Baptistons, Brazil

P 94 • Changes in muscle mass; strength and function with age among community elderly in china 7A longitudinal Study with 4 years Follow-up
Ying Zhang MD1, Xiaoyan Chen MD2, Xu Lin MD2, Dian Qiong MD1, Lizha Hou MD1, Hui Wang PhD1, Shan Hai MD1, Li Cao PhD1, Biron Dong PhD1* (1) National Clinical Research Center for Geriatrics, West China Hospital Sichuan University?Chengdu, Sichuan, (China) 2 Collaborative Innovation Center of Sichuan for Elderly Care and Health, Chengdu, Sichuan, (China)
P 95 • MBNL1-associated mitochondndrial dysfunction and apoptosis in C2C12 myotubes and mouse skeletal muscle
Shingo Yokoyama, PhD1, Yoshitaka Ohno, PhD1, Tatsuro Egawa, PhD2, Ayane Nakamura, MS2, Katsumasa Goto, PhD2 (1) Laboratory of Physiology, School of Health Science, Toyohashi SOZU University, Toyohashi, Japan (2) Department of Physiology, Graduate School of Health Science, Toyohashi SOZU University, Toyohashi, Japan (3) Laboratory of Sports and Exercise Medicine, Graduate School of Human and Environmental Studies, Kyoto University, Kyoto, (Japan)

NUTRITION AND AGING

P 96 • The influence of midlife weight change on cognitive impairment in old age: The Singapore Chinese Health Study
Woon-Puay Koh, Mohammad Tahani Health Services and Systems Research, Duk-NUIS Medical School, (Singapore)

P 97 • Vitamin D in relation to incident sarcopenia and changes in muscle parameters among older adults: the KORA-Age study
Ramón Cossade (1), Eva Grill (2), Heike A. Bischoff-Ferrari (3), Uta Ferrari (4), Alexander Horsch (5), Wolfgang Koenig (6,7,8), Annette Peters (1) and Barbara Thurand (1) (1) Helmholtz Zentrum München, German Research Center for Environmental Health (GmbH), Institute of Epidemiology, Neuherberg; (2) Institute for Medical Information Processing, Biometrics and Epidemiology, Ludwig Maximilian University of Munich, Munich; (3) Centre on Aging and Mobility, University of Zurich and City Hospital Waid, Zurich; (4) Department of Medicine IV, University Hospital, Ludwig Maximilian University of Munich, Munich; (5) Department of Computer Science, UiT - The Arctic University of Norway, Tromsø; (6) Heart Centre Munich, Technical University of Munich, Munich; (7) DJHK (German Centre for Cardiovascular Research), Partner Site Munich Heart Alliance, Munich; (8) Ulm Medical Center, Department of Internal Medicine II—Cardiology, University Hospital Ulm, Ulm (Germany)

P 98 • Association of nutrients intake and sarcopenia in Brazilian older adults
I. Centre College of Applied Sciences - University of Campinas - Garaete M. Silva: College of Applied Sciences-University of Campinas Larissa M. Hara: College of Applied Sciences-University of Campinas Carolina N. Freire: College of Medical Sciences - University of Campinas (Brazil)

P 99 • The Role of Biological Sex on Nutritional Habits and Muscular Health among Middle-Aged, Healthy Adults
Kara Trautman MS, CSCT1, Christopher Kotorays MS, CSCT1, Nathan Dick MS, CSCT1, TCSC4-F1, Baille Sawyers MD, RDT1, Steven Mitchell MD1, 2, Shermi Stasichy RD1, 2, and Kyle Hackney, PhD, CSCT1, (1) Department of Health, Nutrition, and Exercise Sciences, North Dakota State University, Fargo, N.D., USA (2) Sanford Health, Fargo, N.D., USA

P 100 • The role of nutrition in the development of chronic diseases amongst elderly people
Nataliia Piskopreska. Grand PhD. Institute of Gerontology of National Academy of Medical Sciences, Kiev, (Ukraine)

P 101 • Nutritional Therapy, multiprofessional team and nutritional needs
Mota I. P.; Amarante P.; Borba L.; Santos M. J.;Kovacs C.; Feres F; Magioni C.D. Sao Paulo (Brazil)

P 102 • Alcohol and elderly sarcopenia, an underestimated problem
Alexia Medeiros*, Wladimir Colazo*, Annariccia Angelloni*, Luigina Scaglia* *Fondazione Richiedi: genitalic acute care unit,alcohol rehab centre Fondazione Richiedi reparto geriatria per acuti borgo reale Italy Pamia (Italy)

P 103 • How effective is esfen criteria for nutrition screening
Ogden Yihan/Istanbul University Istanbul Medical School Department of Internal Medicine Division of Geriatrics Gulistan Bahhat University Istanbul Medical School Department of Internal Medicine Division of GeriatricsBaru Ozulu Turkmen/Istanbul University Istanbul Medical School Department of Internal Medicine Division of Geriatrics Cihan Kilic/Istanbul University Istanbul Medical School Department of Internal Medicine Division of Geriatrics Mehmet Karahan/Istanbul University Istanbul Medical School Department of Internal Medicine Division of Geriatrics (Turkey)

P 104 • A study of physical characteristics and nutrition intake status of the prefrail elderly - the Nagoya Longitudinal Study for Healthy Elderly
Chiharu Uno RD1, Kiko Okada RD1, PhD1, Eiji Matsuhashi RD1, PhD2, Sachio Shitazoe RD1, MS2, Hiroshi Shimokuda MD1, PhD1, Shosuke Satake MD1, PhD3,4, Masafumi Kizuya MD1, PhD5,6,1 Graduate School of Nutritional Sciences, Nagoya University of Arts and Sciences, Nishin, Aichi, Japan (2) School of Nutritional Sciences, Nagoya University of Arts and Sciences, Nishin, Aichi, Japan (3)Japanese Society for Frailty Prevention, Department of Frailty Research, Center for Gerontology and Social Science (CSSG), National Centre for Geriatrics and Gerontology (NCGG), Obu, Aichi, Japan (4) Department of Geriatric Medicine, Hospital, NCGG, Obu, Aichi, Japan (5)Department of Community Healthcare & Geriatrics, Nagoya University Graduate School of Medicine, Nagoya, Aichi, Japan (6)Institutes of Innovation for Future Society, Nagoya University, Nagoya, Aichi, (Japan)

P 105 • Dietary intake of various food groups and nutrients associated with frailty
Tatjana Shahi M.S.C1, Bojinu Naveen Kumar PhD2, Gangapandith Mudhavi M.S.C1. Geereddy Bhanuprakash Reddy PhD1 (1) Department of Biochemistry, National Institute of Nutrition (ICMR), Hyderabad-500007, Telangana, India. (2) Department of Statistics, National Institute of Nutrition (ICMR), Hyderabad-500007, Telangana, India. (3) Department of Community Studies, National Institute of Nutrition (ICMR), Hyderabad-500007, Telangana, (India)

P 106 • Food intake, nutritional status, ability to function and life quality in older adults: findings in the Power Meals trial
Marka Laskozen, PhD1 (presenting author), Susanna Krun, MS2, Petra Rautakulio-Jarvinen, MS2, Terttu Nordman, MS2, Jussi Laponen, PhD1, Marianne Nordbom, MS2, Harri Sivenen, PhD4, Merja Suominen, PhD5 (1) Oy Karl Fazer Ab Research, Toam, Finland (2) Poor Health and Social Services, Finland (3) Fazer Food Services Osy, Finland (4) UKK Institute, Finland (5) Society for Gerontological Nutrition in Finland

P 107 • Dietary Inflammatory Index is differently associated with ectopic fat depots in overweight and obese adults
Eleonora Poppogliala*, Carla Lubrano*, Federica Luisi*, James R. Hebert2, Nito Shippopalo*, Michele Di Martino*, Stefania Mauri*, Andrea Loris*, Lorenzo Marco Donini1 Department of Experimental Medicine, Sapienza University, Rome, Italy (2) University of South Carolina, Columbia, South Carolina, USA (3) 3 Department of Radiological Sciences, Sapienza University, Rome, Italy

P 108 • Sarcopenic obesity and functional limitations in older Chileans
Cecilia Albala, Carlos Marquez, Lydia Lera, Barbara Angel, Mario Moya, Patricia Arroyo - INTU universidade de Chile - (Chile)

P 109 • Association of Total Energy Expenditure measured by the doubly-labeled water method and different parameters of physical activity
Tatiane Lopes de Pontes, MsC1, Jair Licio Ferreira Santos MD, PhD1, Patrícia Pinheiro Amador dos Santos MSc1, Karina Primmer PHD1, Renato Campos Freire PhD1, Priscila Giacomini PhD1, Nereida Kilia da Costa Lima MD1, PhD1, José Cesar Moroqui MD1, PhD1, Eduardo Ferrioli MD2, PhD1, (1) Ribeirao Preto Medical School, University of Sao Paulo, Ribeirao Preto-SF, Brazil, (2) Federal University of Amazonas – Manaus-AM, (Brazil)

NUTRITION INTERVENTION

P 110 • Impact of nutrition guidelines on the dietary behaviour of the elderly in Ondo West of Nigerian
Jerome Ahlia Olomo; Prof Emnie Dicks; Prof Jeanette Kearney; Dr Lola Oritotila (Nigeria)

P 111 • Effects of individualized per-meal protein prescription, nutrition education, and tele-diet coaching on dietary protein intake and physical function in economically disadvantaged older adults
Sareem Grepper (1), Maude Exantus (1), Kelley Jackson (1), Seana R. Reid (1), Shane Spiers (2), Melody Romano (3), Deborah D’Avolio (1), Andra O’Horan (1), Ruth Tappen (1), & Edgar Ramos-Vega (4) (1) Christine E Lynn College of Nursing, Florida Atlantic University, Boca Raton, FL, USA (2) Medical School, St. George’s University, Grenada, West Indies (3) Charles E Schmidt College of Science, Florida Atlantic University, Boca Raton, FL, USA (4) Department of Physical Therapy, Florida International University, Miami, FL, USA

P 112 • Effects of nutritional supplementation (symbiotics or glutamine) on the systemic inflammation and some consequences on body composition in elderly: a randomized clinical trial
Marcus Venicius LS Quaresma, M.Sc. (1), João Valenti-Neto, M.Sc. (1), Camila Maria de Melo, PhD (2), Sandra M.Ribeiro, PhD (1,2). 1-School of Public Health, University of São Paulo; SP, Brazil; 2- Federal University of Lavras, MG, Brazil. 3- School of Arts, Sciences and Humanities- University of São Paulo, SP, Brazil

P 113 • Nutritional treatment as a tool prediction of mortality in intensive therapy unit
Ana Margaret Nascimento Gomes Farias Soares, Ana Paula Aparecida Rodrigues Assunção, Fabiana Ferreira da Silva, Camila Regina Leite de Campos, Isabella Cardoso Pimentel, Maria José dos Santos, Fausto Feres, Carlos Daniel Magioni Sao Paulo (Brazil)
P 114 • Associations between frailty and oral health: findings from the Concord Health and Ageing in Men Project (CHAMP)

Eduardo Valdés1, F.A. Clive Wright1, Vasi Nagarathnam1,2, Kate Millidge1,3, Fiona M Blyth4, X. Canoza Velasco1,2, Gustavo Paez1,2, Kim Yee Sien1,4, P W. Festing5,6,7. 1Department of Public Health, Epidemiology and Health Economics, University of Liege, Belgium. 2WHO Collaborating Centre for Public Health Aspects of Musculoskeletal Health and Ageing, 2. Gerontopôle, University Hospital of Toulouse III, Toulouse, France, University of Toulouse III, France. 3Geriatrische Unfall Zumwalt, Zürich, Switzerland. 4Centre Hospitalier Universitaire de Toulouse, Toulouse, France. 5Centre Hospitalier Universitaire de Toulouse, Toulouse, France. 6Departments of Oral and Maxillofacial Surgery, Cardiology, Department of Internal Medicine, Geneva University Hospitals and Faculty of Medicine, Geneva, Switzerland. 7Division of Geriatrics, CHU Liège, Liege, Belgium. 8Department of Gerontology, Old Age Psychogeriatrics, Zürich, Switzerland. 9Department of Geriatric Medicine, Saint Louis University School of Medicine, St Louis, Missouri, USA.

P 115 • The relationship between physical frailty and depressive symptoms in community-dwelling older adults: the mediating and moderating role of social support

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P 116 • The association between frailty and medication adherence among community-dwelling older patients with chronic conditions: medication beliefs acting as mediators

Xiao-Yan Qiao PhD1, Cui-Ling Wang PhD1, Xiao-Yu Tian M Sc2, Yan-Jiu M Sc2, Huanan Shi M Sc2, Xinyi Liu M Sc1. School of Nursing, Shanghai University, China. 2School of Nursing, Beijing University, Beijing, China.

P 117 • 30-Day Readmission Diagnoses in Elderly Patients Admitted Previously for a Diagnosis of Sepsis

Allison Kohn MS21, Angelina Avdella MS21, Gabriella Engstrom PhD1, Bernardo Reyes MD1, Joseph Ouslander MD1 (1) Charles E. Schmidt College of Medicine at Florida Atlantic University, Boca Raton, FL, USA

P 118 • Associations of 30 Day Readmissions Follow ing Hip Fractures in Patients 75 and Older

Avdella Angelina MSY2, Kohn, Allison MSY2; Engstrom, Gabriella PhD; Reyes, Bernardo MD1; Ouslander, Joseph MD2 Florida Atlantic University, Schmidt College of Medicine, Boca Raton, FL, USA.

P 119 • Co-existence of Physical Frailty and Sarcopenia: Is there a hidden frailty syndrome and Adverse Health Outcomes in the Community-Dwelling Older Adults

Tan Le Lea MRCPI, Tew Eg Lee MSc2, Latib Aisyah BSc3, Mah Shi Min MSc2, Abu Bakar Huda BSc1, Ng Yee Sien FRCP4 1. Department of Geriatric Medicine, Singapore General Hospital. Singapore 2. Department of Physiotherapy, Sengkang General Hospital. Singapore 3. Office of Regional Health System, Singapore. 4. Department of Geriatric Medicine, Singapore General Hospital, Singapore.

P 120 • Visual Impairment and Frailty: An important, yet understudied relationship

Bonnie Lee K. 1. Moon Jeong Lee1, Jin Tien2, Vanushri Varadaraj3, Karen Bandeen-Roche2 (1) Department of Ophthalmology Johns Hopkins School of Medicine, Wilmer Institute Baltimore, (2) Department of Biostatistics John Hopkins Bloomberg School of Public Health Baltimore, MD, USA

P 121 • Community nursing care approaches based on activities of community-dwelling senior couples living independently at home

Pongpaeng Zhang Saitama Prefectural University, Japan.

P 122 • Frailty was predictive of death after discharge from the emergency service: a 6-month prospective study from a middle-income country

Gabriella Vano-Aric di-Almeida1, Carla Fernanda di-Vasconcellos1, Tarsila Gomes Caldas1, Nadia Temo Antunes Yoshitake1, Liu Bataoglou1, Matteo Cesari2 (1) Group of Investigation on Multimorbidity and Mental Health in Aging (GIMMA), Faculty of Internal Medicine, Department of Internal Medicine, University of Modena and Reggio Emilia. 2. Foundation (IRCCS) Ca‘ Granda – Ospedale Maggiore Policlinico, University of Milan (Italy)

P 123 • Non-motor characteristics but not motor signs of Parkinson’s disease were associated with frailty

Richard Murdoch Montgomery1, Matteo Cesari2. 1(1) Group of Investigation on Multimorbidity and Mental Health in Aging (GIMMA), Department of Internal Medicine, Faculty of Medicine of Modena (2) “Fondazione (IRCCS) Ca’ Granda – Ospedale Maggiore Policlinico”, University of Milan (Italy)

P 124 • Selective serotonin receptor inhibitor monotherapy was associated with frailty and falls in a clinic cohort of older adults from a middle-income country

Avdella Angelina MSY2, Kohn, Allison MSY2; Engstrom, Gabriella PhD; Reyes, Bernardo MD1; Ouslander, Joseph MD2 Florida Atlantic University, Schmidt College of Medicine, Boca Raton, FL, USA.

P 125 • Relationship between Immune Cell Profiles and Frailty in Patients with Breast Cancer receiving Chemotherapy

Mariana Canoza-Velasco1,2, Tew Eg Lee MSc2, Mah Shi Min MSc2, Abu Bakar Huda BSc1, Ng Yee Sien FRCP4 1. Department of Geriatric Medicine, Singapore General Hospital. Singapore 2. Department of Physiotherapy, Sengkang General Hospital. Singapore 3. Office of Regional Health System, Singapore. 4. Department of Geriatric Medicine, Singapore General Hospital, Singapore.

P 126 • Detecting the features of frailty criteria by comparing with comprehensive geriatric assessment via linking to the International Classification of Functioning, Disability and Health (ICF)

Naoko Tomita MD1, Yuki Ohashi PhD1, Koki Ishiki MD1, Akiko Ozaki MD1, RN2, Mitusuke Nakao PhD4, Hirooki Araki MD1, PhD1. Department of Geriatrics and Gerontology, Institute of Development, Aging and Cancer Tokoh University: 2.Rakuyaku Rehabilitation Hospital Department of Gerontological and Home Healthcare Nursing, Division of Health Sciences, Graduate School of Health Science, Yokohama City University. 3. Laboratory of Biomedical, Department of Applied Information Sciences, Graduate School of Health Science, Tokyo University (Japan)

P 127 • Association of low serum 25-hydroxyvitamin D levels with the frailty syndrome in elderly population at Colima, Mexico

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P 128 • Appropriateness of new-oral anticoagulant dose adjustment in older adults

Tugba Erdogan1, Omar Erdogan2, Gulistan Bahaiz Ozturk1, Mehrmen Akif Kuran1. Istanbul University, Istanbul Medical School, Department of Internal Medicine, Division of Geriatrics, Istanbul, Turkey Zeynep State Hospital, Department of Cardiology, Istanbul, Turkey

P 129 • Detecting the features of frailty criteria by comparing with comprehensive geriatric assessment via linking to the International Classification of Functioning, Disability and Health (ICF)

Naoko Tomita MD1, Yuki Ohashi PhD1, Koki Ishiki MD1, Akiko Ozaki MD1, RN2, Mitusuke Nakao PhD4, Hirooki Araki MD1, PhD1. Department of Geriatrics and Gerontology, Institute of Development, Aging and Cancer Tokoh University: 2.Rakuyaku Rehabilitation Hospital Department of Gerontological and Home Healthcare Nursing, Division of Health Sciences, Graduate School of Health Science, Yokohama City University. 3. Laboratory of Biomedical, Department of Applied Information Sciences, Graduate School of Health Science, Tokyo University (Japan)

P 130 • Characteristics of frailty inhibitor prevention among community-dwelling elderly women of positive attitude toward health promotion activities

Marto Zvezda (Saitama Prefectural University) Osamu Fujinawa (Fukuoka Health Science University), Koji Sugano (Isodori Tokyo Koto Geriatric Medical Center), Ryo Kubota (Saitama Prefectural University), two yuko kumoto (Saitama Prefectural University), Hironami Nakamura-Thomas (Saitama Prefectural University), Hiroko Kohara (University of Kochi), Yoko Nonaka (Yamagata University), Hajime Toda (Kitsato University) (Japan)

P 131 • Community Based Dual Task Interventions to Reduce the Prevalence of Frailty: Findings from HAPPY Program

Rekha A. Merchant1 (Yong Loo Lin School of Medicine, National University of Singapore, Singapore) Matthew Chen (National University Hospital, Singapore) Sueen SUNDARAGHERAN (National University Hospital, Singapore) Tan Weng Mooi (NUS University, Singapore) Chris Tsoi Tung (National University Hospital, Singapore)

P 132 • Identifying the important items to be included in a frailty specific patient-reported outcomes : a qualitative study among patients and professionals

F. Buckinx1, J.Y. Regnery1. V. Rolland2, M. Cesari3, C. Beaudart4, R. Rizzoli5, L. Perramon5, S. Bougere6, G. Brugère7 (1) 1. Department of Public Health, Epidemiology and Health Economics, University of Liége, Belgium. 2.WHO Collaborating Centre for Public Health Aspects of Musculoskeletal Health and Ageing. 2. Gerontopôle, University Hospital of Toulouse III, Toulouse, France, University of Toulouse III, France. 3. Geriatric Unit, Fondazione Ca’ Granda - Ospedale Maggiore Policlinico, Milan, Italy. 4. Italy, 5. Service of Bone Diseases, Department of Internal Medicine Specialties, Geneva University Hospitals and Faculty of Medicine, Geneva, Switzerland. 6. Department of Geriatrics, CHU Liège, Liege, Belgium. 7. Division of Geriatric Medicine, Saint Louis University School of Medicine, St Louis, (USA)

P 133 • Diabetes in frail older adults: assessment of glycaemic control and prescriptions

Anne-Sophie Mange1, Cicéle Mc Cambrie1, Amena Paget1,2, Sandrine Sourdert1, Anne Ghisolfi1, Bruno Vellas1, Philippe Cestac1,2 (1) Centre Hospitalier Universitaire de Toulouse, Toulouse, France; (2) Inserm UMR1027, Université de Toulouse III Paul Sabatier, Toulouse, France

P 134 • Prevalence of frailty in older adults with Rheumatoid Arthritis

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P 135 • Relationship between predictive risk factors for oropharyngeal dysphagia and dysphagia in cardiovascular disease

Tatiana Magalhães de-Almeida De-Abordo Livia Gomes Isabela Mota Maria Jose dos Santos Robertha G Silva Fauso Feres Carlos Daniel Magalhães Instituto diante pazzanese de cardiology constantino de sousa (Brazil)
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-Viera (1), Norberto Menendez (2), Benjamin C. Amick III (3) (1) Department of Physical Therapy, Florida International University, Miami, FL, USA 2. LifeWallet, Miami, FL, USA 3. Department of Health Policy and Management, Florida International University, Miami, FL, USA

P 150 • Accelerated Aging in Older Persons with HIV Infection
Arlinda Dang, DO1, Mary Goodyear, MS41, Victor Tran, M.S,1, Amalnun Acheeva, PhD1, Raymond Ovandy, MD1. PhD1 (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...
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P 152 • Does Implicit Ageism Predict Frailty in Older Veterans?
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P 153 • Tobacco use and its association with frailty
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P 154 • Testing the Pictorial Fit-Frail Scale in Canada and Malaysia
Olaa Theo, PhD1, Lisa McCarron1, PhD1, Sandy Suliani Ahj1, MMED2, Emma Squires, BAI1, Lindsay Wallace, MSc1,5, Saslina Shariff1, PhD2, Renuka Vusavanathan, PhD4, Kenneth Rockwood, MD1. (1) Geriatric Medicine, Dalhousie University and Nova Scotia Health Authority, NS, Canada (2) Sarawak State Health Department, Ministry of Health, Malaysia (3) Family Medicine, Universiti Putra, Malaysia (4) National Health and Medical 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
Nadia M. Chu, PhD MPH (1, 2), Allen L. Gross, PhD, MHS (1, 3), Ashton A. Shaffer BA (1, 2), Christine E. Hauguen MD (2), Silas P. Norman, MD (4), Qian-Li Xue, PhD (1, 5), A. Richey Sharrett, MD, MPH (1, 6), Michelle Carlson, PhD (1, 7), Karen Bandeen-Roche, PhD (8), Dorry L. Segev, MD, PhD (1, 2), Mara A. McDermott-DeMarco, PhD (1, 2) (1) Department of Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD, (2) Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD, (3) Department of Mental Health, Johns Hopkins School of Public Health, Baltimore, MD, (4) Department of Internal Medicine, Division of Nephrology, University of Michigan School of Medicine, Ann Arbor, MI, (5) Division of Geriatric Medicine and Gerontology, Johns Hopkins School of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD, (6) 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
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P 157 • Frailty profile of patients referred to a secondary care Frailty Clinic by Family Medicine Physicians
Karina Pirreri PhD1, Marco Elo1 Colombo Filho1, Paulo Ferdinandes Romighien MD PhD1, Anderson Marklen Navarro PhD1, Fernando Pinheiro Amador dos Santos Pessanha PhD1, Nereida Kilda da Costa Lima MD PhD1, Julio Cesar Morogi MD PhD1, Eduardo Ferrari MD PhD1. (1) Department of Medicine,Ribere Peto Medical School (Brazil)

P 158 • The Transition of frailty status and its Influencing Factors in community-dwelling Pre-diabetic and diabetic older population: a prospective cohort study
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P 159 • Frailty in Hospitalized Patients with Atrial Fibrillation
Shivam Praydeesh*, Resident physician, Avenida Hospital and Medical Center Ramanukam Anam, Research fellow, Avenida Hospital and Medical Center Carmen Cartwright, Resident physician, Avenida Hospital and Medical Center Miriam Zylbergil Lizigos, MD, Avenida Hospital and Medical Center (USA)

P 160 • Streamlining Frailty Assessment in Clinical Practice: The Fit-Frailty “App”
Courtney C. Kennedy*,1,2, George Ioannidis1,2, Alexandra Papaioannou1,2, Jonathan D. Adachi1,2, Sharon Marx1,2, Ahmed Negm2, Patricia Hewston2, Kenneth Rockwood3 (1) McMaster University, Department of Medicine, Hamilton, Canada (2) GERSAT Centre for Aging Research, Hamilton, Canada (3) Dalhousie University, Department of Medicine, Halifax, (Canada)

P 161 • Social frailty as an important risk factor for adverse health outcomes in older adults: findings from an eight-year follow-up population-based cohort study
Lina MLo, Zhe Tang, Fei Sun, Yun Li, Piu Chan Department of Geriatrics, XuanZhou Hospital, Capital Medical University, China National Clinical Research Center for Geriatric Medicine, Beijing, (China)

P 162 • Frailty and associated risk factors
Blanca Gonzalez Garcia MN1, Daniel Gámez Treviño MD, Ricardo Salinas Martinez MD, Fernando Diaz Gonzalez MS-V1, Patricia Guerrero Garza, Javier Dávila Olade MD, Francisco Barrera-Flores MS-VI, Patricia Ancer Rodriguez MCE Geriatrics Service University Hospital UANL, Monterrey NL, (Mexico)

P 163 • Subjective weakness as predictor of frailty
Ronald Camilo Gómez1,2,3, Miguel Germán Borda 1,4, Elkín García-Chimantac1, Miguel Ulises Pérez-Zepeda 1,5,1. Semillero de Neurociencias y envejecimiento, Instituto de Envejecimiento, Facultad de Medicina, Pontificia Universidad Javeriana, Bogotá, Colombia 2. Hospital Cardiovascular del Niño de Condinamurac, Soacha, Colombia. 3. Clínica del Country, Bogotá, Colombia 4. Centre for Age-Related Medicine (SESAM), Stavanger University Hospital, Stavanger, Norway. 5. Geriatric Epidemiology Research Department, Instituto Nacional De Envejecimiento, Méxic (México)

P 164 • Frailty in older adults with mild dementia with heavy libido and aluminium’s disease
Miguel Germán Borda1,2, Hogne Sørensen1, Claire J. Steever3, Audun Orland VK/Mo 1,4, Ulises Pérez-Zepeda2,5, Dag Aarsland7 6. Centre for Age-Related Medicine (SESAM), Stavanger University Hospital. Stavanger, (Norway)

P 165 • Role of comprehensive geriatric assessment in predicting post-operative delirium in major orthopaedic surgery in Indian elderly
Karchima De1, MBBBS1, Dr. Sumitabh Singh, MD1, Dr. Prasun Chattopadhyay, MD1, Dr.Aparajit Bhalav Day, MD1 (1) Geriatric medicine department, All India institute medical science, New delhi (India)

P 166 • Sarcopenia in elderly people in cardiology hospital
Ana Margarid Acosta Farias Siqueira, Naturalia Oliveira, Rita de Cássia Aquino, Daniela França Gomes, Maria José dos Santos, Isabela Cardoso Pimentel Mota, Fausto Feres, Carlos Daniel Magnoni

P 167 • A systematic approach to prescribe post-hospitalization home-based physical activity for mobility: the PATH Study
Myléne Aubertin Leheudre1,2, L.P. Carvalho 1,2, A. Boulva 1, M.-J. Kergoat 1,3,4 1 Centre de recherche, Institut universitaire de gériatrie de Montréal (IUGM). CIUSSS du Centre-Sud-de-l’Île-de-Montréal; 2 Département des sciences de l’activité physique, Faculté des sciences, Université du Québec à Montréal (UQAM); 3 Institut universitaire de gériatrie de Montréal, CIUSSS du Centre-Sud-de-l’Île-de-Montréal; 4 Faculté de médecine, Université de Montréal, (Canada)

P 168 • Lack of Social Support as a Risk Factor of Physical Frailty in Older Adults Living in Rural Communities of Peruvian Andes
Andes E. Paredes, MD, MPH (1), Fernando M. Ríos-Correa-Colmenares MD, MA (1) (1) Universidad de San Martin de Pones, Facultad de Medicina Humana, Centro de Investigacion del Envejecimiento (CIEN), Lima, (Peru)

P 169 • Parameters associated with the refusal to participate in a physical exercise program after hospital discharge in older adults
Jon Irazusta 1, Ana Rodriguez-Lanaria1,2, Chak Echezee1, Julen Gomez1, Maria Amasene2, Cristina Alonzo3, Aranuda Begaud, Miriam Urquiza1 1. Department of Physiology, University of the Basque Country, Spain.2. Department of Pharmacy and Food Science, University of the Basque Country, Spain.3. Department of Rehabilitation and Physiotherapy, Hospital Universitario de Alava, Osakidetza, Spain. 4. Department of Internal Medicine, Hospital Universitario de Alava, Osakidetza (Spain)

P 170 • Using Administrative and Laboratory Data from the Electronic Health Record to Examine Frailty Indicators for Hospital Readmission
Deborah A. Lekan, PhD, RN-BC1, Thomas P. McGc PhD1, PSat1, Somya Mohanty, PhD2, Prashanti Manda, PhD2, Rohit Gulia, BS2 (1) University of North Carolina at Greensboro School of Nursing. Greensboro, NC, USA, (2) University of North Carolina at Greensboro Computer Science Department, Greensboro, NC, USA

P 171 • The relevance of physical frailty in geriatric mental health care; an example of late-life depression
Pradeep R. C. Udayabose, University of Groningen, University Medical Center Groningen, The Netherlands. Ols. M.H.L.Arts, University of Groningen, University Medical Center Groningen, The Netherlands. Dr. H.C. Comrij, Free University Amsterdam (VUmc), (The Netherlands)
P 199 • Effects of a short term exercise training protocol on the physical function of institutionalized frail old adults
Cristiane Batisti Ferreira (1), Gleiciane Gontijo Avellar (2), Athesa Teles Danças Maya (1), Paulo Americano do Brasil (1), Vinícius Carolino Souza (2), Ricardo Moreno Lima (3), Aparecido Pimentel Ferreira (1), Otávio Toledo Nóbrega (1). 1. Interdisciplinary Center for Research, Integrated Colleges Promove Brasília, Brasilia, Brazil 2. Graduation Program in Sciences, Medical Faculty, University of Brasília (UnB), Brasilia, Brazil 3. Graduation Program in Physical Education, University of Brasília (UnB), Brasilia, Brazil

P 200 • Low-intensity exercise suppresses myostatin pathway through androgen receptor in muscle cells
Re-Kuang Soo (1), Yuki Ishida (1), Masaaki Akihisa (1) Department of Geriatrics, University of Occupational and Environmental Health, Japan

P 201 • Effects of a center and a home + center-based exercise program in prefrail older women
Sabinie Naya Costa (1), Edgar Ramos Vieira (2), Rylen Nicole Santos de Abreu Garcia (1), Paulo Cesar Barucce Bento (1) 1. Graduate Program in Physical Education, Federal University of Parana, Curitiba, PR, Brasil 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 adults: preliminary results
Larissa Bastos Tavares (1), Idailiana Fagundes de Souza (1), Candida Simões Pimenta de Medeiros (1), Kim Mansur Yan (1), Fabrícia Azvedo da Costa Cavalcanti (1), & Edgar Ramos Vieira (2) 1. Department of Physical Therapy, Federal University of Rio Grande do Norte, Natal, RN, Brazil 2. Graduate Program in Physical Education, 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
Ksenia Dedeneva (1), Jorgen Willumsm (2), Johan Dunhot (1), Jos Tourney (1), Evelien Gienet (3), Sabine Verschueren (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 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 Echarvarria Calderon. MD * Luis Alberto Piragauta Ardila, MD **. * Resident of 3rd year of Medicine of Physical Activity and Sports, Fundación Universitaria de Ciencias de la Salud, Hospital de San José Bogotá. **Medicine of Physical Activity and Sports. Assistant Instructor - Department of Physical Activity and Sports Medicine. Fundación Universitaria de Ciencias de la Salud, Hospital de San José, Bogota (Colombia)

P 205 • Feasibility study of Electronic Lifestyle Activity Tracker (ELAT)-based intervention for managing general fatigue in community-dwelling frail older people
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P 206 • How is the physical performance according to frailty groups in older Veterans
Raquel Aparicio-Ugarriza, PhD1, 2, Marianne Turner, MD2, Michael J. Mintzer, MD2,3, Hemes Flores, MD1, PhD1, 2, Jorge G. Ruiz, MD2, MD2, A. (1) Department of Public Health Sciences, Miller School of Medicine, University of Miami, Miami, FL, 31336, USA. (2) Geriatrics Research, Education, and Clinical Center (GRECC), Veterans Affairs Healthcare System, Miami, FL, USA. (3) FIU Herbert Wertheim College of Medicine, Miami, FL, USA. (4) Department of Medicine, Miller School of Medicine, University of Miami, Miami, FL, 31336, 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-Larrad, PhD1, 2, 3, Natali Arieta MS1, 2, Jan Irazusta PhD1, Susana Maria Gil PhD1, Jose Javier Yangas PhD2, Andres Espin BSc1, Madero Rortegera PhD2, Immaculada Lora BSc1, Olga Rosado-Pardo MSc1, 2. 1. Department of Physiology, University of the Basque Country, Leioa, Bizkaia, Spain 2. Fundación Bancaria La Caixa, Programa de Mayores, Placa Weyhey, 3, 07010 Palma (Illes Baléares), 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 Eurhythmics) versus Multicomponent Exercise on Physical Function, Falls and Brain Plasticity in Older Adults: A Randomized Controlled Trial
Mélanie Haré, PhD1, Natalia Fernandez, PhD2, François Herrmann, MD3, René Rizzoli, MD1, Gabriel Gold, MD3, Patrik Vuilleumier, MD2, Andrea Trombetta, MD1,2. (1) Division of Bone Diseases, Department of Internal Medicine Specialties, Geneva University Hospitals and Faculty of Medicine, Geneva, Switzerland (2) 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
Philippe Novelle, PhD1, 2, Sami Berhaier 1, Anthony D. Karels PhD 2, Mylène Aubertin-Leheudre PhD 2, Jean-Frédéric Brun MD PhD 2, 3, 1 UFR STAPS - IRM, EA7329, UNIVERSITé PARIS DESCARTES, Paris, France 2. Département des sciences de l’activité physique, UQAM, Montréal, Canada 3. NHL Institute of Montpellier, Montpellier, France

P 211 • Effects of body mass-based resistance training, including explosive motion on muscle functions in community-dwelling elderly: A randomized controlled trial
Tomoharu Kitada, 1 Akio Inoue, 1 Hiroaki Umezaki, 2, Joji Ono, Hiroshi Akinma, 2 Koji Ishida, 3 Masahumi Kusuyama 1, 2 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 Physical Fitness, Sports & Sports Science, Nagoya University, Nagoya, Japan

P 212 • Both Neuromotor and Resistance training improve functional mobility and physical fitness in healthy older women
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P 213 • Resistance exercise program and food re-education in the control of non-transmissible chronic diseases
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OSTEOPOROSIS & FRAILTY

PHYSICAL EXERCISE
BIOLOGY

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

STEM CELL

P 215 • Effects of Mesenchymal Stem Cells Transplantation on Cognitive Deficits in Animal Models of Alzheimer’s Disease
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FUNCTIONAL ASSESSMENT

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