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)

CONFERENCE 1
RACE DEPENDENT CHANGES TO GENE EXPRESSION IN FRAIL, MIDDLE AGED ADULTS
  - Calais S. Prince PhD, Nicole Noren Hooten PhD, Nicole Mode M5, Yongqing Zhang PhD, Ngozi Ejiohu MD, Kevin Becker PhD, Alan B. Zonderman PhD, and Michele K. Evans PhD - (1) Laboratory of Epidemiology and Population Sciences, National Institute on Aging, National Institutes of Health, Baltimore, MD, USA; (2) Laboratory of Genetics and Genomics, National Institute on Aging, National Institutes of Health, Baltimore, MD, USA

CONFERENCE 2
TRANSLATING UROLITHIN A BENEFITS ON MUSCLE MITOCHONDRIA INTO HUMANS
  - A. Singh1, P. A. Andreux1, W. Blasco-Bose1, P. Aebischer1, J. Auwerx1, C. Rinsch1 - 1 Amazentis SA, Switzerland; 2 Brain Mind Institute, Ecole Polytechnique Federale de Lausanne, Switzerland; 3 School of Life Sciences, Ecole Polytechnique Federale de Lausanne, Switzerland

CONFERENCE 3
DEVELOPMENTS IN THE PATHOPHYSIOLOGIC BASIS OF FRAILTY IN TYPE 2 DIABETES AND EMERGING ROLES OF APELIN IN FUTURE CLINICAL TRIALS
  - Cedric Dray, INSERM (France); Alan Sinclair, London (UK)

CONFERENCE 4
COMPENSATORY ADJUSTMENTS IN MOTOR UNIT BEHAVIOR DURING FATIGUE DIFFER FOR YOUNGER VERSUS OLDER MEN
  - Matt S. Stock1, Jacob A. Mota1, Dennis P. Kwori1, Mary Kennedy1, Eric J. Sobolevski1, Youngdeok Kim1, Joaquin Gonzales1 - 1 University of Central Florida, Orlando, FL; 2 University of North Carolina at Chapel Hill, Chapel Hill, NC; 3 Furman University, Greenville, SC; 4 Texas Tech University, Lubbock, TX (USA)

CONFERENCE 5
IS FRAILTY ASSOCIATED WITH WORSE OUTCOMES AFTER TOTAL JOINT REPLACEMENTS?
  - Lisa A. Mandl, MD, MPH1, Charles N. Cornell, MD2, Michael B. Cross, MD1, Alejandro Gonzalez Della Valle, MD1, Mark P. Figgie, MD2, Seth A. Jerabek, MD2, Justin T. Do, BSE1, Mayu Sasaki, MPH, Nathanial Hupert, MD, MPH, Jackie Fink, MPH, Steven K. Magid, MD2 - 1 Hospital for Special Surgery, New York, NY; 2 Weill Cornell Medicine, New York, NY, USA

ORAL COMMUNICATION 1
MEMBRANE LIPID REPLACEMENT WITH ORAL NTFACTOR LIPIDS® TO RESTORE MITOCHONDRIAL FUNCTION, REDUCE FATIGUE, PAIN AND OTHER SYMPTOMS AND IMPROVE QOL INDICATORS IN AGED SUBJECTS
  - Garth L. Nicolson, PhD, MD(H)1, and Paul Breeding, DC2 - 1 Dept. of Molecular Pathology, The Institute for Molecular Medicine, Huntington Beach, CA, USA; 2 Blue Hole Wellness, San Antonio, TX, USA

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
  - Giulia Grande1, Debora Rizzuto1, Davide L Vetracone1, Anna Marsegilla1, Nicola Vanacore1, Erika Laukka1, Anna-Karin Welmer2, Laura Fratiglioni2 - 1 Aging Research Center, Department of Neurobiology, Care Sciences and Society Karolinska Institutet and Stockholm University, Stockholm, Sweden; 2 Department of Geriatrics, Catholic University of Rome, Italy; 3 National Centre of Epidemiology, National Institute of Health, Rome, Italy; 4 Stockholm Gerontology Research Center, Stockholm, Sweden
12:10/12:20  ORAL COMMUNICATION 3  
LONG TERM RATES OF CHANGE IN MUSCULOSKELETAL AGING: FINDINGS FROM THE HEALTH, AGING AND BODY COMPOSITION STUDY  
Leo Westbury, MSc, Holly Syddall, PhD, Elaine Dennison, PhD, Jane Cauley, DrPH, Tamara Harris, MD, MS, Eric Shiroma, Jr, ScD, MEd, Bret Goodpaster, PhD, Anne Newman, MD, MPH, Cyrus Cooper, FMEdSci 1, MRC Lifecourse Epidemiology Unit, University of Southampton, Southampton, UK; 2 Department of Epidemiology, University of Pittsburgh, Pittsburgh, Pennsylvania, USA 3 Laboratory of Epidemiology and Population Sciences, Intramural Research Program, National Institute on Aging, Bethesda, Maryland, USA 4 Division of Preventive Medicine, Department of Medicine, Brigham and Women’s Hospital, Harvard Medical School, Boston, Massachusetts, USA 5 Translational Research Institute for Metabolism and Diabetes, Florida Hospital, Orlando, Florida, (USA)

12:20/12:30  ORAL COMMUNICATION 4  
INTERVENTIONS TO TREAT FRAILTY: A SYSTEMATIC REVIEW AND NETWORK META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS  
Ahmed Negm 1,2, Courtney C Kennedy 1,3, Ian D Cameron 4, Lehana Thabane 5, Areti-Angeliki Veroniki, 6,7, Jonathan D. Adachi 3, Julie Richardson 2, Maria Petropoulou, Saad Alsaad, Papatheofilou 1,7,1, Geriatric Education and Research for the Aging Sciences (GERAS), St Peter’s Hospital, Hamilton ON, Canada 2 School of Rehabilitation Science, McMaster University, Hamilton, ON, Canada, 3 Department of Medicine, McMaster University, Hamilton ON, Canada 4 John Walsh Centre for Rehabilitation Research | Sydney Medical School Northern, University of Sydney, Kolling Institute | Royal North Shore Hospital | St Leonards, NSW, Australia, 5 Department of Health Research Methods, Evidence, and Impact, McMaster University, Hamilton ON, Canada, 6 Department of Primary Education, School of Education, University of Ioannina, Ioannina, Greece 7 Li Ka Shing Knowledge Institute, St. Michael’s Hospital, Toronto, Ontario, Dept of Family and Community Medicine, College of Medicine, King Saud University, Riyadh, (Saudi Arabia)

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

1:50/2:35  SYMPOSIUM 2  
NOVEL TARGETS FOR TREATING PHYSICAL AND COGNITIVE SYMPTOMS OF FRAILTY  
Moderator: Tom Buford, University of Alabama at Birmingham, Department of Medicine (USA)

• Neuroinflammation as a contributor to cognitive and physical frailty  
Yenisel Cruz-Almeida, University of Florida, Department of Aging and Geriatric Research (USA)

• Weakened skeletal muscle circadian rhythms in older adults with chronic idiopathic fatigue  
Todd Manini, University of Florida, Department of Aging and Geriatric Research (USA)

• The Gut Microbiome as a Target for Physical and Cognitive Frailty  
Tom Buford, University of Alabama at Birmingham, Department of Medicine (USA)

2:35/2:55  KEYNOTE 2  
EFFECT ON PROTEIN INTAKE ON MUSCLE MASS, PERFORMANCE AND PHYSICAL FUNCTION IN FUNCTIONALLY LIMITED OLDER ADULTS  
Chairman : Marco Pahor, Gainesville, FL,(USA)  
Shalender Bhasin, Harvard Medical School, Boston (USA)

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

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

3:55/4:40  SYMPOSIUM 3  
BIOENERGETICS OF FRAILTY: FROM THE ANIMAL MODELS TO THE HUMAN EVIDENCE  
Moderators: Leocadio Rodriguez Manas, MD, PhD, Director GARN-IAGG scientific Director of ciberfes, head of the department of geriatrics, hospital universitario de Getafe, Spain - Jose Vina, MD, PhD Society for research on free radicals (SRFR), chair, department of physiology, Universidad de Valencia, Spain

• Longitudinal Trajectories of Physical Function in Mice  
Rafael de Cabo, (NIH/NIA/IRP) National Institute of Aging, Baltimore, (USA)

• The isocaloric Ketogenic Diet reduces frailty and extends longevity in mice: potential mechanisms.  
Gino Cortopassi, Professor, Molecular Biosciences UC Davis, (USA)

• The role of bioenergetics in human frailty  
Jeremy D. Walston, MD- Raymond and Anna Lublin Professor of Geriatric Medicine Johns Hopkins Asthma and Allergy Center, Baltimore, (USA)
**ORAL COMMUNICATION 5**  Moderators: Marco Pahor, Gainesville (USA), Pierre Dilda, Paris (France)

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

Helen Kaiser, Kangjun Yu MD, Chirayu Pandya PhD, Carlos M. Isales MD, Meghan E. McGee-Lawrence PhD1, Maribeth Johnson, Sadanand Fulzele PhD, Mark W. Hamrick PhD1 1 Medical College of Georgia, Augusta University, Augusta, (USA)

**ORAL COMMUNICATION 6**

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

Petra Bozkova PhD 1, Joshua Barzily MD 2, Howard A Fink MD, MPH 3, John A Robbins MD, MPH 4, Jane A Cauley DrPH 5, Joachim Hix MD 6, Kenneth J Mukamal MD, MPH 7, 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, 3 Geriatric Research Education and Clinical Center, VA Health Care System, Minneapolis, MN, 4 Department of Medicine, University of California at Davis, Modesto, CA, 5 Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, 6 Division of Nephrology, University of California at San Diego, San Diego, CA, 7 Department of Medicine, Bethesda, MD, (USA)

**ORAL COMMUNICATION 7**

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

A Gross, Michelle C. Carlson, Mara A. McAdams-DeMarco, Dan Munagas, Eleanor Simonsick, Ravi Varadharaj, Qian-Li Xue, Jeremy Walston, Karen Bandeen-Roche, 1 Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA, 2 Department of Mental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA, 3 Department of Psychiatry, University of California, San Diego, CA, USA, 4 Department of Medicine, Division of Geriatric Medicine and Gerontology, Johns Hopkins School of Medicine, Baltimore, MD, USA, 5 Intramural Research Program, National Institute on Aging, Baltimore, Maryland, USA, 6 Division of Biostatistics & Bioinformatics, Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins School of Medicine, Baltimore, MD, USA, 7 Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (USA)

**ORAL COMMUNICATION 8**

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

Praman Fuangfa, MD, Yao Lu, ScD, Lary Yoo, MD, Karla V. Ballman, PhD, Patrick Kortebein, MD, Robert J. Canter, MD1, Leon Lenchik, MD4, Robert D. Boutin, MD2, Pramana Fuangfa, MD1, Yao Lu, ScD2, Lary Yoo, MD2, Karla V. Ballman, PhD2, Patrick Kortebein, MD2, Robert J. Canter, MD1, Leon Lenchik, MD4, Robert D. Boutin, MD2, Pramana Fuangfa, MD1, Yao Lu, ScD2, Lary Yoo, MD2, Karla V. Ballman, PhD2, Patrick Kortebein, MD2, Robert J. Canter, MD1, Leon Lenchik, MD4, Robert D. Boutin, MD2, Pramana Fuangfa, MD1, Yao Lu, ScD2, Lary Yoo, MD2, Karla V. Ballman, PhD2, Patrick Kortebein, MD2, Robert J. Canter, MD1, Leon Lenchik, MD4, Robert D. Boutin, MD2, 1 Department of Radiology, Physical Medicine and Rehabilitation, and Surgery, University of California Davis, School of Medicine, Sacramento, CA, USA, 2 Department of Healthcare Policy and Research, Weill Cornell Medical College, New York, NY, USA, 3 Intramural Research Program, National Institutes of Health, Bethesda, MD, USA, 4 Deptt of Radiology, Wake Forest School of Medicine, Winston-Salem, NC, (USA)

**ORAL COMMUNICATION 9**

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

Natalia Maira da Cruz Alves MsC1, Carolyn Anne Greig PhD2, Karina Pfrimer PhD3, Priscila Carvalho MsC3, Ellen Cristine de Freitas PhD, Thiago Neves MsC2, Juliana Cristina Lemos dos Santos Marchesi PhD, Daniela Dalpuebel Campanari MsC3, Olga Laura Sena Almeida MD, Eduardo Ferrigatti MD PhD, 1 Department of Medicine, Ribeirao Preto Medical School, University of Sao Paulo, Ribeirao Preto, SP, Brazil, 2 School of Sport, Exercise and Rehabilitation Sciences and MRC-Arthritis Research UK Centre for Musculoskeletal Ageing Research, University of Birmingham, Birmingham, UK, 3 Sao Paulo State University (Unesp), Araraquara, SP, (Brazil)

**ORAL COMMUNICATION 10**

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

Pierre Dilda, Mathilde Lati, Maria Serova, Blaise Didry-Barca, Sissi On, Stanislas Veillet, René Lafont, Biophytis, Sorbonne Université, Paris, France, 2 Sorbonne Université, UPMC Univ Paris, Paris-Seine Biology Institute (BISOIPE), CNRS, Paris, (France)

**SYMPOSIUM 4**

**A GLOBAL CALL TO ACTION TO IMPROVE CARE FOR OLDER ADULTS WITH FRAILTY FRACATURES**

Jay Magaziner on behalf of 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
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
Lifetime Achievement Award is awarded to Dr. Jack Guralnik’s for his long time contribution to the understanding of the epidemiology of age-related changes in physical functioning and disability and for his continued efforts in the promotion of sarcopenia as a clinically significant syndrome of advancing age.
Jack Guralnik, University of Maryland, Baltimore, (USA)

9:15/9:35 KEYNOTE 3
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 - POSTER SESSIONS - EXHIBITS

11:10/11:25 CONFERENCE 6 Moderators: Yves Rolland, Toulouse (France), Adelaida Palla, Stanford (USA)
THE ASSOCIATION BETWEEN MUSCLE MASS ASSESSED BY D3CR DILUTION WITH INCIDENT ADL AND IADL DISABILITY IN COMMUNITY DWELLING OLDER MEN
Peggy M. Cawthon, Terri Blackwell, Steven R. Cummings, Eric S. Orwoll, Kate A. Duchowny, Deborah Kado, Katie L. Stone, Kristine E. Ensrud, Jane A. Cauley; William J. Evans California Pacific Medical Center Alameda CA (USA)

11:25/11:40 CONFERENCE 7
DIFFERENCES IN AMINO ACID COMPOSITION BETWEEN VARIOUS TYPES OF PROTEIN SUPPLEMENTS. Nathanial Johnson BA1, Kara Trautman MS, CSCS1, Christopher Kotarsky MS, CSCS1, Nathan Dicks MS, CSCS1, 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
ALLOGENEIC BONE MARROW-DERIVED MESCNYMAL STEM CELLS AS A TREATMENT FOR AGING RELATED INDICATIONS
J Hare, Longeveron LLC, Miami, FL, (USA)

11:55/12:05 ORAL COMMUNICATION 11
SURMOUNTING THE AGED NICHE TO IMPROVE SKELETAL MUSCLE REGENERATION
Adelaida R. Palla1*, Andrew T.V. Ho1*, Ann Yang1, Colin A. Holbrook1, Peggy Kraft1, and Helen M. Blau1*Equal contribution;
1Baxter Laboratory for Stem Cell Biology, Department of Microbiology and Immunology; Stanford School of Medicine, California, (USA)

12:05/12:15 ORAL COMMUNICATION 12
DIETARY SUPPLEMENTATION WITH FISH OIL AND CURCUMIN IMPROVES GAIT SPEED AND MITOCHONDRIAL FUNCTION DURING AGING
Claire Boutry-Regard, PhD1, Laurent Mosoni, PhD2, Lydie Combaret, PhD2, Christiane Dewal1, Lenaick Dupuis, MSc1, Eugenia Migliavacca, PhD1, Gabriele Cialletta, PhD1, Jerome N. Feige, PhD2, Dominique Dardevet, PhD2, Denis Breuille, PhD21 Nestle Research, Vers-chez-les-Blanc, Lausanne 26, Switzerland
2Université 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)
ASSOCIATION BETWEEN NUTRIENT INTAKE, PHYSICAL ACTIVITY AND SARCOPENIA-RELATED 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, PhD; Byron C. Jaeger, PhD; Stephen D. Anton, PhD; Anthony A. Bavy, MD; Eileen M. Handberg, PhD; ARNP; Anna K. Piazza-Gardner, PhD; Sara A. Harper, PhD; Lisa M. Roberts, PhD; Bhanauprasad Sandesara, MD; Christy S. Carter, PhD; Thomas W. Buford, PhD

(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)
8:00/9:00  **BREAKFAST INDUSTRY SYMPOSIUM: Hosted by Longeveron**

**TRENDS IN ANTI-AGING RESEARCH AIMED AT EXTENDING THE HEALTHSPAN**

Linda P. Fried, MD, MPH Dean and Delamar, Professor of Public Health Mailman School of Public Health, Professor of Epidemiology and medicine Senior Vice President, Columbia University Medical Center, Columbia University

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

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

9:00/9:10  **ORAL COMMUNICATION 24**

Majordoros: 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 McConnaughton, PhD, Soham Al Snih, MD, PhD, Kyriakos Markides, PhD, Kyle Hackney, PhD, Ryan Bailey, PhD, OTR/L, Mark Peterson, PhD, MSc (1)

North Dakota State University, Fargo, ND, USA (2) University of Texas Medical Branch, Galveston, TX, USA (3) Washington University in St. Louis, St. Louis, USA (4) 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. Chy Ph.D MPH (2,3), Hao Ying MHS (4), Fatima Warsame BA (5), Courtenay M. Holscher MD (6), Nadeem Desai MD (7), Miranda R. Jones PhD (8), Silas P. Norman MD (9), Daniel C. Brennan MD (10), Jacqueline Garonzik-Wang MD PhD (11), Jeremy D. Walsh MD (12), Adam W. Bingaman MD (13), Dorry L. Segev MD PhD (14), Mara McAdams-DeMarco PhD (15,16), Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD. (17) Department of Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD. (18) Department of Medicine, Division of Nephrology, University of Michigan, Ann Arbor, MI. (19) Department of Medicine, Division of Nephrology, Johns Hopkins University School of Medicine, Baltimore, MD. (20) Department of Medicine, Division of Geriatrics, Johns Hopkins University School of Medicine, Baltimore, MD. (21) Department of Surgery, Methodist Specialty and Transplant Hospital, San Antonio, TX. (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 Weiying Zhang, Johns Hopkins Bloomberg School of Public Health Tricia L Nilles, Johns Hopkins Bloomberg School of Public Health Jay H Bream, Johns Hopkins Bloomberg School of Public Health Sean X Leng, Johns Hopkins School of Medicine Joseph B Margolick, Johns Hopkins Bloomberg School of Public Health (USA)

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 Rodríguez Mañas, MD, PhD, Karen Bandeen Roche, PhD (1) Benjamin Leon Center for Geriatric Research and Education, Herbert Wertheim College of Medicine, Florida International University, Miami, FL, USA. (2) Center on Aging and Health, Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore, MD, USA. (3) Department of Geriatrics, Hospital Universitario de Getafe, Madrid, Spain. (4) Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, Baltimore, (USA)

10:30/10:45  **CONFERENCE 10**

**IMPROVING MUSCLE, BONE AND MOBILITY IN OLD AGE**

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

10:45/11:15  **COFFEE BREAK - POSTER SESSIONS - EXHIBITS**
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, Liége (Belgium)
Syposium moderator: Mickaël Hiligsmann Maastricht (the Netherlands), Charlotte Beaudart Liége (Belgium)

- Welcome and introduction: Jean-Yves Regnster Liége (Belgium)
- Identification and prioritization of important outcomes for patients in sarcopenia: Charlotte Beaudart
- Results from the cross-European Discrete Choice Experiment: Mickaël Hiligsmann Maastricht (the Netherlands)
- Discussion (Leader: Fanny Buckinx Liége (Belgium)): Islene Araujo de Carvalho Geneva (Switzerland), Jurgen Bauer Heidelberg (Germany), Charlotte Beaudart, Olivier Bruyère, Jean-Yves Regnster Liége (Belgium), Cyrus Cooper Southampton (UK)

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

Conclusion: Olivier Bruyère Liége (Belgium)

COFFEE BREAK - POSTER SESSIONS - EXHIBITS

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)

ORAL COMMUNICATION 32  Moderators: Jorge Ruiz, Miami (USA), Catherine Jankowski, Aurora (USA)
BIOMARKERS OF SARCOPENIA IN VERY OLD PATIENTS WITH HIP FRACTURE
Alfonso-Jose Cruz-Jentoft MD, PhD, Carmen Sánchez-Castellano MD, PhD, Paloma Bermojo-Bescós PhD, María-Nieves Vaquero Pinto (1), Carmen Miret-Corcho (1), Sagrario Martín-Arañón PhD, (2) Geriatrics Department, Hospital Universitario Ramón y Cajal, IRyCIS, Madrid, Spain (2)

ORAL COMMUNICATION 33
SARCOPENIC OBESITY IN ASIAN POPULATIONS: INFLUENCE OF OBESITY DEFINITIONS ON PREVALENCE
AND PHYSICAL PERFORMANCE
Ezra Qi-En Khor (1), Jun-Wei Lim, MBBS, MRCP (UK), MMed (Int Med) (2), Laura Toy, MBBS, MRCP (UK), MMed (Int Med), MCF, Audrey Yeo, BMSc (3), Suzanne Yew, BSN, Yew Yoong Ding, MBBS, FAMS, FRCP (Edin), PhD (4), Wee-Shiong Lim, MBBS, MRCP (UK), MMed (Int Med), MHPEd, AGSF, FAMS (5), Lee Kong Chian School of Medicine, Singapore (2), Department of Geriatric Medicine, Tan Tock Seng Hospital, Singapore (2), Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital, Singapore (2) Department of General Medicine (Geriatric Medicine), Sengkang Hospital, (Singapore)

UREMIC MYOPATHY: DYNAPENIA, DIABESITY-ASSOCIATED SARCOPENIA & PHYSICAL FRAILTY IN DISGUISE?
David R. Sinacore PT, PhD, FAPTA (1), Daniel C. Bittel PT, PhD, DPT (2), Adam J. Bittel PT, PhD, DPT (3) Department of Physical Therapy, High Point University, High Point NC, USA (2), Center for Genetic Medicine Research, Children’s Nataional Medical Center, Washington DC, USA

MUSCLE MASS IS MAINTAINED AND BODY FAT REDUCED WITH EXERCISE IN OLDER PEOPLE AGING WITH HIV
Catherine M. Jankowski, PhD, Melissa P. Wilson, MS, Todd T. Brown, MD, PhD, Samantha MaWhinney, ScD, Kristine M. Erlandson, MD - University of Colorado College of Nursing Aurora Colorado (USA)

A RANDOMIZED CONTROLLED PILOT AND FEASIBILITY EXERCISE AND PROTEIN EFFECTIVENESS SUPPLEMENTATION STUDY SUPPORTING AUTONOMY IN COMMUNITY-DWELLING FRAIL OLD ADULTS
Agathe Daria Jadczak (1), Renuka Viswanathan (1,2), Robert Barnard (4), Natalie Lascombe-Marsh (3) National Health and Medical Research Council Centre of Research Excellence Frailty and Healthy Ageing, University of Adelaide, South Australia, Australia (2) Adelaide Geriatrics Training and Research with Aged Care (G-TRAC) Centre, Discipline of Medicine, Adelaide Medical School, University of Adelaide, South Australia, Australia (2) Aged and Extended Care Services, The Queen Elizabeth Hospital, Central Adelaide Local Health Network, Adelaide, South Australia, Australia (3) Centre for Physical Activity in Ageing (CPAA), Central Adelaide Local Health Network, Adelaide, South Australia, Australia 5 Health and Biosecurity, Common wealth Scientific Industrial Research Organisation (CSIRO), Adelaide, South Australia, Australia

EFFECT OF GASTRIC ACID SUPPRESSANTS ON RESPONSE TO A PHYSICAL ACTIVITY INTERVENTION AND MAJOR MOBILITY DISABILITY IN OLDER ADULTS: RESULTS FROM THE LIFESTYLE INTERVENTIONS FOR ELDERS (LIFE) STUDY
J Brown University of Florida Gainesville (USA), Patrick Squires, PharmD, Marco Pahor, MD, Todd Manini, PhD, Joshua Brown, PharmD, PhD (1) Department of Pharmaceutical Outcomes & Policy, University of Florida College of Pharmacy-Institute on Aging, University of Florida College of Medicine

SARCOPENIA IN OLDER ADULTS UNDERGOING TRANSCATHETER AORTIC VALVE REPLACEMENT
J Afilalo Jewish General Hospital, McGill University Montreal Quebec (Canada) Samuel Mamane MD MSc MPH, Louis Mullie MD, Matthew Ades MD, Wayne Lok Ok Cho, Nicofo Piazza MD PhD, Giuseppe Martucci MD, José A Morales MD, Dae H Kim MD ScD, Amanda Timkus MSc Jonathan Afilalo MD MSc, on behalf of the FRALITY-AVR Investigators.

END OF THE CONFERENCE
**P 40 • Impact of traiton and habitual physical activity with sarcopenia**

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

**COGNITIVE FRAILTY**

**P 45 • Frailty as a predictor of cognitive disorders: a systematic review and meta-analysis**

Marcus Kilti Boregs 1, Marco Canevelli 1, Matteo Cesari 1, Ivan Aphramian 1, 2; 1. Department of Geriatrics and Psychiatry, Ambulatorio de Alterações Comportamentais em Idosos (ACID), Faculty of Medicine, University of São Paulo (FMUSP), São Paulo, Brazil; 2. Department of Human Neuroscience, Sapienza University, Rome, Italy; 3. Fondazione (IRCCS) Ca’ Granda - Ospedale Maggiore Policlinico, University of Milan, Italy; 4. Geriatrics & Psychiatry division, Department of Internal Medicine, Faculty of Medicine of Jundiaí (Brazil).

**P 46 • The relationship between frailty and mild cognitive impairment in the elderly: a systematic review**

Natália Ongria 1,2, Centro Cezar, MD 1, Marcus Kilti Boregs, MD 1,2, Alaine Silva Santos de Siqueira, MS 1, Mônica Sanches Yassuda, PhD 1,2, Matteo Cesari, MD, PhD 3,4; 1. Department of Physical Therapy, Federal University of São Carlos (UFSCar), São Carlos, SE Brazil; 2. Department and Institute of Psychiatry, Faculty of Medicine, University of São Paulo, São Paulo, Brazil; 3. School of Arts, Sciences and Humanities, University of São Paulo, São Paulo, Brazil; 4. Department of Neurology, Faculty of Medicine, University of São Paulo, São Paulo, Brazil; 5. Fondazione (IRCCS) Ca’ Granda - Ospedale Maggiore Policlinico, University of Milan, Milan, Italy; 6. Department of Internal Medicine, Faculty of Medicine of Jundiaí, Joundiaí, (Brazil).

**P 47 • Cognitive Frailty: results from SABE Colombia Study**

Estherhna Chacón-Velasquez 1,2, Elly Moros González 1,2, L. Maria Vargas-Beltrán 1,2, Luís Carlos Venegas-Sanabria 1,2, Diego Chavarro-Carvalho 1,2, Carlos Alberto Cano-Gutiérrez 1,2; 1. Semillero de Neurociencias y Envejecimiento, Aging Institute and Faculty of Medicine, Pontificia Universidad Javeriana, Bogotá, Colombia; 2. Geriatric Unit, Hospital Universitario Sur San Ignacio and Pontificia Universidad Javeriana, Bogotá, Colombia.

**P 48 • Sex difference of the tendency of food habit of cognitive frail patient and caregiver**

Yumi Umeda-Kameyama, Kyoshi Yamaguchi, Mitsutaka Yabate, Taro Kojima, Yasuhiro Yamaguchi, Sumito Ogawa, Masahiro Akishita Department of Geriatric Medicine, The University of Tokyo (Japan)

**P 49 • Sarcopenia and cognition in the oldest old: data from the FIBRA study in other Brazilian regions**

Lina Ma, Li Zhang, Fei Sun, Yun Li, Zhe Tang Department of Geriatrics, Anhui University Hospital, Anhui Medical University, China National Clinical Research Center for Geriatric Disorders Beijing (China)

**P 51 • Could Delirium be a Manifestation of Sym pathetic Overdrive?**

Eliane de Souza, University Hospital in Limerick, Ireland and Graduate Entry Medical School School, University of Limerick, Ireland Sheilla Carnevali-University Hospital Limerick, Ireland Aine Costelloe-University Hospital Limerick, Ireland Tina Sheehy-University Hospital Limerick, Ireland Catherine Peters-University Hospital Limerick, Ireland Tina Sheehy-University Hospital Limerick, Ireland Margaret Connor-University Hospital Limerick, Ireland and Graduate Entry Medical School School, University of Limerick, Ireland.

**P 52 • Study of cognitive frailty in a health-seeking population**

Meenal Thakral Junior Resident, Pursuing MD, Avinash Chakravarty MD, Aparajit Bava Dey MD 1; 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 Vilareta Paulo 1,2, Camila Vieira de Lobo Tixeira 1,2, Amanda Vegais Sardela 1,2, Amanda Ximenes Reis 1,2, Mara Fernanda Bottino Roma 1,2; 1. Azzalino Moreno Junior 1,2, Paula Tavares Fernandes 1,2, Andrea Fattori 1,2; 1. Gerontology Program, Faculty of Medical Sciences, University of Campinas (UNICAMP) 2. Faculty of Physical Education - UNICAMP; 3. Neurology Department - UNICAMP (Brazil)

**P 54 • Imaging and frailty**

Mathieu Malais, Philippe de Souto Barroto, Yves Rolland & Bruno Vellas Gérontopôle of Toulouse (France)

**P 55 • Frailty Mediates Senility in Mexican-Americans**

Palmert BF, Royal DRI, Departments of Family & Community Medicine, Psychiatry, Medicine 1, The University of Texas Health Science Center at San Antonio and the South Texas Veterans Health Administration Geriatric Research Education and Clinical Center (GRECC)(USA)

**FUNCTIONAL ASSESSMENT**

**P 56 • Comparison of diagnostic criteria for identification of sarcopenic obesity in adults with knee osteoarthritis**

Kristine Goddard PhD,Candidate 1, Carla M. Prado, PhD, Linda J. Woodhouse, PhD, Mary Forhan, PhD 2; 1. Department of Agricultural, Food and Nutritional Science, Faculty of Agricultural, Life and Environmental Sciences, University of Alberta, Edmonton, Alberta, Canada; 2. Department of Physical Therapy, Faculty of Rehabilitation Medicine, University of Alberta, Edmonton, Alberta, Canada.

**P 57 • Evaluation of Sleep Disorders and Accompanying Factors Evaluation of Sleep Disorders and Accompanying Factors**

Banu Ozturk Turkmen, Istanbul University Istanbul Medical School Department of Internal Medicine Division of Geriatrics (Turkey)

**P 58 • Functional assessment of the workability, functional decline and frailty in the elderly subjects**

Olena Tomarevka MD, PhD, Oleksandr Polakow MD, PhD Laboratory Occupational-Labor Rehabilitation, Social gerontology and Public Health Department, Institute of Gerontology by D.F. Chebotarev of National Academy of Medical Sciences of Ukraine, Kyiv, (Ukraine).
**CLINICAL TRIALS**

**P 73 • Exercise rehabilitation in older, sarcopenic and frail patients**
Ellen Freiberges² PD PhD; Monika Siegert³ PhD; Wolfgang Kemmler⁴ Prof PhD; Cornel Sieber⁴ Prof Dr. ¹1 Friedrich-Alexander University Erlangen Nuremberg, Institute for Biomedicine of Ageing ² Institute for Medical Education (IAU); ²Hospital BarmerInnernbg Bruder Rehrberg (Germany)

**P 74 • The FORCE trial: Focus on Reducing Dose-Limiting Toxity in Colon Cancer with Resistance Exercise (RT): Baseline Functional Status**
¹Berta Caan, ²Kathryn H. Schmitz, ³Elizabeth M. Bright, ⁴Justin C. Brown, ⁵Kristin L. Campbell, ⁶Adrienne Castillo, ⁷Elizabeth M. Cependes Feliciano, ⁸Valerie S. Lee, ⁹Charles P. Quesenberry, ¹⁰Sara K. Quinn, ¹¹Barbara Steinfeld, ¹²Renata M. Winkels, ¹³Jeffrey A. Meyerhardt ¹¹Kaiser Permanente Northern California, Oakland, CA. ¹²Penn State Cancer Institute, Penn State College of Medicine, Hershey, PA. ¹³Dana Farber Cancer Institute, Boston, MA. "University of British Columbia, Vancouver, Canada. ¹⁴Indiana University School of Medicine, Indianapolis, IN (USA)

**P 75 • The effects of aerobic, resistance, and combined training for the management of frailty in older adults with subjective cognitive impairment: A randomized controlled trial**
¹Chi Hsien Huang MD, MSc²,³,⁴, Hirohiko Umezaki, MD, PhD; ²Takahiro Hayashi, PhD; ³Hiroaki Shimada, PhD; ⁴Masafumi Kuzuya, MD, PhD; ⁵Department of Family Medicine, E-Da Hospital, I-Shou University, Kaohsiung City, Taiwan ⁶School of Medicine for International Students, I-Shou University, Kaohsiung City, Taiwan ⁷Department of Preventive Gerontology, Center for Gerontology and Social Science, National Center for Geriatrics and Gerontology, Obu, Japan
**PHYSICAL FRAILITY 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 Voronska (1), MD, Carla Lambert (1), MD, Saskia Kruiskamp (1), Patrick Cherin (1), MD PhD (1): Institut de médecine et physiologie de la longévité, 4 rue de Galliera, 75116 Paris, France 1; Service de Médecine Interne 2, Bâtiment IEM3, CHU Pitié-Salpêtrière, 47 bd de l’hôpital 75013 Paris, (France)

**P 81 • Prevalence of osteo-sarcopenia and osteo-sarcopenia ambulatory subjects older than 45 years in France**
Christophe de Jaeger (1), MD, Elena Voronska (1), MD, Carla Lambert (1), MD, Saskia Kruiskamp (1), Patrick Cherin (1), MD PhD (1): Institut de médecine et physiologie de la longévité (ID1), 4 rue de Galliera, 75116 Paris, France 1; Service de Médecine Interne 2, Bâtiment IEM3, CHU Pitié-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 Corona (1), MD, Laura Zinetti (1), MD, Rossella Mancini (1), MD, Andrea Proietti (1), MD, Giuseppe Marini (1), MD, Ashwini S. Apte (1), MD, Elena Voronska (1), MD, Carla Lambert (1), MD, Saskia Kruiskamp (1), Patrick Cherin (1), MD PhD (1): Division of Geriatrics, Institute of Internal Medicine, University of Utrecht, Utrecht, The Netherlands

**P 83 • Preserved physical fitness is associated with lower 1-year mortality in frail elderly patients with a severe comorbidity burden**
K Ahlund Department of Physiotherapy, NU Hospital Group, Trollhättan, Sweden Department of Physiotherapy, NU hospital, Linköping university, Sweden, Department of Occupational Therapy and Physiotherapy, Sahlgrenska University Hospital, Gothenburg, Sweden Börje Karlsson MD, PhD: Division of Internal and Acute Medicine, NU hospital group, Trollhättan-Uddevalla, Sweden, Department of Molecular and Clinical Medicine, Institute of Medicine, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden Niklas Ekerstad MD, PhD: Department of Medical and Health Sciences, Division of Health Care Analysis, Linköping University, Linköping, Sweden, Department of Research and Development, NU Hospital Group, Trollhättan, Sweden Birgitta Öberg PhD, RPG: Department of Medical and Health Sciences, Division of Physiotherapy, Linköping University, Linköping, Sweden

**P 84 • Sarcopenia, obesity, and sarcopenic obesity prevalence and respective body composition in middle-aged women**
Edgar Ramos Vieira (1), Maria Soroco Medeiros de Morais (1), Rafaela Andrade do Nascimento (1), Mariana Carmo Apolônio Vieira (1), Mayde Andrade Moreira (1), Saisaraonia Maria Aires da Câma (1), Alvare Campos Cavalcanti Maciel (1, 2): Department of Physiotherapy, Florida International University, Miami, FL, USA. 1 Health Sciences Center, Federal University of Rio Grande do Norte, Natal, RN, Brazil. 2 Graduate Program in Physical Therapy, Federal University of Rio Grande do Norte. Federal University of Rio Grande do Norte, Natal, RN, Brazil

**P 85 • The role of bioelectrical impedance analysis (BIA) in identification of sarcopenia. comparison among different classifications**
Sara Tagliafani, PhD1, Fulvio Laurenti, MD2, Mario Pedrazzoni, MD1, Giovanni Passeri, MD1, Marcello Maggio, MD, PhD, 2, 10: Dept. of Medicine and Surgery, University of Parma, Parma, Italy 1 Frailty of Elderly Lab, Genitric Clinic Unit, University-Hospital of Parma, Parma, Italy

**P 86 • The assessment of pain in older frail sarcopenic and osteosarcopenic subjects**
Longebucco Yair (1), Tagliafani Sara (1), Adorni Elisa (1), Benedetti Chiara (1), Pessina Michelle (1), Laurenti Fulvio (1, 2), Maggio Marcello (1, 2): Dept. of Medicine and Surgery, University of Parma, Parma, Italy 2 Frailty and Multimorbidity Lab, Genitric Clinic Unit, University-Hospital of Parma, Parma, Italy

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

**P 88 • Association between skeletal muscle stem cell activity and frailty in elderly people**
Nairani Shirazi, Department of Rehabilitation, Faculty of Health Science, Nihon Fukushi University 1, Kiwako Okada, Nagoya School of Nutritional Sciences, Nagoya University of Arts and Sciences, 2 Taji Noguchi, Department of Rehabilitation, Faculty of Health Science, Nihon Fukushi University 1, Takahiro Hayashi, Faculty of rehabilitation and care, Seijoh University 1, Yuskue Suzuki, Department of Comprehensive Care Systems, Nagoya University Graduate School of Medicine (Japan)

**P 89 • Sarcopenia and Related Factors in Hospitalized Patients**
O Yilmaz (1), Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division Istanbul University Istanbul Medical Faculty, Istanbul, Turkey

**P 90 • Comparing SARC-F with SARC-Calf to screen sarcopenia in community living older adults**
G Division, Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division, Merve Oren (1, 11), Ozem Yilmaz (11), Cihan Kilic (11), Kubra Aydin (11), Mehmet Akif Karan (11) 1 Istanbul University Istanbul Medical Faculty Department Geriatrics Division, Istanbul, Turkey

**P 91 • Performance of SARC-F in Relation to Sarcopenia Definitions, Muscle Mass and Functional Measures**
Gulistan Bahat (1, 2, 3), Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division, Ozem Yilmaz (4, 5, 6), Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division, Merve Oren (7, 8), Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division, Mehmet AkifKarabakan 1, Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division, Istanbul, Turkey

**P 92 • Nutritional status, sarcopenia and frailty in nursing home residents - Prevalence and relationships**
G Favaen-Ivring Department of Neurobiology, Care science and Society, Karolinska Institutet, Stockholm, Sweden 1, 2, 3, Helena Grönstedt, Phys ther, PhD 1, Erika Fränken, Phys ther, PhD 1, 2, Åke Seiger MD, PhD 1, 2, Sofia Wikström, Occup ther, PhD 1, 2, Anders Wimo, MD, PhD 1, 2, Anne-Marie Bostrom RN, PhD 1, 2, Tommy Cederholm, MD, PhD 1, 2 Division of Neurobiology, Care science and Society, Karolinska Institutet, Stockholm, Sweden 1, 2 Division of clinical genetics, 3 Stockholm Chalmers R&D unit, Stockholm, Sweden 1, 2, Karolinska University Hospital, Stockholm, Sweden 1, 2 Division of physiotherapy 3 Division of Occupational Therapy, 4 Division of neurogeriatrics 5 Division of nursing, Department of Public Health and Caring Sciences, Division of Clinical Nutrition and Metabolism and Division of Geriatrics, Uppsala University, Uppsala, Sweden

**P 93 • The style of life and functional health of elderly participants in uniat medical health projects and quality of life**
M Faber University of the State of Sao Paulo - University of Sao Paulo - Unicamp - Sao Paulo - Brazil 1, Aline Zanatta, Maria Baeta, Ana Paula 2: Universidade do Estado do Amazonas Davi Cardoso dos Santos - Universidade do Estado do Amazonas - Amazonas - Brazil 1, 2

**P 94 • Changes in muscle mass?strength and function with age among community elderly in china? A longitudinal Study with 4 years follow-up**
Ying Zhang MD, Xiaoyan Chen MD, Xu Lin MD, Dan Qing MD, Lisha Hou PhD, Hui Wang PhD, Shan Hai PhD, Li Cao PhD, Binrong Dong PhD 1: National Clinical Research Center for Geriatrics, West China Hospital Sichuan University, Chengdu, Sichuan, China 2: Collaborative Innovation Center of Sichuan for Elderly Care and Health, Chengdu, Sichuan, China
NUTRITION AND AGING

P 96 • The influence of midlife weight change on cognitive impairment in old age: The Singapore Chinese Health Study
Hoew-Puey Koh, Mohammad Tafael Health Services and Systems Research, Duke-NUS Medical School, (Singapore)

P 97 • Vitamin D in relation to incident sarcopenia and changes in muscle parameters among older adults: the KORA-Age study
Romu Coronado (1), Ira Grill (2), Heike A. Bischoff-Ferrari (1), Uta Ferrari (1), Alexander Horsch (3), Wolfgang Koening (3), Annette Peters (4) and Barbara Tharan (4), Helmholtz Zentrum München, German Research Center for Environmental Health (GmbH), Institute of Epidemiology, Neuherberg, (5) Institute for Medical Information Processing, Biometrics and Epidemiology, Ludwig Maximilian University of Munich, Munich, (6) Centre on Ageing and Mobility, University of City and City Hospital Waid, Zurich, (7) Department of Medicine IV, University Hospital, Ludwig Maximilian University of Munich, Munich, (8) Department of Computer Science, UOT - The Arctic University of Norway, Tromsø, (9) Heart Centre Munich, Technical University of Munich, Munich; (10) DZHK (German Centre for Cardiovascular Research), Partner Site Munich Heart Alliance, Munich; (11) 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
J Corona College of Applied Sciences - University of Campinas - Grazielle M. Silva; College of Applied Sciences-University of Campinas Larissa M. Mara; College of Applied Sciences-University of Campinas Carolina N. Freiria; College of Medical Sciences- University of Campinas (Brazil)

P 99 • The role of Biological Sex on Nutritional Habits and Muscular Health among Mid-Aged, Healthy Adults
Kara Trautman MS, CSCS, (1) Christopher Kotasky MS, CSCS, (1) Nathan Dickens MS, CSCS, TSAC-F, (1) Bailee Sawyer MS, RD, (2) Steven Mitchell MD. (3) Sherry Stastny PhD, RD, CSSD, LRD1, and Kyle Hackney, PhD, CSCS, (1) Department of Health, Nutrition, and Exercise Sciences, North Dakota State University, Fargo, ND, USA; (2) Sanford Health, Fargo, ND, USA

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

P 101 • Nutritional Therapy, multiprofessional team and nutritional needs
Moto I. P.; Amane P.; Bobia L.; Santos M. J.; Kovac C.; Feres F. Magnoni C.D. Sao Paulo (Brazil)

P 102 • Alcohol and elderly sarcopenia, an underestimated problem
Alessia Medioli, (1) Walfin Colosio, (1) Annalisa Arangeli, (1) Luigina Scaglia (1) Fondazione Richiedei: geriatric acute care unit;alcohol rehab centre Fondazione Richiedei; reparto geriatria per acuti borgo regale italy Parma (Italy)

P 103 • How effective is espen criteria for nutrition screening
Oglen Yilmaz istanbul University Istanbul Medical School Department of Internal Medicine Division of Geriatrics Gulistan Bahat/Istanbul University Istanbul Medical School Department of Internal Medicine Division of GeriatricsBanu Oztu Turkmen/Istanbul University Istanbul Medical School Department of Internal Medicine Division of Geriatrics Cihan/Istanbul University Istanbul Medical School Department of Internal Medicine Division of Geriatrics Mehmet Akif Karan/Istanbul University Istanbul Medical School Department of Internal Medicine Division of Geriatrics 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 Ueno (1), Kikako Okada RD, PhD, (1), Eiji Matsushita RD, PhD, (2), Sachio Shitase RD, MS, (3), Hiroshi Shimokata MD, PhD, (4), Shosuke Satake MD, PhD, (5) Masafumi Kaya Kaya MD, PhD, (6) Graduate School of Nutritional Sciences, Nagoya University of Arts and Sciences, Nishin, Aichi, Japan (7) School of Nutritional Sciences, Nagoya University of Arts and Sciences, Nishin, Aichi, Japan (8) Section of Frailty Prevention, Department of Health and Policy, Center for Gerontology and Social Science (CGSS), National Centre for Geriatrics and Gerontology (NCGG), Obo, Aichi, Japan (9) Department of Geriatric Medicine, Hospital, NCGG, Obo, Aichi, Japan (10) Department of Community Healthcare & Geriatric Medicine School of Medicine, Nagoya University, Aichi, Japan (11) Institutes of Innovation for Future Society, Nagoya University, Nagoya, Aichi, (Japan)

P 105 • Dietary intake of various food groups and nutrients associated with frailty
Tattari Shalini, (1) Department of Health, Nutrition, and Exercise Sciences, North Dakota State University, Fargo, ND, USA; (2) Sanford Health, Fargo, ND, USA

P 106 • Food intake, nutritional status, ability to function and life quality in older adults: findings in the Power meals trial
Marka Larsson, PhD (presenting author), Susanne Kunwirk, MSc, Petra Rautakallio-Jarvinen, MSc, Terttu Nordman, MD, Jussi Lopenen, PhD, Marianne Nordblom, MSc, Harri Sievi, PhD, Merja Suominen, PhD, MD (1) Oy Karlfazer Ab Research Team, Finland (2) Pori Health and Social Services, Finland (3) Fazer Foods Oy, Finland (4) UKK Institute, Finland, (5) Society for Gerontological Nutrition in (Finland)

P 107 • Dietary Inflammatory Index is differently associated with ectopic fat deposits in overweight and obese adults
Eleonora Pigpoggioline, Carla Libranon, Federica Luisi, James R. Hober, Nito Shivappa, Michele Di Martino, Lucio Gessi, Stefania Mariangeli, Andrea Lenza, Lorenzo Mario Donini, (1) Department of Experimental Medicine, Sapienza University, Rome, Italy, (2) Department of Biomedical Sciences, University of South Carolina, Columbia, South Carolina, United States, (3) Department of Radiological Sciences, Sapienza University, Rome, Italy)

P 108 • Sarcopenic obesity and functional limitations in older Chilenes
Cecilia Albal, Carlos Marquez, Lydia Lera, Barbara Angel, Mario Moya, Patricia Arroyo - INTA university 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, MSc, (1), Jair Licio Ferreira Santos MD, PhD, (2), Fernanda Pinheiro Amador dos Santos Pessanha PhD, (3), Natália Maia da Cruz Alves MSc, (3), Karina Pfirmer PhD, (4), Renato Campos Freire Júnior PhD, (5), Priscila Giacomino Fassini PhD, (5), Nereida Kila da Costa Lima MD, PhD, (1), Julio Cesar Morinó MD, PhD, (1), Eduardo Ferriolli MD, PhD, (1), (6) Ribeirao Preto Medical School, University of Sao Paulo, Ribeirao Preto, Brazil; (7) 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 Nigerai
Jerome Abiola Olompo; Prof Emsin Dicks; Prof Jeanette Kearney; Dr Lola Otittupa (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
Sareen Gropper (1), (2), (3), (4), Maude Exantus (1), (2), (3), (4), Kelley Jackson (1), (2), (3), (4), Sean Reil (1), (2), (3), (4), Shane Spiers (1), (2), (3), (4), Melody Romano (1), (2), (3), (4), Deborah D’Arollo (1), (2), (3), (4), Andra Opalinski (1), (2), (3), (4), Ruth Tappen (1), (2), (3), (4), Edgar Ramos Vieira (1), (2), (3), (4), Christine E Lyon College of Nursing, Florida Atlantic University, Boca Raton, FL, USA (5) Medical School, St. George’s University, Grenada, West Indies (6) Charles E Schmidt College of Science, Florida Atlantic University, Boca Raton, FL, USA (7) Department of Physical Therapy, Florida International University, Miami, FL, USA

P 112 • Effects of nutritional supplementation (synbiotics or glutamine) on the systemic inflammatory response and some consequences on body composition in elderly: a randomized clinical trial
Marcus Vinicius LQaresma, MSc, (1), João Valentinetti-Neto, MSc, (1), Camila Maria de Melo, PhD, (1), Sandra ML 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 Margarete Nascimento Gomes Farias Soares, Ana Paula Aparecida Rodrigues Assunção, Fabiana Ferreira da Silva, Camila Regina Leite de Campos, Isabela Cardoso Pimentel, Maria José dos Santos, Fausto Feres, Carlos Daniel Magnoni Sao Paulo (Brazil)
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**OSTEOPOROSIS & FRAILTY**

**P 197 • The Effect of BPA on Bone Mineral Density(BMD) in Rats**

HyunYak Kang, MD, DanEum Nam, MD, HongKii Kang M.D. Department of Orthopedic surgery, wonkwang university hospital, Iksan, (Korea)

**P 198 • The Relationship between the FRAX® and Brazil NOGG Platforms Results and the Bone Densitometry as a Complement Tool in the Evaluation of Fracture Risk in One City of the South of Brazil**

Claudia Caprino Vitali Heliuana, MD, MSC, Gabriela Keller, MD, Luan Pedro Santos Rocha, Edson Rodrigues Garcia Filho, Isadora Zaniboni, Maria Eduarda Scherer Costi, MarIvan Ferlito, MD, Geriatric Department, Medicine School, UNESC Universidade do Extremo Sul Catarinense, Criciuma, SC, Brazil • Medicine’s Student, Medicine School, UNESC Universidade do Extremo Sul Catarinense, Criciuma, SC, Brazil • Medicine School, UNESC Universidade do Extremo Sul Catarinense, Criciuma, SC, Brazil

**PHYSICAL EXERCISE**

**P 200 • Low-intensity exercise suppresses myostatin pathway through androgen receptor in muscle cells**

Jose-rodriguez Soares, MD, PhD, Elton Esteves, MD, Phd, Joa purchases, MD, Phd, Cesar de Araujo Garcia, MD, Antonina Ferrau, MD, Phd, and Paulo Cesar Barbosa, MD, Phd • Gradrate Program in Physical Education, Federal University of Paraná, Curitiba, PR, Brazil

**P 201 • Effects of a center and a home + center-based exercise program in pre-frail older women**

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**P 202 • Comparison of the physical work capacity and the muscular-skeletal mass index before and after a supervised and controlled training program once a week for six months**

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**P 203 • A new algorithm to monitor physical activity and compliance to a home-based exercise program in (pre)sarcopenic elderly**

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**P 204 • How is the physical performance according to frailty groups in older Veterans?**

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

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**P 207 • Effects of a simultaneous dual-task multicomponent program on physical, cognitive and dual-task performance: the Aging-O NdUAL-TASK study**

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**P 208 • Effects of Music-based Multitask Exercise (Jaques-D alcroze Eurhythm ics) versus Multicomponent Exercise on Physical Function, Falls and B rain Plasticity in Older Adults**

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**P 209 • A short term exercise training protocol on the physical function of institutionalized frail older adults**

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**P 210 • Insulin resistant older obese women are better responders to resistance training**

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**P 211 • Effects of body mass-based resistance training, including explosive motion on muscle functions in community-dwelling elderly: A randomized controlled trial-quick report**

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**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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**BIOLOGY**

**P 214 • Transformation of mature osteoblasts into bone lining cells and RNA-seq based transcriptome profiling of mouse bone during mechanical unloading**

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**STEM CELL**

**P 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**

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