ICFSR 2019
International Conference on Frailty & Sarcopenia Research
February 20–22, 2019 • Miami Beach, USA

Preliminary program

LATE CALL FOR ABSTRACTS
January 2–14, 2019

All abstracts and proceedings will be published in the Journal of Frailty and Aging. JFA is indexed in PubMed/Medline.

www.icfsr.com
Welcome

Marco PAHOR (Gainesville, USA), Bruno VELLAS (Toulouse, France), Jorge RUIZ (Miami, USA), Matteo CESARI (Roma, Italy), Roger FIELDING (Boston, USA)

Keynote 1

DO-HEALTH TRIAL  Chairman : B.Vellas, Toulouse France
Heike Bishoff Ferrari, Zurich University, Switzerland

Symposium 1

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS) INITIATIVES TO IMPROVE FUNCTION, PROMOTE HEALTHY AGING AND INDEPENDENT LIVING AMONG OLDER ADULTS
Symposium moderator and affiliations: 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 PhD1, Nicole Noren Hooten PhD1, Nicolle Mode MS1, Yongqing Zhang PhD2, Ngozi Ejiogu MD1, Kevin Becker PhD2, Alan B. Zonderman PhD1, and Michele K. Evans PhD1 - (1) Laboratory of Epidemiology and Population Sciences, National Institute on Aging, National Institutes of Health, Baltimore, MD, USA - (2) Laboratory of Genetics and Genomics, National Institute on Aging, National Institutes of Health, Baltimore, MD, USA

Conference 2

TRANSLATING UROLITHIN A BENEFITS ON MUSCLE MITOCHONDRIA INTO HUMANS
A. Singh (1), P. A. Andreux (1), W. Blanco-Bose (1), P. Aebischer (2), J. Auwerx (3) C. Rinsch (1) - (1) Amazentis SA, Switzerland (2) Brain Mind Institute, Ecole Polytechnique Federale de Lausanne, Switzerland (3) School of Life Sciences, Ecole Polytechnique Federale de Lausanne, Switzerland

Conference 3

ALLOGENEIC BONE MARROW-DERIVED MESENCHYMAL STEM CELLS AS A TREATMENT FOR AGING RELATED INDICATIONS
J Hare, Longeveron LLC: Miami, FL, USA

Conference 4

COMPENSATORY ADJUSTMENTS IN MOTOR UNIT BEHAVIOR DURING FATIGUE DIFFER FOR YOUNGER VERSUS OLDER MEN
Matt S. Stock1, Jacob A. Mota2, Dennis P. Kwon1, Mark Kennedy1, Eric J. Sobolewski3, Youngdeok Kim4, Joaquin Gonzales4 - 1University of Central Florida, Orlando, FL - 2University of North Carolina at Chapel Hill, Chapel Hill, NC 3Furman University, Greenville, SC 4Texas Tech University, Lubbock, TX

Conference 5

IS FRAILTY ASSOCIATED WITH WORSE OUTCOMES AFTER TOTAL JOINT REPLACEMENTS?
Lisa A. Mandl, MD, MPH [1][2]; Charles N. Cornell, MD [1][2]; Michael B. Cross, MD [1][2]; Alejandro Gonzalez Della Valle, MD [1][2]; Mark P. Figgie, MD [1][2]; Seth A. Jerabek, MD [1][2]; Justin T. Do, BSE [1]; Mayu Sasaki, MPH [1]; Nathaniel Hupert, MD, MPH [2]; Jackie Finik, MPH [1]; Steven K. Magid, MD [1][2] [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 ORAL
Giulia Grande1; Debora Rizzuto1; Davide L Vetrano1,2; Anna Marseglia1; Nicola Vanacore3; Erika Laukka1, Anna-Karin Welmer1; Laura Fratiglioni1,4 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

ORAL COMMUNICATION 3
LONG TERM RATES OF CHANGE IN MUSCULOSKELETAL AGING: FINDINGS FROM THE HEALTH, AGING AND BODY COMPOSITION STUDY
Leo Westbury, MSc1, Holly Syddall, PhD1, Elaine Dennison, PhD1, Jane Cauley, DrPH2, Tamara Harris, MD, MS3, Eric Shihroma, Jr, ScD, MED4, Bret Goodpaster, PhD5, Anne Newman, MD, MPH2, Cyrus Cooper, FMedSci1 (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) School of Public Health, University of North Carolina, Chapel Hill, North Carolina, USA - (5) Translational Research Institute for Metabolism and Diabetes, Florida Hospital, Orlando, Florida, USA

ORAL COMMUNICATION 4
INTERVENTIONS TO TREAT FRAILTY: A SYSTEMATIC REVIEW AND NETWORK META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS
Ahmed Negm1,2, Courtney C Kennedy1,3, Ian D Cameron4, Lehana Thabane5, Areti-Angeliki Veroniki6,7, Jonathan D. Adachi3, Julie Richardson2, Maria Petropoulou6, Saad Alsaad8, Papaioannou1,3 1. Geriatric Education and Research for the Aging Sciences (GERAS), St Peter’s Hospital, Hamilton ON, Canada 2. School of Rehabilitation Science, McMaster University, Hamilton, ON, Canada, 3. Department of Medicine, McMaster University, Hamilton ON, Canada, 4. John Walsh Centre for Rehabilitation Research | Sydney Medical School Northern, University of Sydney, Kolling Institute | Royal North Shore Hospital | St Leonards, NSW, Australia 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, Department of Family and Community Medicine, College of Medicine, King Saud University, Riyadh, Saudi Arabia

LUNCH BREAK – POSTERS

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

KEYNOTE 2
EFFECT ON PROTEIN INTAKE ON MUSCLE MASS, PERFORMANCE AND PHYSICAL FUNCTION IN FUNCTIONALLY LIMITED OLDER ADULTS
Chairman: M Pahor, Gainesville, FL, USA
Shalender Bhasin, Harvard Medical School, Boston USA
2:55/3:25  
**COFFEE BREAK – POSTERS**

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

3:55/4:40  
**SYMPHOSIUM 3**  
BIOENERGETICS OF FRAILTY: FROM THE ANIMAL MODELS TO THE HUMAN EVIDENCE  
Symposium moderator and affiliations: 1) Leocadio Rodriguez Manas, MD, PhD, Director GARN-IAGG scientific Director of ciberes, head of the department of geriatrics, hospital universitario de Getafe, Spain - 2) Jose Vina, MD, PhD Society for research on free radicals (sfr), 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 1089 Veterinary Medicine Drive UC Davis, 95616

- **The role of bioenergetics in human frailty**  
  Jeremy D. Walston, M.D.- Raymond and Anna Lublin Professor of Geriatric Medicine Johns Hopkins Asthma and Allergy Center

4:40/4:50  
**ORAL COMMUNICATION 5**  
INHIBITION OF KYNURENINE PRODUCTION PROTECTS SKELETAL MUSCLE FROM THE AGE-RELATED LOSS OF MASS AND STRENGTH.  
*Helen Kaiser 1, Kanglun Yu MD1, Chirayu Pandya PHD1, Carlos M. Isales MD1, Meghan E. McGee-Lawrence PHD1, Maribeth Johnson1, Sadanand Fulzele PHD1, Mark W. Hamrick PHD1 (1) Medical College of Georgia, Augusta University, Augusta, GA 30912, 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 3, John A Robbins MD, MPH 4, Jane A Cauley DrPH 5, Joachim H Ix MD 6, Kenneth J Mukamel 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, School of Public Health, University of Pittsburgh, Pittsburgh, PA 6. Division of Nephrology, University of California at San Diego, San Diego, CA 7. Department of Medicine, Beth Israel Deaconess Medical Center, Brookline, MA*

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. Carlson2, Mara A. McAdams-DeMarco1, Dan Mungas3, Eleanor Simonsick4,5, Ravi Varadhan6, Qian-Li Xue1,4,7, Jeremy Walston4, Karen Bandeen-Roche7 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 Care 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, MD1, Yao Lu, ScM2, Larry Yao, MD3, Karla V. Ballman, PhD2, Patrick Kortebein, MD1, Robert J. Cantor, MD1, Leon Lenchik, MD4, Robert D. Boutin MD1 (1) Departments of Radiology, Physical Medicine and Rehabilitation, and Surgery, University of California Davis, School of Medicine, Sacramento, CA, USA (2) Department of Healthcare Policy and Research, Weill Cornell Medical College, New York, NY, USA (3) Radiology and Imaging Sciences, National Institutes of Health, Bethesda, MD, USA (4) Department 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 PhD1, Priscila Carvalho MSc 3, Ellen Cristine de Freitas PhD3, Thiago Neves MSc 1, Juliana Cristina Lemos dos Santos Marchesi PhD1, Daniela Dalpuebel Campanari MSc 1, Olga Laura Sena Almeira MD1, Eduardo Ferrioli MD PhD1.
(1) Department of Medicine, Ribeirao Preto Medical School, University of Sao Paulo, Ribeirao Preto, SP, Brazil
(2) School of Sport, Exercise and Rehabilitation Sciences and MRC-Arthritis Research UK Centre for Musculoskeletal Ageing Research, University of Birmingham, Birmingham, UK
(3) Sao Paulo State University (Unesp), Araraquara, SP, Brazil

ORAL COMMUNICATION 10
SARCONeos (API BIO101) TARGETS MAS RECEPTOR WITHIN THE PROTECTIVE ARM OF THE RENIN ANGIOtENSIN SYSTEM AND PROVES EFFICACY IN VARIOUS MODELS OF MUSCLE WASTING
Pierre Dilda1, Mathilde Latil1, Maria Serova1, Blaise Didry-Barca1, Sissi On1, Stanislas Veillet1, René Lafont2 1 Biophytis, Sorbonne Université, BC9, 4 place Jussieu, 75005 Paris, France 2 Sorbonne Université, UPMC Univ Paris 06, Paris-Seine Biology Institute (BIOSIPE), CNRS, 75005 Paris, France

ORAL COMMUNICATION 11 • LATE BREAKING NEWS

ORAL COMMUNICATION 12 • LATE BREAKING NEWS
8:30/8:40  ORAL COMMUNICATION 13 • LATE BREAKING NEWS

8:40/8:50  ORAL COMMUNICATION 14 • LATE BREAKING NEWS

8:50/9:00  ORAL COMMUNICATION 15 • LATE BREAKING NEWS

9:00/9:15  PRESENTATION OF THE ICFSR LIFETIME ACHIEVEMENT AWARD
Jack Guralnik, Philadelphia, USA

9:15/9:35  KEYNOTE 3
INTRINSIC CAPACITY
Matteo Cesari, University of Milan (Milan, Italy)

9:35/10:05  SYMPOSIUM 4
THE ROLE OF MITOCHONDRIAL FUNCTION IN CONDITIONS OF ACCELERATED AGING: IMPLICATIONS FOR NUTRITIONAL THERAPY
Chairman : R. Fielding, Boston, MA, USA

10:05/10:25  KEYNOTE 4
Chairman : R. Fielding, MA, USA
BIOMARKER AND BIOLOGY OF FRAILTY
Jeremy Walston, Johns Hopkins University, Baltimore, USA

10:25/10:55  COFFE BREAK – POSTERS

10:55/11:10  CONFERENCE 6
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

11:10/11:25  CONFERENCE 7
DIFFERENCES IN AMINO ACID COMPOSITION BETWEEN VARIOUS TYPES OF PROTEIN SUPPLEMENTS.
Nathaniel Johnson BA1, Kara Trautman MS, CSCS1, Christopher Kotarsky MS, CSCS1, Nathan Dicks MS, CSCS, TSAC-F1, Kyle Hackney, PhD, CSCS1, and Sherri Stastny PhD, RD, CSSD, LRD1.(1) Department of Health, Nutrition, and Exercise Sciences, North Dakota State University, Fargo, ND, USA

11:25/11:40  CONFERENCE 8
DEVELOPMENTS IN THE PATHOPHYSIOLOGIC BASIS OF FRAILTY IN TYPE 2 DIABETES AND EMERGING ROLES OF APELIN IN FUTURE CLINICAL TRIALS
Alan Sinclair, Kings College, London and Diabetes Frail, UK

11:40/11:50  ORAL COMMUNICATION 16
SURMOUNTING THE AGED NICHE TO IMPROVE SKELETAL MUSCLE REGENERATION
Adelaïda R. Palla*,1, Andrew T.V. Ho*,1, 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

11:50/12:00  ORAL COMMUNICATION 17
DIETARY SUPPLEMENTATION WITH FISH OIL AND CURCUMIN IMPROVES GAIT SPEED AND MITOCHONDRIAL FUNCTION DURING AGING
Claire Boutry-Regard, PhD 1, Laurent Mosoni, PhD 2, Lydie Combaret, PhD 2, Christiane Deval 2, Lenaick Dupuis, MSc 1, Eugenia Migliavacca, PhD 3, Gabriele Civitella, PhD 3, Jerome N. Feige, PhD 3, Dominique Dardevet, PhD 2, Denis Breuille, PhD 11 Nestle Research, Vers-chez-les-Blanc, Lausanne 26, Switzerland ; 2 Universite Clermont Auvergne, INRA, UNH, CRNH Auvergne, Clermont-Ferrand, France; 3 Nestle Research, EPFL Innovation Park, 1Lausanne, Switzerland

12:00/12:10  ORAL COMMUNICATION 18
PREDICTING ONSET, PREVALENCE AND MORTALITY IN MALE AND FEMALE MICE USING THE MOUSE FRAILTY PHENOTYPE
J Thompson, Dongmin Kwak, Boston University Cory Baumann, University of Minnesota
SYMPOSIUM 6
OSTEOSARCOPENIA: ENOUGH EVIDENCE FOR A DISTINCT ENTITY?
Symposium moderator: Islene Araujo de Carvalho, Roger Fielding.
• Welcome and introduction: Jean-Yves Reginster
• Osteosarcopenic obesity: Facts and evidence supporting a distinct entity: Jurgen Bauer
• Osteosarcopenic obesity: Lack of evidence supporting a distinct entity: Alfonso Cruz Jentoft
• Discussion (Leader: René Rizzoli): Islene Araujo de Carvalho, Jurgen Bauer, Olivier Bruyère, Cyrus Cooper, Alfonso Cruz Jentoft, Roger Fielding, Jean-Marc Kaufman, Médéa Locquet, Jean-Yves Reginster.
• Conclusion: Cyrus Cooper

ORAL COMMUNICATION 21
COMPARAISON OF HIGH-INTENSITY INTERVAL TRAINING AND MODERATE-INTENSITY CONTINUOUS TRAINING ON PHYSICAL AND FUNCTIONAL CAPACITIES IN OBESE OLDER ADULTS
Aubertin-Leheudre M, Carvalho LP, 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 22
FRAILTY AMONG PATIENTS WITH ACUTE MYOCARDIAL INFARCTION
Abdulla A. Damluji, Karen Bandeen-Roche, Daniel E. Forman, Gary Gerstenblith, Jin Huang, Mauro Moscucci, Jon R. Resar, Ravi Varadhan, Jeremy D. Walston, Jodi B Segal Johns Hopkins University Baltimore MD USA

ORAL COMMUNICATION 23
CHANGE IN METABOLIC AND INFLAMMATORY BIOMARKERS AFTER A 24-WEEK MULTIMODAL INTERVENTION DESIGNED TO IMPROVE FUNCTIONAL STATUS IN HYPERTENSIVE OLDER ADULTS: A PILOT RANDOMIZED CONTROLLED TRIAL
Liliana C. Baptista, PhD1, Byron C. Jaeger, PhD2, Stephen D. Anton, PhD3, Anthony A. Bavry, MD4, Eileen M. Handberg, PhD, ARNP4, Anna K. Piazza-Gardner, PhD3, Sara A. Harper, PhD1, Lisa M. Roberts, PhD1, Bhanuprasad Sandesara, MD3, Christy S. Carter, PhD1, Thomas W. Buford, PhD1- (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

ORAL COMMUNICATION 24
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, MD3, Bruno Vellas, MD4, René Rizzoli, MD5, Gregor Freyßtätter, MD1,2, Heike A. Bischoff-Ferrari, MD,DrPH1,2 for the DO-HEALTH investigators

ORAL COMMUNICATION 25
ASSOCIATION BETWEEN NUTRIENT INTAKE, PHYSICAL ACTIVITY AND SARCOPENIA-RELATED GENE-PROMOTOR DNA METHYLATION
Lingxiao He MS1,2, Praval Khanal MS1,2, Christopher I Morse PhD2, Martine Thomis PhD1 (1) Department of Movement Sciences, KU Leuven, Leuven, Belgium (2) Department of Exercise and Sport Science, Manchester Metropolitan University, Crewe, UK

ORAL COMMUNICATION 26
USING SOCIALLY ASSISTIVE ROBOTS FOR MONITORING AND PREVENTING PHYSICAL FRAILTY AMONG OLDER ADULTS: A STUDY ON USABILITY AND USER EXPERIENCE
Lex van Velsen1,2, Richelle A.C.M. Olde Keizer1, Mathieu Moncharmont3, Brigitte Riche3, Nadir Ammour3, Gianluca Zia4,5, Hermie Hermens1,2, Aurèle N’Dja3 and Susanna Del Signore5 1 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, United Kingdom

ORAL COMMUNICATION 27 • LATE BREAKING NEWS

ORAL COMMUNICATION 28 • LATE BREAKING NEWS
8:00/9:00 BREAKFAST INDUSTRY SYMPOSIUM Hosted by LONGEVERON
Joshua M. Hare, MD - Co-Founder & Chief Science Officer, Longeveron LLC
Pinchas Cohen, MD - Dean, USC Leonard Davis School of Gerontology
S. Jay Olshansky, Ph.D. School of Public Health University of Illinois at Chicago Division of Epidemiology and Biostatistics

9:00/9:10 ORAL COMMUNICATION 29
THE BURDEN OF AUTONOMOUS LIVING AND BASIC SELF-CARE DISABILITY FOR AGING ADULTS IN THE UNITED STATES: DISABILITY-ADJUSTED LIFE YEARS
Ryan McGrath, PhD1, Soham Al Snih, MD, PhD2, Kyriakos Markides, PhD2, Kyle Hackney, PhD1, Ryan Bailey, PhD, OTR/L3, Mark Peterson, PhD, MS4 (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 30
MULTICENTER COHORT STUDY OF FRAILTY AND ACCESS TO KIDNEY TRANSPLANTATION
Christine E. Haugen MD (1), Nadia M. Chu PhD MPH (1, 2), Hao Ying MHS (1), Fatima Warsame BA (1), Courtenay M. Holscher MD (1), Niraj M. Desai MD (1), Miranda R. Jones PhD (2), Silas P. Norman MD (3), Daniel C. Brennan MD (4), Jacqueline Garonzik-Wang MD PhD (1), Jeremy D. Walston MD (5), Adam W. Bingaman MD (6), Dorry L. Segev MD PhD (1, 2) (1) Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD, (2) Department of Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD, (3) Department of Medicine, Division of Nephrology, University of Michigan, Ann Arbor, MI, (4) Department of Medicine, Division of Nephrology, Johns Hopkins University School of Medicine, Baltimore, MD, (5) Department of Medicine, Division of Geriatrics, Johns Hopkins University School of Medicine, Baltimore, MD, (6) Department of Surgery, Methodist Specialty and Transplant Hospital, San Antonio, TX.

9:20/9:30 ORAL COMMUNICATION 31
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 School of Medicine Joseph B Margolick, Johns Hopkins Bloomberg School of Public Health

9:30/10:15 SYMPOSIUM 7
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
• Disparate Measurement as well as Status? Frailty Criteria Manifest Differently in Blacks and Whites
  Karen Bandeen-Roche, PhD. Johns Hopkins Bloomberg School of Public Health
• 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
• 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

10:15/10:30 CONFERENCE 9
DISTINGUISHING AMONG DYNAPENIA WITHOUT FRAILTY, FRAILTY WITHOUT DYNAPENIA, AND FRAILTY WITH DYNAPENIA: IS IT CLINICALLY RELEVANT?
Paulo H. M. Chaves, MD, PhD1, Qian-Li Xue, PhD2, Leocadio Rodriguez Mañas, MD, PhD3, Karen Bandeen Roche, PhD4. (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
Gustavo Duque, MD, PhD, FRACP, FGSA Professor and Chair of Medicine – Western Health Director – Australian Institute For Musculoskeletal Science (AIMSS) President – Australian and New Zealand Society for Sarcopenia and Frailty Research
10:45/11:15 COFFE BREAK – POSTERS

11:15/11:30 CONFERENCE 11
ROLE OF MALNUTRITION IN THE DEVELOPMENT OF FRAILTY AND COST IMPLICATIONS AMONG
COMMUNITY-DWELLERS
Leocadio Rodríguez-Mañas MD, PhD - Geriatric Department Fundación de Investigación Biomédica, Hospital
Universitario de Getafe, Getafe, Spain Suzette Pereira, PhD- Abbott Nutrition, Columbus, OH, USA

11:30/11:45 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 Autónoma de
Baja California, Mexico

11:45/12:00 CONFERENCE 13
PREDICTING FIRST TIME INJURIOUS FALLS 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); WeiLi Xu (1); Anna-Karin Welmer
(1,2,3,4) (1) Aging Research Center (ARC), Department of Neurobiology, Care Sciences and Society, Karolinska Institutet
and Stockholm University, Stockholm, Sweden(2) Division of Physiotherapy, Department of Neurobiology, Care Sciences
and Society, Karolinska Institutet, Sweden (3) Allied Health Professionals, Function Area Occupational Therapy &
Physiotherapy, Karolinska University Hospital, Stockholm, Sweden(4) Stockholm Gerontology Research Center, Sweden

12:00/12:10 ORAL COMMUNICATION 32
NETWORK ANALYSIS OF FRAILTY AND AGING: EMPIRICAL DATA FROM THE MEXICAN HEALTH
AND AGING STUDY
Carmen García-Peña, Ricardo Ramírez-Aldana, Lorena Parra-Rodríguez, Juan Carlos Gómez-Verján, Mario Ulises
Pérez-Zepeda, Luis Miguel Gutiérrez-Robledo, Instituto Nacional de Geriatria (Mexico)

12:10/12:20 ORAL COMMUNICATION 33
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 M1, Kocherginsky M2, Ferguson M3, Huang E4, Schumm LP5, Waite L6 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 Surgery4University of Chicago Medicine, Department of Medicine, Section of General Medicine,
Chicago, IL 5 University of Chicago, Department of Public Health Sciences, Chicago, IL 6 University of Chicago,
Department of Sociology & NORC

12:20 – 12:30 Oral Communication 34 • LATE BREAKING NEWS

12:30 – 1:50 LUNCH BREAK – POSTERS

1:50 – 2:35 SYMPOSIUM 8
SELECTION OF RELEVANT OUTCOMES IN SARCOPENIA: A DISCRETE CHOICE EXPERIMENT
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, Jürgen Bauer, Charlotte Beaudart, Olivier
Bruyère, Cyrus Cooper, Alfonso Cruz-Jentoft, Mickaël Hiligsmann, Jean-Marc Kaufman, Jean-Yves Reginster, René Rizzoli.
Conclusion: Olivier Bruyère

2:35/2:45 Oral Communication 35 • LATE BREAKING NEWS

2:45/2:55 Oral Communication 36 • LATE BREAKING NEWS

2:55/3:05 Oral Communication 37 • LATE BREAKING NEWS

3:05/3:15 Oral Communication 38 • LATE BREAKING NEWS
COFFEE BREAK – POSTERS

3:15/3:45

3:45/3:55

**ORAL COMMUNICATION 39**
**BIOMARKERS OF SARCOPENIA IN VERY OLD PATIENTS WITH HIP FRACTURE**
Alfonso-José Cruz-Jentoft MD, PhD1, Carmen Sánchez-Castellano MD, PhD1, Paloma Bermejo-Bescós PhD2, María-Nieves Vaquero Pinto (1), Carmen Miret-Corchado (1), Sagrario Martín-Aragón PhD2.
(1) Geriatrics Department, Hospital Universitario Ramón y Cajal, IRYCIS, Madrid, Spain. (2) Facultad de Farmacia, Universidad Complutense de Madrid, Spain.

3:55/4:05

**ORAL COMMUNICATION 40**
**SARCOPENIC OBESITY IN ASIAN POPULATIONS: INFLUENCE OF OBESITY DEFINITIONS ON PREVALENCE AND PHYSICAL PERFORMANCE**
Ezra Qi-En Khor1; Jun-Pei Lim, MBBS, MRCP (UK), MMed (Int Med)2,3; Laura Tay, MBBS, MRCP (UK), MMed (Int Med), MCI4; Audrey Yeo, BMSc3; Suzanne Yew, BSN3; Yew-Yoong Ding, MBBS, FAMS, FRCP (Edin), PhD2,3; Wee-Shiong Lim, MBBS, MRCP (UK), MMed (Int Med), MHPEd, AGSF, FAMS2,3
(1) Lee Kong Chian School of Medicine, Singapore (2) Department of Geriatric Medicine, Tan Tock Seng Hospital, Singapore (3) Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital, Singapore (4) Department of General Medicine (Geriatric Medicine), Sengkang Hospital. Singapore

4:05/4:15

**ORAL COMMUNICATION 41**
**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(2)
(1) Department of Physical Therapy, High Point University, High Point NC, USA. (2) Center for Genetic Medicine Research, Children’s National Medical Center, Washington DC, USA

4:15/4:25

**ORAL COMMUNICATION 42**
**MUSCLE MASS IS MAINTAINED AND BODY FAT REDUCED WITH EXERCISE IN OLDER PEOPLE AGING WITH HIV**
Catherine M. Jankowski, PhD1, Melissa P. Wilson, MS2, Todd T. Brown, MD, PhD3, Samantha MaWhinney, ScD2, Kristine M. Erlandson, MD4 - University of Colorado College of Nursing Aurora Colorado USA

END OF ICFSR
BIOLOGY OF FRAILTY AND AGING

P 1 • Circulating skeletal muscle size, composition, contractile function, and physical performance in mobility-limited older adults
Brittany B Barrett MS1, Gregory J Gravici PhD1,2, David A England MD1, Christine Liu MD1, Thomas G. Tawison PhD3, Tommy Cederholm MD PhD4, Thomas Gustafsson MD PhD5, Kieren F Reid PhD1, Roger A Fielding PhD1 (1) Nutrition, Exercise Physiology, and Sarcoma Laboratory, Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University, Boston, MA (2) Department of Health Sciences and Kinesiology, Biodynamics and Medicine, University of Campinas, Sao Paulo, Brazil, (3) Institute for Aging Research, Northern Virginia Life, Harvard Medical School, Boston, MA (4) Department of Public Health and Caring Sciences, Clinical Nutrition and Metabolism, Uppsala University, Uppsala, Sweden (5) Division of Clinical Physiology, Department of Laboratory Medicine, Karolinska Institutet, Stockholm, Sweden)

P 2 • Sarcoptosis is associated with widespread changes in the muscle myotendinous
Ele Antoun 1, Emma Gannat 1, Alicia Bunciczyka 2, Sheila J Bartens 3, Philip Tluczbic 3, Mark A Bartens 1, Leo Westlund 3, Sarah Shaw 3, Richard Dodd 3,5, Holly E Spyddal 3,4, Helen C. Riebert 3,2,6, Avan A Sayer 4,5, Cyran Cooper 3,6, Hannah P. Patterson 3,6, Karen A Lilja 3,2,6, PhD Joint senior authors, Human Development and Health Academic Unit, Faculty of Medicine, University of Southampton, UK (3) Academic Geriatric Medicine, Faculty of Medicine, University of Southampton, 3 MRC Efficacy and Impact Unit, University of Southampton, 3 ANG Research Group, Institute of Neuroscience, Newcastle University, UK (4) Shankar Biomedical Research Centre; Newcastle University and Newcastle upon Tyne Hospitals NHS Foundation Trust, 3 INHRI Southampton Biomedical Research Centre, University of Southampton & University Hospital Southampton NHS Foundation Trust, 3 UK, 7 Biological Sciences, University of Southampton, UK

P 3 • Intramuscular fat infiltration, muscle strength and sedentary time in frail older persons
Natalie M Ramalho-da-Cruz Alves MSC1, José Albolivar de Oliveira Correa PhD, Karina Phares PhD, Thiago Neves MSC1, Fernanda Ribeiro-Valente-Macedo MS1, Juliana Cristina da Silva BSc1, 1 (2) Department of Physical Therapy and Rehabilitation, Princess Paola Hospital, Vivalia, Marche-en-Famenne, Belgium (3) Artialis S.A., Tour Giga, level 3, CHU Sart-Tilman, Liege, Belgium

P 4 • Searching for biomarkers and risk factors of frailty in older adults - preliminary results from the BioFrail study
Armanda Vieira-Gomes MD1, MD2, Filipa Esteves MD1,2, Ana Catarina Sousa MD1,3,4, M. Raúlino Passinhas MD1, PhD3, Jolivette Lopes Pires MSc1, Julio Cesar Moriguti MD, PhD1, Nereida Lima MD, PhD1, Eduardo Ferriolli MD, PhD1, (1) Ribeirão Preto Medical School, University of São Paulo, Ribeirão Preto, SP, Brazil (2) Southwestern State University, Iquique, BA, (Brazil)

P 5 • Aortic pressure wave reflection is associated with muscle strength and mass, but not with gait speed, in older adults
Arturo Espinoza-Md1, MD1, Javier de La Fuente MD2,2, David Jenkins MD1, MD2 (1) Retirement Community Study, Texas Tech University, Lubbock, TX, USA (2) Department of Exercise and Sport Science, University of Washington, Seattle, WA, USA (3) Department of Medicine, Food, and Exercise Sciences, Florida State University, Tallahassee, FL, USA (4) Department of Occupational Therapy, University of Florida, Gainesville, FL (USA)

P 6 • Poor glycemic control in patients with diabetes and prevalence of sarcopenia: The MUSCLES-DM study
Kim Su-In Ha MD1, PhD1, Yoon-Chan Yu MD1, PhD1, Soon-Joo Yoon MD1, Dr. med. 1,2, (1) Institute of Geriatric Medicine, Medical Research Center, (2) Korea Institute of Health and Social Affairs, Seoul, South Korea

P 7 • Frailty and potential biomarkers of aging
Goochettu Bhupakrash Reddy PhD1, Tattiney Shalini M Sc1, Kuswati Sinivasapur M Sc1, Bainji Naveen Kumar PhD2 (1) Department of Biochemistry, National Institute of Nutrition (ICMR), Hyderabad- 500007, India, (2) Department of Statistics, National Institute of Nutrition (ICMR), Hyderabad- 500007, India

BIOMARKERS AND IMAGING

P 8 • Serum creatine and cystatin C based index can be a screening biomarker for sarcopenia in older population
Sunghy Shindell MD1, Sumitabh Singh MD1, Shrikrishna Motha MD2, Aparajit Bajrall Day MD1, Avinash Chakravorty MD1 (1) Department of Geriatric Medicine, All India Institute of Medical Sciences, Delhi, India (2) Department of Internal Medicine, All India Institute of Medical Sciences, Delhi, India

P 9 • Identification and Characterization of New Biochemical Markers for Sarcopenia
Hossein Zakeri1, 2, 3, 4, Ben Conder1, Labashe A1, Vander Poel St 1, C. Böselet1, X Lüerop1, A Arslan Group SA GICA EWE Avenue de l'hôpital, 4000 Liège, 2. Bone and Cartilage Research Unit, University of Liège, Arthroplasty, Institute of Pathology, Sart-Tilman, 4000 Liège, Belgium, 3. Department of Physical Therapy and Rehabilitation, VIVALIA, Princess Paola Hospital, Marche-en-Famenne, Belgium

P 10 • Serum free testosterone levels are positively correlated with skeletal muscle mass in older women over 75 years old
Mitsutaka Yakeda MD1, PhD1, Sumito Okawa MD1, PhD1, Taro Kojima MD1, PhD1, Taisaku Okumura2, Shinya Takijama2, Yumi Umeda-Kameyama MD1, PhD1, Masahiro Aoki1, PhD1, 1 Department of Geriatric Medicine, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan (2) Business Style Care Co., Ltd., Tokyo, Japan

P 11 • Diagnostic validity of biochemical markers for the diagnosis of sarcopenia in adults. Systematic review
Juliette F. van Beurden1, PhD1, Dr. Ingrid S. Temporini1, MD1, Jelle de Pogoda in Medecine de l'Activité Physique et le Sport, Faculte Universitaire de Sciences de la Sante, Utrecht, A. Velasquez M. Dr. Residente de 0 años, Medicina de la Actividad Fisica y el Deporte. Facultad Universitaria de Ciencias de la Salud, José F. Camargo V. Dr. Residente de 0 año, Medicina de la Actividad Fisica y el Deporte. Facultad Universitaria de Ciencias de la Salud (Colombia)

P 12 • Diagnosing sarcopenia at the point of imaging care: Prospective integration of functional and opportunistic CT data
Patrick M. Koertge MD1,2,3,4, Anahit Petrosyan (2), Praman Fuangfa, MD (2), Lawrence Yao, MD (3), John Brock (2), Leon Chenk (4) MD (4), Robert D. Boutin MD (2) (1) VIA Mathematics, Sacramento, CA, 2 University of California Davis, School of Medicine, (2) Department of Radiologic Sciences, Keck School of Medicine, University of Southern California, (3) Department of Orthopaedics, University of California, Irvine, (4) Department of Radiology, University of California, Irvine

P 13 • A systematic review of the skeletal muscle mass
Antoine Fux1, PhD student1, Cécile Lambert, PhD1, Christelle Sanchez, PhD1, Ali Mobasheri, Pr4,5, Yves Henrotin, Pr1,2,3 (1) Bone and Cartilage Research Unit, Arthropo, University of Liege and University Hospital, Department of Medicine 3, Erlangen, (Germany)

P 14 • Assessment of Visceral Adipose Tissue by MRI and BIA
O’Dwyer University of Erlangen-Nürnberg, Institute of Medical Physics, Alexandra Grimm, University of Erlangen-Nürnberg, Institute of Medical Physics, Erlangen, Germany-Andreas Friedberger, University of Erlangen-Nürnberg, Institute of Medical Physics, Erlangen, Germany, Klaus Engelke, Erlangen, Germany-Andreas Friedberger, University of Erlangen-Nürnberg, Institute of Medical Physics, Erlangen, Germany, Kühn in Gelsenkirchen, Germany-Andreas Friedberger, University of Erlangen-Nürnberg, Institute of Medical Physics, Erlangen, Germany

EPIDEMIOLOGY

P 15 • Effects of multimorbidity and frailty on functional disability in individuals aged 80 years or older
F Boriz Faculty of Medical Sciences - University of Campinas Rua Tессélia Vieira de Campinas, 126 – Cidade Universitaria Zenerino Vaz 13083-887 Brazil Campinas São PauloNaely Renata Saravia Piccetto - Faculty of Medical Sciences - University of Campinas Avila Liberoeserferi - Faculty of Medical Sciences - University of Campinas - Faculty of Applied Sciences - University of Campinas - Faculty of Health - University of São Paulo - School of Medicine, University of São Paulo

P 16 • Frailty and sarcopenia as risk factors for death among Brazilian older adults: a 10 year follow-up
Jair Licio Ferreira Santos PhD1,2,3,4 (1) Human Development and Health Academic Unit, Faculty of Medicine, University of Southampton, UK (2) Academic Geriatric Medicine, Faculty of Medicine, University of Southampton, 3 MRC Efficacy and Impact Unit, University of Southampton, 3 ANG Research Group, Institute of Neuroscience, Newcastle University, UK (3) Shankar Biomedical Research Centre; Newcastle University and Newcastle upon Tyne Hospitals NHS Foundation Trust, 3 INHRI Southampton Biomedical Research Centre, University of Southampton & University Hospital Southampton NHS Foundation Trust, 3 UK, 7 Biological Sciences, University of Southampton, UK

P 17 • Evaluating components relevant to risk screening for frailty/malnutrition in US national surveys of older adults
Jaimie Bachtle1, Mary Weiler2, Mary Beth Arensberg2, Johanna T Dayer3 (1) National Institutes of Health, Office of Dietary Supplements (2) Abbott Nutrition Division of Abbott (3) Frances Stern Nutrition Center, Tufts Medical Center and Tufts University Schools of Medicine, Friedman School of Nutrition Science and Policy and Jean Mayer USDA Human Nutrition Research Center on Aging (USA)

P 18 • Prevalence of sarcopenia among prostate cancer patients in Korea
Kyoung Sik Ahn MD, MB, Byung Joo Lee, MD, Min Suk Kang, MD, Ioo Hyun Park, MD, PhD, Jong In Lee, MD, PhD (1) Department of Rehabilitation Medicine, Seoul St. Mary’s Hospital, College of Medicine, The Catholic University of Korea (Korea)

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COGNITIVE FRAILTY

P 27 • Frailty as a predictor of cognitive disorders: a systematic review and meta-analysis
Marcus Kilti Borges (1), Marco Canavelli (2), Matteo Cesari (3), Ivan Aphrami (4). 1 Department of Geriatrics and Psychiatry, “Ambulatorio de Alterações Comportamentais em Idosos” (AAC), Faculdade de Medicina, University of São Paulo (FMUSP), São Paulo, Brazil. 2 Department of Human Neuroscience, Sapienza University, Rome, Italy. 3 Fondazione IRCCS Ca’ Granda - Ospedale Maggiore Policlinico, University of Milan, Milan, Italy. 4 Department of Internal Medicine, Catholic University of Sacred Heart, Rome, Italy.

P 28 • The relationship between frailty and mild cognitive impairment in the elderly: a systematic review
Naconine de Carvalho Cano (1), Marcus Kilti Borges, MD, MS (2), Alaisce Silva Santos de Siqueira, MD (3), Márcia Sanches Yasuda, PhD (3,4), Matteo Cesari, MD, PhD (5), Ivan Aphrami, MD, MS, PhD (2,6,7) Department of Physical Therapy, Federal University of São Carlos (UFSCar), São Carlos, SP, Brazil. 2 Department of Geriatrics, Catholic University of Sacred Heart, Rome, Italy. 3 Department of Internal Medicine, Catholic University of Sacred Heart, Rome, Italy. 4 Department of Neurology, University of São Paulo, São Paulo, Brazil. 5 Department of Gerontology, Catholic University of Sacred Heart, Rome, Italy. 6 Department of Physical Therapy, Federal University of São Carlos (UFSCar), São Carlos, SP, Brazil. 7 Department of Geriatrics, Catholic University of Sacred Heart, Rome, Italy.

P 29 • Cognitive Frailty: results from SABE Colombia Study
Estefanía Chacón-Holzendorf (1), Eliy Monros-González (2), María Paula Vargas Beltrán (2), Luis Carlos Venegas-Sanabria (2), Diego Chaura-Carvajal (2), Carlos Alberto Cano-Gutiérrez (2), 1 Semillero de Neurociencias y Envejecimiento, Aging Institute and Faculty of Medicine, Pontificia Universidad Javeriana, Bogotá, Colombia. 2 Geriatric Unit, Hospital Universitario San Ignacio and Pontificia Universidad Javeriana, Bogotá, Colombia.

P 30 • Sex difference of the tendency of food habit of cognitive frail patient and caregiver
Yumi Umeda-Kameyama, Kiyoshi Yamaguchi, Mitsuaki Yabake, Taro Kojima, Yasuhiko Yamaguchi, Sumito Ogawa, Masahiro Aoki-ito Department of Geriatric Medicine, The University of Tokyo (Japan)

P 31 • Sarcopenia and cognition in the oldest old: a study from the FBBSRYA Study
Márcia Sanches Yasuda (1), Marcus Kilti Borges, MD, MS (2), Alaisce Silva Santos de Siqueira, MD (3), Márcia Sanches Yasuda, PhD (3,4), Matteo Cesari, MD, PhD (5), Ivan Aphrami, MD, MS, PhD (2,6,7) Department of Physical Therapy, Federal University of São Carlos (UFSCar), São Carlos, SP, Brazil. 2 Department of Geriatrics, Catholic University of Sacred Heart, Rome, Italy. 3 Department of Internal Medicine, Catholic University of Sacred Heart, Rome, Italy. 4 Department of Physical Therapy, Federal University of São Carlos (UFSCar), São Carlos, SP, Brazil. 5 Department of Gerontology, Catholic University of Sacred Heart, Rome, Italy. 6 Department of Physical Therapy, Federal University of São Carlos (UFSCar), São Carlos, SP, Brazil. 7 Department of Geriatrics, Catholic University of Sacred Heart, Rome, Italy.

P 32 • Physical Frailty and Cogntive Functioning in Non-demented Community-dwelling Older Adults: China Comprehensive Geriatric Assessment Study
Lina Ma, Li Zhang, Fei Sun, Yun Li, Zhe Department of Geriatrics, Jiaozuo Hospital, Capital Medical University, China National Clinical Research Center for Geriatric Disorders Beijing (China)

P 33 • Could Delirium be a Manifestation of Psychosomatic Over-drive?
Elaine Shanahan–University Hospital Limerick, Ireland and Graduate Entry Medical School, University of Limerick, Ireland Sheila Carew–University Hospital Limerick, Ireland Aine Costello–University Hospital Limerick, Ireland Michelle Brown–University Hospital Limerick, Ireland Catherine Peter–University Hospital Limerick, Ireland, Ireland Mary Connor–University Hospital Limerick, Ireland, Ireland Declan Lyons–University Hospital Limerick, Ireland Margaret O’Connor–University Hospital Limerick, Ireland and Graduate Entry Medical School, University of Limerick, Ireland

P 34 • Study of cognitive frailty in a health-seeking population
Mareal Thakul Junior Resident, Pursuing MD, Auvish Chakravarty MD, Aparajit Baray MD MD (1 Department of Geriatric Medicine, AIMS, India)

P 35 • Lower Cerebral Volumes in Frailt versus Non-frail Demented Elderly
A Fattori. Faculty of Medical Sciences of Unicamp Campus State University Deborah Lee Viana Paula Ta A, Camila Veiga de Lòs Reine 2A, Amanda Viegas Sardela 2B, Amanda Ximenes Reis 2A, Maria Fernanda Bottino Rohr 2A, Heloíso Monre Jr 2B, Paulo Teixeira Fernandes 2B, André Fattori 2B. A Gerontology Program, Faculty of Medical Sciences, University of Campinas (UNICAMP). Faculty of Physical Education – UNICAMP Neurology Department – UNICAMP (Brazil)

FUNCTIONAL ASSESSMENT

P 36 • Comparison of diagnostic criteria for sarcopenic obesity in adults with knee osteoarthritis
Kristine Godzik, PhD(Candidate)1, Carla M. Prado, PhD2, Linda J Woodhouse, PhD3, Mary Forhan, PhD4 (1) Department of Rehabilitation Medicine, University of Alberta, Edmonton, Alberta, Canada. 2 Department of Agricultural, Food and Nutritional Science, Faculty of Agricultural, Life and Environmental Sciences, University of Alberta, Edmonton, Alberta, Canada. 3 Department of Physical Therapy, Faculty of Rehabilitation Medicine, University of Alberta, Edmonton, Alberta, Canada. 4 Department of Occupational Therapy, Faculty of Rehabilitation Medicine, University of Alberta, Edmonton, Alberta, Canada.

P 37 • Gender differences in trajectories of physical performance in older adults: Findings from the International Mobility in Aging Study
Tamer Ahmed1,2, Marijke Hopman-Rock, PhD MSc MA1, Helmi van Hirtum MSc1, Paul de Vreede, PhD2, Ellen Freiberger , PhD3 1 Rehabilitation and Reha-Abilitation, University of Liége, Liége, Belgium. 2 Department of Rehabilitation and Sport Sciences, University of Liége, Liége, Belgium. 3 Graduate Department of Physical Therapy, Faculty of Rehabilitation Sciences, University of Liége, Liége, Belgium.

P 38 • Evaluation of Sleep Disorders and Accompanying Factors
Kristine Godzik1,2 1a, Camila Vieira de Ligo Teixeira 2c, Amanda Veigas Sardelia 2b, Amanda Ximenes Reis 3a, Maria Fernanda Bottino Rohr 2A, Heloíso Monre Jr 2B, Paulo Teixeira Fernandes 2B, André Fattori 2B. A Gerontology Program, Faculty of Medical Sciences, University of Campinas (UNICAMP). Faculty of Physical Education – UNICAMP Neurology Department – UNICAMP (Brazil)

P 39 • Diagnosis and evaluation of sarcopenia in older adults with knee osteoarthritis
Estephania Chaco, Ireland Tina Sheehy-University Hospital Limerick, Ireland Catherine Peters-University Hospital Limerick, Ireland Tom Kiernan-University Hospital Limerick, Ireland and Graduate Entry Medical School School, University of Limerick, Ireland

P 40 • Functional assessment of the workability, functional decline and frailty in the elderly subjects
Olga Tamasyan MD, PhD, Oleksandr Poljakov MD, PhD Laboratory Occupational-Labor Rehabilitation, Social gerontology and Public Health Department, Institute of Gerontology by D.E. Chobotevoy of National Academy of Medical Sciences of Ukraine Kyiv, (Ukraine)

P 41 • Functional assessment of the workability, functional decline and frailty in the elderly subjects
Olga Tamasyan MD, PhD, Oleksandr Poljakov MD, PhD Laboratory Occupational-Labor Rehabilitation, Social gerontology and Public Health Department, Institute of Gerontology by D.E. Chobotevoy of National Academy of Medical Sciences of Ukraine Kyiv, (Ukraine)

P 42 • Investigation of the clinical manifestation of sarcopenia in older adults with knee osteoarthritis
Kiyoshi Tozaki1,2, Marijke Hopman-Rock, PhD MSc MA1, Helmi van Hirtum MSc1, Paul de Vreede, PhD2, Ellen Freiberger , PhD3 1 Rehabilitation and Reha-Abilitation, University of Liége, Liége, Belgium. 2 Department of Rehabilitation and Sport Sciences, University of Liége, Liége, Belgium.

P 43 • Life-style Modification as A Clinical Marker for Physical Fitness in Community-Dwelling Older Adults: Gender Disparity Observations
Tay ET1, Ng YS2, Lim BA3, Malm SM2, Tay LS4 1 SingHealth General Hospital (Singapore)

P 44 • A prediction model of cognitive frailty among older adults with knee osteoarthritis
Kiyoshi Tozaki,1,2 Marijke Hopman-Rock, PhD MSc MA,1 Helmi van Hirtum MSc,1 Paul de Vreede, PhD2 Ellen Freiberger, PhD3,1 1 Research center BodyWork TKO (Netherlands Organization for Applied Scientific Research) and VU university Medical Center, LeidenAmsterdam, The Netherlands. 2 Department of Public Health, Erasmus MC, University Medical Center Rotterdam, The Netherlands. 3 Institute for Biomechanics of Aged, Friedrich-Alexander University Erlangen-Nürnberg, Nuremberg, (Germany)

P 45 • Correlation between clinical manifestations of sarcopenia and knee osteoarthritis
Kiyoshi Tozaki1,2, Marijke Hopman-Rock, PhD MSc MA1, Helmi van Hirtum MSc,1 Paul de Vreede, PhD2 Ellen Freiberger, PhD3,1 1 Research center BodyWork TKO (Netherlands Organization for Applied Scientific Research) and VU university Medical Center, LeidenAmsterdam, The Netherlands. 2 Department of Physical Therapy, College of Medical Sciences, Jeonju University, Jeonju, South Korea

P 46 • Impact of knee osteoarthritis on the quality of life and physical function in older adults
Kiyoshi Tozaki1,2, Marijke Hopman-Rock, PhD MSc MA,1 Helmi van Hirtum MSc,1 Paul de Vreede, PhD2 Ellen Freiberger, PhD3,1 1 Research center BodyWork TKO (Netherlands Organization for Applied Scientific Research) and VU university Medical Center, LeidenAmsterdam, The Netherlands. 2 Department of Physical Therapy, College of Medical Sciences, Jeonju University, Jeonju, South Korea

P 47 • Life-style Modification as A Clinical Marker for Physical Fitness in Community-Dwelling Older Adults: Gender Disparity Observations
Tay ET1, Ng YS2, Lim BA3, Malm SM2, Tay LS4 1 SingHealth General Hospital (Singapore)
P 44 • 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 Compagny 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 45 • 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 Compagny 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 46 • Indice de reserva funcional determinado mediante balance rehabilitation unit: seguimiento de personas adultas mayores con alteracion del equilibrio
Marcela Arias Barredo, instituto nacional de geriatria Maria Victoria Fignarou sSouper, instituto nacional de geriatria Santiago de Chile (Chile)

P 47 • Congenital, untreated, severe isolated growth hormone deficiency predisposes or protects against frailty and sarcopenia?
Miburge Boliu Gois-Junior1,2, Alana Lalaçu Guimarães2, Giulianí Moreira Brasil, Budui2, Aisanda A Santana-Ribeiro2, Joens Aiter Estrazulas1, Cesar Ferreira Amaro1, Fernanda Gonçalves Cuvita1, Inári Caroline Gadetil1, Manuel Henríquez Aguirre-Olivero3, Roberto Salvan-Moura4 & Edgar Ramos Vieira4 1- Department of Physical Therapy, Florida International University, Miami, Florida, USA. 2- Laboratory of Motor Control and Body Balance, Center for Health Research Science, 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 48 • Remotely captured daily mobility pattern in age-related sarcopenia. A pilot clinical study
Lorenzo Maria Dona1,2, Alberto Rainkold2, Eleonora Paggioppale1, Luca Carlo Felletti3, Gianluca Zai4 and Susanna Del Signore1 Sapienza University, Rome, Italy 2 NeuromaMuscularFunction Research group, School of Exercise and Sport Sciences, Department of Medical Sciences - University of Turin, Italy 3 Caretek srl, Torino, Italy 4 BlueCompanion ltd, London, (UK)

P 49 • Functional reserve index determined through balance rehabilitation unit: follow-up of older adults with balance alteration
Marcela Arias Barredo MD PHD1, Maria Victoria Fignarou sSouper UD2, (1) Physician Chef, Geriatric Hospital Day, National Institute of Geriatrics, Santiago de Chile, Chile (2) Physical therapist, Geriatric Hospital Day, National Institute of Geriatrics, Santiago de Chile, (Chile)

P 50 • How young is your Muscle? Functional Assessment with Ageing
Sauli Banerjee1,2, Lobna Immari1,4, Sofiane Bouladoul1,4, Kyoka Kinaswagi1,2,3,1 Sodanobe 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. DGH HAS, Assistance Publique Hôpitaux de Paris (APHP), Paris. France. 4. Laboratoire Biomécanique et Bioingénierie UMR 7338, Université de technologie de Compiègne, Sorbonne Universités (France)

P 51 • Accuracy of inertial sensors vs optical motion capture system for analysis of movement - preliminary results
Jansen Aiter Estrazulas1-2, Fernanda Gonçalves Cuvita-Moreira1, Miburge Boliu Gois-Junior1, Jorge Carreira1, Inári Caroline Gadetil1, Joanson Agne Estrazulas2 & Edgar Ramos Vieira4 1- Department of Physical Therapy, Florida International University, Miami, Florida, USA. 2- School of health, Amazonas State University, Manaus, Amazonas, (Brazil)

P 52 • Instrumented Trail-Making Task: Application of wearable sensor to determine physical frailty phenotypes
We Zhang and Bijan Najafi Baylor College of Medicine - Baylor College of Medicine - Houston Texas (USA)

CLINICAL TRIALS

P 53 • Exercise rehabilitation in older, sarcopenic and frail patients
Ellen Freiberg1, PD PhD, Monika Sieben4 PhD, Wolfgang Kemmler3 PhD, Cornel Sieber4 Prof. Dr. *1 Friedrich-Alexander University Erlangen Nuremberg, Institute for Biomedicine of Aging; 2 Institute for Medical Physics (FAU); A Hospital Bambergzische Briider Regensburg (Germany)

P 54 • The FORCE trial: Focus on Reducing Dose-Limiting Toxicities in Colon Cancer with Resistance Exercise (RT): Baseline Functional Status
Bette Caeo, 2Charlotte T. Schmitz, 3Eda Karam M. Brightton, 4Kristin C. Brown, 4Kristin L. Campbell, 1Jadorelisa Castillo, 1Rabia Cathleen C. Cespedes Feliciano, 1Vivienne S. Lee, 1Charles P. Quenby, 1Sara K. Quinn, 1Barbara Sterkend, 2Enaire M. Winkle, 3Jeffrey A. Meyerhardt. 1Kaiser Permanente of Northern California, Oakland, CA, 2Pen State College Cancer Institute, Pen State College of Medicine, Hershey, PA. 3Dana Farber Cancer Institute, Boston, MA 4University of British Columbia, Vancouver, Canada,Indiana University School of Medicine, Indianapolis, IN (USA)

P 55 • Vibrational therapy: a non-pharmacological, complementary therapy in the aging-related diseases
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P 56 • Glutamine supplementation for urinary incontinence: a prospective, randomized controlled, double-blind study
Gulistan Bahat1 & Ajay Rainoldi2, 1Sorbonne Université, 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. DGH HAS, Assistance Publique Hôpitaux de Paris (APHP), Paris. France. 4. Laboratoire Biomécanique et Bioingénierie UMR 7338, Université de technologie de Compiègne, Sorbonne Universités (France)

P 57 • Design, Methods and baseline characteristics of the Fit-Joint Pilot RCT of a Multi-Intervention model in Frail Patients with Osteoarthritis
Alexandra Papazarkou MD1,2, Ahmed M Naeem MD, MSC, PhD1,3, Courtney C Kennedy PhD1, George Ioannidis PhD1, Olaya Gagic-Veljanoski PhD1, Lethana Thabane PhD4, Stephanie Atkinson PhD5, Mitchell Winemaker MD6, Julie Richardson PhD3, Jonathan D Aitcheson MD2, For the Fit Joint Investigators - McMaster University (Canada)

P 58 • Evaluation of safety and efficacy of Drug for Sarcopenia: a double-blind, placebo controlled, randomized clinical trial
Wael Doh1, Cerahne Tourette1, Carole Margalef1, René Lafon2, Philippe Dupont3, Pierre Dild1, Stainislaw Vonllet1, Susanna Del Signore1 and Samuel Augs 1 Biophytis, UMPM – BIC, 4 place Jussieu, 75005 Paris, France 2 Sorbonne Universités, UPMC Univ Paris 06, CNRS - Institut de Biologie Paris Seine (IBPSIE), 75005 Paris, France 3 BlueCompanion ltd, London, (UK)

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P 73 • MBNL1-associated mitochondrial dysfunction and apoptosis in C2C12 myotubes and mouse skeletal muscle
Shingo Ikushima, PhD1, Yotsuba Ohno, PhD1, Tatsuro Egawa, PhD2, Ayane Nakamura, MS2, Katsumasa Goto, PhD (1) Laboratory of Physiology, School of Health Science, Toyohashi SOZO University, Toyohashi, Japan (2) Laboratory of Sports and Exercise Medicine, Graduate School of Human and Environmental Education, Kyoto University, Kyoto, (Japan)

P 74 • Long-chain fatty acids and inflammatory markers co-accumulate in skeletal muscle of sarcopenic old rats
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P 75 • The influence of midlife weight change on cognitive impairment in old age: The Singapore Chinese Health Study
Woo-Pyon Koh, Mohammad Talaei Health Services and Systems Research, Duke-NUS Medical School, (Singapore)

P 76 • Vitamin D in relation to incident sarcopenia and changes in muscle parameters among older adults: the KORA-Age study
Rommy Gonzalez (1), Eva Grill (2), Heike A. Bischoff-Ferrari (3), Uta Ferrari (4), Alexander Horsch (5), Wolfgang Koensig (6, 7, 8), Annette Peters (1) and Barbara Thorsard (1) (1) Helmholtz Zentrum München, German Research Center for Environmental Health (GmbH), Institute of Epidemiology, Neubiberg (2) Institute for Medical Information Processing, Biometrics and Epidemiology, Ludwig Maximilian University of Munich, Munich, (3) Centre for Aging and Mobility, University of Zürich and City Hospital Zürich, Zürich, (4) Department of Medicine IV, University Hospital, Ludwig Maximilian University of Munich, Munich, (5) Department of Computer Science, UTH - The Arctic University of Norway, Tromsø, (6) Heart Centre Munich, Technical University of Munich, Munich, (7) DZHK (German Centre for Cardiovascular Research), Partner Site Munich Heart Alliance, Munich; (8) Ulm Medical Center, Department of Internal Medicine II—Cardiology, Ulm University Ulm, Ulm (Germany)

P 77 • Association of nutrients intake and sarcopenia in Brazilian older adults
V Colaço, College of Applied Sciences - University of Campinas - Graziele M. Silva: College of Applied Sciences-University of Campinas Larissa M. Harra: College of Applied Sciences-University of Campinas Carolina N. Freire: College of Applied Sciences-University of Campinas (Brazil)

P 78 • The role of Biological Sex on Nutritional Habits and Muscular Health among Middle-Aged, Healthy Adults
Kara Tauman MS, CSCS, Christopher Kotarsky MS, CSCS, Nathan Dice MS, CSCS, TSCA-F, Baelee Sawyer MS, RDI, Steven Mitchell MD(1), 2, Sherm Stasney PhD, RD, CSSD, LD(1), 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 79 • The role of nutrition in the development of chronic diseases amongst elderly people
Natalija Prikosnova; Grand PhD, Institute of Gerontology of National Academy of Medical Sciences, Kyiv, (Ukraine)

P 80 • Nutritional Therapy, multiprofessional team and nutritional needs
Mylä J., Paimiati R., Borba L., Santos M., J.Kloos C., Feres F., Magnoni C. D.Sao Paulo (Brazil)
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P 154 • The Effect of BPA on Bone Mineral Density(BMD) in Rats
Hyeok Kang M.D., Daejin Nam M.D., Hongsie Kang M.D. Department of Orthopedic surgery, womunik hospital university hospital, Ilsan, (Korea)

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P 155 • Effects of a short-length exercise training protocol on the physical function of institutionalized frail older adults
Cristiane Batistti Ferreira (1), Gliscinei Guntip Avelar (2), Athila Telles Danis Maya (1), Paulo Americo do Brasil (1), Vinicius Carolina Souza (2), Ricardo Moreno Lima (3), Aparecido Pimentel Ferreira (3), Dilson Toledo Nascimento (3) • 1. Interdisciplinary Unit for Research, Integrated Colleges Proveco Brasilia, Brasilia, Brazil 2. Graduate Program in Medical Sciences, Federal University of Brasilia (UnB), Brasilia, Brazil 3. Graduation Program in Physical Education, University of Brasilia (UnB), Brasilia, (Brazil)

P 156 • Low-intensity exercise suppresses myostatin pathway through androgen receptor in muscle cells
Bo-Nguyen Son1, Masato Eto1, Yuki Ishii1, Masaio Akahita1 • 1. Department of Geriatric Medicine, Graduate School of Medicine and 2 Institute of Gerontology, The University of Tokyo, Tokyo, Japan

P 157 • Effects of Dual-Task Functional and Mobility Training on Falls and Physical Function in Older People Living in Retirement Communities: A 12-month Cluster Randomized Controlled Trial
Robin M. Daly1,2,3,4, Rachel M. Duckham1,5, Jamie L. Tait1,2, Timo Rantalainen1,2, Caryl A. Nowson1,6, Dennis R. Taaffe7, Keith D. Hill3,4, Karlie M. Sanders4, Lucy Busija1,2, Kerrie M. Sanders4, Dennis R. Taaffe7, Keith D. Hill3,4, Karlie M. Sanders4, Lucy Busija1,2, Kerrie M. Sanders4, Dennis R. Taaffe7, Keith D. Hill3,4, Karlie M. Sanders4, Lucy Busija1,2, Kerrie M. Sanders4
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