

8:30/9:00

WELCOME

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

9:00/9:20

KEYNOTE 1

DO-HEALTH TRIAL Chairman : Bruno Vellas, Toulouse (France)
Heike Bishoff Ferrari, Zurich University, (Switzerland)

9:20/10:05

SYMPOSIUM 1

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS) INITIATIVES TO IMPROVE FUNCTION, PROMOTE HEALTHY AGING AND INDEPENDENT LIVING AMONG OLDER ADULTS

Moderator: Rosaly Correa-de-Araujo, MD, MSc, PhD - National Institute on Aging (NIA), National Institutes of Health (NIH), U.S. Department of Health and Human Services (HHS)

• Aging Research Supported by the National Institute on Aging (NIA)

Marie A. Bernard, MD - National Institute on Aging (NIA), National Institutes of Health (NIH), U.S. Department of Health and Human Services (HHS)

• Aging Research Supported by the National Institute on Aging (NIA): Announcing the NIA Central Biorepository

Rosaly Correa-de-Araujo, MD, MSc, PhD - National Institute on Aging (NIA), National Institutes of Health (NIH), U.S. • Department of Health and Human Services (HHS)

• Chronic Disease Self-Management Education (CDSME) Programs and Other Services and Supports Resources Funded by the HHS Administration for Community Living (ACL)

Carol Nohelia Montoya, FMD, MPH - Florida Health Networks (FHN)

10:05/10:20

CONFERENCE 1 Moderators: Angelo Parini, Toulouse (France), Anurag Singh, Ecublens (Switzerland)

RACE DEPENDENT CHANGES TO GENE EXPRESSION IN FRAIL, MIDDLE AGED ADULTS

Calais S. Prince PhD¹, Nicole Noren Hooten PhD¹, Nicole 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)

10:20/10:35

CONFERENCE 2

TRANSLATING UROLITHIN A BENEFITS ON MUSCLE MITOCHONDRIA INTO HUMANS

A. Singh¹ P. A. Andreux¹, W. Blanco-Bose¹, P. Aebischer², J. Auwerx³ C. Rinsch¹ - ¹ Amazentis SA, Switzerland ² Brain Mind Institute, Ecole Polytechnique Federale de Lausanne, Switzerland) ³ School of Life Sciences, Ecole Polytechnique Federale de Lausanne, (Switzerland)

10:35/11:05

COFFEE BREAK - POSTER SESSIONS - EXHIBITS

11:05/11:20

CONFERENCE 3 Moderators: Matteo Cesari, Milan (Italy), Cyrus Cooper, Southampton (UK)

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)

11:20/11:35

CONFERENCE 4

COMPENSATORY ADJUSTMENTS IN MOTOR UNIT BEHAVIOR DURING FATIGUE DIFFER FOR YOUNGER VERSUS OLDER MEN

Matt S. Stock¹, Jacob A. Mota² Dennis P. Kwon¹, Mary Kennedy⁴, 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 (USA)

11:35/11:50

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, BSE¹ Mayu Sasaki, MPH Nathaniel Hupert, MD, MPH¹ Jackie Finik, MPH¹ Steven K. Magid, MD^{1,2} ¹Hospital for Special Surgery, New York, NY ²Weill Cornell Medicine, New York, NY, (USA)

11:50/12:00

ORAL COMMUNICATION 1

MEMBRANE LIPID REPLACEMENT WITH ORAL NTFACOR 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; ²Blue Hole Wellness, San Antonio, TX, (USA)

12:00/12:10

ORAL COMMUNICATION 2

OLDER ADULTS WITH BOTH COGNITIVE AND PHYSICAL IMPAIRMENTS ARE AT HIGHEST RISK TO DEVELOP DEMENTIA: A 12-YEAR LONG POPULATION-BASED STUDY ORAL

Giulia Grande¹; Debora Rizzuto¹; Davide L. Vetrano^{1,2}; Anna Marseglia¹; Nicola Vanacore³; Erika Laukka¹, Anna-Karin Welmer¹; Laura Fratiglioni^{1,4} 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)

12:10/12:20

ORAL COMMUNICATION 3

LONG TERM RATES OF CHANGE IN MUSCULOSKELETAL AGING: FINDINGS FROM THE HEALTH, AGING AND BODY COMPOSITION STUDY

*Leo Westbury, MSc¹, Holly Syddall, PhD¹, Elaine Dennison, PhD¹, Jane Cauley, DrPH², Tamara Harris, MD, MS³, Eric Shiroma, Jr, ScD, MEd⁴, Bret Goodpaster, PhD⁵, Anne Newman, MD, MPH⁶, **Cyrus Cooper**, FMedSci¹ ¹MRC 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 Cameron⁴, Lehana Thabane⁵, Areti-Angeliki Veroniki^{6,7}, Jonathan D. Adachi⁸, Julie Richardson², Maria Petropoulou⁹, Saad Alsaad⁸, Papaioannou^{1,3} ¹. Geriatric Education and Research for the Aging Sciences (GERAS), St Peter's Hospital, Hamilton ON, Canada ². School of Rehabilitation Science, McMaster University, Hamilton, ON, Canada, ³. Department of Medicine, McMaster University, Hamilton ON, Canada ⁴. John Walsh Centre for Rehabilitation Research | Sydney Medical School Northern, University of Sydney, Kolling Institute | Royal North Shore Hospital | St Leonards, NSW, Australia⁵. 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**

Yenisei 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)

4:40/4:50

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

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

*Helen Kaiser*¹, 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, (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, MPH³ John A Robbins MD, MPH⁴ Jane A Cauley DrPH⁵ Joachim H Ix MD⁶ Kenneth J Mukamal MD, MPH⁷ 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 (USA)

5:00/5:10

ORAL COMMUNICATION 7

EVALUATING THE PHENOTYPE OF FRAILITY: VALIDATION OF A MEASURE OF PHYSIOLOGICAL MULTISYSTEM DYSREGULATION IN TWO DATASETS

A Gross, Michelle C. Carlson², Mara A. McAdams-DeMarco¹, Dan Mungas³, Eleanor Simonsick^{4,5}, Ravi Varadhan⁶, Qian-Li Xue^{1,4,7}, Jeremy Walston¹, 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, MD*¹, Yao Lu, ScMP¹, Larry Yao, MD², Karla V. Ballman, PhD², Patrick Kortebein, MD¹, Robert J. Canter, MD¹, Leon Lenchik, MD⁴ *Robert D. Boutin MD*¹ ⁽¹⁾ Departments of Radiology, Physical Medicine and Rehabilitation, and Surgery, University of California Davis, School of Medicine, Sacramento, CA, USA ⁽²⁾ Department of Healthcare Policy and Research, Weill Cornell Medical College, New York, NY, USA ⁽³⁾ Radiology and Imaging Sciences, National Institutes of Health, Bethesda, MD, USA ⁽⁴⁾ Dept of Radiology, Wake Forest School of Medicine, Winston-Salem, NC, (USA)

5:20/5:30

ORAL COMMUNICATION 9

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

*Natalia Maira da Cruz Alves MSc*¹, Carolyn Anne Greig PhD² Karina Pfrimer PhD¹ Priscila Carvalho MSc³ Ellen Cristine de Freitas PhD³, Thiago Neves MSc¹, Juliana Cristina Lemos dos Santos Marchesi PhD¹, Daniela Dalpubel Campanari MSc¹, Olga Laura Sena Almeida MD¹, *Eduardo Ferrioli MD PhD*¹ ⁽¹⁾ Department of Medicine, Ribeirao Preto Medical School, University of Sao Paulo, Ribeirao Preto, SP, Brazil ⁽²⁾ School of Sport, Exercise and Rehabilitation Sciences and MRC-Arthritis Research UK Centre for Musculoskeletal Ageing Research, University of Birmingham, Birmingham, UK ⁽³⁾ Sao Paulo State University (Unesp), Araraquara, SP, (Brazil)

5:30/5:40

ORAL COMMUNICATION 10

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

*Pierre Dilda*¹, Mathilde Latil¹, Maria Serova¹, Blaise Didry-Barca¹, Sissi On¹, Stanislas Veillet¹, René Lafont² ¹ Biophysitis, Sorbonne Université, Paris, France ² Sorbonne Université, UPMC Univ Paris, Paris-Seine Biology Institute (BIOSIPE), CNRS, Paris, (France)

5:40/6:20

SYMPOSIUM 4

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

Jay Magaziner on behalf of the Fragility Fracture Network

• **Mobilizing the Globe: A Call to Action for Treating and Managing Hip Fractures**

Jay Magaziner, PhD, MSHyg Professor of Epidemiology, Division of Gerontology, Department of Epidemiology and Public Health, School of Medicine, University of Maryland, Baltimore, MD, USA

• **Sarcopenia as a Target for Care After Hip Fracture**

Denise Orwig, PhD Associate Professor of Epidemiology, Division of Gerontology, Department of Epidemiology and Public Health, School of Medicine, University of Maryland, Baltimore, MD, USA

• **Promising Interventions Targeting Sarcopenia in Hip Fracture Patients**

Ellen Binder, MD Professor of Medicine, Division of Geriatrics and Gerontology, Department of Medicine, Washington University School of Medicine, St Louis, MO, USA

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: Taylor Wallace, PhD, CEO at the Think Healthy Group

- **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 ICF SR 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

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

9:35/10:20

SYMPOSIUM 5

THE ROLE OF MITOCHONDRIAL FUNCTION IN CONDITIONS OF ACCELERATED AGING: IMPLICATIONS FOR NUTRITIONAL THERAPY *Chairman : Roger Fielding, Tufts University Boston, (USA)*

- **Novel aspects of mitochondrial biology and its implications for healthy aging**
Pinchas Cohen (University of Southern California, Los Angeles, (USA)
- **Benefits of increasing glutathione concentrations with cysteine and glycine supplementation demonstrated in HIV patients**
Rajagopal V Sekhar (Baylor College of Medicine , Houston, (USA)

10:20/10:40

KEYNOTE 4 *Chairman : Roger Fielding, Tufts University MA, (USA)*
BIOMARKER AND BIOLOGY OF FRAILTY
Jeremy Walston, Johns Hopkins University, Baltimore, (USA)

10:40/11:10

COFFEE BREAK - 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.

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. ¹Department of Health, Nutrition, and Exercise Sciences, North Dakota State University, Fargo, ND, (USA)

11:40/11:55

CONFERENCE 8

ALLOGENEIC BONE MARROW-DERIVED MESENCHYMAL 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. 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)*

12:05/12:15

ORAL COMMUNICATION 12

DIETARY SUPPLEMENTATION WITH FISH OIL AND CURCUMIN IMPROVES GAIT SPEED AND MITOCHONDRIAL FUNCTION DURING AGING

Claire Boutry-Regard, PhD¹, Laurent Mosoni, PhD², Lydie Combaret, PhD², Christiane Deval², Lenaick Dupuis, MSc¹Eugenia Migliavacca, PhD³, Gabriele Civileto, PhD³ Jerome N. Feige, PhD³, Dominique Dardevet, PhD², Denis Breuille, PhD¹¹Nestle Research, Vers-chez-les-Blanc, Lausanne 26, Switzerland ²Universite Clermont Auvergne, INRA, UNH, CRNH Auvergne, Clermont-Ferrand, France;³ 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)

12:25/12:35

ORAL COMMUNICATION 14

AGING-ASSOCIATED LOSS OF HYPOXIA SIGNALING LIMITS SKELETAL MUSCLE REGENERATION

Indranil Sinha MD^{1,4}, Dharaniya Sakthivel MS¹, Kodi Udeh BS¹, Bin Li MD¹, Adriana Panayi MD¹, Ronald Neppel PhD², Shalender Bhasin MD³, Amy Wagers PhD⁴ ¹Division of Plastic Surgery, Brigham and Women's Hospital, Boston ²Department of Orthopedic Surgery, Brigham and Women's Hospital ³Division of Endocrinology, Brigham and Women's Hospital, Boston ⁴Harvard Stem Cell Institute, Cambridge (USA)

12:35/12:45

ORAL COMMUNICATION 15

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

Montero-Odasso M MD PhD AGSF FRCPC^{1,2,3}, Sakurai R PhD⁴, Bray NW MSc^{1,3,5}, Pieruccini-Faria F PhD^{1,3}, Sarquis-Adamson Y PhD, Speechley M PhD² ¹ Department of Medicine, Division of Geriatric Medicine, Schulich School of Medicine & Dentistry, University of Western Ontario, London, ON, Canada ² Department of Epidemiology and Biostatistics, Schulich School of Medicine & Dentistry, University of Western Ontario, London, Canada; ³ Gait and Brain Lab, Parkwood Institute, Lawson Health Research Institute, London, ON, Canada; ⁴ Tokyo Metropolitan Institute of Gerontology, Tokyo, Japan ⁵ School of Kinesiology, Faculty of Health Sciences, University of Western Ontario, London, ON, (Canada)

12:45/1:45

LUNCH INDUSTRY SYMPOSIUM Hosted by Biophytis

TARGETING THE PROTECTIVE ARM OF RENIN ANGIOTENSIN SYSTEM FOR DRUG DEVELOPMENT IN AGE RELATED SARCOPENIA

- **Inhibition of the renin angiotensin system and physical performance**

Marco Pahor, MD Institute on Aging University of Florida, Gainesville FL (USA)

- **Insect Steroid Hormones as Human Medicine: Application to Sarcopenia and Muscle Dystrophies**

René Lafont^{1,2}, Pierre Dilda¹, Laurence Dinan¹ and Stanislas Veillet¹ ¹ Biophytis, Sorbonne Université, Paris, France ² Sorbonne Université, UFR 927, IBPS-BIOSIPE, CNRS, Paris, (France)

- **Designing a clinical program for BIO101, a Mas receptor activator to target Age-related sarcopenia**

Waly Diah¹, Cendrine Tourette¹, Carole Margalef¹, René Lafont^{1,2}, Philippe Dupont¹, Pierre Dilda¹, Stanislas Veillet¹, Susanna Del Signore³, and Samuel Agus¹ ¹ Biophytis, Sorbonne Universités, UPMC BC9, Paris, France ² Sorbonne Universités, UPMC Univ Paris, CNRS - Institut de Biologie Paris Seine (BIOSIPE), Paris, France ³ Bluecompanion Ltd, London, (UK)

1:45/ 2:30

SYMPOSIUM 6

SPECIAL CONSIDERATIONS OF THE CANCER PATIENT WITH SARCOPENIA AND FRAILITY

Symposium moderator: Bette Caan Dr. PH, Senior Research Scientist Division of Research Kaiser Permanente of Northern California

- **The Aging Cancer Patient: Assessing Frailty, Sarcopenia and Accelerated Aging in the Geriatric Oncology Setting**

Grant Williams, Assistant Professor Institute for Cancer Outcomes and Survivorship, University of Alabama at Birmingham

- **Maintaining muscle health in cancer survivors: when and how to intervene**

Kristin Campbell Ph.D, Associate Professor, Faculty of Medicine University of British Columbia

- **Sarcopenia in oncology: prediction and assessment tools for clinical practice**

Elizabeth Cespedes Feliciano, Research Scientist Division of Research Kaiser Permanente Northern California (USA)

2:30/2:50

KEYNOTE 5

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

Bill Evans, Duke University, Durham, (USA)

2:50/3:25

PANEL DISCUSSION

DEFINITION FOR SARCOPENIA

Presentation: Alfonso Cruz Jentoft, Madrid (Spain)

Panel Discussion: Marco Pahor, Gainesville (USA), Yves Rolland, Toulouse (France),

Matteo Cesari, Milan (Italy), Roger Fielding, Boston (USA)

3:25/3:55

COFFEE BREAK - POSTER SESSIONS - EXHIBITS

3:55/4:40

SYMPOSIUM 7

OSTEOSARCOPENIC OBESITY: ENOUGH EVIDENCE FOR A DISTINCT ENTITY?

Organized by the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO), in collaboration with the WHO Collaborating Center on Public Health Aspects of Musculoskeletal Health and Aging, Liège (Belgium)

Symposium moderator : Islene Araujo de Carvalho Geneva (Switzerland), Roger Fielding Boston (USA)

- **Welcome and introduction: Jean-Yves Reginster Liège (Belgium)**

- **Osteosarcopenic obesity: Facts and evidence supporting a distinct entity: Jurgen Bauer Heidelberg (Germany)**

- **Osteosarcopenic obesity: Lack of evidence supporting a distinct entity: Alfonso Cruz Jentoft Madrid (Spain)**

- **Discussion (Leader: René Rizzoli Geneva (Switzerland)): Islene Araujo de Carvalho Geneva (Switzerland), Jurgen Bauer Heidelberg (Germany), Olivier Bruyère, Médéa Locquet, Jean-Yves Reginster Liège (Belgium), Cyrus Cooper Southampton (UK), Alfonso Cruz Jentoft Madrid (Spain), Roger Fielding Boston (USA), Jean-Marc Kaufman Ghent (Belgium) • Conclusion: Cyrus Cooper Southampton (UK)**

- 4:40/4:50 **ORAL COMMUNICATION 16** *Moderators: Roger Fielding, Boston (USA), Mylène Aubertin-Leheudre, Montréal (Canada)*
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)
- 4:50/5:00 **ORAL COMMUNICATION 17**
FRAILTY AMONG PATIENTS WITH ACUTE MYOCARDIAL INFARCTION
Abdulla A. Damluji, Karen Bandeen-Roche, Daniel E. Forman, Gary Gerstenblith, Jin Huang, Mauro Moscucci, Jon R. Resar, Ravi Varadhan, Jeremy D. Walston, Jodi B Segal Johns Hopkins University Baltimore MD (USA)
- 5:00/5:10 **ORAL COMMUNICATION 18**
CHANGE IN METABOLIC AND INFLAMMATORY BIOMARKERS AFTER A 24-WEEK MULTIMODAL INTERVENTION DESIGNED TO IMPROVE FUNCTIONAL STATUS IN HYPERTENSIVE OLDER ADULTS: A PILOT RANDOMIZED CONTROLLED TRIAL
Liliana C. Baptista, PhD¹; Byron C. Jaeger, PhD², Stephen D. Anton, PhD³, Anthony A. Bavry, MD⁴ Eileen M. Handberg, PhD, ARNP¹, 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)
- 5:10/5:20 **ORAL COMMUNICATION 19**
THRESHOLD DEFINITION FOR GRIP STRENGTH TO IDENTIFY RELEVANT WEAKNESS IN SWISS DO-HEALTH PARTICIPANTS
Michael Gagesch, MD^{1,2}. Lauren Abderhalden, PhD^{1,2}. Reto W. Kressig, MD³. Bruno Vellas, MD⁴, René Rizzoli, MD⁵, Gregor Freystätter, MD^{1,2}, Heike A. Bischoff-Ferrari, MD, DrPH^{1,2} for the DO-HEALTH investigators
- 5:20/5:30 **ORAL COMMUNICATION 20**
ASSOCIATION BETWEEN NUTRIENT INTAKE, PHYSICAL ACTIVITY AND SARCOPENIA-RELATED GENE-PROMOTOR DNA METHYLATION
Lingxiao He MS^{1,2}. Praval Khanal MS^{1,2}. Christopher I Morse 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)
- 5:30/5:40 **ORAL COMMUNICATION 21**
USING SOCIALLY ASSISTIVE ROBOTS FOR MONITORING AND PREVENTING PHYSICAL FRAILTY AMONG OLDER ADULTS: A STUDY ON USABILITY AND USER EXPERIENCE
Lex van Velsen^{1,2}, Richelle A.C.M. Olde Keizer¹, Mathieu Moncharmont², Brigitte Riche³, Nadir Ammour³, Gianluca Zia^{4,5}, Hermie Hermens^{1,2}, Aurèle N'Dja³ and Susanna Del Signore^{5,1} 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, (UK)
- 5:40/5:50 **ORAL COMMUNICATION 22**
A GENOME-WIDE ASSOCIATION STUDY OF GRIP STRENGTH IN UK BIOBANK TO IDENTIFY GENETIC DETERMINANTS OF MUSCLE FUNCTION AND POTENTIAL THERAPEUTIC TARGETS FOR SARCOPENIA
Aaron Hinken, David Frederick, Mark Harpel, Fritz Kramer, Jaclyn Kerr, Jacqueline Panigel- Muscle Metabolism DPU, GSK Dawn Waterworth, Lea Sarov-Blat, Deepak Rajpal, Johannes Freudenberg - Target Sciences, GSK - Collegeville PA (USA)
- 5:50/6:00 **ORAL COMMUNICATION 23**
EFFECT OF LOSARTAN AND FISH OIL ON SECONDARY OUTCOMES IN THE ENRGISE PILOT RANDOMIZED CLINICAL TRIAL
Jane A. Cauley, DrPH¹, Stephen Anton, PhD², Dan Beavers, PhD³, Roger Fielding, PhD⁴, Stephen Kritchevsky, PhD³, Christiaan Leeuwenburgh, PhD², Kristina Lewis, MD, MPH, SMP, Christine Liu, MD, MS³, Laura Lovato, MS³, Ching-ju (Jane) Lu, MPH², Todd Manini, PhD², Mary McDermott, MD⁵, Mike Miller, PhD², Anne Newman, MD, MPH¹, Barbara Radziszewska, PhD, MPH⁶, Cindy L. Stowe, MPMP⁶, Russell Tracy, PhD⁷, Mike Walkup, MS³, Samuel Wu, PhD², Walter Ambrosius, PHD³, Marco Pahor, MD², ⁽¹⁾ University of Pittsburgh, Pittsburgh, PA, USA ⁽²⁾ University of Florida, Gainesville, FL, USA ⁽³⁾ Wake Forest School of Medicine, Winston-Salem, NC, USA ⁽⁴⁾ Tufts University, Boston, MA, USA ⁽⁵⁾ Boston University School of Medicine, Boston, MA, USA ⁽⁶⁾ Northwestern University, Chicago, IL, USA ⁽⁷⁾ University of Vermont, Burlington VT, USA ⁽⁸⁾ National Institutes of Health, Bethesda MD, (USA)

6:00/7:30

SPRINTT SYMPOSIUM

SARCOPENIA & PHYSICAL FRAILTY IN OLDER PEOPLE: MULTI-COMPONENT TREATMENT STRATEGIES

Symposium moderator : Roberto Bernabei, Roma, (Italy), Bruno Vellas, Toulouse, (France)

- **Baseline characteristics of eligible SPRINTT screenees**

Francesco Landi, Catholic University of the Sacred Heart, Rome (Italy)

- **SPRINTT biomarker study: rationale and methods**

Emanuele Marzetti, Policlinico Universitario Agostino Gemelli, Rome, (Italy)

- **Pharmacological and nutraceutical approaches to sarcopenia**

Dan Rooks, Novartis Institutes for BioMedical Research (USA)

7:30/9:00

ICFSR NETWORKING RECEPTION IN EDEN ROC GARDENS

(PRE-REGISTERED ATTENDEES ONLY)

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

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

Ryan 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 25

MULTICENTER COHORT STUDY OF FRAILTY AND ACCESS TO KIDNEY TRANSPLANTATION

Christine E. Haugen MD (1), Nadia M. Chu PhD MPH (1,2), Hao Ying MHS (1), Fatima Warsame BA (1), 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) Mara McAdams-DeMarco 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. (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 Weiyang 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, PhD¹, Qian-Li Xue, PhD², Leocadio Rodríguez Mañas, MD, PhD², 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

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

- 11:15/11:30 **CONFERENCE 11** Moderators: Debra Waters, Dunedin, (New Zealand), Suzette Pereira, Columbus (USA)
ROLE OF MALNUTRITION IN THE DEVELOPMENT OF FRAILTY AND COST IMPLICATIONS AMONG COMMUNITY-DWELLERS
 Beatriz Rodriguez-Sánchez, PhD¹, José Antonio Carnicero-Carreño, PhD², **Suela Sulo**, PhD³, Ricardo Rueda MD, PhD⁴, Jamie Partridge, PhD, MBA³, Suzette Pereira, PhD³, Leocadio Rodríguez-Mañás MD, PhD^{2,5} ⁽¹⁾Universidad de Castilla-La Mancha, Spain ⁽²⁾Geriatric Department Fundación de Investigación Biomédica, Hospital Universitario de Getafe, Getafe, Spain ⁽³⁾ Abbott Nutrition, Columbus, OH, USA ⁽⁴⁾Abbott Nutrition, Granada, Spain ⁽⁵⁾Geriatric Department, Hospital Universitario de Getafe, Getafe, Spain
- 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 autonoma 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 Larrañaga ⁽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 27**
NETWORK ANALYSIS OF FRAILTY AND AGING: EMPIRICAL DATA FROM THE MEXICAN HEALTH AND AGING STUDY
 Carmen García-Peña, Ricardo Ramírez-Aldana, Lorena Parra-Rodríguez, Juan Carlos Gómez-Verján, Mario Ulises Pérez-Zepeda, **Luis Miguel Gutierrez-Robledo**. Instituto Nacional de Geriatria (Mexico)
- 12:10/12:20 **ORAL COMMUNICATION 28**
NORMATIVE DATA FOR AND PREDICTORS OF 5-YEAR CHANGE IN GAIT SPEED AMONG U.S. OLDER ADULTS IN THE NATIONAL SOCIAL LIFE, HEALTH AND AGING STUDY
Huisingh-Scheet M¹, Kocherginsky M², Ferguson M³, Huang E⁴, Schumm LP⁵, Waite L⁶ ¹University of Chicago Medicine, Department of Medicine, Section of Geriatrics and Palliative Care Medicine, Chicago, IL² Northwestern University, Department of Preventive Medicine, Chicago, IL³University of Chicago Medicine, Department of Surgery, Section of Thoracic Surgery⁴University of Chicago Medicine, Department of Medicine, Section of General Medicine, Chicago⁵ University of Chicago, Dept of Public Health Sciences, Chicago, ⁶University of Chicago, Department of Sociology & NORC (USA)
- 12:20/12:30 **ORAL COMMUNICATION 29**
EFFECT OF OMEGA-3 FATTY ACID INTAKE ON RED BLOOD CELL FATTY ACID COMPOSITION AND ASSOCIATION WITH INFLAMMATION AND MOBILITY
R.A. Fielding, R.A. Fielding, PhD¹, T. Manini, PhD², A. Newman, MD³, M.M. McDermott, MD⁴, S. Anton, PhD², S.B. Kritchevsky, PhD⁵, R. Tracy, PhD⁶, W.T. Ambrosius, PhD⁷, L. Lovato, MS⁸, Suzette Pereira, PhD⁹, A. Santos, MS⁹, M. Pahor, MD⁹. ⁽¹⁾ Nutrition, Exercise Physiology, and Sarcopenia Laboratory, Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University, Boston, MA, USA ⁽²⁾ Department of Aging and Geriatric Research, University of Florida, Gainesville, FL, USA ⁽³⁾ Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh PA, USA ⁽⁴⁾ Division of General Internal Medicine and Geriatrics, Feinberg School of Medicine, Northwestern University, Chicago, Illinois, USA ⁽⁵⁾ Sticht Center on Aging, Wake Forest School of Medicine, Winston-Salem, NC, USA ⁽⁶⁾ Departments of Pathology & Laboratory Medicine, and Biochemistry, Larner College of Medicine, University of Vermont, Burlington, Vermont, USA ⁽⁷⁾ Department of Biostatistics and Data Science, Division of Public Health Sciences, Wake Forest School of Medicine, Winston-Salem, NC, USA ⁽⁸⁾ Abbott Nutrition, Columbus, OH, USA ⁽⁹⁾ Abbott Nutrition, Granada, Spain
- 12:30/12:40 **ORAL COMMUNICATION 30**
NOVEL INFLAMMATORY BIOMARKERS AND THE ONSET OF FRAILTY AND MAJOR MOBILITY DISABILITY IN THE ENRIGISE PILOT TRIAL
Stephen B. Kritchevsky PhD¹, Russell Tracy, PhD², Todd M. Manini, PhD³, Anne B. Newman, MD, MPH⁴, Mary McDermott, MD⁵, Roger Fielding, PhD⁶, Laura Lovato, PhD⁷, Ezequiel Zamora, MD¹, Marco Pahor, MD⁹ ⁽¹⁾ Section on Gerontology and Geriatric Medicine, Department of Internal Medicine, Sticht Center for Healthy Aging and Alzheimer's Prevention, Winston-Salem, NC, USA ⁽²⁾ Department of Pathology & Laboratory Medicine, Larner College of Medicine, University of Vermont, Burlington, VT, USA ⁽³⁾ Department of Aging and Geriatric Research, College of Medicine, University of Florida, Gainesville, FL, USA ⁽⁴⁾ Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, USA ⁽⁵⁾ Department of Medicine, General Internal Medicine and Geriatrics, Feinberg School of Medicine, Northwestern University, Chicago, IL, USA ⁽⁶⁾ Nutrition exercise physiology and sarcopenia laboratory, Jean Mayer USDA Human Nutrition Research Center on Aging Tufts University Boston USA ⁽⁷⁾ Dept of Biostatistics and Data Science, Div. of Public Health Sciences, Wake Forest School of Medicine, Winston-Salem, USA
- 12:40/12:50 **ORAL COMMUNICATION 31**
EFFECT OF AEROBIC OR RESISTANCE EXERCISE OR BOTH ON BODY COMPOSITION AND METABOLIC AND PHYSICAL FUNCTION IN OBESE OLDER ADULTS WHILE DIETING: RESULTS FROM THE LITOE RANDOMIZED CLINICAL TRIAL
Debra L. Waters University of Otago Department of Medicine, School of Physiotherapy, Dunedin, New Zealand and University of New Mexico School of Medicine, Department of Internal Medicine, Albuquerque, New Mexico; Lina Aguirre New Mexico VA Health Care System, Albuquerque, New Mexico and University of New Mexico School of Medicine, Department of Internal Medicine, Albuquerque, New Mexico; A. Burke Gurney University of New Mexico School of Medicine, Division of Physical Therapy, Albuquerque, New Mexico; David R. Sinacore Washington University School of Medicine Program in Physical Therapy, St. Louis, Missouri; Kenneth Fowler New Mexico VA Health Care System Albuquerque, New Mexico; Reina Armamento Villareal Baylor College of Medicine, and the Center for Translational Research on Inflammatory Diseases, Division of Endocrinology, Diabetes, and Metabolism, Michael E. DeBakey Veterans Affairs (VA) Medical Center, Houston, Texas; Clifford Qualls University of New Mexico School of Medicine, Department of Mathematics and Statistics, Albuquerque, New Mexico; Dennis T. Villareal Baylor College of Medicine, and the Center for Translational Research on Inflammatory Diseases, Division of Endocrinology, Diabetes, and Metabolism, Michael E. DeBakey Veterans Affairs (VA) Medical Center, Houston, Texas
- 12:50/1:50 **LUNCH BREAK - POSTER SESSIONS - EXHIBITS**

1:50/2:35

SYMPOSIUM 9

SELECTION OF RELEVANT OUTCOMES IN SARCOPENIA: A DISCRETE CHOICE EXPERIMENT

Organized by the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO), in collaboration with the WHO Collaborating Center on Public Health Aspects of Musculoskeletal Health and Aging, Liège (Belgium)

Symposium moderator: **Mickaël Hiligsmann** Maastricht (the Netherlands), **Charlotte Beaudart** Liège (Belgium)

- **Welcome and introduction:** **Jean-Yves Reginster** Liège (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** Liège (Belgium)): **Islene Araujo de Carvalho** Geneva (Switzerland), **Jurgen Bauer** Heidelberg (Germany), **Charlotte Beaudart, Olivier Bruyère, Jean-Yves Reginster** Liège (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** Liège (Belgium)

2:35/3:15

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)

3:15/3:45

COFFEE BREAK - POSTER SESSIONS - EXHIBITS

3:45/3:55

ORAL COMMUNICATION 32 Moderators: **Jorge Ruiz**, Miami (USA), **Catherine Jankowski**, Aurora (USA)

BIOMARKERS OF SARCOPENIA IN VERY OLD PATIENTS WITH HIP FRACTURE

Alfonso-Jose Cruz-Jentoft MD, PhD¹, **Carmen Sánchez-Castellano** MD, PhD¹, **Paloma Bermejo-Bescós** PhD², **María-Nieves Vaquero Pinto** ⁽¹⁾, **Carmen Miret-Corchado** ⁽¹⁾, **Sagrario Martín-Aragón** PhD^{2, (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 33

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), MCh; **Audrey Yeo**, BMSc³; **Suzanne Yew**, BSN³; **Yew-Yoong Ding**, MBBS, FAMS, FRCP (Edin), PhD^{2,3}; **Wee-Shiong Lim**, MBBS, MRCP (UK), MMed (Int Med), MHPed, AGSF, FAMS^{2,3} ⁽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 34

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 Natuional Medical Center, Washington DC, (USA)

4:15/4:25

ORAL COMMUNICATION 35

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)

4:25/4:35

ORAL COMMUNICATION 36

A RANDOMIZED CONTROLLED PILOT AND FEASIBILITY EXERCISE AND PROTEIN EFFECTIVENESS SUPPLEMENTATION STUDY SUPPORTING AUTONOMY IN COMMUNITY-DWELLING FRAIL OLDER ADULTS

Agathe Daria Jadczyk^{1,2}, **Renuka Visvanathan**^{1,2,3}, **Robert Barnard**⁴, **Natalie Luscombe-Marsh**⁵ ¹ 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 ³ Aged and Extended Care Services, The Queen Elizabeth Hospital, Central Adelaide Local Health Network, Adelaide, South Australia, Australia ⁴ Centre for Physical Activity in Ageing (CPAA), Central Adelaide Local Health Network, Adelaide, South Australia, Australia ⁵ Health and Biosecurity, Commonwealth Scientific Industrial Research Organisation (CSIRO), Adelaide, South Australia, Australia

4:35/4:45

ORAL COMMUNICATION 37

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 ELDERLY (LIFE) STUDY

J Brown University of Florida Gainesville (USA), **Patrick Squires**, PharmD¹, **Marco Pahor**, MD², **Todd Manini**, PhD², **Joshua Brown**, PharmD, PhD¹ ¹Department of Pharmaceutical Outcomes & Policy, University of Florida College of Pharmacy ²Institute on Aging, University of Florida College of Medicine

4:45/4:55

ORAL COMMUNICATION 38

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 Choo**, **Nicolo Piazza** MD PhD, **Giuseppe Martucci** MD, **José A Morais** MD, **Dae H Kim** MD ScD, **Amanda Trnkus** MSc **Jonathan Afilalo** MD MSc, on behalf of the FRAILTY-AVR Investigators.

END OF THE CONFERENCE