

Preliminary program

Toulouse '11 / Orlando '12 / Séoul '13 / Barcelona '14 / Boston '15 / Philadelphia '16 / Barcelona '17 / Miami Beach '18

9th EDITION

ICFSR 2019

International Conference on Frailty & Sarcopenia Research

February 20-22, 2019 • Miami Beach, USA

LATE CALL FOR ABSTRACTS January 2-14, 2019



EDEN ROC HOTEL
4525 Collins Ave, Miami Beach, FL USA



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



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Preliminary Program • Wednesday • February 20, 2019

8:30/9:00

WELCOME

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

9:00/9:20

KEYNOTE 1

DO-HEALTH TRIAL Chairman : B.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

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)

• **Agging 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)

• **Agging 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

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

10:20/10:35

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

10:35/11:05

COFFE BREAK – POSTERS

11:05/11:20

CONFERENCE 3

ALLOGENEIC BONE MARROW-DERIVED MESENCHYMAL STEM CELLS AS A TREATMENT FOR AGING RELATED INDICATIONS

J Hare, Longeveron LLC: Miami, FL, USA

11:20/11:35

CONFERENCE 4

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

Matt S. Stock¹, Jacob A. 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

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, 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

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11:50/12:00

ORAL COMMUNICATION 1

MEMBRANE LIPID REPLACEMENT WITH ORAL NTFCTOR 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

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 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

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, 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) 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 FRAILITY: 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 Veroniki,6,7, 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

12:30/1:50

LUNCH BREAK – POSTERS

1:50/2:35

SYMPOSIUM 2

NOVEL TARGETS FOR TREATING PHYSICAL AND COGNITIVE SYMPTOMS OF FRAILITY

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

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

2:35/2:55

KEYNOTE 2

EFFECT ON PROTEIN INTAKE ON MUCLE MASS, PERFORMANCE AND PHYSICAL FUNCTION IN FONCTIONALLY LIMITED OLDER ADULTS

Chairman : M Pahor, Gainesville, FL, USA

Shalender Bhasin, Harvard Medical School, Boston USA

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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

SYMPOSIUM 3

BIOENERGETICS OF FRAILITY: FROM THE ANIMAL MODELS TO THE HUMAN EVIDENCE

Symposium moderator and affiliations: 1) Leocadio Rodriguez Manas, MD, PHD, Director GARN-IAGG scientific Director of ciberfes, head of the department of geriatrics, hospital universitario de Getafe, Spain - 2) 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 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 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, 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 Mukamal MD, MPH 7 1. Department of Biostatistics, University of Washington, Seattle, WA 2. Division of Endocrinology Kaiser Permanente of Georgia and the Division of Endocrinology, Emory University School of Medicine, Atlanta, GA 3. Geriatric Research Education and Clinical Center, VA Health Care System, Minneapolis, MN 4. Department of Medicine, University of California at Davis, Modesto, CA 5. Department of Epidemiology, Graduate School, 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 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 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 Fangfa, MD1, Yao Lu, ScM2, Larry Yao, MD3, Karla V. Ballman, PhD2, Patrick Kortebein, MD1, Robert J. Canter, 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

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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 MSc1, Carolyn Anne Greig PhD2, Karina Pfrimer PhD1, Priscila Carvalho MSc 3, 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 Ferriolli 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

5:30 – 5:40

ORAL COMMUNICATION 10 • LATE BREAKING NEWS

5:40 – 5:50

ORAL COMMUNICATION 11 • LATE BREAKING NEWS

5:50 – 6:00

ORAL COMMUNICATION 12 • LATE BREAKING NEWS

Preliminary Program • Thursday • February 21, 2019

- 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 CAPACITIES
Matteo Cesari, Granda Universtia di Milano, 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 Waltson, 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
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*
- 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 Civiletto, 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
L Thompson, Dongmin Kwak, Boston University Cory Baumann, University of Minnesota

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12:10/12:20

ORAL COMMUNICATION 19

AGING-ASSOCIATED LOSS OF HYPOXIA SIGNALING LIMITS SKELETAL MUSCLE REGENERATION

Indranil Sinha MD1,4, 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

12:20/12:30

ORAL COMMUNICATION 20

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

Montero-Odasso M MD PhD AGSF FRCPC1,2,3, Sakurai R PhD4, Bray NW MSc1,3,5, Pieruccini-Faria F PhD1,3, Sarquis-Adamson Y1 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

12:30/1:30

LUNCH INDUSTRY SYMPOSIUM

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

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

René Lafont1,2, Pierre Dilda1, Laurence Dinan1 and Stanislas Veillet1 1 Biophytis, Sorbonne Université, BC9, Paris, France 2 Sorbonne Université, UFR 927, IBPS-BIOSIPE, CNRS, 75005 Paris, France

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

Waly Dioh1, Cendrine Tourette1, Carole Margalef1, René Lafont1,2, 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 06, CNRS - Institut de Biologie Paris Seine (BIOSIPE), Paris, France 3 Bluecompanion Ltd, London, United Kingdom

1:50/ 2:35

SYMPOSIUM 5

SPECIAL CONSIDERATIONS OF THE CANCER PATIENT WITH SARCOPENIA AND FRAILTY

Symposium moderator and affiliations: 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 I (equivalent to Assistant Professor) Division of Research Kaiser Permanente Northern California

2:35/2:55

KEYNOTE 5

BIOMARKERS FOR SARCOPENIA

Chairman : M. Cesari, Milano, Italy
Bill Evans, Duke University, Durham, USA

2:55/3:25

COFFEE BREAK – POSTERS

3:25/3:55

PANEL DISCUSSION

PANEL DISCUSSION ON DEFINITION FOR SARCOPENIA

Presentation: Alfonso Cruz Jentoft (Madrid - Spain)

Panel Discussion: Marco Pahor (Gainesville - USA), Yves Rolland (Toulouse-France), Matteo Cesari (Milan - Italy), Roger Fielding (Boston - USA)

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3:55/4:40

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, Jürgen Bauer, Olivier Bruyère, Cyrus Cooper, Alfonso Cruz Jentoft, Roger Fielding, Jean-Marc Kaufman, Médéa Locquet, Jean-Yves Reginster.*
- **Conclusion:** *Cyrus Cooper*

4:40/4:50

ORAL COMMUNICATION 21

COMPARAISON DE HAUTE-INTENSITÉ INTERVAL TRAINING ET MODÉRÉE-INTENSITÉ CONTINUOUS TRAINING SUR CAPACITÉS PHYSIQUES ET FONCTIONNELLES CHEZ DES ADULTES OBÈS

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 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

5:00/5:10

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

5:10/5:20

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 Freystätter, MD1,2, Heike A. Bischoff-Ferrari, MD, DrPH1,2 for the DO-HEALTH investigators

5:20/5:30

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

5:30/5:40

ORAL COMMUNICATION 26 • LATE BREAKING NEWS

5:40/5:50

ORAL COMMUNICATION 27 • LATE BREAKING NEWS

5:50/6:00

ORAL COMMUNICATION 28 • LATE BREAKING NEWS

Preliminary Program • Friday • February 22, 2019

- 8:00/9:00 **BREAKFAST INDUSTRY SYMPOSIUM**
Hosted by LONGEVERON
- 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), Dory 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.
- 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 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
- 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 Rodríguez 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

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- 10:45/11:15 **COFFE BREAK – POSTERS**
- 11:15/11:30 **CONFERENCE 11**
ROLE OF MALNUTRITION IN THE DEVELOPMENT OF FRAILITY 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**
FRAILITY AND SARCOPENIA IN LATIN AMERICA. PRESENT AND FUTURE.
Clemente Zuniga-Gil, head of the geriatric department at Tijuana's general hospital. universidad autonoma de Baja California. Mexico
- 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); Deborá 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 32**
NETWORK ANALYSIS OF FRAILITY AND AGING: EMPIRICAL DATA FROM THE MEXICAN HEALTH AND AGING STUDY
Carmen García-Peña, Ricardo Ramírez-Aldana, Lorena Parra-Rodriguez, 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 Surgery 4 University 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**

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3:15/3:45 **COFFEE BREAK – POSTERS**

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, Maña-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

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