

FINAL PROGRAM

ICFSR 2022

**International Conference on
Frailty & Sarcopenia Research**

April 20-22, 2022 Boston, MA, USA



ONSITE IN BOSTON
and live online via the ICFSR digital platform



Conference venue: REVERE HOTEL 200 Stuart St, Boston, MA 02116, USA

All abstracts and proceedings will be published in the Journal of Frailty Aging (JFA)



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WEDNESDAY • APRIL 20, 2022

ONSITE IN BOSTON at the Revere Hotel and livestreamed on the ICFSR digital platform

2:00 - 3:00

POSTER SESSIONS

3:00 - 3:20

WELCOME: Roger Fielding, Boston (USA), Jorge Ruiz, Miami (USA), Bruno Vellas, Toulouse (France) and Bess Dawson-Hughes, Boston (USA)

PRESENTATION OF THE ICFSR LIFETIME ACHIEVEMENT AWARD

William J. Evans, PhD, University of California, Berkeley, CA (USA)

for his pivotal contributions to the identification of sarcopenia as a clinical syndrome and his career-long work in the fields of nutrition, exercise physiology and healthy aging

3:20 - 3:40

KEYNOTE 1: DEFINING SARCOPENIA: THE GOOD, THE BAD AND THE UGLY

Moderator: Roger Fielding, Boston (USA)

William J. Evans, PhD, University of California, Berkeley, CA (USA)

3:40 - 4:20

SYMPOSIUM 1: THE STUDY OF MUSCLE, MOBILITY AND AGING (SOMMA): AN OVERVIEW AND PRELIMINARY RESULTS

Moderator: Steven R. Cummings, MD Research Institute, California Pacific Medical center and Department of Epidemiology and Biostatistics, University of California, San Francisco, CA, (USA)

• The Study of Muscle, Mobility and Aging (SOMMA): An Overview of the Cohort

Anne B. Newman, MD, Department of Epidemiology, University of Pittsburgh, Pittsburgh, PA (USA)

• Skeletal muscle mitochondrial energetics is associated with leg power generation and cardiorespiratory fitness in older adults in the Study of Muscle Mobility and Aging Study (SOMMA)

Theresa Mau, PhD, Research Institute, California Pacific Medical Center, San Francisco, CA, (USA)

• Cognitive and Physical Function Relationships in the SOMMA study

Stephen B. Kritchevsky, PhD, Department of Internal Medicine: Gerontology & Geriatric Medicine and The Sticht Center for Healthy Aging and Alzheimer's Prevention, Wake Forest School of Medicine, Winston-Salem, NC, (USA)

4:20 - 5:20

CLINICAL TRIALS PRESENTATIONS

Moderators: Jorge Ruiz, Miami (USA) - David J. Marcinek, Seattle (USA)

4:20 - 4:35

OC1 • Biomarker Results from a Phase 2b Clinical Trial Assessing Lomecel-B Infusion in Older Adults with Frailty

Kevin N. Ramdas, MD, MPH, Longeveron Inc., Miami, FL (USA)

4:35 - 4:50

OC2 • Effects of vitamin D, omega-3 fatty acids and a simple home exercise program on pre-frailty prevention among generally healthy and robust adults age 70 and older: The DO-HEALTH randomized clinical trial

Michael Gagesch, MD, University Hospital, Zurich (Switzerland)

4:50 - 5:05

OC3 • Effects of a 2-year exercise training on the neuromuscular system health in older individuals with low muscle function

Marco Narici, PhD, Department of Biomedical Sciences, University of Padova (Italy)

5:05 - 5:20

OC4 • Impact of Urolithin A vs Placebo Supplementation on Muscle Endurance and Mitochondrial Health in Older Adults: A Randomized Clinical Trial

David J. Marcinek, Dept. of Radiology, University of Washington Medical Center, Seattle, WA, (USA)

5:20 - 5:45

ROUNDTABLE

Geroscience Clinical Trial Task Force: Challenges in Developing Geroscience drug trials

Jams. L Kirkland (USA), Bruno Vellas (France), Joan Mannick, (USA), Yves Rolland (France), Shalender Bhasin (USA)

5:45 - 6:00

POSTER SESSIONS

6:00 - 7:00

WELCOME NETWORKING EVENT by the International Geroscience Clinical Trial Task Force and ICSR22

THURSDAY • APRIL 21, 2022

ONSITE IN BOSTON at the Revere Hotel and livestreamed on the ICFSR digital platform

8:00 - 9:00 **POSTER SESSION**

9:00 - 9:30 **ORAL COMMUNICATIONS**

Moderators: Yves Rolland, Toulouse (France) - Peggy Cawthon, San Francisco (USA)

9:00 - 9:10 **OC5 • Association of D3Cr muscle mass with MRI-based measures of muscle size and fat infiltration; strength; and walking speed in older men and women: Preliminary data from the SOMMA study**

Peggy M. Cawthon, PhD, Research Institute, California Pacific Medical Center, Department of Epidemiology and Biostatistics, University of California, San Francisco, CA, (USA)

9:10 - 9:20 **OC6 • Development of a Small Molecule Apelin Mimetic (BGE-105) to Prevent Skeletal Muscle Atrophy, Sarcopenia, and Frailty in Older Adults**

Carrie-Lynn L. Furr, BioAge Labs, Richmond, CA, (USA)

9:20 - 9:30 **OC7 • Sex Differences in the Association of Thigh Muscle Strength, Area, and Specific Force with Lower Urinary Tract Symptoms: the Baltimore Longitudinal Study of Aging**

Scott R. Bauer, MD, ScM, Division of General Internal Medicine, Department of Medicine, University of California, San Francisco, CA (USA)

9:30 - 9:50 **KEYNOTE 2: GEROSCIENCE CLINICAL TRIALS: STRATEGIES FOR TRANSLATING AGENTS TARGETING FUNDAMENTAL AGING MECHANISMS INTO CLINICAL INTERVENTIONS**

Moderator: Bruno Vellas, Toulouse (France)
James Kirkland, MD, Mayo Clinic Rochester, MN (USA)

9:50 - 10:30 **SYMPOSIUM 2: FRAILTY AND SURGERY: INTEGRATING EVIDENCE FOR RISK PREDICTION AND BEYOND**

Moderator: Qian-Li Xue, PhD, Department of Medicine Division of Geriatric Medicine, Johns Hopkins University School of Medicine and Johns Hopkins Center on Aging and Health, Baltimore, Maryland, (USA)

• **Implementation of a Frailty-Focused Perioperative Care Pathway: Is This Value-Based Care?**

Susan Gearhart, MD, Department of Medicine - Geriatric Medicine, Johns Hopkins University School of Medicine, Baltimore, Maryland, (USA)

• **Frailty Assessment as a Component of Comprehensive Geriatric Assessment for Geriatric Trauma Patients**

Maria Cantu-Cooper, MD, Department of Medicine, Division of Geriatrics, Gerontology & Palliative Medicine, University of Texas Health Science Center at San Antonio, San Antonio, TX, (USA)

• **Prevalence of Frailty across Different Hospital Types and Association of In-Patient Mortality in Geriatric Surgery**

Daniel S Rubin, MD, MS, Department of Anesthesia and Critical Care, University of Chicago (USA)

10:30 - 11:00 **COFFEE BREAK AND POSTER SESSION**

11:00 - 11:20 **KEYNOTE 3: BONE AND MUSCLE INTERVENTION**

Moderator: Roger Fielding, Boston (USA)
Bess Dawson-Hughes, MD, Tufts University, Boston, MA (USA)

11:20 - 12:00 **SYMPOSIUM 3: THE D3-CREATINE DILUTION METHOD: MEASUREMENT OF MUSCLE MASS ACROSS THE LIFE SPAN: CHILDREN, NEUROMUSCULAR DISEASE, AGING MEN AND WOMEN**

Moderator: Luigi Ferrucci, MD, PhD National Institute on Aging, Baltimore, MD (USA)

• **The D3-creatine dilution method**

William J Evans, PhD, University of California, Berkeley CA(USA)

• **D3Cr muscle mass and assessment skeletal muscle quality**

Eric Orwoll, MD, Oregon Health & Science University, Portland, OR (USA)

• **Muscle mass as a powerful risk factor for health-related outcomes in older people**

Peggy Cawthon, PhD, California Pacific Medical Center Research Institute, San Francisco, CA (USA)

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- 12:00 - 12:30 **ORAL COMMUNICATIONS**
Moderators : Francesco Landi, Roma (Italy), Anthony A Oliva, Miami (USA)
- 12:00 - 12:10 **OC8 • Lomecel-B as a Geroscience Therapeutic Candidate for Cognitive Frailty**
Anthony A. Oliva, PhD, Longeveron Inc., Miami, FL (USA)
- 12:10 - 12:20 **OC9 • Nicotinamide N-methyltransferase inhibitor treatment combined with exercise improves muscle strength and running capacity in aged mice**
Harshini Neelakantan, Ridgeline Therapeutics, Houston TX (USA)
- 12:20 - 12:30 **OC9 bis • RJx-01 into the clinic: a first-of-its kind muscle disease study**
Ann Belien, PhD, Rejuvenate Biomed, Heusden-Zolder (Belgium)
- 12:30 - 1:30 **LUNCH SYMPOSIUM** sponsored by Nestle Health Science
THE CROSS-TALK BETWEEN IMMUNE & MUSCLE HEALTH: NUTRITION INTERVENTIONS TO SUPPORT HEALTH IN AGING
- **Is there a link between sarcopenia and immune senescence?**
Darren G. Candow, PhD, Faculty of Kinesiology and Health Studies, University of Regina, Regina SK (Canada)
 - **Nutritional interventions to support muscle and immune health in older adults**
Roger Fielding, PhD, Jean Mayer USDA Human Nutrition Research Center on Aging at Tufts University, Boston, MA (USA)
 - **Learnings from Covid-19: risks of physical function decline and sarcopenia from hospital to home**
Yves Rolland, MD, PhD, University Hospital of Toulouse, Toulouse (France)
 - **Additional considerations for clinical application**
Darren G. Candow, PhD, Faculty of Kinesiology and Health Studies, University of Regina, Regina SK (Canada)
- 1:30 - 2:00 **POSTER SESSION and COFFEE BREAK** sponsored by Nestle Health Science
- 2:00 - 2:20 **ORAL COMMUNICATIONS**
Moderators : Bruno Vellas, Toulouse (France)
- 2:00 - 2:10 **OC10 • Association of Frailty with Breakthrough COVID Infection after Vaccination In Patients with Cancer and Frailty, A Nationwide US VA Study**
Natasha M. Resendes, Miami Geriatric Research Education Clinical Center, Miami VAHS, Miami FL, USA
- 2:10 - 2:20 **OC11 • Icope implementation in clinical practice : data from 17,000 seniors part of the Icope Monitor digital program to maintain function and prevent dependency in France**
Bruno Vellas MD, PhD, Toulouse (France)
- 2:20 - 3:00 **SYMPOSIUM 4: NEUROMUSCULAR JUNCTION TRANSMISSION FAILURE IN SARCOPENIA**
Moderator: Roger Fielding, Tufts University, Boston (USA), Matteo Cesari, PhD, University of Milan (Italy)
- **Neuromuscular junction transmission failure is associated with weakness and impaired muscle function in aged rodents**
W. David Arnold, MD, Department of Neurology, The Ohio State University, Columbus, OH, (USA)
 - **Neuromuscular junction transmission failure is associated with weakness and impaired muscle quality in sarcopenic older adults**
Brian C. Clark, PhD, Ohio Musculoskeletal and Neurological Institute, Ohio University, Athens, OH, (USA)
 - **Investigating ClC-1 chloride channel inhibition as a therapeutic strategy for sarcopenia**
Thomas Holm Pedersen, PhD, NMD Pharma A/S, Aarhus, (Denmark)
- 3:00 – 3:30 **ORAL COMMUNICATIONS**
Moderators : Nathan le Bousseur, Rochester (USA), David Lynch, Chapel Hill (USA)
- 3:00 - 3:10 **OC12 • Association Between Physical Frailty and Quality of Life: National Health and Aging Trend Study (NHATS) 2011-2020**
David H Lynch, MD, Division of Geriatric Medicine and Center for Aging and Health, UNC School of Medicine, Chapel Hill, NC (USA)
- 3:10 - 3:20 **OC13 • Relationship between Severity and Laterality of Age-Related Sensory Decline and Frailty In Multi-ethnic Elderly Asians**
Ecosse L Lamoureux, PhD, Singapore Eye Research Institute and Singapore National Eye Centre, (Singapore)
- 3:20 - 3:30 **OC14 • Can RANKL inhibition ameliorate sarcopenia?**
John Gostage, MRes, Dept of Oncology and Metabolism, University of Sheffield -Sheffield (UK)

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3:30 - 4:00 COFFEE BREAK AND POSTER SESSION

4:00 - 5:00 ORAL COMMUNICATIONS

Moderators : Mylène Aubertin-Leheudre, Montréal (Canada), Alex Colville, Stanford (USA)

4:00 - 4:10 **OC15 • Higher dietary protein intake is associated with sarcopenia in older British twins: a TwinsUK Study**
Mary Ni Lochlainn, King's College London, Department of Twin Research and Genetic Epidemiology, London, (UK)

4:10 - 4:20 **OC16 • Death-seq identifies regulators of cell death and senolytic therapies**
Alex Colville, PhD, Paul F. Glenn Center for the Biology of Aging and Department of Neurology and Neurological Sciences, Stanford University School of Medicine, Stanford, CA, (USA)

4:20 - 4:30 **OC17 • Physical Frailty and Cognitive Function among Older Chinese Adults: The Mediating Roles of Activity of Daily Living Limitations and Depression**
Changmin Peng, University of Massachusetts Boston, MA (USA)

4:30 - 4:40 **OC18 • Association between sarcopenia and risk of all-cause and cardiovascular disease-specific death in cancer survivors and counterparts without cancer history**
Dongyu Zhang, MD, PhD, Department of Epidemiology, University of Florida College of Public Health and Health Professions, Gainesville, FL, (USA)

4:40 - 4:50 **OC19 • Health trajectories of elderly living in Senior Housing: A Longitudinal Perspective**
Maturin Tabue-Teguo, University Hospital of Guadeloupe, Pointe-a-Pitre -Team LAMIA, University of West Indies, Guadeloupe(France)

4:50 - 5:00 **OC20 • MicroRNAs in women with dynapenia and dynapenic abdominal obesity**
Lisa Dowling, BSc, The University of Sheffield (UK)

5:00 - 6:00 POSTER SESSION

FRIDAY • APRIL 22, 2022

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8:00 - 9:00

POSTER SESSION

9:00 - 9:30

ORAL COMMUNICATIONS

Moderators: Natasha Pacheco, Baltimore (USA), Jeremy D Walston, Baltimore (USA)

9:00 - 9:10

OC21 • Sarcopenic Obesity: development and initial validation of a new diagnostic approach based on body composition phenotypes

Vittoria Zambon Azevedo, Sorbonne Universite ; Centre de Recherche de Cordeliers, INSERM UMRS 1138, Paris, (France)

9:10 - 9:20

OC22 • Association Between Tryptophan Metabolites, Physical Performance, and Frailty in Older Persons

Ahmed Al Saedi, the University of Melbourne, Ct Albans (Australia)

9:20 - 9:30

OC23 • Sex-dependent genome-wide transcriptome differences in an urban, community-dwelling middle-aged frailty cohort

Natasha L. Pacheco, PhD, National Institute on Aging, Baltimore, MD (USA)

9:30 - 9:50

KEYNOTE 4: DISORDERED NUTRITION AND FRAILTY: THE INTERSECTION APPETITE DECLINE AND ALTERED ENERGY REQUIREMENTS WITH ADVANCING AGE

Moderator: Bruno Vellas, Toulouse (France)

Roger Fielding, PhD, Tufts University, Boston, MA (USA)

9:50 - 10:30

SYMPOSIUM 5: ADVANCES IN SKELETAL MUSCLE ULTRASOUND IN THE ASSESSMENT OF SARCOPENIA

• Standardisation of ultrasound measures for muscle assessment of sarcopenia: results of the sarcus study

Stany Perikis, MD, Department of Geriatrics, University of Antwerp, Antwerp, (Belgium)

• Age-related alterations in muscle architecture are a signature of sarcopenia: the ultrasound sarcopenia index

Marco Narici, PhD, Department of Biomedical Sciences, University of Padova, (Italy)

• Use of second order texture features and computational approaches to aid ultrasound estimates of muscle quality across clinical settings

Michael O. Harris-Love, PhD, Muscle Morphology, Mechanics, and Performance Laboratory, Rocky Mountain Regional Veterans Affairs Medical Center. Department of Physical Medicine & Rehabilitation, The University of Colorado Anschutz Medical Center, Aurora, CO, (USA)

10:30 - 11:00

COFFEE BREAK AND POSTER SESSION

11:00 - 11:50

ORAL COMMUNICATIONS

Moderators: Nathan Wages, Athens (USA), Luis Muiquel Gutierrez Robledo, Mexico (Mexico)

11:00 - 11:10

OC24 • Key value of inspiratory muscle performance and training in a home-based program to improve functional capacity and body composition in older heart failure patients

Rohan Shah, MD, University of Pittsburgh, Pittsburgh, PA (USA)

11:10 - 11:20

OC25 • BIO101 in Sarcopenia: results of the SARA Program

Cendrine Tourette, PhD, Biophytis - Sorbonne Université, Paris, (France)

11:20 - 11:30

OC26 • Multisystem comorbidities contribute to physical frailty

Yurun Cai, Department of Health and Community Systems, University of Pittsburgh School of Nursing, Pittsburgh, PA, (USA)

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- 11:30 - 11:40 **OC27 • Directly Induced Myoblasts - Modelling the Internal and External Drivers of Sarcopenia**
Robert Radford, Nuritas, Dublin (Ireland)
- 11:40 - 11:50 **OC28 • A mechanistic link between impairments in motor unit firing and clinically meaningful weakness in older adults?**
Nathan P. Wages, PhD, Ohio Musculoskeletal and Neurological Institute, Department of Biomedical Sciences, Ohio University, Athens, OH, (USA)
- 11:50 - 12:30 **SYMPOSIUM 6: EFFECTS OF 12 WEEKS EXERCISE INTERVENTIONS IN OBESE OLDER ADULTS: FROM CLINICAL TO BIOLOGICAL PERSPECTIVES**
Moderator: Mylène Aubertin-Leheudre, PhD, Faculte des Sciences, Departement des sciences de l'activite physique, UQAM & Centre de recherche de l'institut Universitaire de Geriatrie de Montreal (Canada)
- **Effects of 12-weeks aerobic exercise interventions on physical and functional parameters in obese older adults**
Mylène Aubertin-Leheudre, PhD, Faculte des Sciences, Departement des sciences de l'activite physique, UQAM & Centre de recherche de l'institut Universitaire de Geriatrie de Montreal (Canada)
 - **Effects of 12-weeks aerobic exercise interventions on biological parameters in obese older adults**
Philippe Noirez, PhD, 1 UFR STAPS, Performance Sante Metrologie Societe (EA-7507), Universite de Reims Champagne-Ardenne, Reims, (France)
 - **Are metabolomic adaptations following 12-weeks aerobic exercise interventions related to physical improvements in obese older adults?**
Youssef Layale, Ecole de Kinesiologie et des Sciences de l'Activite Physique (EKSAP), Universite de Montreal, Centre de Recherche de l'Institut Universitaire de Geriatrie de Montreal (Canada)
- 12:30 - 2:00 **LUNCH on your own**
- 2:00 - 2:40 **SYMPOSIUM 7: ORAL HEALTH AND FRAILTY**
Moderator: Luis Miguel Gutierrez-Robledo, PhD, Instituto Nacional de Geriatria National Institutes of Health Health Ministry, (Mexico)
- **The available evidence: Methodological details and results**
Luísa Helena do Nascimento Torres, Federal University of Santa Maria (UFSM), Graduate Program in Dental Sciences, (Brazil)
 - **Integrating the available evidence**
Faisal Hakeem, Centre for Epidemiology Versus Arthritis The University of Manchester Manchester (UK)
 - **Implications, gaps and next steps**
Roberto Carlos Castrejón-Pérez Instituto Nacional de Geriatria National Institutes of Health Health Ministry (Mexico)
- 2:40 - 3:20 **ORAL COMMUNICATIONS**
Moderators: Roger Fielding, Boston (USA), J Quinlan, Birmingham (UK)
- 2:40 - 2:50 **OC29 • Impaired Lower Limb Muscle Mass, Quality and Function in Patients with End Stage Liver Disease: A prospective case-control study**
J I Quinlan, NIHR Birmingham Biomedical Research Centre, University Hospitals Foundation Trust and University of Birmingham, (UK)
- 2:50 - 3:00 **OC30 • Assessing Muscle Quantity and Quality for Sarcopenia Evaluation in Heart Failure Using Opportunistic Thoracic computed Tomography**
Saeid Mirzai, DO, Department of Internal Medicine, Cleveland Clinic, Cleveland, OH, (USA)

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3:00 - 3:10 **OC31 • Sarcopenia and cognitive performance in a cohort of middle-aged and older european men: data from the european male ageing study (emas)**

Nadjia Amini, Department of Public Health and Primary Care, KU Leuven, Leuven, (Belgium)

3:10 - 3:20 **OC33 • The in vitro and in vivo effects of a plant-based functional ingredient for muscle atrophy**

Brian Keogh, Nuritas Limited, Dublin (Ireland)

3:20 - 4:00 **COFFEE BREAK AND POSTER SESSION**

4:00- 6:00 **SARCOPENIA ACROSS SPECIES: A ONE HEALTH APPROACH**
A CTSA One Health Alliance (COHA) Translational Summit

4:00 **Welcome and introductions**

Lisa Freeman, Cummings School of Veterinary Medicine, Friedman School of Nutrition Science and Policy, Tufts University, Boston, MA (USA)

4:10 **• SARCOPENIA: THE CLINICAL PICTURE IN HUMANS**

Roger Fielding, Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University, Boston, MA (USA)

4:35 **• MUSCLE MATTERS: DEFINING SARCOPENIA IN COMPANION ANIMALS DURING AGING AND DISEASE**

Lisa Freeman, Cummings School of Veterinary Medicine, Friedman School of Nutrition Science and Policy, Tufts University, Boston, MA (USA)

4:50 **• COMMON DISEASES ASSOCIATED WITH SARCOPENIA IN PETS**

Valerie Parker, Department of Veterinary Clinical Sciences, The Ohio State University, Columbus, OH (USA)

5:25 **• DOG AGING PROJECT**

Daniel Promislow, Department of Laboratory Medicine and Pathology, UW Medicine, University of Washington Medicine, Seattle, WA (USA)

5:40-7:00 **END OF CONFERENCE RECEPTION Sponsored by the COHA Translational Summit and ICFSR22**

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ONLINE SYMPOSIUM

- SD1 **IMPROVING PROTEIN INTAKE OF OLDER ADULTS: METABOLIC ASPECTS AND IMPACT ON APPETITE AND PHYSICAL FUNCTIONING**
 Moderator: Marjolein Visser, PhD, Department of Health Sciences, Vrije Universiteit Amsterdam, Amsterdam (the Netherlands)
- **Optimization of protein intake in the elderly beyond the amino acid composition: what is the positioning of plant proteins and under what conditions?**
 Dominique Dardevet, PhD, U.Clermont Auvergne, INRAE, UMR1019, Unite Nutrition Humaine, Clermont-Ferrand (France)
 - **Innovative plant protein fibre and physical activity solutions to address poor appetite and prevent undernutrition in older adults: the APPETITE project**
 Dorothee Volkert, PhD, Institute for Biomedicine of Aging, Friedrich-Alexander-Universitat, Nuremberg, (Germany)
 - **The effectiveness of personalized dietary advice to increase protein intake on change in physical functioning in community-dwelling older adults**
 Marjolein Visser, PhD, Department of Health Sciences, Vrije Universiteit Amsterdam, (the Netherlands)

ONLINE ORAL COMMUNICATIONS

- OCD1 **Prevalence of Sarcopenia and its Association with Antirheumatic Drugs in Middle-Aged and Older Adults with Rheumatoid Arthritis: A Systematic Review and Meta-analysis**
 Thang Dao, Department of Medicine-Western Health, Melbourne Medical School, University of Melbourne, St Albans, Australian Institute for Musculoskeletal Science (AIMSS), University of Melbourne and Western Health (Australia)
- OCD2 **Effects of an Individualised Exercise Programme Plus Behavioural Change Enhancement (BCE) Strategies for Managing Fatigue in Frail Older Adults: A Cluster Randomized Randomised Controlled Trial**
 Justina YW Liu, Centre for Gerontological Nursing, School of Nursing, Hong Kong Polytechnic University, Hong Kong, (China)
- OCD3 **Influence of IGF-1 serum concentration on muscular regeneration capacity in patients with sarcopenia**
 Michael Drey, MD, PhD, Department of Medicine IV, Geriatrics, University Hospital of LMU Munich, (Germany)
- OCD4 **Association between frail status and outcomes following COVID-19 infection among US Veterans**
 Catherine Park, PhD, Baylor College of Medicine, Houston, Texas, (USA)
- OCD5 **Sex differences in vastus lateralis muscle during ageing are predominantly quantitative rather than qualitative**
 Jelle CBC de Jong, Human and Animal Physiology, Wageningen University, Wageningen, the Netherlands, Department of Metabolic Health Research, The Netherlands Organization for Applied Scientific Research (TNO), Leiden, (the Netherlands)
- OCD6 **Combined Vitamin D, omega-3 fatty acids and a simple home strength exercise program may reduce cancer risk among active adults age 70 and older: a randomized clinical trial**
 Stephanie Gängler PhD, Universitäts Spital Zürich, Zurich (Switzerland)
- OCD7 **Effects of transdermal testosterone and/or monthly vitamin D on fall risk in pre-frail hypogonadal men age 65 and older: a double blind 2x2 factorial design randomized placebo-controlled trial.**
 Heike A. Bischoff-Ferrari, MD, DrPH, Centre on Aging and Mobility, University of Zurich and City Hospital Zurich, Waid Zurich, Department of Aging Medicine and Aging Research, University of Zurich and University Hospital, Zurich, University Clinic for Aging Medicine, City Hospital Zurich, Waid, Zurich, (Switzerland)
- OCD8 **Risk and type of fractures associated with Osteosarcopenia in community-dwelling older adults**
 Simon Zhang, MD Student, Department of Medicine, Western Health, Melbourne Medical School, University of Melbourne, St Albans, Melbourne, Australian Institute for Musculoskeletal Science (AIMSS), University of Melbourne and Western Health, St Albans, Melbourne, VIC, (Australia)
- OCD9 **Longitudinal analysis of frailty frequency and association with disability in a large cohort of older adults: the Italian Longitudinal Study on Aging**
 Lucia Galluzzo, MA, Department of Cardiovascular, Endocrine-Metabolic Diseases, Istituto Superiore di Sanita, Rome, (Italy)
- OCD11 **Declined Intrinsic Capacity Predicts Long-term Adverse Outcomes in a Longitudinal Study with 8-year follow-up: Results from BLSA**
 Lina Ma, MD, Xuanwu Hospital Capital Medical University, National Clinical Research Center for Geriatric Disorders, (China)
- OCD12 **Association of Baseline Frailty Status and Age with Postoperative Outcomes in Metastatic Brain Tumor Patients: A NSQIP analysis of 5,943 patients**
 Christian A. Bowers, MD, Department of Neurosurgery, University of New Mexico Hospital, Albuquerque, New Mexico, (USA)
- OCD13 **Lysophospholipids and branched chain amino acids are associated with aging: a metabolomics-based study in Chinese older adults**
 Yiming Pan, Department of Geriatrics, Xuanwu Hospital Capital Medical University, National Research Center for Geriatric Medicine, Beijing (China)
- OCD14 **Individualised therapy for elderly patients using exercise and nutrition to reduce dependence post discharge (INDEPENDENCE): a randomised controlled pilot trial**
 Chad Yixian Han, Caring Futures Institute, College of Nursing and Health Sciences, Flinders University, (Australia)
- OCD15 **Are intake and nutritional status of specific polyunsaturated fatty acids correlated with sarcopenia outcomes in community-dwelling older adults with sarcopenia?**
 Jan Dupont, Geriatrics & Gerontology, Department of Public Health and Primary Care, KU - Dept of Geriatric Medicine, University Hospitals Leuven, (Belgium)
- OCD16 **Modulating the expression of the mitochondrial fission protein Drp1 is not a viable therapeutic target to counteract sarcopenia**
 Gilles Gouspillou, Département des sciences biologiques - Dept des sciences de l'activité physique, UQAM, (Canada)

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- OCD17** **Understanding the role of nutritional status, body composition and insulin resistance on healthcare costs among community-dwelling older adults**
Beatriz Rodriguez-Sanchez, PhD, Departamento de Economía Aplicada, Economía Pública y Economía Política, Facultad de Derecho, Universidad Complutense de Madrid, Madrid, (Spain)
- OCD18** **Frailty and New Onset Atrial Fibrillation in Older Patients Hospitalized with COVID-19 Infection**
Gustavo A. Vargas, MD, Miami VAHS Geriatric Research, Education and Clinical Center (GRECC), Miami, FL, (USA)
- OCD19** **Myosteatosis and Post-Kidney Transplant Outcomes**
Mara McAdams-DeMarco, PhD, Department of Surgery, New York University, New York City, NY (USA)
- OCD20** **Prevalence of frailty in older adults during the COVID-19 pandemic in Southern Switzerland: The Corona Immunitas Ticino cohort study**
Miao Jiang, MD, MSc, Institute of Public Health, Università della Svizzera italiana, Lugano, (Switzerland)
- OCD21** **Factors associated with physical performance in older adults with long covid**
Matteo Tosato, MD, PhD, Fondazione Policlinico Universitario A. Gemelli IRCCS, Rome, (Italy)
- OCD22** **Cardiovascular Outcomes Based on Patterns of Frailty and Cognitive Impairment Development**
Naila Ijaz, MD, Inova Heart and Vascular Institute, Falls Church, VA (USA)
- OCD23** **Using the Clinical Frailty Scale to Characterize Physical Function Recovery Trajectories of Hospitalized Adults Referred to a Physiotherapy Rehabilitation Service: Preliminary analysis of 738 Patients**
Jennifer R A Jones, Physiotherapy Department, The University of Melbourne, (Australia)
- OCD24** **Diagnosis of Sarcopenic Dysphagia in the Elderly: Critical Review**
Sara Abu-Ghanem, MD, SUNY Downstate- School of Medicine, Brooklyn, New York, (USA)
- OCD25** **Lower protein, fiber intake and physical activity are associated with more impaired cognitive status among enrollees in the trial of the interactive Physical and Cognitive Exercise System (iPACES) for mild cognitive impairment (MCI)**
Paul Arciero, DPE, Health and Human Physiological Sciences, Skidmore College (NY) - iPACES LLC (NY) (USA)
- OCD26** **Protein intake and the risk of pre-frailty/frailty in Norwegian older adults. The Tromsø Study 1994 - 2016**
Dina Moxness Konglevoll, Department of Nutrition, Institute of Basic Medical Sciences, University of Oslo, Oslo, (Norway)
- OCD28** **Frailty Index, Phenotypic Age, and Risk of All-cause Mortality among the US adults**
Zilun Shao, West China School of Public Health, Sichuan University, Chengdu, Sichuan, (China)
- OCD29** **Impact of muscle mass on survival of patients with Hepatocellular Carcinoma after liver transplantation beyond the Milan Criteria**
Berend Beumer, Erasmus MC Transplant Institute, Department of Surgery, Division of HPB & Transplant Surgery, University Medical Centre Rotterdam, Rotterdam, (The Netherlands)
- OCD30** **Genome Wide-Association Meta-Analysis of Physical Performance in Older Adults.**
Adam J. Santanasto, Department of Epidemiology, University of Pittsburgh, Pittsburgh, PA, (USA)
- OCD31** **Slow Gait Speed is Associated with Worse Post-Operative Outcomes in Cardiac Surgery: A Systematic Review and Meta-Analysis**
Jaewon Chang, The Royal Melbourne Hospital, Parkville, Melbourne, VIC, (Australia)
- OCD32** **Prevalence and risk factors of cognitive frailty in community-dwelling older adults with diabetes: A systematic review and meta-analysis**
Ling-Na Kong PhD, School of Nursing, Chongqing Medical University, Chongqing (China)
- OCD33** **The relevance of frailty status for plasma concentrations of direct oral anticoagulants in older patients-Results of an exploratory study**
Annette Eidam, MD, Center for Geriatric Medicine, Heidelberg University, AGAPLESION Bethanien Hospital Heidelberg, Heidelberg, (Germany)
- OCD34** **Slowness is better than frailty to identify functional decline in older adults**
Tiago da Silva Alexandre, Gerontology Department, Federal University of Sao Carlos, Sao Paulo (Brazil)
- OCD35** **Can long-term physical performance trajectories in older adults be affected by dynapenic abdominal obesity?**
Tiago da Silva Alexandre, Gerontology Department, Federal University of Sao Carlos, Sao Paulo (Brazil)
- OCD36** **Mortality hazard of hypertension and diabetes, and inverse effects of obesity and circulating branched-chain amino acids in old age**
Erik Fung, MChB, PhD, Faculty of Medicine, The Chinese University of Hong Kong (Hong Kong)
- OCD38** **Vitamin D deficiency and sarcopenia in women**
Nataliia Grygorieva, Institute of Gerontology named after D.F. Chebotarev NAMS (Ukraine)
- OCD39** **Lipid Signaling Mediators Regulate Bone-Muscle Crosstalk During Development Ageing**
Ahmed Al Saedi, the University of Melbourne, Ct Albans (Australia)
- OCD40** **Multimodal prehabilitation prevents post-surgical deterioration of physical function in older-aged individuals who undergo colorectal surgery: a prospective cohort study**
Foo Li Xin, Singapore General Hospital (Singapore)
- OCD41** **A probiotic capable to reduce sarcopenia in undernourished elderly, results from a pre-clinical study**
Muriel Giron, MSc, Université Clermont-Auvergne, INRAE, UMR 1019, Unite Nutrition Humaine, Clermont-Ferrand (France)
- OCD42** **Towards extended body Composition through automated whole-body segmentation of skeletal muscle, adipose tissue, bone, and multi-organ and vertebral level identification from multi-slice CT images**
Mirza Faisal Beg, Simon Fraser University, British Columbia (Canada)