

15th Edition



March 12-14, 2025

Toulouse • France

Final Program

Previous editions

- Toulouse, France - 2011 • Orlando, FL, USA - 2012 • Seoul, South Korea - 2013 • Barcelona, Spain - 2014
- Boston, MA, USA - 2015 • Philadelphia, PA, USA - 2016 • Barcelona, Spain - 2017 • Miami Beach, FL, USA - 2018
- Miami Beach, FL, USA - 2019 • Toulouse, France - 2020 • 100% Virtual - 2021 • Boston, MA, USA - 2022
- Toulouse, France - 2023 • Albuquerque, NM, USA - 2024

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Website: www.frailty-sarcopenia.com



ABOUT ICFSR

The **ICFSR conference** was created with the objective of speeding up the development of **high-quality, clinical trials** in frail, older adults by sharing experiences (both successes and failures) and accelerating the discovery of treatments, **prevention methods for healthy aging**, and the prevention of disabilities and dependency in older adults.

ICFSR 2024 in Albuquerque (United States) attracted over **500 researchers, physicians and healthcare professionals** from all over the world to report on their work in frailty and sarcopenia in various domains of expertise ranging from **physical exercise and nutrition** to **senescent cells in animal models**.

Join us at the **15th annual ICFSR Conference on March 12-14 in Toulouse (France)**, where leading researchers and physicians gather to accelerate the development of **high-quality, clinical trials** focused on frail, older adults. This unique event provides an invaluable platform to **share experiences**, celebrate successes, and learn from challenges in the pursuit of **groundbreaking treatments** and **prevention methods**. Together, we can drive the discovery of innovative solutions for **healthy aging** and the prevention of **disabilities and dependency** in older adults.



SUMMARY

Program Agenda

Wednesday, March 12

Thursday, March 13

Friday, March 14

Poster Presentations

Congress Venue and Practical Information

Privileged Partners



Day 01

Wednesday, March 12

2:00 p.m.
3:00 p.m.

Poster Walking Tour

3:00 p.m.
3:10 p.m.

WELCOME • Salle des Colonnnes

Luigi FERRUCCI, National Institute on Aging, Baltimore, MD (United States), Roger FIELDING, Tufts University, Boston, MA (United States), Yves ROLLAND, IHU HealthAge, Toulouse (France) and Bruno VELLAS, IHU HealthAge, Toulouse (France)

3:10 p.m.
3:30 p.m.

Presentation of the ICFSR Lifetime Achievement Award to Jeremy Walston, in recognition of his pivotal contributions in the area of understanding the biological basis for the frailty syndrome and developing tools to assess frailty in clinical settings.

3:30 p.m.
4:10 p.m.

Symposium 1 • Salle des Colonnnes

Intrinsic Capacity and ICOPE

Chair: Matteo CESARI, World Health Organization, Geneva (Switzerland)

■ Intrinsic Capacity and ICOPE

Matteo CESARI, World Health Organization - Geneva (Switzerland)

■ ICOPE Randomized Controlled Trial

Sandrine ANDRIEU, IHU HealthAge and INSERM - Toulouse (France)

■ Intrinsic Capacity Clock

Laure ROUCH, IHU HealthAge - Toulouse (France)

■ ICOPE and Medicaid – A US experience

Annashia SHERA, University of New Mexico - Albuquerque, NM (United States)

4:10 p.m.
5:10 p.m.

ORAL COMMUNICATIONS • Salle des Colonnnes

4:10 p.m.

OC 1

A Novel DNA Methylation Predictor for Frailty Index and Frailty Resilience: Transforming Frailty Assessment

Jenel Armstrong, Yale University - New Haven (United States)

4:20 p.m.

OC 2

A Metabolite-Wide Association Study of Age and Frailty in Over 200,000 Adults

Julian Mutz, King's College London - London (United Kingdom)

4:30 p.m.

OC 3

Multomics Reveals Mechanisms of Rejuvenation in Aged Mice by Losartan

Michael Bene, Johns Hopkins University, Baltimore, MD (United States)

4:40 p.m.

OC 4

Glucagon-Like-Peptide-1 Receptor Agonists and Musculoskeletal Health in Older Adults: Results from a Pilot Randomized Controlled Trial

Tiffany Cortes, University Of Texas Health Science Center San Antonio - San Antonio, TX (United States)

4:50 p.m.

OC 5

Association between accelerated epigenetic and inflammatory aging and cognitive function in men and women: a cross-sectional analysis from the INSPIRE-T cohort

Samuel Thuriot, IHU HealthAge, INSERM 1295 - Toulouse (France)

5:00 p.m.

OC 6

Associations of muscle mitochondrial bioenergetics and depressive symptoms with musculoskeletal pain: the Study of Muscle, Mobility and Aging

Theresa Mau, California Pacific Medical Center - San Francisco, CA (United States)

5:10 p.m.

5:50 p.m.

Late Breaking symposium • Salle des Colonnes

GDF15 Involvement from Frailty to Cachexia

Co-chairs: Roger Fielding, Tufts University, Boston, MA (United States) and Bruno Vellas, IHU HealthAge, Toulouse (France)

■ Mechanisms of GDF15 and Preclinical Studies

Danna BREEN, Pfizer, Cambridge, MA (United States)

■ GDF15 in Frailty

Philippe De SOUTO BARRETO, IHU HealthAge, Toulouse (France)

■ Monoclonal Antibody Targeting GDF15 for the Treatment of Cachexia

John D. GROARKE, Pfizer, Cambridge, MA (United States)

5:50 p.m.

6:20 p.m.

ROUNDTABLE 1 • Salle des Colonnes

Global Consensus on Optimal Exercise Recommendations for Enhancing Healthy Longevity in Older Adults

Discussion: Roger FIELDING, Tufts University, Boston, MA (USA), Mikel IZQUIERDIO, NAVARRABIOMED, Universidad Publica de Navarra, Pamplona (Spain) and Philippe De SOUTO BARRETO, IHU HealthAge, Toulouse (France)

6:20 p.m.

6:50 p.m.

ROUNDTABLE 2 - INVESTING IN HEALTHY LONGEVITY • Salles des Colonnes

Presentation 1: IRCEM Financial Fund for Healthy Longevity

Serge Da Mariana and Leila Hicheur, IRCEM, Paris (France)

Presentation 2: XPrize Healthspan - One-year experience

Jamie Justice, XPrize Healthspan, Winston-Salem, NC (United States)

Discussion: Ann Belien, Rejuvenate Biomed, Diepenbeek (Belgium), Roger Fielding, Tufts University - Boston, MA (United States), Luigi Ferruci, NIA, Baltimore, MD (United States), Leila Hicheur and Serge Da Mariana, IRCEM - Paris (France), Jamie Justice, XPrize Healthspan - Winston-Salem, NC (United States), Olivier Lairez, IHU HealthAge - Toulouse (France) and Bruno Vellas, IHU HealthAge - Toulouse (France)

6:50 p.m.

7:50 p.m.

Poster Session and Networking Reception sponsored by IRCEM



Join us for some social time in the poster and exhibit hall. Discuss with poster authors, visit our exhibitors and network with your colleagues to promote new collaborations in frailty and sarcopenia research!

Day 02

Thursday, March 13

8:30 a.m.
9:00 a.m.

Poster Walking Tour

9:00 a.m.
9:40 a.m.

ROUNDTABLE 3 • Salle des Colonnes

Translational Geroscience: Pathways to Longevity and Healthy Aging

- **Presentation 1: The NIA Translational Geroscience Network: An infrastructure to facilitate geroscience-guided clinical trials**
George Kuchel, *UConn Center on Aging, University of Connecticut – Farmington, CT (United States)*
- **Presentation 2: Mitochondria Drive Physical and Cognitive Function Changes with Aging**
Luigi Ferrucci, *National Institute on Aging, Baltimore, MD (United States)*

Discussion : Shalender Bhasin, *Brigham and Women's Hospital Boston, MA (United States)*; Luigi Ferrucci, *National Institute on Aging, Baltimore, MD (United States)*; Roger Fielding, *Tufts University, Boston, MA (United States)* , George Kuchel, *UConn Center on Aging, University of Connecticut – Farmington, CT (United States)*, Bruno Vellas, *IHU HealthAge Toulouse (France)*

9:40 a.m.
10:20 a.m.

LATE-BREAKING COMMUNICATIONS • Salle des Colonnes

9:40 a.m.

LB 1

Development of a Novel Fusion Protein, JUV-161, that Enhances Muscle Regeneration for Treatment of Sarcopenia

Jeremy O'connell, *Juvena Therapeutics - Redwood City (United States)*

9:50 a.m.

LB 2

Exercise in older individuals – Is there a 'too sick' to reverse sarcopenia?

Veronika Schmid, *Technical University of Munich, School of Medicine and Health, Tum University Hospital - Munich (Germany)*

10:00 a.m.

LB 3

Clinical development of RJx-01 as a novel combination drug for the treatment of sarcopenia in older persons

Jeroen Aerssens, *Rejuvenate Biomed - Diepenbeek (Belgium)*

10:10 a.m.

LB 4

Isomyosamine for the Treatment of Sarcopenia in Elderly Patients

Mitchell Glass, *TNF Pharmaceuticals, Inc. - Baltimore, MD (United States)*

10:20 a.m.
10:40 a.m.

Coffee Break and Poster Session

10:40 a.m.
11:40 a.m.

ORAL COMMUNICATIONS • *Salle des Colonnes*

10:40 a.m.

OC 7

Effect of weighted vest use or resistance exercise during caloric restriction on secondary CT-derived bone outcomes: results from the INVEST in bone health randomized clinical trial

Ashley Weaver, *Wake Forest University School of Medicine - Winston-Salem, NC (United States)*

10:50 a.m.

OC 8

Association of Epigenetic Age Acceleration with Sarcopenia Classification Criterion: a cross-sectional analysis of the INSPIRE-T baseline data

Renato Gorga Bandeira De Mello, *Federal University of Rio Grande Do Sul (UFRGS) - Porto Alegre (Brazil)*

11:00 a.m.

OC 9

GDF5 as a rejuvenating treatment for age-related neuromuscular failure

Sestina Falcone, *Sorbonne Université, Inserm, Institut De Myologie - Paris (France)*

11:10 a.m.

OC 10

Adverse muscle composition in chronic kidney disease predicts all-cause mortality in the UK Biobank Imaging Study

Jennifer Linge, *Amra Medical - Linköping (Sweden)*

11:20 a.m.

OC 11

Exercise protects against semaglutide-induced muscle loss in obese Ldlr^{-/-}.Leiden mice

Anita Van Den Hoek, *The Netherlands Organization For Applied Scientific Research (TNO) - Leiden (Netherlands)*

11:40 a.m.

OC 12

Association between a Planetary Health Diet and Changes in Intrinsic Capacity in Older Adults: The Seniors-ENRICA cohorts

Mercedes Sotos-Prieto, *Universidad Autonoma De Madrid - Madrid (Spain)*

11:40 a.m.
12:00 p.m.

KEYNOTE 2 • *Salle des Colonnes*

Senescent Cells from Translational Research to Clinical Studies

Nathan LEBRASSEUR, *Mayo Clinic - Rochester, MN (United States)*

12:00 p.m.
12:40 p.m.

Symposium 3 • *Salle des Colonnes*

The Musculoskeletal System as the Key Regulator of Intrinsic Capacity

Chair: Gustavo Duque, *Faculty of Medicine and Health Sciences, McGill University, Montreal (Canada)*

- **Presentation 1: Investigating the Musculoskeletal Determinants of Intrinsic Capacity in Older Adults: Insights from The Irish Longitudinal Study on Ageing (TILDA)**
Rose Anne Kenny, *Trinity College Dublin, the University of Dublin - Dublin (Ireland)*
- **Presentation 2: Musculoskeletal Determinants of Intrinsic Capacity in Older Adults: Insights from The Toledo Aging Study (TAS)**
Ivan Baltasar-Fernandez, *Faculty of Health Sciences, Universidad de Castilla La Mancha - Castilla-La Mancha (Spain)*
- **Presentation 3: Musculoskeletal Determinants of Intrinsic Capacity in Older Adults: Insights from The Geelong Osteoporosis Study**
Julie Pasco, *Deakin University - Geelong, VIC (Australia)*

12:40 p.m.
2:00 p.m.

Lunch Break

Enjoy the nearby restaurants and take-out options with the list provided in your attendee's bag and at the registration desk

2:00 p.m.
2:20 p.m.

KEYNOTE 3 • Salle des Colonnes

Translational geroscience interventions for frailty

John NEWMAN, *Buck Institute for Research on Aging - Novato, CA (United States)*

2:20 p.m.
3:00 p.m.

Symposium 4 • Salles des Colonnes

Unravelling Physical Resilience: Psychosocial Determinants, Stress-Response Physiology, and the Mediating Role of Frailty in Shaping Clinical Phenotypes and Outcomes

Chair: **Qian-Li Xue**, *Johns Hopkins Bloomberg School of Public Health, Baltimore, MD (United States)*

- **Presentation 1: Stimulus-response measures of multi-system dynamic adaptation to stressors enhance discrimination of resilient responses by frailty and self-report of health**
Karen Bandeen-Roche, *Johns Hopkins University - Baltimore, MD, (United States)*
- **Presentation 2: The Role of Psychosocial Distress and Physical Frailty in Predicting Physical Resilience Among Older Adults Undergoing Surgery**
Melissa deCardi Hladek, *Johns Hopkins Center on Aging and Health - Baltimore, MD, (United States)*
- **Presentation 3: Physical Resilience Phenotype and Clinical Outcomes: Results from the RESilience in TotaL knee REplacement (RESTORE) Study**
Qian-Li Xue, *Johns Hopkins Bloomberg School of Public Health - Baltimore, MD (United States)*

PARALLEL SESSIONS

3:00 p.m.
3:30 p.m.

ORAL COMMUNICATIONS

Room 1: Salle des Colonnes

ORAL COMMUNICATIONS

Room 2: Salle de la Chapelle

3:30 p.m.
4:00 pm.

LATE BREAKING COMMUNICATIONS

Room 1: Salle des Colonnes

3:00 p.m.
4:00 p.m.

ORAL COMMUNICATIONS

Room 1: Salle des Colonnes

3:00 p.m.

OC 13

Sarcopenia, obesity or both. What is the culprit of the associated risks of sarcopenic obesity?

Alejandro Álvarez Bustos, *Instituto De Salud Carlos III, Madrid (Spain)*

3:10 p.m.

OC 14

Sex hormone binding globulin and incident frailty in women with HIV

Jenny Pena Dias, *Johns Hopkins University - Baltimore, MD (United States)*

3:20 p.m.

OC 15

ASU Team Healthspan's approach to AI-powered personalized intervention for reducing biological age and improving sarcopenia outcomes.

Judith Klein-Seetharaman, *Arizona State University - Phoenix (United States)*

3:30 p.m.

4:00 p.m.

LATE-BREAKING COMMUNICATIONS

Room 1: Salle des Colonnnes

3:30 p.m.

LB 5

Mapping the Responsiveness of 100+ Epigenetic Biomarkers Across 50 Anti-Aging Interventions in Human Clinical Trials

Raghav Sehgal, *Yale University - New Haven, CT (United States)*

3:40 p.m.

LB 6

Biophytis: Assessing the reduction of GLP1-RA-induced muscle mass or function loss in patients with obesity using the drug candidate BIO101 (20E).

Rob Van Maanen, *Biophytis - Paris (France)*

3:50 p.m.

LB 7

Circulating GDF-15 levels are strongly related with frailty severity in mobility-limited older adults – results from the BIOFRAIL study

Pernille Hansen, *Copenhagen University Hospital, Bispebjerg And Frederiksberg and Herlev And Gentofte - Copenhagen (Denmark)*

3:00 p.m.

4:00 p.m.

ORAL COMMUNICATIONS

Room 2: Salle de la Chapelle

3:00 p.m.

OC 16

The Impact of Frailty on 42,989 Older Adults Newly Discharged from an Emergency Department Visit for Heart Failure: A Nationwide Retrospective Cohort Study

Hsi-Yu Lai, *Graduate Institute of Clinical Pharmacy, College of Medicine, National Taiwan University - Taipei (Taiwan)*

3:10 p.m.

OC 17

Longitudinal impacts of trajectories in different domains of physical exercise and clinical outcomes in community middle-aged and older adults: a 20-year multi-trajectory analysis

Fei-Yuan Hsiao, *School of Pharmacy, College of Medicine, National Taiwan University - Taipei (Taiwan)*

3:20 p.m.

OC 18

Peroxisome proliferator-activated receptor γ coactivator α (PGC-1 α) inducer, AMC#9005, prevents muscle wasting in aged mice via restoring mitochondrial function

Chang-Lim You, *Sungkyunkwan University School of Medicine - Suwon (Republic of Korea)*

3:30 p.m.

OC 19

Associations between having a child during adolescence and intrinsic capacity in later life among participants in the International Mobility in Aging Study (IMIAS)

Zoe Smith, *University of Hawaii At Manoa - Honolulu (United States)*

3:40 p.m.

OC 20

Ideal cardiovascular health is associated with reduced epigenetic aging: cross-sectional findings from the INSPIRE-T cohort

Mathilde Strumia, *IHU HealthAge CERPOP UMR 1295 Aging Team - Toulouse (France)*

3:50 p.m.

OC21

Sex dependent senotherapeutic effects is predicted by visceral adipose tissue response in aging and Alzheimer's models

Kevin Hascup, *Southern Illinois University School of Medicine – Springfield, IL (United States)*

4:00 p.m.

4:30 p.m.

Coffee Break and Poster Session

PARALLEL SESSIONS

4:30 p.m.

5:30 p.m.

LATE BREAKING COMMUNICATIONS

Room 1: Salle des Colonnes

ORAL COMMUNICATIONS

Room 2: Salle de la Chapelle

4:30 p.m.

5:30 p.m.

LATE-BREAKING COMMUNICATIONS

Room 1: Salle des Colonnes

4:30 p.m.

LB 8

The effect of low-dose aspirin on Intrinsic Capacity in older individuals

Joanne Ryan, *Monash University - Melbourne (Australia)*

4:40 p.m.

LB 9

Efficacy and Safety of Nordic Walking in Older Adults at Risk of Fracture: A Randomized Controlled Trial

Saija Kontulainen, *University Of Saskatchewan - Saskatoon (Canada)*

4:50 p.m.

LB 10

Reversing Frailty: Diet and Exercise Enhance Functionality and Slow Epigenetic Aging in Older Adults

Gloria Olaso-Gonzalez, *INCLIVA Health Research Institute - Valencia (Spain)*

5:00 p.m.

LB 11

Frailty Assessment Tools and Biological Frailty Markers in Female Mice

Ladora Thompson, *Boston University – Boston, MA (United States)*

5:10 p.m.

LB 12

Omics Aging Biomarkers for Clinical Trials using the TransLAGE Knowledgebase

Albert Higgins-Chen, *Yale University - New Haven, CT (United States)*

5:20 p.m.

LB 13

Biomarkers for Sarcopenia: Predicting Muscle Mass and Function Decline Through GDF-15, FGF21, sRAGE, and Neurofilaments

Sarah Damanti, *Vita-Salute San Raffaele University - Milan (Italy)*

4:30 p.m.

5:20 p.m.

ORAL COMMUNICATIONS

Room 2: Salle de la Chapelle

4:30 p.m.

OC 23

Transcription profiling of human muscle tissue identified IL-6/IL-11 pathway as potential targets for sarcopenia

Ling Liu, *Sengkang General Hospital - Singapore (Singapore)*

4:40 p.m.

OC 24

Preclinical study of Human Wharton's jelly-derived Mesenchymal stem cells: A Potential Therapeutic Candidate for Sarcopenia

Hyeongseop Kim, *Encell Co. Ltd. - Seoul (Republic of Korea)*

4:50 p.m.

OC 25

Intrinsic capacity declining trajectories: Insights from a nationwide survey in China

Lina Ma, *Xuanwu Hospital Capital Medical University - Beijing (China)*

5:00 p.m.

OC 26

The association between loneliness, social activity and frailty: Evidence from CHARLS and Mendelian randomization

Chuangsen Fang, *Beijing Hospital - Beijing (China)*

5:10 p.m.

LB 14

ICOPE Screening Tool Accuracy: a Scoping Review of Diagnostic Studies and presentation of a Multicenter Longitudinal study on Intrinsic Capacity and Aging Trends in Brazil

Eduardo Ferriolli, *University Of Sao Paulo Medical School - Sao Paulo (Brazil)*

5:20 p.m.

End of the Conference Day

Day 03

Friday, March 14

8:15 a.m.
8:45 a.m.

Poster Walking Tour

8:45 a.m.
9:25 a.m.

Symposium 5 • Salles des Colonnes

Molecular and metabolomic characteristics of frailty and sarcopenia and frailty impact on aging immunity

Chair: **Sean Leng**, *Johns Hopkins Center on Aging and Immune Remodeling, Johns Hopkins University School of Medicine, Baltimore, MD, (United States)*

- **Presentation 1: Stable-Isotope Resolved Metabolomics Reveals Altered Energy Metabolite Fluxes in Frail Older Adults**
Reyhan Westbrook, Johns Hopkins University School of Medicine, Baltimore, MD, (United States)
- **Presentation 2: Chronic CaMKII Activation Drives Sarcopenia Through Inflammation and Anabolic Resistance**
Qinchuan Wang, Johns Hopkins University School of Medicine, Baltimore, MD, (United States)
- **Presentation 3: Impact of Physical Frailty on Homotypic and Heterotypic Hemagglutination Inhibition (HAI) Antibody Responses to Influenza Vaccination Across Multiple Influenza Seasons**
Thomas Laskow, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (United States)

9:25 a.m.
9:45 a.m.

KEYNOTE 4 • Salle des Colonnes

How Frailty Concepts Have Changed Clinical Practice

Cornel C. SIEBER, *Friedrich-Alexander-Universität Erlangen-Nürnberg, Nuremberg (Germany)*

9:45 a.m.
10:25 a.m.

Symposium 6 • Salle des Colonnes

Update of the Asian Consensus on Sarcopenia and Frailty

Chair: **Hidenori Arai**, *National Center for Geriatrics and Gerontology, Obu, Aichi (Japan)*

- **Presentation 1: The Evolving Landscape of Sarcopenia in Asia: A Systematic review and meta-analysis following the 2019 AWGS diagnostic criteria and the future**
Liang-Kung Chen, National Yang Ming Chiao Tung University, Taipei (Taiwan)
- **Presentation 2: The Effectiveness of ICT Interventions in Preventing and Managing Frailty: Insights from the Japanese Guidelines**
Keisuke Maeda, Aichi Medical University, Nagakute (Japan)
- **Presentation 3: Nutrition Management Guidelines for Sarcopenia and Frailty 2024 in Japan**
Ken Sugimoto, Kawasaki Medical University, Okayama (Japan)

10:25 a.m.
10:40 a.m.

INVITED PRESENTATION 3 • *Salle des Colonnes*

A technological ecosystem for managing frailty at home: the FRAILSTOP platform
Leocadio RODRÍGUEZ MAÑAS, *Hospital Universitario de Getafe, Getafe (Spain)*

10:40 a.m.
11:10 a.m.

Coffee Break and Poster Session

11:10 a.m.
11:30 a.m.

KEYNOTE 5 • *Salle des Colonnes*

Composite Intrinsic Capacity

Philippe De SOUTO BARRETO, *IHU HealthAge, Toulouse (France)*

11:30 a.m.
12:30 p.m.

ORAL COMMUNICATIONS • *Salle des Colonnes*

11:30 a.m.

OC 27

Virtual rehabilitation improves frailty index: A feasibility randomized controlled trial of virtual GERAS DANCE

Alexandra Papaioannou, *McMaster University, Hamilton Health Sciences - Hamilton (Canada)*

11:40 a.m.

OC 28

Acute Resistance Exercise Elevates Regulators of Collagen Breakdown in Healthy Human Skeletal Muscle Irrespective of Age

Allyson Schweitzer, *University Of British Columbia - Vancouver (Canada)*

11:50 a.m.

OC 29

Novel Gerotherapeutic Peptides Alleviate Sarcopenia and Frailty In Naturally Aged Mice By Dual Mechanisms Acting Through a Single Aging-Selective Target

Kevin Slawin, *Eos Senolytix, Inc. - Houston, TX (United States)*

12:00 p.m.

OC 30

Skeletal Muscle Energetics and Lower Urinary Tract Symptoms: The Study of Muscle, Mobility and Aging

Scott R. Bauer, *University of California at San Francisco (UCSF) - San Francisco, CA (United States)*

12:10 p.m.

OC 31

Predicting discharge home in people admitted to hospital with frailty using artificial intelligence: Preliminary findings of an observational cohort study

Jennifer Jones, *The University of Melbourne - Parkville (Australia)*

12:20 p.m.

OC 32

Association of physical activity and sedentary behaviour with changes in intrinsic capacity in Spanish older adults: a prospective population-based study

Juan Luis Sanchez Sanchez, *IHU HealthAge - Toulouse (France)*

12:30 p.m.
2:00 p.m.

Lunch Break and Poster Session

Enjoy the nearby restaurants and take-out options with the list provided in your attendee's bag and at the registration desk

PARALLEL SESSIONS

2:00 p.m.
2:45 p.m.

SESSION: HEALTHY LONGEVITY INNOVATIONS

Room 1: Salle des Colonnes

2:00 p.m.
3:30 p.m.

ORAL COMMUNICATIONS

Room 2: Salle de la Chapelle

2:40 p.m.
3:15 p.m.

LATE-BREAKING COMMUNICATIONS

Room 1: Salle des Colonnes

3:15 p.m.
3:25 p.m.

ORAL COMMUNICATIONS

Room 1: Salle des Colonnes

2:00 p.m.
2:45 p.m.

SESSION: HEALTHY LONGEVITY INNOVATIONS: IMPLICATIONS FOR SARCOPENIA

Room 1: Salle des Colonnes

2:00 p.m.

Space travel and accelerated aging: Evidence of a 14-day bed rest study on frailty
Olga Theou, *Dalhousie University - Halifax (Canada)*

2:15 p.m.

Healthy Longevity Actions: From Research to Implementation
Liang-Kung Chen, *National Yang Ming Chiao Tung University - Taipei (Taiwan)*

2:30 p.m.

Blood Flow Restriction Training in Older Adults with or Susceptible to Sarcopenia
Lawrence Cahalin, *University Of Miami Miller School Of Medicine - Coral Gables (United States)*

2:45 p.m.
3:15 p.m.

LATE-BREAKING COMMUNICATIONS

Room 1: Salle des Colonnes

2:45 p.m.

LB15

Towards a Core Outcome Set (COS) for Sarcopenia Intervention Studies: A Systematic Review identifying the most reported outcomes across randomized controlled trials in sarcopenia
Sophie Vanheden, *University of Namur - Namur (Belgium)*

2:55 p.m.

LB16

Muscle size, strength, and walking speed as determinants of incident hospitalization over two years in older adults
Peggy Cawthon, *California Pacific Medical Center Research Institute - San Francisco (United States)*

3:05 p.m.

LB 17

Development of the screening index of frailty calculator (SIF-c) and assessment of its validity in predicting death, hospitalization and institutionalization. A population-based study with 1.4 million people aged ≥65.
Mateu Serra-Prat, *Consorti Sanitari Del Maresme - Mataró (Spain)*

3:15 p.m.

LB 18

Targeting aging
Morten Scheibye-Knudsen, *University Of Copenhagen - Copenhagen (Denmark)*

3:15 p.m.
3:25 p.m.

ORAL COMMUNICATIONS

Room 1: Salle des Colonnes

3:15 p.m.

OC 33

There is more to targeting GDF15 than treating cancer cachexia: Activation of the GDF15-GFRAL axis mediates fatigue and cognitive impairment induced by cellular stress

Robert Dantzer, *Anderson Cancer Center – Houston, TX (United States)*

2:00 p.m.

3:30 p.m.

ORAL COMMUNICATIONS

Room 2: Salle de la Chapelle

2:00 p.m.

OC 40

Dog as a model for human aging studies

Polina Zemko, *Department Of Animal Medicine, Production And Health, University Of Padua - Padua (Italy)*

2:10 p.m.

OC 41

Association between relative muscle power as a proxy of frailty and cognitive performance in community-dwelling adults

Veronica Mihaiescu-Ion, *Faculty Of Nursing And Physical Therapy, University Of Cadiz- Cadiz (Spain)*

2:20 p.m.

OC 42

Geriatric Cachexia, Intrinsic Capacity and Mortality: Pooling Data from Five Cohorts in Taiwan

Fei-Yuan Hsiao, *College Of Medicine, National Taiwan University - Taipei (Taiwan)*

2:30 p.m.

OC 43

Cardiovascular health and impaired lower-extremity function in older adults

Rosario Ortolá, *Universidad Autónoma de Madrid - Madrid (Spain)*

2:40 p.m.

OC 44

Single nuclear transcriptomic sequencing of skeletal muscle tissue from older adults with and without sarcopenia identifies cell population specific differential expression patterns in key muscle health markers

Mark Burton, *Faculty Of Medicine, University Of Southampton - Southampton (United Kingdom)*

2:50 p.m.

OC 45

Comparison of robustness, resilience and intrinsic capacity including prediction of long-term adverse health outcomes: The KORA-Age study

Michaela Rippl, *LMU University Hospital, LMU Munich - Munich (Germany)*

3:00 p.m.

OC 46

Metformin and time-restricted feeding combination improves non-alcoholic steatohepatitis, liver fibrosis and sarcopenia in diet-induced obese insulin resistant mice

Claire Bigot, *Physiogenex - Escalquens (France)*

3:10 p.m.

OC 47

The Dose-Response Effect of Physical Activity Prescription on Physical Performance in Geriatric Outpatients: The PACE Study

Mylene Aubertin-Leheudre, *Uqam-Criugm - Montréal (Canada)*

3:20 p.m.

OC 48

Multi-state analysis of transitions in frailty states in the Italian Longitudinal Study on Aging cohort

Lucia Galluzzo, *Istituto Superiore Di Sanità - Rome (Italy)*

3:30 p.m.

4:00 p.m.

Coffee Break and Poster Session

PARALLEL SESSIONS

4:00 p.m. ORAL COMMUNICATIONS

5:00 p.m. Room 1: Salle des Colonnes

5:00 p.m. LATE-BREAKING COMMUNICATIONS

5:20 p.m. Room 2: Salle de la Chapelle

4:00 p.m. ORAL COMMUNICATIONS

4:10 p.m. Room 2: Salle de la Chapelle

4:10 p.m. LATE-BREAKING COMMUNICATIONS

5:30 p.m. Room 2: Salle de la Chapelle

4:00 p.m.
5:00 p.m.

ORAL COMMUNICATIONS

Room 1: Salle des Colonnes

4:00 p.m.

OC 34

Which percentile variation in handgrip strength in older people determines the gait speed decline over twelve years of follow-up? Evidence from the ELSA Study

Alexandre Tiago, *Federal University Of Sao Carlos - Sao Carlos (Brazil)*

4:10 p.m.

OC 35

Disability and Physical Performance Across Social and Economic Development

Benjamin Seligman, *University Of California, Los Angeles - Los Angeles, CA (United States)*

4:20 p.m.

OC 36

Association between intrinsic capacity and sarcopenia, osteopenia/osteoporosis, and osteosarcopenia: Results from The Irish Longitudinal Study on Ageing (TILDA)

Wayne Lok Ok Choo, *McGill University Health Centre - Montreal (Canada)*

4:30 p.m.

OC 37

NADMED: novel REDOX profiling to enable awareness of clinical relevance of NAD⁺ and its derivatives

Riikka Aanismaa, *Nadmed Ltd - Helsinki (Finland)*

4:40 p.m.

OC 38

Evaluating single-slice (2D) and volumetric (3D) MRI techniques for muscle and adipose tissue assessment in a population-scale UK Biobank study

Kate Halkerston, *Perspectum Ltd - Oxford (United Kingdom)*

4:50 p.m.

OC 39

Fatty yellow marrow of the ankle predicts accelerated frailty and is a risk factor for diabetes in postmenopausal women

Andy Kin On Wong, *University Health Network, University Of Toronto - Toronto (Canada)*

5:00 p.m.
5:20 p.m.

LATE-BREAKING COMMUNICATIONS

Room 1: Salle des Colonnes

5:00 p.m.

LB 19

Identifying the Intersection of Frailty and Resilience in Older Adults using a Nationally Representative Sample

Frances Yang, *University Of Kansas Medical Center - Kansas City (United States)*

5:10 p.m.

LB 20

Automated frailty estimation using AI smart cages

Michael Florea, *Olden Labs - South San Francisco (United States)*

4:00 p.m.
4:10 p.m.

ORAL COMMUNICATIONS

Room 2: Salle de la Chapelle

4:00 p.m.

OC 49

Total body protein as a measure of functional muscle mass: Data from the Geelong Osteoporosis Study

Julie Pasco, *Deakin University - Geelong (Australia)*

4:10 p.m.
5:40 p.m.

LATE-BREAKING COMMUNICATIONS

Room 2: Salle de la Chapelle

4:10 p.m.

LB 21

Moving towards Precision Medicine: Use of Frailty Phenotypes to Optimise Newer Therapies (SGLT2i and GLP-1 RAs) in Managing Older People with Diabetes

Alan Sinclair, *King's College, London, England - London (United Kingdom)*

4:20 p.m.

LB 22

The impact of multimorbidity and physical activity on intrinsic capacity: A secondary analysis of the Mexican Health and Aging Study

Luis Miguel Gutiérrez-Robledo, *Instituto Nacional De Geriatria - Mexico City (Mexico)*

4:30 p.m.

LB 23

Sarcopenic Obesity, a novel definition at work.

Eleonora Poggiogalle, *Sapienza University - Rome (Italy)*

4:40 p.m.

LB 24

Acute clinical events and frailty trajectories after age 60: A population-based cohort study

Clare Tazzeo, *Karolinska Institutet And Stockholm University - Stockholm (Sweden)*

4:50 p.m.

LB 25

Effect of gut microbiota-altering interventions on sarcopenia or its defining parameters in older adults: a systematic review and meta-analysis

Laurence Lapauw, *KU Leuven - Leuven (Belgium)*

5:00 p.m.

LB 26

Creatinine and cystatin C-based diagnostic indices of sarcopenia in predicting frailty and disability in older community adults

Yu Jiang, *Chinese Academy Of Medical Science & Peking Union Medical College - Beijing (China)*

5:10 p.m.

LB 27

The Genetics of Frailty

Jonny Flint, *QIMR Berghofer – Brisbane (Australia) and University of Edinburgh - Edinburgh (United Kingdom)*

5:20 p.m.

LB 28

Multidisciplinary management in frail hospitalized older persons with intrinsic capacity losses may prevent functional decline upon discharge.

Boon Hian Tan, *Sengkang General Hospital- Singapore (Singapore)*

5:30 p.m.

End of the conference

ICFSR25 POSTER LISTING

THEME

POSTERS

Poster Session 1 – From March 12th 3:30 p.m. to March 13th 12:30 p.m.

- | | |
|---|-----------------------------------|
| 01 <u>Frailty in Clinical Practice and Public Health</u> | ● P001 to P023 and LP001 to LP026 |
| 02 <u>Cognitive Frailty</u> | ● P024 to P031 and LP027 to LP038 |
| 03 <u>COVID-19, Frailty & Sarcopenia</u> | ● P032 to P039 and LP039 to LP041 |
| 04 <u>E-Health, Digital Tool</u> | ● P040 to P044 and LP042 to LP046 |
| 05 <u>Clinical Trials and Therapeutics</u> | ● P045 to P051 and LP047 to LP049 |
| 06 <u>Osteoporosis & Frailty</u> | ● P052 to P057 |
| 07 <u>Geroscience: Senescent Cells</u> | ● P058 to P59 |
| 08 <u>Nutrition and Aging</u> | ● P060 to P070 and LP050 to LP058 |
| 09 <u>Epidemiology</u> | ● P071 to P081 and LP059 to LP066 |

Poster Session 2 – From March 13th 2:00 p.m. to March 14th 5:00 p.m.

- | | |
|---|------------------------------------|
| 10 <u>Animal Models, Preclinical Studies</u> | ● P082 to P086 and LOP67 |
| 11 <u>Biomarkers and Imaging</u> | ● P087 to P105 and LP068 to LP073 |
| 12 <u>Drug Development</u> | ● LP074 to LP075 |
| 13 <u>Physical Exercise</u> | ● P106 to P118 and LP076 to LP088 |
| 14 <u>ICOPE (Integrated Care for Older People)</u> | ● P119 to P122 and LP089 to LP094 |
| 15 <u>Body Composition</u> | ● P123 to P130 and LP095 to LP098 |
| 16 <u>Biology of Frailty, Sarcopenia</u> | ● P131 to P149 and LP099 to LP0109 |
| 17 <u>Vaccination and Healthy Aging</u> | ● P150 |
| 18 <u>GLP-1 Agonists in Weight Loss and Sarcopenia</u> | ● P151 and LP110 |
| 19 <u>Intrinsic Capacity</u> | ● P152 to 154 and LP111 to LP116 |
| 21 <u>Other</u> | ● P155 to P163 and LP117 to LP120 |

Posters presented remotely are indicated with this icon:



Frailty in Clinical Practice and Public Health

- P001** **Frailty and overall survival in older patients undergoing radiotherapy for head and neck cancer: a prospective analysis**
Silvia Ottaviani, *University Of Genoa - Genoa (Italy)*
- P002** **Focusing On Host Factors In Lower Respiratory Tract Infections in the elderly: long-term outcomes and the role of frailty**
Bingxuan Weng, *Peking University - Beijing (China)*
- P003** **Prevalence of sarcopenia and its association with oral hypofunction among residents in long term care in Finland**
Riki Oura, *University Of Helsinki - Helsinki (Finland)*
- P004** **Prevalence and outcomes of frail hospitalized older patients with dysphagia**
Christine Yuanxin Chen, *Changi General Hospital - Singapore (Singapore)*
- P005** **Social Frailty Typologies and Influence of Intrinsic Capacity on Risk of Physical Frailty at 2 Years: A Latent Class Analysis**
Wee Shiong Lim, *Institute Of Geriatrics And Active Aging - Department Of Geriatric Medicine (Singapore)*
- P006** **Factors Influencing Multidimensional Frailty in Older Adults with Early-Stage Chronic Kidney Disease**
Fang-Ru Yueh, *Cheng Kung University - Tainan (Taiwan)*
- P007** **Pilot Survey of Physical Therapists' Approach to Kidney Transplant Prehabilitation**
Patrick Ahearn, *Stanford University - Stanford (United States)*
- P008** **The role of living arrangements on delirium occurrence in older patients with acute illness in the emergency department (ED)**
Sara Salini, *Fondazione Policlinico Universitario A. Gemelli, Irccs, Roma - Roma (Italy)*
- P009** **Comparison of modified Hospital Frailty Risk Score to the Comprehensive Geriatric Assessment and Clinical Frailty Scale in a Geriatric Unit**
Barbara Helen Rosario, *Changi General Hospital - Singapore (Singapore)*
- P010** **Modelling frailty with bayesian generalised linear models and bayesian model averaging**
Ziqian Sun, *The University Of Sheffield - Sheffield (United Kingdom)*
- P011** **Frailty Determinants in Heart Failure: analysis of Inflammatory Markers, Cognitive Impairment, and Psychosocial Interaction.**
Marta Wleklik, *Faculty Of Nursing And Midwifery, Wroclaw Medical University - Wroclaw (Poland)*
- P012** **Implementation and Outcomes of a Structured Frailty Education program for healthcare professionals in a Tertiary Hospital in Singapore**
Gurinderjit Sidhu Kaur, *Changi General Hospital - Singapore (Singapore)*
- P013** **Sarcopenia. In pursuit of Progress.**
Anthony Mander, *Nuffield Health - Oxford (United Kingdom)*
- P014** **Prognostic significance of frailty indices for older Veterans discharged from a geriatric rehabilitation and recuperative care unit**
Hallie Keller, *Arkansas Veterans Healthcare System - Little Rock (United States)*

- P015** Frailty syndrome identification through different frailty cut-points criteria, using GPCOG cognitive test and body composition from the ultrasonography and bioimpedance in Primary Care Service in Southern Spain. A cross-sectional study
Veronica Mihaiescu-Ion, *Faculty Of Nursing and Physical Therapy, University Of Cadiz - Cadiz (Spain)*
- P016** Osteosarcopenia in Hip Fracture Patients – Identifying the Risk Factors
Ronald Man Yeung Wong, *The Chinese University of Hong Kong - Hong Kong (China)*
- P017** Frailty index is useful for predicting postoperative morbidity in elderly patients undergoing colorectal surgery: A Prospective Cohort Study
Chaoyang Gu, *University People's Hospital - Zhengzhou (China)*
- P018** Case Study – Management of Amiodarone-induced Thyroid Dysfunction in Long Term Care Patient with Dementia
John Chen Kaiser, *Permanente Southern California Physician Medical Group - Baldwin Park (United States)*
- P019** Relationship between lower limb relative muscle power, physical function, body composition and chronic disease in older adults from Primary health care in Southern of Spain. A cross-sectional study.
Alejandro Galán Mercant, *Move-It Research Group, University Of Cadiz - Cádiz (Spain)*
- P020** Identification of frail older adults using ICOPE WHO Step 1 screening tool
Caroline Berbon, *IHU HealthAge - Toulouse (France)*
- P021** Effect of infections and genetic/epigenetic factors on frailty trajectories in hospitalized older patients: protocol of a multicenter observational study
Leonardo Bencivenga, *University Of Naples, Naples (Italy)*
- P022** Investigating Frailty and Comorbidity in Older Adults with Chronic Leg Ulcers: A Cross-sectional Study
Duygu Sezgin, *School Of Nursing And Midwifery, University Of Galway - Galway (Ireland)*
- P023** Mental health and quality of life of caregivers and patients with gynecologic malignancies undergoing chemotherapy, in association with patient's frailty
Rebecca Smythe, *McMaster University - Hamilton (Canada)*
- LP001**  Frailty Is Associated with Increased Risk of Adverse Clinical Outcomes in Patients with Stable Coronary Artery Disease
Jiaxiu Zhao, *Huadong Hospital Affiliated To Fudan University - Shanghai (China)*
- LP002** Advance Care Planning preferences and outcomes among frail, older adults in Geriatric Medicine in a Tertiary Hospital in Singapore
Kenneth Sigaya, *Changi General Hospital - Singapore (Singapore)*
- LP003** Experiences of participating in a preoperative comprehensive geriatric assessment and care intervention among frail older adults prior to colorectal cancer resection surgery
Kristina Åhlund, *NU-Hospital Group, Västra Götalandsregionen - Trollhättan (Sweden)*
- LP004** OT Services for Frailty in a Primary Care Setting for Disadvantaged Populations
Heather Fritz, *Pacific Northwest University of Health Sciences - Yakima (United States)*
- LP005** Precise Early Screening of Sarcopenia Through Evaluation of Motor Unit Firing Characteristics
Chia-Chi Yang, *Kaohsiung Medical University - Kaohsiung (Taiwan, Republic of China)*

- LP006**  **Lung function trajectories and frailty in older adults: findings from a 9 year follow-up study**
Danielle Vieira, *Federal University Of Santa Catarina - Araranguá (Brazil)*
- LP007**  **Associations between the Oral Microbiome, Number of Teeth and Frailty among American Adults: a Cross-Sectional Study from NHANES 2009-2012**
Yang Sixiang, *Chengdu University of Traditional Chinese Medicine - Chengdu (China)*
- LP008**  **Geriatric Nutritional Risk Index predict the risk of sudden cardiac death and all-cause mortality in heart failure patients with reduced EF**
Xiaoyao Li, *Fuwai Hospital, Chinese Academy Of Medical Sciences And Peking Union Medical College - Beijing (China)*
- LP009**  **Skeletal muscle index as a prognostic marker for sudden cardiac death in heart failure patients**
Xiaoyao Li, *Fuwai Hospital, Chinese Academy Of Medical Sciences And Peking Union Medical College - Beijing (China)*
- LP010** **Latent class analysis of preoperative frailty in older patients with gastrointestinal cancers**
Lingyu Ding, *The First Affiliated Hospital Of Nanjing Medical University - Nanjing (China)*
- LP011** **Comparison between cardiac surgery conditions of frailty and non-frailty patients**
Elaine Cristina Negri, *Universidade Do Oeste De São Paulo - Presidente Prudente (Brazil)*
- LP012** **Bioelectrical impedance analysis of frailty and non-frailty cardiac patients before and followed after surgery**
Ismael Forte Freitas Junior, *São Paulo State University - Presidente Prudente (Brazil)*
- LP013** **Comparison between frailty cardiac patients who died and survived after surgery**
Ismael Forte Freitas Junior, *São Paulo State University - Presidente Prudente (Brazil)*
- LP014** **Steady-state versus acute deficit accumulation survival index as predictor of overall survival after robotic-assisted pulmonary lobectomy for lung cancer.**
Eric Toloza, *Moffitt Cancer Center - Tampa (United States)*
- LP015** **Development of a sarcopenia and physical frailty screening programme for community-dwelling older people**
David Hewson, *Institute For Health Research, University of Bedfordshire - Luton (United Kingdom)*
- LP016** **Sit-to-stand power vs. handgrip strength: A more sensitive tool for screening probable sarcopenia and adverse health-related outcomes?**
Mikel Garcia-Aguirre, *Genud Toledo Research Group, University of Castilla-La Mancha - Toledo (Spain)*
- LP017** **Frailty and Sex-differences: Decomposing what drives the gap in India**
Aditi, *Population Council, India - Vaishali (India)*
- LP018**  **Comparative analysis of sarcopenia in hemodialysis and peritoneal dialysis patients: Implications for frailty and aging management**
Lara Delbene, *Department of Health Sciences, University of Genoa - Genoa (Italy)*
- LP019** **Walking Pace Optimizes Conventional Cardiovascular Disease Risk Prediction Models among Vulnerable Subpopulations**
Li Wang, *The Fourth Affiliated Hospital, Zhejiang University - Hangzhou (China)*
- LP020** **Evaluating the Comprehensive Geriatric Assessment Model As an Assessment Tool to Predict Chemotoxicity in Elderly Patients with Lymphoma**
Melissa Ooi, *National University Cancer Institute Singapore - Singapore (Singapore)*

- LP021** Proxy indicators to support independent ageing-in-place in older people with frailty: a Delphi-style expert consultation survey
Schenelle Dlima, *University Of Manchester - Manchester (United Kingdom)*
- LP022** Attitudes of older adults to screening for fall risk, physical frailty and sarcopenia: a systematic review
Odufuwa Oluwakemi, *Institute For Health Research, University Of Bedfordshire - Luton (United Kingdom)*
- LP023** The impact of triglyceride glucose index on bidirectional transitions concerning frailty based on multi-state Markov model: a national cohort study
Han Wang, *Tianjin Medical University General Hospital - Tianjin (China)*
- LP024** Telomere Length and its Association with Physical Aging in Elderly Populations: A Systematic Review
Kyi Mar Wai, *The University of Tokyo - Tokyo (Japan)*
- LP026** Risk prediction models for frailty in older adults: A systematic review and critical appraisal
Ling-Na Kong, *Chongqing Medical University - Chongqing (China)*

Theme 02

Cognitive Frailty

- P024** Psychosocial Factors Mediate the Relationship Between Olfactory Function and Cognitive Frailty in Older Adults: A Structural Equation Modeling
Fang-Wen Hu, *Kaohsiung Medical University - Kaohsiung (Taiwan, Republic of China)*
- P025** The association between cognitive frailty and transition to institutional care among community-dwelling older adults: A competing risks survival analysis
Jinwei Bian, *The University Of Hong Kong - Hong Kong (China)*
- P026** Association of physical function with cognitive function among male older adults in a retirement home
Lin Chih-Ming, *Chang Gung Memorial Hospital - Taipei (Taiwan, Republic of China)*
- P027** Respiratory Muscle Performance and Cognition in Older Adults with Subjective Cognitive Complaints: A Pilot Study
Lawrence Cahalin, *University Of Miami Miller School Of Medicine - Coral Gables (United States)*
- P028** Machine Learning to Detect Cognitive Frailty in Community-Dwelling Older Adults
Catherine Park, *Yonsei University - Wonju (Korea, Republic of)*
- P029** Do myokines influence the association between sarcopenia-related parameters and cognitive function in community-dwelling older adults?: exploratory results from the ENHANce study
Nadjia Amini, *Department Of Public Health And Primary Care, Ku Leuven - Leuven (Belgium)*
- P030** Cognitive frailty and malnutrition: associated syndromes and their management using CGA at geriatric outpatient clinics
Hana Vankova, *Third Faculty Of Medicine, Charles University - Praha (Czech Republic)*

- P031** **Simple Whisper Test May Help Detect Physio-cognitive Decline Syndrome in Older Adults**
Lina Ma, Xuanwu Hospital Capital Medical University - Beijing (China)
- LP027** **Mortality risk in cognitive frailty older adults: follow-up of 12 years**
Ione Jayce Ceola Schneider, UFSC - Araranguá (Brazil)
- LP028** **Impact of number of functional teeth on incident cognitive dysfunction after 2-year**
Nahyun Lim, Department Of Precision Medicine, Graduate School, Kyung Hee University - Seoul (Korea, Republic of)
- LP029** **A multicenter study of Motoric Cognitive Risk Syndrome (MCR) in Chinese older adults**
Li Zhang, Xuanwu Hospital, Capital Medical University - Beijing (China)
- LP030** **Association between Step Count and Frailty Phenotypes among Community-Dwelling Older Adults with Mild Cognitive Impairment: A Cross-Sectional Study**
Takahisa Ohta, Tokyo Metropolitan Institute For Geriatrics And Gerontology - Tokyo (Japan)
- LP031** **Association of social support and cognitive frailty among community-dwelling middle-aged and older adults in China: a cross-sectional survey**
Xiaoxia Wei, Chinese Academy Of Medicine Science & Peking Union Medical College - Beijing (China)
- LP032** **Association of social frailty and cognitive impairment among community-dwelling middle-aged and older adults in China: a cross-sectional survey**
Xiaoxia Wei, Chinese Academy Of Medicine Science & Peking Union Medical College - Beijing (China)
- LP033** **Cognitive Frailty in the Indian Elderly: Insights from the Longitudinal Aging Study of India (LASI)**
 Akshata Rao, All India Institute Of Medical Sciences - Delhi (India)
- LP034** **Correlation Analysis of Caregiver Care Ability and Preparedness in Elderly ICU Transitional Patients**
Na Zhang, Xi'an Jiaotong University - Xi'an (China)
- LP035** **Mediating role of Physical Capabilities in the association between Perceived Physical Fatigability and Cognitive Frailty in Older Adults**
Yixin Hu, Chinese PLA General Hospital - Beijing (China)
- LP036** **Development and validation of a nomogram-assisted tool to predict potentially reversible cognitive frailty in Chinese community-living older adults**
Yu Jiang, Chinese Academy Of Medical Science & Peking Union Medical College - Beijing (China)
- LP037** **Comparison of three aging metrics in dual declines to capture all-cause dementia and mortality risk**
Anying Bai, Chinese Academy Of Medical Science And Peking Union Medical College - Beijing (China)
- LP038** **Reducing Delirium Risk in Acute Elderly Care: An Innovative Interdisciplinary Approach**
 Mei-Ying Chung, Buddhist Tzu Chi Medical Foundation Dalin Tzu Chi Hospital - Chiayi (Taiwan, Republic of China)

Theme 03

COVID 19 & Frailty & Sarcopenia

- P032** **Distinct Frailty Profiles in Long COVID and Geriatric Patients: A Comparative Evaluation**
Flores Pazos, *University of Miami/Jackson Health System - Miami (United States)*
- P033** **Evaluation of Sarcopenia via a Three-level Balancing Assessment**
Ning Xi, *The University Of Hong Kong - Hong Kong Sar (China)*
- P034** **The Minimum Feret's Diameter as a Reliable Geometric Parameter for Distinguishing Healthy and Sarcopenic Muscle Fibers in Surgical Patients**
Qingyao, Keefe Quek, *Skh Musculoskeletal Regenerative Laboratory, Singhealth – Singapore (Singapore)*
- P035** **Development and Validation of a Screening Tool for Sarcopenia in Chinese Nursing Home Residents**
Kaili Sun, *School Of Public Health, Zhejiang University - Hangzhou (China)*
- P036** **Effect of online exercise classes on the physical fitness and community development among older adults**
Satoshi Ishizaki, *Shibaura Institute Of Technology - Saitama (Japan)*
- P037** **Lower adiposity and higher muscle quality are associated with an increased likelihood of recovery and higher health-related quality of life up to one-year following hospitalisation for COVID-19.**
Hamish J C McAuley, *University of Leicester - Leicester (United Kingdom)*
- P038** **Establishment of a precision nutrition model for sarcopenia based on multi-aspects evaluation**
Lin Kang, *Peking Union Medical College Hospital - Beijing (China)*
- P039** **Prospective Observational Study on Predictors of Prolonged Length-of-stay (pLOS) in Hospitalized Geriatric Patients**
Yogesh Poonia, *All India Institute Of Medical Sciences - New Delhi (India)*
- LP039** **Social-media based health education plus exercise programme (SHEEP) to improve muscle function among community young-old adults with possible sarcopenia: A feasibility study**
Ya Shi, *University Of Manchester - Manchester (United Kingdom)*
- LP040** **Frailty and COVID-19 infection: points to pay attention to in the future health management**
Xinlei Miao, *The Second Hospital Of Dalian Medical University- Dalian (China)*
- LP041** **New Horizons for Older Adults with Community-Acquired Pneumonia: Incorporating Host Factors into the Development and Validation of a Long-Term Mortality Prediction Model**
Bingxuan Weng, *Peking University - Beijing (China)*

Theme 04

E-Health, digital tool

- P040** **Effects of an AR-based Home Exercise Intervention on Physical and Cognitive function in the in community-dwelling older adults with pre-sarcopenia**
Hyuntae Park, *Dong-A University - Busan (Korea, Republic of)*
- P041** **Effectiveness of Telemedicine in Managing Frail Patients with Acute Illness at Home: A Systematic Review and Meta-Analysis**
Chi Hsien Huang, *E-Da Hospital, I-Shou University - Kaohsiung City (Taiwan, Republic of China)*
- P042** **Prediction of hospitalization and death in middle-aged and older adults by frailty assessed using a wrist-worn device: the UK Biobank Study**
National Center For Geriatrics And Gerontology - Obu (Japan)
- P043** **Development of a novel sarcopenia diagnostic medical device system(re:Have) leveraging mobile-based multimodal digital biomarkers**
Jinwoo Kim, *Yonsei University - Goyang (Korea, Republic of)*
- P044** **Relationship Between Psychomotor and Locomotor Skills in Aging Workforce**
Olena Tomarevska, *D. F. Chebotarev Institute Of Gerontology Of Nams Of Ukraine - Kyiv (Ukraine)*
- LP42** **Comparison of health coaching with a web-based resource for people awaiting total joint replacement surgery: A feasibility study**
Lin Tong, *Sheffield Hallam University - Sheffield (United Kingdom)*
- LP43** **Assessing the Impact of a Web-Based Resource on Pain, Function, and Surgical Intent in patients with Knee Osteoarthritis**
Lin Tong, *Sheffield Hallam University - Sheffield (United Kingdom)*
- LP44** **Identification and Estimating Cognitive Frailty by Multimodal Digital Biomarkers: Feasibility and Reliability trail**
Qiwei Wu, *Zhejiang University - Hangzhou (China)*
- LP45** **Construct and validate the risk screening model of mild cognitive impairment based on routine indicators**
Xiaochu Wu, *West China Hospital Of Sichuan University - Chengdu (China)*
- LP46** **Association with deterioration of care-need levels among community-dwelling older adults: an interpretable machine learning approach**
Sakiko Itoh, *Graduate School Of Health Care Science, Institute Of Science Tokyo - Bunkyo (Japan)*

Theme 05


Clinical Trials and Therapeutics

- P045** **Effect of Nelumbo nucifera Extracts and Regular Walking on Muscle Strength and Mass in Adults with Relatively Low Muscle Mass: A Randomized Controlled Trial**
Sang Yeoup Lee, *Pusan National University School Of Medicine - Yangsan (Korea, Republic of)*
- P046** **Exploratory functional and quality of life outcomes with daily consumption of the ketone ester bis-octanoyl (R)-1,3-butanediol in healthy older adults: a randomized, parallel arm, double-blind, placebo-controlled study**
Brianna Stubbs, *Buck Institute - Novato (United States)*

- P047** **Randomised Controlled Trial Assessing Vitamin D's role in Reducing BPPV Recurrence in Older Adults**
Barbara Helen Rosario, *Changi General - Singapore (Singapore)*
- P048** **Signal of slowing in DNA methylation aging clocks following daily consumption of a ketone ester for 12-weeks in healthy older adults**
Sidharth Madhavan, *Buck Institute For Research On Aging – Novato, CA (United States)* and *Leonard Davis School Of Gerontology, USC - Los Angeles, CA (United States)*
- P049** **The study of meridian points stimulation selfcare method to improve action posture based on motion capture data**
Gaochao Cui, *Toyama Prefectural University - Imizu (Japan)*
- P050** **Recruiting and retaining diverse and frail older adults into trials: anticipating time and financial costs and literature-informed strategies**
Megan Huisingh-Scheetz, *University Of Chicago - Chicago (United States)*
- P050bis** **Geroscience guided rapamycin clinical trials: Rationale and experimental design**
Adam Konopka, *University Of Wisconsin-Madison - Madison (United States)*
- P051** **Physical and Cognitive Frailty: Effects of two different training programs among older women - A randomized clinical trial**
Natália Moreira, *Federal University Of Parana - Curitiba (Brazil)*
- LP047** **The Impact of Expressive Therapies Continuum (ETC) Based Art Therapy Interventions on Cognitive Functioning and Quality of Life in Older Adults with Dementia: A Randomized Controlled Trial**
Jinnie Jeon, *Adler University - Vancouver (Canada)*
- LP048** **Elderly patients with sarcopenia is more likely to have perioperative neurocognitive disorders**
Tianyao Zhang, *The First Affiliated Hospital Of Chengdu Medical College - School Of Clinical Medicine, Chengdu Medical College - Chengdu (China)*
- LP049** **Effects of pemafibrate on serum carnitine in patients with hypertriglyceridemia: A sub-analysis of phase 2 study of pemafibrate extended-release formulation**
Hidenori Arai, *National Center For Geriatrics And Gerontology - Aichi (Japan)*

Theme 06

Osteoporosis & Frailty

- P052** **Prevalence and risk factors for hypophosphatemia following ferric carboxymaltose administration in older adults with hip fracture**
Silvia Ottaviani, *University Of Genoa - Genoa (Italy)*
- P053** **Using walking speed to screen for frailty in an ambulatory geriatric osteoporosis clinic**
Nahid Rianon, *McGovern Medical School - Houston (United States)*
-  **P054** **Gut microbiota dysbiosis, Sarcopenia, Osteoporosis and Osteosarcopenia in Older People: A Systematic Review Protocol**
Ricardo Guerra, *Universidade Federal Do Rio Grande Do Norte - Natal-Rn (Brazil)*

- P055** **Enhancing resistance training adherence in patients with sarcopenia and osteoporosis: A study on referral success rates**
Ching-Ping Hsu, *Mackay memorial hospital - Taipei (Taiwan, Republic of China)*
- P056** **Risk of sarcopenia in older adults with vertebral fractures**
Nataliia Grygorieva, *Institution "d. F. Chebotarev Institute Of Gerontology Of The Nams Of Ukraine" - Kyiv (Ukraine)*
- P057** **Loss of Muscle Mass in Angolan Elderly: What We Know and the Main Evidence-Based Approaches**
Rita Bárbara, *Universidade Privada de Angola - Luanda (Angola)*

Theme 07

Geroscience: Senescent Cells

- P058** **Transcriptome analysis and functional studies reveal senescence pathways associated with frailty**
Ander Matheu, *Biogipuzkoa Health Research Institute - San Sebastian (Spain)*
- P059** **Inorganic polyphosphate and dietary restriction: interactions between physiology and age-related pathology**
Luca Tagliafico, *University Of Genoa, Genoa, Italy - Genoa (Italy)*

Theme 08

Nutrition and Aging

- P060** **Understanding the mechanisms behind Branched-Chain Amino Acids (BCAA) in mitigating Sarcopenia**
Alexandra Wee, *Sengkang General Hospital - Singapore (Singapore)*
- P061** **Malnutrition and its determinants among older adults living in foster families in Guadeloupe (French West Indies). A crosssectional study**
Maturin Tabué-Teguo, *CHU De Martinique - Fort-De-France (Martinique)*
- P062** **Interplay Between Nutritional Status, Frailty Syndrome, And Quality Of Life**
Katarzyna Lomper, *Faculty Of Nursing And Midwifery, Medical University - Wroclaw (Poland)*
- P063** **Association between nutritional status and dynapenia among community-dwelling older adults in Taiwan: A cross-sectional study**
Chih-Ching Chang, *National Taiwan Normal University - Taipei (Taiwan, Republic of China)*
- P065** **Adherence to healthy eating habits is linked to sarcopenia risk independently of adequate protein intake and physical activity in older adults**
Andreas Nilsson, *School Of Health Sciences, Örebro University - Örebro (Sweden)*
- P066** **The association of dietary omega-3 fatty acid intake and indicators of sarcopenia.**
Janet Pritchard, *McMaster University - Hamilton (Canada)*

- P067** **Development of the visual dishes scale (VDS) to screen malnutrition in older adults**
Lina Ma, *Xuanwu Hospital Capital Medical University - Beijing (China)*
- P068** **Developing the EAMIT (East Anglian Malnutrition Identification Tool): feasibility of using the UK Clinical Practice Research Database (CPRD) for availability of factors to construct a new screening tool for malnutrition**
Ailsa Welch, *Norwich Medical School, University Of East Anglia - Norwich (United Kingdom)*
- P069** **Impact on nutritional status according to GLIM criteria of oral nutritional supplementation in malnourished old nursing home residents**
Rocio Sánchez-Fabrés, *Hospital Universitario Puerta de Hierro - Madrid (Spain)*
- P070** **Cross-sectional associations between dietary and plasma vitamin C, strength, and functional outcomes in men and women from the EPIC-Norfolk cohort.**
Jamie Scott, *Norwich Medical School and Centre For Population Health Research, University of East Anglia - Norwich (United Kingdom)*
- LP50** **Correlating changes in intramuscular adipose tissue in sarcopenic surgical patients undergoing prehabilitation with HMB supplementation – a 6-month update of the HEROS study**
Frederick Koh, *Sengkang General Hospital / St Mark's Hospital - London (United Kingdom)*
- LP51** **Impact of Nutritional Status on Body Composition Changes in Older Japanese Patients After Gastrointestinal Cancer Surgery**
 Eiko Takano, *National Center for Geriatrics and Gerontology - Obu (Japan)*
- LP52** **Muscle mass assessed by muscle ultrasound for sarcopenia diagnosis: a cross-sectional study in patients after cardiac surgery post-ICU admission**
Stefannie Mendes, *Hospital De Clínicas De Porto Alegre - Porto Alegre (Brazil)*
- LP53** **Association between Diet Quality and Impaired Physical Functional Performance in Mexican Community-Dwelling Older Adults: Evidence from a Cross-Sectional Study**
Miriam Teresa Lopez Teros, *instituto Nacional De Ciencias Médicas Y Nutrición Salvador Zubirán - Mexico (Mexico)*
- LP54** **Mapping Sarcopenic Obesity in Aging India: A Secondary Analysis of LASI Wave 1 Survey**
Aditi Population Council - Vaishali (India)
- LP55** **Megestrol Acetate as Appetite Stimulant in Geriatric Patients: A Systematic Review and Meta-analysis**
 Marie Gene Cruz-Tantoco, *St. Luke's Medical Center Global City - Taguig (Philippines)*
- LP56** **Relationship between loneliness and frailty among community-dwelling older adults: a serial mediation model**
Wen Xie, *School Of Nursing, Tongji Medical College, Huazhong University Of Science And Technology - Wuhan (China)*
- LP57** **Dietary patterns from mid-through later-life in relation to sarcopenia risk over 20 years among Chinese community-dwelling oldest old individuals**
Anying Bai, *Chinese Academy Of Medical Science & Peking Union Medical College - Beijing (China)*
- LP58** **Correlation of dietary pattern and frailty among adult population in Northeast China**
 Fei Xu, *Health Management Center, The Second Affiliated Hospital Of Dalian Medical University - Dalian (China)*

Epidemiology

- P071** **Comparison of quality of life of older adults living in foster families versus nursing homes. Results from the KASA studies.**
Maturin Tabué-Teguo, *CHU de Martinique - Fort-De-France (Martinique)*
- P072** **Health Outcomes and Care Utilization Among Older Adults with Dynapenic Obesity: Insights from 27 European countries**
Rafaela Espírito Santo, *Health Research And Innovation Science Centre, Klaipeda University - Klaipeda (Lithuania)*
- P073** **Associations of sarcopenia and physical activity with quality of life in postmenopausal women: The Korea National Health and Nutrition Examination Survey 2009-2011**
Justin Y. Jeon, *Yonsei University - Seoul (Korea, Republic of)*
- P074** **The interplay between grip strength and brain age: Differential trajectories of neuromuscular decline in aging**
Brooke Vaughan, *Ohio University - Athens (United States)*
- P075** **Serum vitamin D deficiency as a potential risk factor for incidence of slowness of gait in older people: insights from the ELSA Study**
Alexandre Tiago, *Federal University of Sao Carlos - Sao Carlos (Brazil)*
- P076** **Does the Chair Stand Test perform better than the Short Physical Performance Battery in predicting mortality among high-functioning older adults?**
Alexandre Tiago, *Federal University of Sao Carlos - Sao Carlos (Brazil)*
- P077** **Use of Digital Dynamometer to Measure Handgrip Strength in the Older adults: A Study of Validity and Reliability**
Ligiana Pires Corona, *Faculty Of Applied Sciences, State University Of Campinas - Limeira-Sp (Brazil)*
- P078** **All-cause mortality of older adults with frailty following acute hospital admission: a multicentre study in northern tanzania**
Amie Murray, *Newcastle University - Newcastle Upon Tyne (United Kingdom)*
- P079** **Clinical outcomes of older people living with frailty following an acute hospital admission: a multicentre study in northern tanzania**
Amie Murray, *Newcastle University - Newcastle Upon Tyne (United Kingdom)*
- P080** **Sit-to-stand test and handgrip strength: which is the best test to identify mobility decline in older people?**
Alexandre Tiago, *Federal University of Sao Carlos - Sao Carlos (Brazil)*
- P081** **Relationship between neighborhood social support and pre-frailty in older adults from a middle-income country**
Vanessa Corrêa, *Federal University Of Santa Catarina - Araranguá (Brazil)*
- LP59** **Prevalence of Risk of Sarcopenia in Older Adults with Type 2 Diabetes Mellitus: Insights from the Amazonian SAPPA Study**
Patricia Parreira Batista, *Federal University Of Minas Gerais - Belo Horizonte, MG (Brazil)*

- LP60** Identifying a set of quality indicators for older adults hospitalized for injuries: an expert consensus study
Marianne Giroux, *Universite Laval - Quebec (Canada)*
- LP61** Effects of tea consumption on appendicular muscle mass ratio and bone density among community-dwell Taiwanese elderly
Nain-Feng Chu, *Kaohsiung Veterans General Hospital, Taipei (Taiwan)*
- LP62** Sarcopenia prevalence in a German geriatric day clinic
Basel Habboub, *Department Of Geriatrics, University Hospital, Paracelsus Medical University Nuremberg - Nuremberg (Germany)*
- LP63** Relationships between comorbidity, physical activity and frailty differ according to educational attainment: findings from the Southampton Longitudinal Study of Ageing (SaLSA)
Faidra Laskou, *MRC Lifecourse Epidemiology Centre - Southampton (United Kingdom)*
- LP64** A vigor to frailty score distinguishes wide range of risk for incident functional limitation: the Study of Muscle, Mobility and Aging (SOMMA)
Anne Newman, *University Of Pittsburgh - Pittsburgh (United States)*
- LP65** Factors associated with physical frailty status and health progression: An evidence from ten-year longitudinal study in China
Song Leng, *The Second Hospital Of Dalian Medical University- Dalian (China)*
- LP66** Functional Dependency and Cardiometabolic Multimorbidity in Older People: Pooled Analysis of Individual-Level Data from 20 Countries
Bai Anying, *Peking Union Medical College - Beijing (China)*

Theme 10

Animal Models, Preclinical Studies

- Po82** MF-300 (15-PGDH Enzyme Inhibitor) reverses age-related muscle weakness in mice by restoring muscle quality
Micah Webster, *Epirium Bio - San Diego (United States)*
- Po83** Kynurenine Metabolism in the Age-Associated Decline of the Bacterial Immune Response
George Sutphin, *University Of Arizona - Tucson (United States)*
- Po84** MF-300 (15-PGDH inhibitor) accelerates recovery of muscle force in a mouse model of nerve injury
Micah Webster, *Epirium Bio - San Diego (United States)*
- Po85** N-Butylphthalide ameliorated ischemia/reperfusion-induced skeletal muscle injury in male mice via activating Sirt1/Nrf2 signaling pathway
Jia-Wen Li, *Zhongda Hospital, School Of Medicine, Southeast University - Nanjing (China)*
- Po86** Knockout of Angiotensin Type 2 Receptor Is Linked to Increased Frailty in Aged Mice
Michael Abadir, *University Of Maryland - College Park (United States)*

- LP067** **Sex differences in age-related mobility decline: A comparison of spot tests and continuous digital monitoring in Swiss mice**
Angelo Parini, *IHU HealthAge - Toulouse (France)*

Theme 11

Biomarkers and Imaging


- P087** **Neural correlates of frailty in cognitively healthy adults: a multimodal imaging study**
Ilaria Parrotta, *IRCCS San Camillo - Venezia (Italy)*
- P088** **Identification of metabolites associated with the development of sarcopenia in older women: a longitudinal nested case-control study**
Takashi Shida, *Tokyo Metropolitan Institute For Geriatrics And Gerontology - Tokyo (Japan)*
- P089** **Biomarkers of frailty in patients with cirrhosis undergoing a multifactorial intervention consisting of home exercise, branched-chain amino acids and a multistrain probiotic.**
Eva Roman, *Hospital De La Santa Creu I Sant Pau, Barcelona (Spain)*
- P090** **Identification and Validation of MASAP as a Universal Blood Biomarker for Sarcopenia**
Yunju Jo, *Gwangju Institute Of Science And Technology - Gwangju (Republic of Korea)*
- P091** **Respiratory Sarcopenia: A Literature Review of Proposed Diagnostic Measurements**
Matthew Butler, *University Of Miami - Coral Gables (United States)*
- P093** **Application of radiomic features of liver, adipose Tissue, and muscle based on PET imaging in predicting cancer-associated cachexia risk**
Yang Jiang, *Southeast University - Nanjing (China)*
- P094** **The Importance of Digital Health Technology–Derived Physical Activity to Adult Patients with Cancer and Cachexia**
Carrie Northcott, *Pfizer- Groton (United States)*
- P095** **Prediction of cachexia in lymphoma patients using PET radiomic features**
Yang Jiang, *Southeast University - Nanjing (China)*
- P096** **Association between sex-specific hand grip strength and plasma HbA1c levels among older adults: A Cross-Sectional Study**
Uyanga Ganbat, *UBC - Vancouver (Canada)*
- P097** **Exploring the role of CT-derived psoas muscle volume in frailty screening and sarcopenia assessment for older adult patients undergoing transcatheter aortic valve implantation**
Tobias Vollmer, *Heart And Diabetes Center - Bad Oeynhausen (Germany)*
- P098** **A multi-biomarker panel comprising fecal calprotectin, brain-derived neurotrophic factor, fibroblast-growth factor-21 and irisin outperforms single biomarkers in the diagnosis of EWGSOP2-defined sarcopenia in community-dwelling older persons.**
Laurence Lapauw, *Division Of Gerontology And Geriatrics, KU Leuven - Leuven (Belgium)*
- P099** **Relationship between high resolution MRI skeletal muscle texture and physical function**
Bragi Sveinsson, *Massachusetts General Hospital - Boston (United States)*

- P100** **Ikigai and new-onset frailty among Japanese older adults: 5-year follow-up and the possible roles of interleukin-6**
Bokyung Son, *The University Of Tokyo - Tokyo (Japan)*
- P101** **Increased myosteatosis but not myopenia in individuals with diabetic retinopathy: first results from the UK Imaging Diabetes Study**
Tushy Kailayanathan, *Perspectum Ltd - Oxford (United Kingdom)*
- P102** **Frailty and Wearable Ambulation Metrics in Prostate Cancer: Insights from the Open-Source GeRI Platform**
Nabiel Mir, *The University of Chicago - Chicago (United States)*
- P103** **Machine Learning Integration of Metabolomics and Proteomics for Predicting Physio-cognitive Decline Syndrome: A Multi-cohort Validation Study**
Li-Ning Peng, *National Yang Ming Chiao Tung University - Taipei (Taiwan, Republic of China)*
- P104** **Association between sarcopenia and cytokines: a cross-sectional study**
Gabriela Cabett Cipolli, *State University of Campinas, Faculty of Medical Sciences - Campinas (Brazil)*
- P105** **Diffusion tensor imaging parameters as neural markers of frailty in cognitively unimpaired older adults**
Gabriela Cabett Cipolli, *State University of Campinas, Faculty of Medical Sciences - Campinas (Brazil)*
- LP68** **Insight to SESAM: “SonoElastography: Sarcopenia Associated Muscle Change”**
Basel Habboub, *Department Of Geriatrics, University Hospital, Paracelsus Medical University Nuremberg - Nuremberg (Germany)*
- LP69** **Ultrawideband microwave transmission-mode probe for sarcopenia detection: pilot study**
Paul Meaney, *Dartmouth College - Hanover (United States)*
- LP70** **Low mitochondrial oxidative phosphorylation activity in CD4 regulatory T cell subsets reveals functional health decline in older adults: A cross-sectional analysis from the INSPIRE-T cohort**
Laurent Martinez, *I2MC, IHU HealthAge - Toulouse (France)*
- LP71** **Elevated GDF-15 level is an independent predictor of 90-day mortality in frail older patients – results from the Copenhagen PROTECT Study**
Hanne Nygaard, *Department Of Emergency Medicine, Copenhagen University Hospital, Bispebjerg And Frederiksberg and Copenage, University Of Copenhagen - Copenhagen (Denmark)*
- LP72** **Associations between biological markers of aging and appetite loss**
Annelie Turesson, *Department of Food Studies, Nutrition and Dietetics - Uppsala (Sweden)*
- LP73** **Comparing DXA and D3Cr Dilution to Measure Muscle Mass in Older Women after Hip Fracture**
Elizabeth Bryant, *Washington University In St. Louis School of Medicine - St. Louis (United States)*

Theme 12

Drug Developments

LP074 Development of novel therapeutics for sarcopenia using comprehensive in vitro and in vivo models
Chae-Seok Lim, Wonkwang University School Of Medicine - Iksan (Korea, Republic of)

LP075  Druggable genomic Mendelian randomization identifies therapeutic targets for type 2 diabetes mellitus comorbid with sarcopenia
Qian Huang, Shanghai East Hospital, Tongji University School Of Medicine - Shanghai (China)

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Physical Exercise

P106 A systematic review of the psychometric properties of physical performance tests for sarcopenia in community-dwelling older adults
Sabien Van Exter, Radboud UMC - Nijmegen (The Netherlands)

P107 Physical ACTivity and aminoacids in mild cognitive impairment: their role in pregression towards DEmentia. Preliminary results from the PHACADE study
Antonella Vaccina, Azienda USL di Modena - Modena (Italy)

P108 Improving rehabilitation and physical activity in hospitalised older people: The Saints Foundation – University Hospital Southampton Partnership, UK
Jake Batchelor, Saint Mary's Football Club, Southampton (United Kingdom)

P109 Outcomes of exercise practitioner led physical activity in hospitalised older people: Saints Foundation – University Hospital Southampton Partnership, UK
Philippa Draper, University Hospital Southampton Nhs Foundation Trust, Southampton (United Kingdom)

P110 Feasibility of Acute High-Intensity Interval Exercise to Improve Cognition in Chronic Stroke Patients
Anna Welch, University Of Tennessee, Chattanooga - Chattanooga (United States)

P111 Comparative Impact of Resistance and Aerobic Exercise on Depression and Anxiety in Korean Adults: A Nationwide Propensity Score Matching Analysis
Ji-Won Lee, Severance Hospital, Yonsei University College Of Medicine - Seoul (Republic of Korea)

P112 Effect of eight weeks of home-based functional training in older adults with physical frailty: A clinical trial
Bruna Capanema, Udesc - Florianópolis (Brazil)

P113 Effect of weighted vest use or resistance exercise during caloric restriction on muscle function and strength: results from the INVEST in bone health randomized clinical trial
Kristen Beavers, Wake Forest University School of Medicine - Winston-Salem (United States)

P114 Effects of Resistance Exercises on Skeletal Muscle Hypertrophy, Muscular Strength, and Inflammatory Markers in Patients with Chronic Kidney Disease: A Systematic Review and Meta-Analysis of Randomized Controlled Trials
Chi Ho Kim, Yonsei University - Seoul (Korea, Republic of)

P115 DEFRAIL@Home: Protocol for a feasibility study on a remotely delivered diet and exercise intervention for frailty
Sarah Fagan, South East Technological University Waterford - Waterford (Ireland)

- P116** **PANACEE: Impact of nutritional and physical activity support on the frailty syndrome in older individuals in the post-therapeutic phase of cancer treatment.**
Nabil Zerhouni, *CHU Grenoble - Grenoble (France)*
- P117** **Aging and fall-risk impair biomechanical and neuromuscular mechanisms of voluntary stepping and balance**
Óscar Ribeiro, *University Of Maia - Oporto (Portugal)*
- P118** **Influence of active lifestyle criteria on muscle force, muscle power, rate of force development and fatigue across lifetime.**
Mylene Aubertin-Leheudre, *UQAM-CRIUGM - Montréal (Canada)*
- LPo76** **Evaluating Synchronous Online and Face-to-Face Exercise Programs for Older Nursing Home Residents: Insights from a Pilot RCT**
Ana Rodriguez Larrad, *UPV/EHU - Arrasate (Spain)*
- LPo77** **Nicotinamide Supplementation to improve Physical Performance in Older Adults at Risk of Falls: Preliminary Results**
Felipe Salech, *Universidad De Chile - Santiago (Chile)*
- LPo78** **Barriers and facilitators to physical activity among frail older South Asians residing in the UK: a systematic review**
Onyinye Ezeokoli, *Institute For Health Research, University of Bedfordshire - Luton (United Kingdom)*
- LPo79** **Evaluation of a mind-body physical activity intervention for mildly frail older adults**
Ivelina Tsocheva, *Institute For Health Research, University Of Bedfordshire - Luton (United Kingdom)*
- LPo80** **Feasibility of physical activity in older adults with hematological malignancies: ACCES Study (Aging & CanCer: Exercise as a Solution)**
Eva Peyrusqué, *CHU Toulouse - Toulouse (France)*
- LPo81** **Microsampling for multi-omic profiling and characterization of individuals undergoing extremely demanding physical activities and its application to marathon runners**
Robert Chen, *Weill Cornell Medicine - New York (United States)*
- LPo82** **The physical activity perceptions in the elderly primary care population in Singapore**
Sai Zhen Sim, *National Healthcare Group Polyclinics - Singapore (Singapore)*
- LPo83** **Twice-weekly multicomponent exercise yields greater benefits than once-weekly in older adults.**
Jon Irazusta, *University of The Basque Country - Bilbao (Spain)*
- LPo84** **Sarcopenia risk in older adults: importance of adherence to type and volume of physical activity according to guidelines for older adults**
Hadil Limem, *UFR Staps, University Of Paris Nanterre - Paris (France)*
- LPo85** **Cross-sectional and longitudinal associations between physical activity, p-tau181 and cognition in older adults**
Jérémy Raffin, *IHU HealthAge - Toulouse (France)*
- LPo86** **Influence of resistance training variables to improve muscle mass outcome in older adults with sarcopenia : a systematic review with meta-regressions**
Leo Delaire, *Hôpital Lyon Sud and Université Claude Bernard - Oullins-Pierre Bénite (France)*

- LP087** Effects of an exercise intervention targeted on the «intention-behavior gap» of frail older adults: A randomized controlled trial
Xinyang Bai, *School Of Nursing, Jilin University - Jilin (China)*
- LP088**  A Novel Anti-Frailty Home Healthcare Program Improves Physical Performance Measures and Increases Independence in Frail Older Adults
William Mills, *Brightspring Health Services – Louisville, KY (United States)*
- LP088 bis** Relationship between physical fitness and running performance of older recreational marathon runners-comparing runners aged 50 to 70 years
Masato Tokui, *Kyushu Kyoritsu University - Kitakyushu (Japan)*

Theme 14

ICOPE (Integrated CARE for Older People)

- P119** Identifying Community-Dwelling Older Adults at risk of Sarcopenia with World Health Organisation-ICOPE Step 1
Min Xian Wang, *Singhealth Regional Health System, Singapore(Singapore)*
- P120** The Development of Roles and Training for Personnel in Taiwan's Integrated Care for Older People (ICOPE) Program
Fang-Wen Hu, *Kaohsiung Medical University - Kaohsiung ,(Taiwan Republic of China)*
- P121** Internet survey on the positive appraisal of family caregivers for older adults with dementia at home
Zhang Pingping, *2-2-78 Nishinagae, Toyama City (Japan)*
- P122** Assessment of Demographic Characteristics and Intrinsic Capacities of Angolan Older Adults Based on ICOPE: A Pilot Study in Peri-Urban Communities of Luanda
Silveira Silveira, *UPRA- Luanda (Angola)*
- LP089** WHO ICOPE Program adherence of 8,672 older age people over 2-years of follow-up
Caroline Berbon, *IHU HealthAge and CERPOP Maintain Unit - Toulouse (France)*
- LP090** Implementing the WHO ICOPE program in clinical practice: three years of lessons from monitoring 27,082 participants using the ICOPE Monitor digital tool
Caroline Berbon, *IHU HealthAge and CERPOP Maintain Unit - Toulouse (France)*
- LP091** Implementation of ICOPE program in France: last news
Neda Tavassoli, *IHU HealthAge - Toulouse (France)*
- LP092** Spotlight on the ICOPE Screening Tool: New Accuracy Insights from the ICOPE Brazil Feasibility Study
Renato Bandeira De Mello, *Universidade Federal Do Rio Grande Do Sul - Porto Alegre (Brazil)*
- LP093**  Intrinsic capacity decline and associated factors among retired Cameroonians
Marie-Josiane Ntsama Essomba, *Faculty of Medicine And Biomedical Sciences, University of Yaounde I, Cameroon - Yaounde, (Cameroon)*
- LP094**  Trajectories of intrinsic capacity affect incident disability in community-dwelling older adults: The NILS-LSA
Shu Zhang, *Department Of Epidemiology Of Aging, National Center For Geriatrics And Gerontology- Obu (Japan)*

Theme 15

Body Composition

- P123** **Variability in Obesity Prevalence Among Hospitalized Older Adults: Comparison of Different Assessment Modalities**
Reshma Merchant, *Alexandra Hospital (Singapore)*
- P124** **Association of decline in D3Cr muscle mass with age across the lifespan compared to that of muscle strength and power**
Megan Hetherington-Rauth, *California Pacific Medical Center Research Institute - San Francisco (United States)*
- P125** **Routine Thoracic CT Imaging for Muscle Mass Assessment Using Deep Learning and Its Prognostic Relevance in Older Adults: Insights from Two Cohorts**
Sabine Schluessel, *Department Of Internal Medicine Iv-Geriatrics - Munich (Germany)*
- P126** **Meta-Analysis: The Impact of Menopause on Body Composition in Postmenopausal Women**
Peijung Chiang, *Taichung Veterans General Hospital - Taichung (Taiwan, Republic of China)*
- P127** **Accuracy of SARC-Calf with calf circumference adjusted for body mass index for screening for low appendicular lean mass in older adults living in the community**
Ligiana Pires Corona, *Unicamp-University Of Campinas, Fca-School Of Applied Sciences, Limeira (Brazil)*
- P128** **Caloric Restriction-Induced Lean Mass Loss is Related to Muscle Strength but Not Function Among Older Adults: A Pooled Analysis of 10 Randomized Controlled Trials**
Daniel Beavers, *Wake Forest University - Winston-Salem (United States)*
- P129** **Effect of weighted vest use or resistance exercise during caloric restriction on CT-derived muscle and fat outcomes: results from the INVEST in bone health randomized clinical trial**
Delanie Lynch, *Wake Forest University School Of Medicine - Winston-Salem (United States)*
- P130** **Muscle Performance and Functional Implications in Community-Dwelling Older Women: Insights from Muscle-Specific Strength Analysis**
Patricia Parreira Batista, *Universidade Federal De Minas Gerais - Belo Horizonte (Brazil)*
- LP095** **Phase Angle as a Marker of Functionality and Adverse Events in Older Adults**
Eduardo Ferriolli, *University Of Sao Paulo Medical School - Sao Paulo (Brazil)*
- LP096** **Association between physical performance and body composition with dog ownership: INSPIRE-T cohort**
Eva Peyrusqué, *CHU Toulouse - Toulouse (France)*
- LP097** **External validation of NHANES-derived anthropometric equations for estimating appendicular skeletal muscle mass in East Asian populations: A three-cohort study from Taiwan and Japan with 13,582 community-dwelling adults**
I Tzu Chen, *College Of Medicine, National Taiwan University - Taipei (Taiwan, Republic of China)*

- LP098** **Sarcopenia, muscle mass, and dietary protein intake in adults older than 65 years after earlier bariatric surgery**
Gabriel Eksteen, *Clinical And Experimental Endocrinology, Ku Leuven - Leuven (Belgium)*

Theme 16

Biology of Frailty, sarcopenia

- P131** **Assessing the skeletal muscle pump during orthostatic physical counterpressure manoeuvres: Temporal lags and causal relationships in muscular-cardiovascular regulation**
Roman Romero-Ortuno, *Trinity College Dublin - Dublin (Ireland)*
- P132** **Frailty and Sarcopenia Progression in Hemodialysis Patients: Insights from Angolan Army Clinics**
Silvana Siveira, *UPRA - Luanda (Angola)*
- P133** **Early recognition and prompt treatment of acute sarcopenia: impact on short- and long-term outcomes**
Sarah Damanti, *Vita-Salute San Raffaele University - Milano (Italy)*
- P134** **Revolutionizing Sarcopenia Diagnosis: Unveiling Molecular Markers Through Comprehensive Transcriptomic Landscape Analysis**
Alexandra Wee, *Sengkang General Hospital - Singapore (Singapore)*
- P135** **Early life environment is associated with altered DNA methylation patterns in primary skeletal muscle myoblasts isolated from older individuals**
Hanan Sharkh, *University Of Southampton - Southampton (United Kingdom)*
- P137** **Atorvastatin decreases proliferation, increases senescence, impairs differentiation, and downregulates pathways associated with skeletal muscle function in human myoblasts from older adults**
Maisha Chaudhery, *University Of Southampton - Southampton (United Kingdom)*
- P138** **Red blood parameters are associated to frailty, but no to pre-frailty, in Brazilian older adults**
Ligiana Corona, *School Of Applied Sciences, University Of Campinas - Limeira (Brazil)*
- P139** **Frail to robust circRNA profiles in blood leukocytes may indicate molecular events associated with Alzheimer's disease dementia**
Daniela Gerovska, *Biogipuzkoa Health Research Institute - San Sebastian (Spain)*
- P140** **Sarcopenic Obesity Definitions: Differences in Prevalence and Associations with Blood Biomarkers, Body Composition Measures and Clinical Outcomes.**
Jia Qian Chia, *Tan Tock Seng Hospital - Singapore (Singapore)*
- P141** **Exploring the Impact of Skeletal Muscle Senescence on Bone Health: Insights from Extracellular Vesicles and miRNA**
Giovanni Lombardi, *IRCCS Ospedale Galeazzi-Sant'ambrogio - Milano (Italy)*
- P142** **Human skeletal muscle transcriptome meta-analysis identifies differentially expressed genes in sarcopenia and physiological muscle ageing**
Raquel Manzano, *Faculty of Veterinary, University of Zaragoza, Zaragoza (Spain)*

- P143** Improving mitochondrial function enhances the regenerative capacity of aged muscle stem cells
June Kim, *Sungkyunkwan University School Of Medicine - Suwon (Republic of Korea)*
- P144** Muscle Prmt1 deficiency causes mitochondrial dysfunction and perturbed neuromuscular junction
Ju-Hyeon Bae, *Sungkyunkwan University School Of Medicine - Suwon (Republic of Korea)*
- P145** Restoring Cdo expression prevents muscle wasting caused by cancer cachexia.
Jeongmin Park, *Sungkyunkwan University School Of Medicine - Suwon (Republic of Korea)*
- P146** The anthropometric equation for estimation of appendicular skeletal muscle mass in older Ukrainians
Nataliia Grygorieva, *Institution "d. F. Chebotarev Institute Of Gerontology Of The Nams Of Ukraine" - Kyiv (Ukraine)*
- P147** Sex-Specific Determinants of Muscle Strength: The Role of Body Composition and Water Distribution in Men and Women
Isabel Lorenzo, *Consorci Sanitari Del Maresme-Universitat De Vic - Barcelona (Spain)*
- P148** The Profile of Patients with Chronic Kidney Disease and Its Relationship with Functionality
Rita Barbara , *Universidade Privada De Angola - Luanda (Angola)*
- P149** Role of the mitochondrial dysfunction as a potential biomarker of frailty in subjects with and without multimorbidity: the FRAMITO project
Paolo Mazzola, *University Of Milano-Bicocca, School Of Medicine And Surgery - Monza (Italy)*
- LP099** Association between body fat distribution and lean mass with muscle function
Eduardo Ferriolli, *University Of Sao Paulo Medical School - Sao Paulo (Brazil)*
- LP100** The Longitudinal Association of Serum Creatinine- and Cystatin-C–Based Indices with Incident Sarcopenia During 6-Year: Findings from the KFACS
Jae Young Jang, *College Of Medicine, Kyung Hee University - Seoul (Korea, Republic of)*
- LP101** Circulating miR-101-3p and miR-144-3p as Potential Biomarkers of Sarcopenia in Older Adults
Hyung Eun Shin, *College Of Medicine, Kyung Hee University - Seoul (Korea, Republic of)*
- LP102** Predictive Value of Conceptual Sarcopenia Defined by the Global Leadership Initiative on Sarcopenia (GLIS) for Incident Mobility Disability Over a 6-Year Follow-up: Findings from the KFACS
Miji Kim, *College Of Medicine, Kyung Hee University - Seoul (Korea, Republic of)*
- LP103** The non-linear profile of sarcopenia biomarkers in a longitudinal in vitro murine cell model
Patricia Garcia-Gallastegi, *University Of The Basque Country (UPV/EHU) - Leioa (Spain)*
- LP104** Meta-analysis reveals muscle-aging processes are generally shared between females and males on the transcriptome level
Jelle De Jong, *TNO - Leiden (Netherlands)*
- LP105** Dyrk1b as a Potential Biomarker for Sarcopenia in Older Adults
Jia-Wen Li, *Zhongda Hospital, School Of Medicine, Southeast University - Nanjing (China)*
- LP106** Muscle function is markedly impaired in elderly hip fracture patients
Mariam El Assar, *Instituto De Salud Carlos III. Instituto De Investigación Idipaz - Madrid (Spain)*

- LP107 Bioactive Peptides as Therapeutic Targets for Muscle Wasting**
Anton De Spiegeleer, *Translational Research In Immunosenescence, TRIGG Group, Faculty Of Medicine And Health Sciences, Ghent University Hospital - Ghent (Belgium)*
- LP108 Comparative Analysis of Geriatric Syndromes and Biomarkers in elderly population with Sarcopenic Obesity**
Raj Kumar Tata, *All India Institute of Medical Science - Delhi (India)*
- LP109 Relationship between lower limb BIA-hydration indicators and muscle function in community-dwelling aged population: a 1-year follow-up cohort study.**
Mateu Serra-Prat, *Consorci Sanitari Del Maresme - Mataró (Spain)*


Theme 17

Vaccination and Healthy Aging

- P150 Development of an operationalized workflow for inpatient vaccinations of older adults as part of standard care**
Christine Yuanxin Chen, *Geriatric Medicine, Changi General Hospital - Singapore (Singapore)*

Theme 18

GLP-1 Agonists in Weight Loss and Sarcopenia

- P151 Exercise and nutritional intervention to reduce the risk of sarcopenia in older adults with type 2 diabetes and obesity treated with semaglutide: a randomized controlled trial**
 Tal Yahalom-Peri, *Sheba Medical Center - Ramat Gan (Israel)*
- LP110 Comparing the Impact of Pharmacological and Physiological Weight Loss on Muscle Mass and Function in Mice**
Maude Giroud, *Boehringer Ingelheim - Biberach (Germany)*

Theme 19

Intrinsic Capacity

- P152 Development and validation of a functional ability index for older adults: A multicohort study**
Jagadish K. Chhetri, *Xuanwu Hospital - Beijing (China)*
- P153 Vitality in the World Health Organization (WHO) Intrinsic Capacity Framework: A Scoping Review of Definitions and Measurements**
Justin Chew, *Tan Tock Seng Hospital, Singapore (Singapore)*

- P154** Are community-dwelling older adults with impaired functional reserves different from those who have no impairments: a transversal study of intrinsic capacities.
Nathan Bernard, *Université De Bourgogne Franche-Comté, Cic1431 Inserm, CHU De Besançon - Besançon (France)*
- LP111** Socioeconomic factors associated with intrinsic capacity in Community-Dwelling Older Adults: ACross-Sectional Study of the Mexican Health and Aging Study (MHAS 2021)
Juan Alejandro Torres Domínguez, *Instituto Nacional De Ciencias Médicas Y Nutrición Salvador Zubirán - Mexico City (Mexico)*
- LP112** The association of intrinsic capacity focused on the joy of living with frailty among community dwelling older people
Mai Kabayama, *Osaka University - Suita (Japan)*
- LP113** Association between skin biomechanical properties and intrinsic capacity in adults across the adult lifespan
Wan-Hsuan Lu, *IHU HealthAge - Toulouse (France)*
- LP114** Are intrinsic capacity and accelerated biological aging associated with physical resilience in older adults?
Emmanuel Gonzalez Bautista, *IHU HealthAge - Toulouse (France)*
- LP115** Accelerated GrimAge epigenetic aging is associated with lower intrinsic capacity in the INSPIRE-T human translational cohort
Laure Rouché, *IHU HealthAge - Toulouse (France)*
- LP116** Early Experience of an Integrated Frailty and Intrinsic Capacity (INFIINITY–ICOPE) Care Model in Singapore
Laura Tay, *Singhealth - Singapore (Singapore)*

Theme 21

Other

- P155** The accuracy of isar and tsar screening tools for predicting adverse outcomes for older patients in emergency departments
Hua-De Lin, *National Cheng Kung University Hospital - Tainan (Taiwan, Republic of China)*
- P156** Physical frailty as a risk for reporting urinary incontinence
Ione Jayce Ceola Schneider, *UFSC - Araranguá (Brazil)*
- P157** Enhancing predictive accuracy by integrating the clinical frailty scale (cfs) and identification of seniors at risk (isar) into the traditional triage system
Yen-Yen Tsai, *National Cheng Kung University Hospital - Tainan (Taiwan, Republic of China)*
- P158** Occupational falls and frailty among older workers: A prospective cohort study
Matsugaki Ryutaro, *University of Occupational And Environmental Health, Kitakyushu (Japan)*
- P159** Loneliness and depression: The mediating effect of perceived social strain in older adults with diabetes-A cross-sectional study
Emma Cho, *University of Pennsylvania School of Nursing - Philadelphia (United States)*

- P160** **Surrogate measures of hand grip strength among older adults: a narrative review**
Meghna Prabhu, *Manipal College of Health Professions, Manipal Academy Of Higher Education Manipal, India - Udupi (India)*
- P161** **Natural Undenatured Type II Collagen from Atlantic Salmon to Improve Osteoarthritis Joint Health**
Crawford Currie, *Medical Advisor - Alesund (Norway)*
- P162** **Comparison of factors related to the risk of falling in elderly diabetic and non-diabetic patients**
Kiyoshi Inoue, *Tokyo Saiseikai Mukojima Hospital - Tokyo (Japan)*
- P163** **Association Between Geriatric Syndromes and Traditional Chinese Medicine Constitutions in Older Adults: A Prospective Observational Study**
Liang Chih-Kuang, *Kaohsiung Veterans General Hospital - Kaohsiung City (Taiwan, Republic of China)*
- P164** **Relative handgrip strength and metabolic syndrome in Korean postmenopausal women: the Korea National Health and Nutrition Examination Survey (2014-2019)**
Seokkyo Seo, *Department Of Obstetrics And Gynecology At Yonsei University College Of Medicine - Seoul (Korea, Republic of)*
- LP117** **Association of ZJU Index and Systemic Immune-Inflammation Biomarkers with Sarcopenia in Older Adults: A Cross-Sectional Study**
Chenglong Zhou, *West China Hospital, Sichuan University - Chengdu (China)*
- LP118** **Association of oral health and sarcopenia among community-dwelling middle-aged and older adults in China: a cross-sectional survey**
Xiaoxia Wei, *Chinese Academy of Medicine Science & Peking Union Medical College - Beijing (China)*
- LP119** **Agreement between different diagnostic tests and the prevalence of sarcopenia among older people with HIV in the United States using the EWGSOP2**
Vitor Oliveira, *University Of Washington – Seattle, WA (United States)*
- LP120** **Association of Sarcopenia with Insulin Resistance Index, Glycosylated Serum Albumin, and Serum Uric Acid in Community-Dwelling Elderly Type 2 Diabetes Patients**
Zhili Tian, *West China Hospital, Sichuan University, National Clinical Research Center For Geriatrics, - Chengdu (China),*

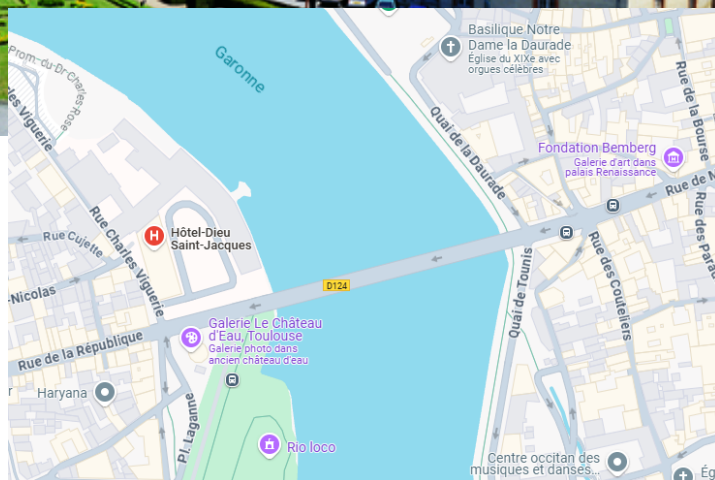


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