

15th Edition



FRAILTY SCIENCE
Promoting Resilience and
Healthy Aging

Frailty Science is teaming up with the
International Conference on Frailty & Sarcopenia Research
to highlight

#FrailtyFighters at #ICFSR25

March 12-14, 2025 in Toulouse, France

Follow this thread for frailty-specific presentations!

15th Edition



FRAILTY SCIENCE
Promoting Resilience and
Healthy Aging

Wed., March 12 at 3:10 p.m.:

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.

ICFSR 2025 Lifetime Achievement Award Recipient:

Jeremy D. Walston, MD

Johns Hopkins University (USA)



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15th Edition

 **ICFSR 2025**
International Conference on
Frailty and Sarcopenia Research



FRAILTY SCIENCE
Promoting Resilience and
Healthy Aging

Wed., March 12 at 4:30 p.m.:

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

ORAL COMMUNICATIONS • *Salle des Colonnes*

4:30 p.m.

OC 3

Multimomics Reveals Mechanisms of Rejuvenation in Aged Mice by Losartan
Michael Bene, *Johns Hopkins University, Baltimore, MD (United States)*



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Wed., March 12 at 5:10 p.m.:

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)



Dr. Fielding



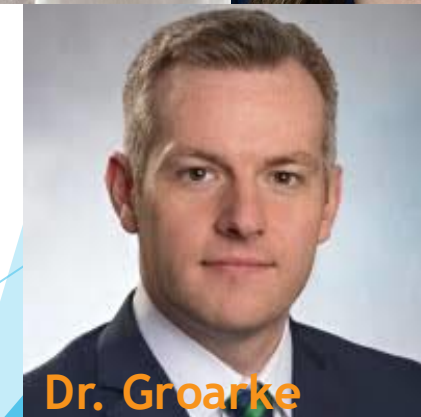
Dr. Vellas



Dr. De Souto Barreto



Dr. Breen



Dr. Groarke

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FRAILTY SCIENCE
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Thur., March 13 at 11:40 a.m.:

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)*



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Thur., March 13 at 2:00 p.m.:

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

KEYNOTE 3 • *Salle des Colonnnes*

Translational geroscience interventions for frailty

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



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Thur., March 13 at 2:20 p.m.:

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)*

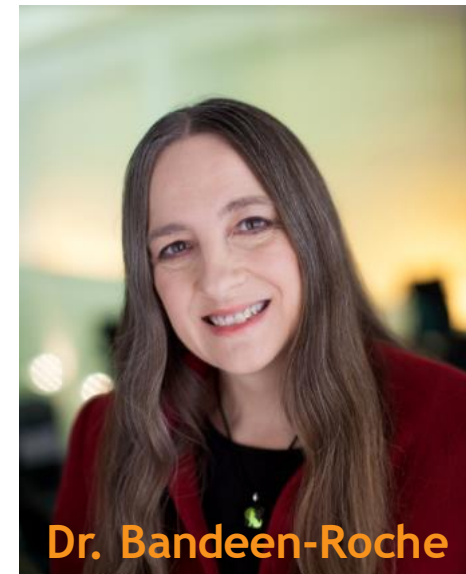
- **Presentation 1: Stimulus-response measures of multi-system dynamic adaptation to stressors enhance discrimination of resilient responses by frailty and self-report of health**
Karen Bandeen-Roche, Johns Hopkins University, Baltimore, MD, (United States)
- **Presentation 2: The Role of Psychosocial 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)



Dr. Xue



Dr. deCardi Hladek



Dr. Bandeen-Roche

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Thur., March 13 at 3:10 p.m.:

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

ORAL COMMUNICATIONS
Room 1: Salle des Colonnes

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)*



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Thur., March 13 at 5:20 p.m.:

4:30 p.m.
5:30 p.m.

LATE-BREAKING COMMUNICATIONS
Room 1: Salle des Colonnes

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)



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Fri., March 14 at 8:45 a.m.:

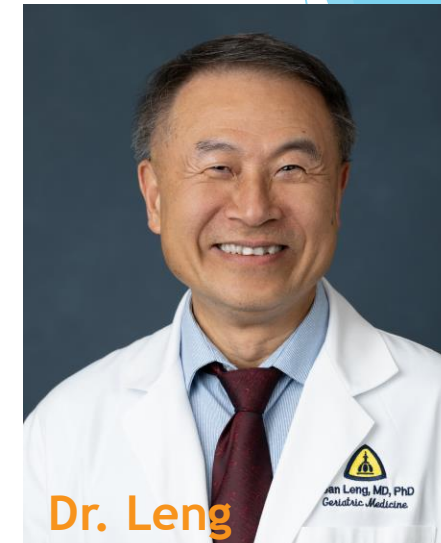
8:45 a.m.
9:25 a.m.

Symposium 5 • Salles des Colonnes

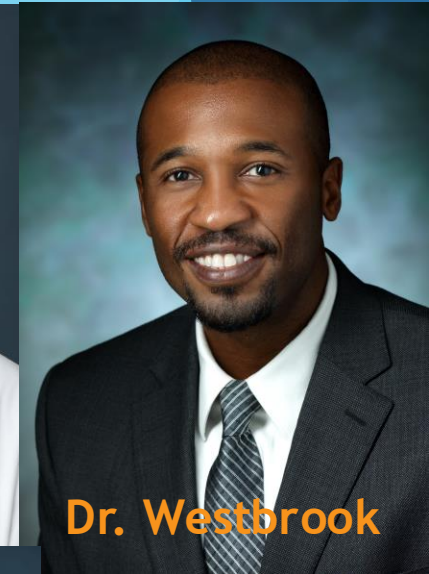
Molecular and metabolomic characteristics of frailty and sarcopenia and frailty impact on aging immunity

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

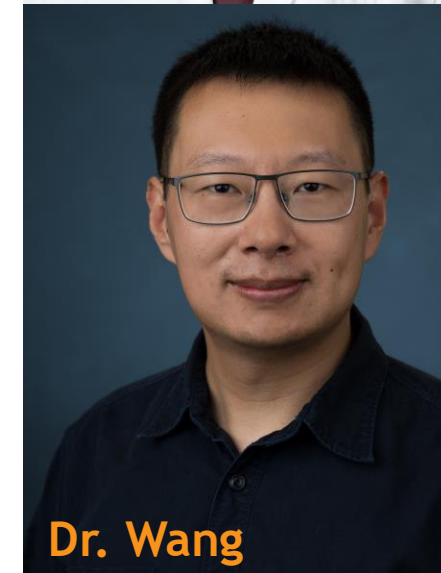
- **Presentation 1: Stable-Isotope Resolved Metabolomics Reveals Altered Energy Metabolite Fluxes in Frail Older Adults**
Reyhan Westbrook, Johns Hopkins University School of Medicine, Baltimore, MD, (United States)
- **Presentation 2: Chronic CaMKII Activation Drives Sarcopenia Through Inflammation 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)



Dr. Leng



Dr. Westbrook



Dr. Wang



Dr. Laskow

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Fri., March 14 at 9:45 a.m.:

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)*



Dr. Arai



Dr. Chen



Dr. Maeda



Dr. Sugimoto

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Fri., March 14 at 9:25 a.m.:

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

KEYNOTE 4 • *Salle des Colonnnes*

How Frailty Concepts Have Changed Clinical Practice

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



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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)*



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Fri., March 14 at 11:10 a.m.:

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

KEYNOTE 5 • *Salle des Colonnes*

Composite Intrinsic Capacity

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



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FRAILTY SCIENCE
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Fri., March 14 at 2:50 p.m.:

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

ORAL COMMUNICATIONS
Room 2: Salle de la Chapelle

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)



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