Presentations and Posters by Johns Hopkins Researchers and Collaborators, and Frailty Working Group Members

16th Annual ICFSR Meeting, March 10-12, 2026
Hopkins Bloomberg Center, Washington, DC
https://frailty-sarcopenia.com/

Tuesday, March 10th:

Presentations:

Time	Event (Location)	Title	Presenter(s)
8:30 am	WELCOME (Auditorium)	Welcome to the ICFSR and Introduction to the Jeremy Walston Lifetime Achievement Award to Dr. John Beard	Peter ABADIR, Johns Hopkins University, Luigi FERRUCCI, National Institute on Aging, Roger FIELDING, Tufts University, Bruno VELLAS, IHU HealthAge
11:20 am	SYMPOSIUM 1 (Auditorium)	Physical Resilience: Promise and Challenges for Improving Subspecialty Care of Older Adults facing Stressful Clinical Procedures	Chair: Karen Bandeen-Roche, Johns Hopkins Bloomberg School Of Public Health
		Presentation 1: Physical Resilience in Advanced Chronic Kidney Disease: Insights to Benefit Patients and Improve Next-Generation Studies	Karen Bandeen-Roche, Johns Hopkins Bloomberg School Of Public Health
		Presentation 2: Physical Resilience after Allogeneic Bone Marrow Transplantation in Older Adults: The REBOUND Study	Ravi Varadhan, Johns Hopkins School Of Medicine
		Presentation 3: Resilience after elective surgery: Findings and lessons from the PRIME-KNEE study	Cathleen Colón-Emeric, Duke School Of Medicine
12:10 pm	OC 8 (Auditorium)	Evaluation of Biological Age Metrics for Surgical Risk Stratification in a Multi-Cohort Analysis	Ritvik Jillala - Johns Hopkins School Of Medicine
3:50 pm	OC11 (Auditorium)	Average daily steps measured by wearable activity trackers are significantly associated with future frailty status in homebound older adults	Jaerong Ahn[1], Min Ji Kwak[2], Sunyang Fu[1], Jessica Lee[2] ([1]The University of Texas Health Science Center at Houston McWilliams School of Biomedical Informatics, 2University Of Texas – Houston)
4:40 pm	LB 7 (Room 822)	Frailty modifies the association between heart rate and accelerometer-defined physical activity and all-cause dementia	Amal Wanigatunga - Johns Hopkins University
4:50 pm	OC 17 (Auditorium)	Value of assessing frailty in TB patients of all ages	Blanca Restrepo1, 2, Benjamin Black1, Qianli Xue3, Yoscelina Martinez1 (1University Of Texas Health Houston School Of Public Health, 2South Texas Diabetes and Obesity Institute, University of Texas Rio Grande Valley, 3Johns Hopkins School Of Medicine)
5:10 pm	OC 19 (Auditorium)	Frailty phenotype reveals heterogeneity in aging and distinct taurine associations	April Kim1, Rebecca Keener2, Ashton Omdahl2, Michael Bene3, Reyhan Westbrook3, Anne Le4, Cissy Zhang4, Pratik Khare4, Mohammed Khadeer5, Luigi Ferrucci5, Ruin Moaddel5, Alexis Battle2, 6, Peter Abadir3 (1 Computer Science, JHU, 2 Biomedical Engineering, JHU, 3 Geriatrics And Gerontology, JHU SOM, 4Gigantest Inc., 5National Institute On Aging, NIH, 6Malone Center For Engineering In Healthcare, JHU)

Time	Event (Location)	Title	Presenter(s)
5:20 pm	OC 20 (Auditorium)	Exploring the Association of Skeletal Muscle Mitochondrial Energetics and Cardiorespiratory Fitness with Olfactory Function	Crystal Wang, Johns Hopkins University

Rising Stars (Room 820)

- 3:25pm. Emerging Artificial Intelligence Healthcare Technologies for Older Adult Health and Wellbeing – Poster: P030. Rising Star: Avantika Shah. Affiliation: NORC at the University of Chicago; DrPH candidate, Johns Hopkins Bloomberg School of Public Health

Posters (Room 820)

- Remote - P030. Emerging Artificial Intelligence Healthcare Technologies for Older Adult Health and Wellbeing. Avantika SHAH 1, Ann WIKER 2, Mathias UNBERATH 3, Alicia ARBAJE 2 (1 Johns Hopkins Bloomberg School Of Public Health, 2 Johns Hopkins University School Of Medicine, 3 Johns Hopkins Whiting School Of Engineering)
- PO 32. Cell-type-specific mitochondrial function and T-cell dynamics in frailty development among individuals with and without HIV. Jing SUN 1, Huayu WU 1, Yutong JIANG 1, Dan ARKING 2, Shruti MEHTA 1, Todd BROWN 2, Gregory KIRK 1, Elizabeth THOMPSON 1, Joeseph MARGOLICK. (1 Johns Hopkins Bloomberg School Of Public Health, 2 Johns Hopkins School Of Medicine)
- PO51 Change in intrinsic capacity among participants of the Baltimore Longitudinal Study of Aging. Ann Zenobia MOORE, Toshiko TANAKA, Eleanor M. SIMONSICK, Luigi FERRUCCI. (Translational Gerontology Branch, National Institute On Aging)
- PO62 Leveraging Scalable Sensorimotor Assessments to Measure Intrinsic Capacity and Predict Frailty Progression. Rini VARGHESE 1, Peter ABADIR 2, Ryan ROEMMICH 1. (1 Johns Hopkins University And Kennedy Krieger Institute, 2 Johns Hopkins University)

Wednesday, March 11th

Presentations:

Time	Event (Location)	Title	Presenters
8:30 am	SYMPOSIUM 3 (Auditorium)	Using Accelerometry as a Digital Surrogate for Clinical Physical Function and Frailty Measures in Aging Research: Are we ready for prime time?	Chair: Megan Huisingh-Scheetz, University Of Chicago
		Presentation 1: Wrist Accelerometry Surrogates in Lower Extremity Physical Function in an Exercise Trial in Frail, Multimorbid Older Adults	Benjamin Kramer, University Of Chicago
		Presentation 2: Minute-scale spectral accelerometry features reflect symptom burden in older men receiving androgen deprivation therapy	Nabiel Mir, University Of Chicago
		Presentation 3: Smart watch step counts to remotely detect change in frailty in an older adult thoracic surgery optimization trial	Madariaga M. Lucia, University Of Chicago
10:00 am	OC 24 (Auditorium)	Angiotensin Type 2 Receptor (AT2R) Activation as a Novel Therapeutic Target Linking Frailty, Sarcopenia, and Pulmonary Aging	Michael Abadir1, Caglar Cosardereliogl u2 (1University Of Maryland, College Park, 2Johns Hopkins School Of Medicine)
4:00 pm	OC 31 (Auditorium)	Assessing reversibility of frailty in an inducible humanized interleukin-6 mouse model	Habikah Baldeh - Johns Hopkins University School Of Medicine, Division Of Geriatric Medicine And Gerontology)
4:30 pm	OC 34 (Auditorium)	Progressive Disease Modeling of Frailty Syndrome: From Individual Heterogeneity to Cohesive Process	Michael Bene - Johns Hopkins University

Rising Stars (Room 820)

- 10:20am. Cell-type-specific mitochondrial function and T-cell dynamics in frailty development among individuals with and without HIV – Poster: P032. Rising Star: Jing Sun. Affiliations: Johns Hopkins Bloomberg School of Public Health; Johns Hopkins School of Medicine.
- 3:25-3:50pm. Associations between physical outcomes and circulating cell free DNA in older adults with chronic
- kidney disease – Poster: P096. Rising Star: Lolita Nidadavolu. Affiliation: Johns Hopkins University
- 3:25-3:50pm. New Perspectives on Prefrailty – Poster: P151. Rising Star: Charlotte Clapham. Affiliation: Johns Hopkins University

Posters (Room 820)

- P073. Metabolic characterization of skeletal muscle tissue in frail older adults. Will FOUNTAIN. Indiana University, Indianapolis, United States
- P093. Comparison of preoperative fried frailty phenotype and edmonton frailty score for prediction of post-operative loss of independence in older patients. Sarah JABOUR 1 , Mallak ALZAHRANI 2, Joanne SHAY 3, Asha CHARI 3, Tony PEREIRA 2, Dianne RUSSELL 1, Judy HUANG 4, Qian-Li XUE 2, Susan GEARHART 1, Frederick SIEBER 3 (1 Johns Hopkins University School Of Medicine, Department Of Surgery, 2 Johns Hopkins University School Of Medicine, Division Of Geriatric Medicine, 3 Johns Hopkins University School Of Medicine, Department Of Anesthesiology And Critical Care Medicine, 4 Johns Hopkins University School Of Medicine, Department Of Neurosurgery)
- P094. Video-Based Measurements of Gait Features to Assess Frailty Status in Older Adults. Kaleb BURCH 1, Jaya Hamkins 2, Laura McDaniel 2, Rama CHELLAPPA 2, Peter ABADIR 1, Ryan ROEMMICH 1 (1 Johns Hopkins University School Of Medicine, 2 Johns Hopkins University Whiting School Of Engineering)

- PO96. Associations between physical outcomes and circulating cell free DNA in older adults with chronic kidney disease. Lolita NIDADAVOLU 1 , Habikah BALDEH 1, Yangyang DENG 1, Qian-Li XUE 1, Mara MCADAMS DEMARCO 2, Deidra CREWS 1, Karen BANDEEN-ROCHE 1, Peter ABADIR 1 (1 Johns Hopkins University, 2 New York University)
- PO97 One-year changes in frailty, disability, physical and cognitive function in predominantly minority older adults. Alessandra MERINO 1 , Maria MADARIAGA 2, Megan HUISINGH-SCHEETZ 2. (1 University Of Chicago Pritzker School Of Medicine, 2 University Of Chicago)
- P100. Frailty and Geriatric Conditions among World Trade Center General Responders. Hannah THOMPSON 1 , Yihan WANG 2, Chinmayi VENKATRAM 3, Ghalib BELLO 1, Elena COLICINO 1, Michael CRANE 1, Susan TEITELBAUM 1, Katherine ORNSTEIN 4, William HUNG 2, Fred KO 2 (1 Department Of Environmental Medicine, Icahn School Of Medicine At Mount Sinai, 2 Brookdale Department Of Geriatrics And Palliative Medicine, Icahn School Of Medicine At Mount Sinai, 3 Department Of Medical Education, Icahn School Of Medicine At Mount Sinai, 4 Johns Hopkins School Of Nursing)
- P105. A Gaussian process approach to identify frailty subtypes. Radhika JANGI 1 , Nathan CHEN 2, Peter ABADIR 3, Alexis BATTLE 2, 4, Rebecca KEENER 4. (1 Department Of Biology, Johns Hopkins University, 2 Malone Center For Engineering In Healthcare, Johns Hopkins University, 3 Division Of Geriatrics And Gerontology, Johns Hopkins University School Of Medicine, 4 Department Of Biomedical Engineering, Johns Hopkins University)
- P107. Age-Dependent Associations Between Thyroid Function and Longitudinal Changes in Frailty: Findings from the Baltimore Longitudinal Study of Aging. Elena GHOTBI 1 , John MCGREADY 1, Zenobia MOORE 2, Enoch ABBEY 1, Eleanor SIMONSICK 2, Jennifer MAMMEN 1 (1 Johns Hopkins, 2 NIH)
- Remote - P111. Frailty at tuberculosis diagnosis: comparing two screening tools to assess physiologic reserve. Benjamin BLACK, Yoscelina MARTÍNEZ-LÓPEZ, Blanca RESTREPO. School Of Public Health At Brownsville And Houston, UTHealth Houston
- P113. Cognitive Frailty Dual-Domain Severity Framework and Triage Screening Pathway. Monica NADER 1 , Caglar COSARDERELIOGLU 2, Heather WHITSON 2, Qian-Li XUE 2, Francine GRODSTEIN 2, Esther OH 2, Luigi FERRUCCI 2, David BENNETT 2, Claudene GEORGE 2, Peter ABADIR 2 (1 University Of Maryland College Park, Johns Hopkins Medical School, 2 Johns Hopkins Medical School)
- P121. Circulating glucagon-like peptide (GLP)-1 in older adults undergoing bone marrow transplant in the Study of Physical Resilience and Aging. Luke ABADIR, Jackie LANGDON, Emily ELASSAL, Anoushka BELGI, Mason NICKOLES, Brian BUTA, Karen BANDEEN-ROCHE, Ravi VARADHAN, Qian-Li XUE, Phil IMUS, Peter ABADIR, Jeremy WALSTON, Will FOUNTAIN (Johns Hopkins University)
- P122. Circulating glucagon-like peptide (GLP)-1 in frail and non-frail older adults undergoing total knee replacement in the Study of Physical Resilience and Aging. Anoushka BELGI, Jackie LANGDON, Luke ABADIR, Mason NICKOLES, Emily ELASSAL, Brian BUTA, Karen BANDEEN-ROCHE, Ravi VARADHAN, Qian-Li XUE, Frederick SIEBER, Peter ABADIR, Jeremy WALSTON, Will FOUNTAIN (Johns Hopkins University)
- P138. Investigating the Role of Increased 3-Hydroxykynurenine Relating to Impaired Physiology, Frailty, and Deleterious Phenotypes. Ibrahim KHAN, Peter ABADIR, Reyhan WESTBROOK (School of Medicine, Division of Geriatric Medicine and Gerontology, Biology of Healthy Aging Program, Johns Hopkins University)
- P141. Multimodal digital biomarkers of frailty: an exploration of eye movement, speech and handwriting. Laureano MORO-VELAZQUEZ 1 , Yuzhe WANG 1, Thomas THEBAUD 1, Ankur BUTALA 2, Qian-Li XUE 2, Peter ABADIR 2, Najim DEHAK 1. (1 Johns Hopkins University, 2 Johns Hopkins School Of Medicine)
- P142. Stakeholders' perceived benefits and concerns regarding artificial intelligence in the care of older adults: a qualitative analysis. Kacey CHAE 1 , Jacqueline MASSARE 1, Sato ASHIDA 2, Thomas CUDJOE 1, Peter ABADIR 1, Alicia ARBAJE 1, Mathias UNBERATH 3, Phillip PHAN 4,Nancy SCHOENBORN 1 (1 Johns Hopkins University School Of Medicine, 2 University Of Iowa, 3 Johns Hopkins University, 4 Johns Hopkins Carey Business School)
- P151. New Perspectives on Prefrailty. Charlotte CLAPHAM, Karen BANDEEN-ROCHE (Johns Hopkins University)

Thursday, March 12th:

Presentations:

Time	Event (Location)	Title	Presenters
11:40 am	OC 38 (Auditorium)	Intrinsic Capacity Domains and the Prevalence of Disability in the National Health & Aging Trends Study: The Central Role of Mobility	Renato Bandeira De Mello1, Lucca Panziera1, Karen Bandeen-Roche2 (1Federal University Of Rio Grande Do Sul, 2Johns Hopkins University)
1:50 pm	OC 43 (Auditorium)	Associations between trajectories of frailty and social isolation among older Americans	Mary Louise Pomeroy - Center For Equity In Aging, Johns Hopkins School Of Nursing
2:40 pm	OC 48 (Auditorium)	Circulating cell-free mitochondrial DNA fragment levels associated with frailty and gait speed in older men with and without HIV	Rohan Rajagopal1, Lolita Nidadavolu2, Yutong Jiang2, Charles Roberts3, Jeremy Martinson4, Steven Wolinsky5, Beth Jamieson6, Todd Brown2, Peter Abadir2, Jing Sun2 (1Hektoen Institute Of Medicine, 2JHU, 3Oregon Health And Science University, 4University Of Pittsburgh, 5Northwestern University, 6University Of California-Los Angeles
4:30 pm	OC 56 (Auditorium)	Altered Energy Pathway Fluxes Revealed Through Dynamic Response to Labeled Glucose Challenge in Frail Older Adults	Reyhan Westbrook - School Of Medicine, Division Of Geriatric Medicine And Gerontology, Biology Of Healthy Aging Program, JHU

Rising Stars (Room 820)

- 10:05-10:40am. Group-Based Multimodal Exercise Intervention Improves Body Composition, Gait Dynamics, and Sarcopenia Presentation in Older Veterans at Risk for Falls – Poster: P190. Rising Star: Julie Rekant. Affiliations: University of Maryland, Baltimore; VA Geriatric Research, Education, and Clinical Center.
- 10:05-10:40am. Human Frailty-on-a-Chip: A Microphysiological Model of Age-Related Skeletal Muscle Dysfunction – Poster: P222. Rising Star: Anicca Harriot. Affiliation: Johns Hopkins University.

Posters (Room 820)

- P190. Group-Based Multimodal Exercise Intervention Improves Body Composition, Gait Dynamics, and Sarcopenia
- Presentation in Older Veterans at Risk for Falls. Julie REKANT 1, 2 , Steven PRIOR 1, 3, Bailey RAMMLING 2, Jamie GIFFUNI 2, Jeffrey BEANS 2, Odessa ADDISON 1, 2 (1 University Of Maryland, Baltimore, 2 Department Of Veterans Affairs Geriatric Research, Education, And Clinical Center, 3 University Of Maryland, College Park)
- P193. Chronic CaMKII Activation Disrupts Mitochondrial Organization in Skeletal Muscle. Emily ELASSAL 1 , Qinchuan WANG 2, Peter ABADIR 2 (1 University Of Maryland, Johns Hopkins University School Of Medicine, 2 Johns Hopkins University School Of Medicine)
- P222. Human Frailty-on-a-Chip: A Microphysiological Model of Age-Related Skeletal Muscle Dysfunction. Anicca HARRIOT, Zhanping REN, Deok-Ho KIM (Johns Hopkins University)
- P236. Chronic CaMKII activation remodels metabolism and mitochondria in young and aging muscle. Michael BENE 1 , Tae CHUNG 1, William FOUNTAIN 1, Giovanni ROSALES-SOTO 2, Erick HERNÁNDEZ-OCHOA 2, Corina ANTONESCU 1, Liliana FLOREA1,Seeun JEONG 1, Anne LE 3, Qian-Li XUE 1, Ahmet HOKE 1, Peter ABADIR 1, Qinchuan WANG 1 (1 Johns Hopkins School Of Medicine, 2 University Of Maryland, 3 Gigantest, Inc.)