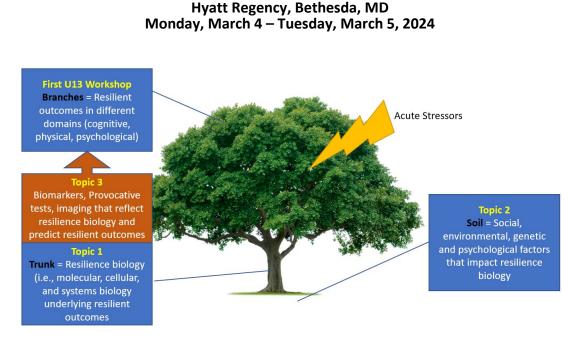
AGS/NIA R13 Bench-to-Bedside Conference Series Stress Tests and Biomarkers of Resilience

Supported by the National Institute on Aging and the American Geriatrics Society



DAY 1: MONDAY, MARCH 4

Location: REGENCY ROOM I & II

Time	Session	Presenters
7:30 AM	Breakfast	
8:00 – 8:05 AM	Opening Session & Welcome	Jeremy Walston, MD and Cathleen
		Colón-Emeric, MD, MHS
8:05 – 8:15 AM	Conference 1 Summary: Definitions of resilience	Peter Abadir, MD
	across domains	
8:15 – 8:30 AM	Concept Models of Resilience and General	Jeremy Walston, MD and Cathleen
	Approaches to Quantifying Resilience	Colón-Emeric, MD, MHS
8:30 - 9:15 AM	Plenary: Central Nervous System Physiology and	James Herman, PhD
	the Development of Stress-Related Disorders	
9:15 – 11:00 AM	Topic 1: Brief State of the Science Talks: what is	Moderator: Alessandro
	known about resilience biology	Bartolomucci, PhD
9:15 – 9:30 AM	HPA Axis and Physiological Stress Response	• Douglas Bowden, MD
9:30 – 9:45 AM	Autonomic Nervous System and Resiliency	David Goldstein, MD, PhD
9:45 – 10:00 AM	Immune System Reponses to Stressors	Elizabeth Repasky, PhD

Additional support provided by: The Nathaniel Wharton Fund, the Research Centers Collaborative Network, the Animal Models for the Social Dimensions of Health and Aging Research Network, and the Alzheimer's Disease Research Center and Pepper Center at Duke University

10:00 – 10:15 AM	Energetic and Mitochondrial Drivers of	Martin Picard, PhD
	Stress responses	
10:15 – 10:30 AM	 Proteomics and gene activation – 	• Ravikiran Raju, MD, PhD
	translational changes in the setting of	
	stress	
10:30 – 11:00 AM	Moderated discussion on gaps and future	All
11.00 11.1F ANA	directions	
11:00 – 11:15 AM 11:15 – 12:45 PM	Morning Break Topic 2: State of the Science Talks: what is known	Moderator: Shakira Suglia, ScD
11.15 - 12.45 PW	about key mediators and moderators of resilience	Moderator. Shukiru Sugilu, SCD
	and what does it tell us about resilience biology?	
11:15 – 11:30 AM	Psychological impacts on Resiliency in	• Jacqui Smith, PhD
	Older Adults	
11:30 – 11:45 PM	• Social impacts on Resiliency in Older Adults	Tyson Brown, PhD
11:45 – 12:00 PM	 Insights from animal models of social 	Steve Cole, PhD
	determinants of health	
12:00 – 12:15 PM	Genetic and Environmental Predictors of	 Dan Belsky, PhD
	Resilience	
12:15 – 12:45 PM	Moderated discussion on gaps and future	All
12.45 1.45 DNA	directions	
12:45 – 1:45 PM 1:45 – 3:15 PM	Lunch and Networking Topic 3: What biomarkers and stress tests predict	Moderator: Adam Salmon, PhD
1.45 - 5.15 FIVI	resilience and what clues do they give us about	Moderator. Addin Sumon, Fild
	resilience biology?	
1:45 – 2:00 PM	Aging-Related Molecular Changes, Related	• Virginia Kraus, MD, PhD
	Biomarkers, and their Utility in Resilience	
	Detection	
2:00 – 2:15 PM	Measuring resilience through time series	Alan Cohen, PhD
	data	
2:15 – 2:30 PM	Network Physiology and Complex Systems	Plamen Ivanov, PhD
	Dynamics	
2:30 – 2:45 PM	Using Functional Measures and AI to	• Jennifer Schrack, PhD
	Predict Resilient Outcomes	
2:45 – 3:00 PM	Integrative omics Predicting Resilience	Rasika Mathias, ScD
3:00 – 3:30 PM	Moderated discussion on gaps and future	All
2.20 2.45 514	directions	
3:30 – 3:45 PM 3:45 – 5:15 PM	Afternoon Break	All
5.45 - 5.15 PIVI	Small Group Sessions	
	• Developing recommendations for a	
	clinically-relevant assessment battery for	
	use in human resilience research	

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DAY 2: TUESDAY, MARCH 5

Location: REGENCY ROOM I & II

Time	Session	Presenters
8:00 – 9:00 AM	Breakfast and one-on-one Mentee/Mentor Meetings	
9:00 – 11:15 AM	Moving the Field Forward: Priorities, Agenda-setting, Wrap-up	Jeremy Walston, MD and Cathleen Colón-Emeric, MD, MHS
8:30 – 10:30 AM	Small groups provide 10-minute reports from each break-out group	All
10:30 – 11:15 AM	Moderated Discussion – Agenda-setting and Prioritizing	All

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11:15 – 12:00 PM	Wrap-up, Final remarks, Evaluations	Cathleen Colón-Emeric, MD,
		MHS and Jeremy Walston, MD

Rising Stars: Afternoon Session for Junior Investigator Travel Awardees (12:00 PM to 3:30 PM)

Time	Session	Presenters
12:00 – 1:00 PM	Lunch/Networking – Getting to Know NIA Staff	
1:00 – 2:00 PM	 Roundtable Resilience Consultancy Discussions Each person has 5 minutes to discuss background, stage of career, and a specific challenge they are facing. Group then provides practical feedback using a structured "wise crowds" format. Attendees can choose among tables with different themes: Defining Resilience in your field; Measurement/analytic issues in resilience; Resilience promoting intervention development; general career or mentorship challenges 	All
2:00 – 3:00 PM	"Write a Compelling Resilience Grant" – Panel Discussion	Moderator: Cathleen Colón- Emeric, MD, MHS Peter Abadir, MD, Basil Eldadah, MD, Jeremy Walston, MD, and Heather Whitson, MD, MHS
3:00 – 3:30 PM	Evaluations, Action Item postcards, Adjourn	All