

San Diego **Nathan Shock Center** 2022 Workshop

Tackling the Heterogeneity of Aging

Friday March 25 2022, 9:00 am PST, Hybrid Event

17111

hop/

HOSTS: Alessandra Sacco, SBP; Gerald Shadel, Salk

9:00 - 9:10 AM	Welcome/Introduction	
9:10 - 10:10 AM	Keynote Meng Wang (Baylor College of Medicine) - Building multidisciplinary research in understanding aging biology	
10:10 - 10:15 AM	Break	
10:15 - 11:30 AM	 2021 SD-NSC Pilot Grant Projects Vanessa Delcroix (The Scripps Research Institute) - A single-cell atlas of the aging lacrimal gland to understand the mechanisms underlying age-associated dry eye disease Lara Labarta Bajo (Salk) - Astrocyte Plasticity in the Aging Brain Adam Konopka (University of Wisconsin-Madison) - The Metabolic-Epigenomic Network of Metformin and Exercise Maria Clara Guida (SBP) - Investigating the epigenetic drift of aging hearts using Drosophila Maria Mihaylova (The Ohio State University) - Characterizing Age-Dependent Changes in the Mammalian Colon Ana Chucair-Elliot (Oklahoma Medical Research Foundation) - A novel inducible cell-specific mouse model for chromatin accessibility and transcriptomic studies of retina Müller glia in age-related macular degeneration 	
11:30 - 12:00 PM	Human Cell Models Core Anthony Molina (UCSD) - Clinical Cohort Jeffrey Jones (Salk) - Human Cell Models of Aging	
12:00 - 12:40 PM	Lunch Break	
12:40 - 1:30 PM	Heterogeneity Core Peter Adams (SBP) - Spatial -omics at Salk and SBP Uri Manor (Salk) - Age-related changes to cochlear hair cell organelle morphology Jolene Diedrich (Salk) - Mass Spectrometry Nasun Hah (Salk) - Studying aging at single-cell resolution	
1:30 - 2:00 PM	Integrative Models Core Tanya Sharpee, April Williams (Salk) - Introduction Alexey Terskikh (SBP) - Heterogeneity of epigenetic landscape at single cell level.	
2:00 - 2:30 PM	SD-NSC Services Q&A - Virtual only – <i>Join the breakou</i> * Sequencing and Single Cell Analysis - Nasun Hah * Electron Microscopy and Imaging - Uri Manor	<i>t room</i> * Integrative Models Core - Tanya Sharpee, April Williams * Mass Spectrometry - Jolene Diedrich
	SD-NSC Mentorship meetings - in-person only,2022 av	vardees
2:30 - 2:40 PM	Break	
2:40 - 3:25 PM	Career Development Panel * Academia – Timothy Huang, Assistant Professor at Sanford Burnham Prebys Medical Discovery Institute * Industry – Daniel Oliver, CEO and Co-Founder of RejuvenateBio * Core Facilities – Yoav Altman, Flow Cytometry Core Director at Sanford Burnham Prebys Medical Discovery Institute * Scientific Writing – Monica May, Communications Officer in the Department of Neurological Surgery at UCSD and Vice President of the San Diego Science Writers Association	
3:25 - 3:30 PM	Thank you and Closing Comments	
3:30 - 4:00 PM	Core Technologies Q&A - in-person only	More information:
4:00 – 5:00 PM	Networking Happy Hour - in-person only	https://www.salk.edu/events/science-events/





UC San Diego School of Medicine

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