

Systems Immunology in Aging and Complex Diseases

Farmington, CT September 14 – 15, 2023

Schedule of Activities

Thursday, September 14th

7:30 – 8:50 am	Registration (JGM-Lobby)
8:50 – 9:00 am	Opening Remarks Duygu Ucar, Ph.D., The Jackson Laboratory
	REPRODUCTIVE AGING Session Moderator: Duygu Ucar, Ph.D., The Jackson Laboratory
9:00 – 9:40 am	Talk Title TBD Coleen Murphy, Ph.D., Princeton University
9:40 – 10:20 am	Towards agre-relevant preclinical models of menopause Berenice Benayoun, Ph.D., USC
10:20 – 11:00 am	Genetic insights into making and maintaining ovarian reserve Ewelina Bolcun Filas, Ph.D., The Jackson Laboratory
11:00 – 11:30 am	Break
11:30 – 12:30 pm	Keynote Lecture: Systems immunology of human immune set points John Tsang, Ph.D., Yale Center for Systems and Engineering Immunology (CSEI)
12:30 – 1:10 pm	Lunch
	VACCINE RESPONSES Session Moderator: Sathya Ravi, Ph.D., The Jackson Laboratory
1:10 – 1:40 pm	Sex differences in immune system aging and vaccine responses Duygu Ucar, Ph.D., The Jackson Laboratory

1:40 – 2:20 pm	Leveraging gravitation and space biology to model immune aging and disease David Furman, Ph.D., Buck Institute for Research on Aging
2:20 – 2:50 pm	Leveraging high temporal resolution profiling approaches in systems vaccinology studies Damien Chaussabel, Ph.D., The Jackson Laboratory
2:50 – 3:20 pm	Break INFLAMMATION Session Moderator: Berenice Benayoun, Ph.D., University of Southern California
3:20 – 4:00 pm	Change in DNA methylation with aging across different immune cell types: hunting for a mechanism Luigi Ferruci, M.D., Ph.D., NIH, National Institute on Aging
4:00 – 4:40 pm	Cross-population and cross-sex validation of integrative measures of emergent immune processes Alan Cohen, Ph.D., Columbia
4:40 – 4:55 pm	Attendee Short Talk #1
4:55 – 5:30 pm	Attendee Short Talk #2
5:30 – 7: 00 pm	Poster Session & Social Hour

Friday, September 15th

	TECHNOLOGICAL AND COMPUTATIONAL ADVANCES Session Moderator: Djamel Nehar-Belaid, Ph.D., The Jackson Laboratory
9:00 – 9:40 am	Unraveling the Endometriosis Microenvironment using Single Cell Discovery Elise Courtois, Ph.D., The Jackson Laboratory
9:40 – 10:20 am	Landscape of Accessible Chromatin in Hematopoiesis, Lupus, and Aging Sai Ma, Ph.D., Icahn School of Medicine at Mount Sinai
10:20 – 11:00 am	Deciphering gene regulatory networks of cell-fate specification Sushmita Roy, Ph.D., University of Wisconsin, Madison

11:00 – 11:30 am	Break
11:30 – 12:30 pm	Keynote Lecture: Talk Title TBD Yousin Suh, Ph.D., Columbia University
12:30 – 1:10 pm	Lunch
	BRAIN Session Moderator: Asa Thibodeau, Ph.D., The Jackson Laboratory
1:10 – 1:50 pm	Estrogenic control of microglial reactive states in the female mouse hippocampus Sarah Ocanas, Ph.D., University of Oklahoma Health Sciences Center
1:50 – 2:30 pm	Talk Title TBD Bess Frost, Ph.D., UT Health San Antonio
2:30 – 3:10 pm	New tools to study the aging tissue-resident immune compartment Emily Goldberg, Ph.D., University of California San Francisco
3:10 – 3:30 pm	Break (Sponsored by the JAX Cancer Center)
	CANCER AND AGING This session is sponsored by the JAX Cancer Center Session Moderator: Laura Haynes, Ph.D., UConn Health Center
3:30 – 4:10 pm	Strategies to enhance human immunity during ageing Arne Akbar, Ph.D., University College London
4:10 – 4:50 pm	A precarious balance: the role of aging in initiation of cancer Peter Adams, Ph.D., Sanford Burnham Prebys
4:50 – 5:30 pm	Metabolic reprogramming: A bridge between aging and tumorigenesis Ana P. Gomes, Ph.D., Moffitt Cancer Center
5:30 – 6:00 pm	Panel: Cancer and Aging
6:00 pm	Closing Remarks and Group Photo