

JUNE 27 – 28, 2024 | FARMINGTON, CT & VIRTUAL

# Systems Immunology in Aging and Complex Diseases

## WORKSHOP

IN-PERSON CAPACITY : 175 | VIRTUAL OPTION AVAILABLE



### ORGANIZERS

**Duygu Ucar, Ph.D.**

The Jackson Laboratory

**Djamel Nehar-Belaid, Ph.D.**

The Jackson Laboratory

**Sathya Ravi, Ph.D.**

The Jackson Laboratory

### TRAVEL AND LODGING

#### AIR + CAR

The closest airport is Bradley International Airport (BDL), which is approximately 45 minutes away from Farmington, CT. Car rental, public transportation, and taxi services are available from Bradley International Airport.

#### LODGING

All events will be held at The Jackson Laboratory for Genomic Medicine, located on the UConn Health Campus in Farmington, CT. Participants are responsible for their own lodging accommodations.

This two-day meeting brings together leading scientists from across disciplines (immunology, aging, genomics, and computational biology) with shared interests in using systems immunology to understand aging and aging-related diseases. This year will focus on **“Precision Vaccinology”**.

Aging is a complex and multi-dimensional phenotype that affects all tissues of all organisms. In humans, aging-related diseases, including cardiovascular diseases, cancer and type 2 diabetes, pose a huge health and economic burden, which will continue to increase as the aging population is expected to double by 2030. Disruption of immune cell functions and responses plays a significant role in the etiology of many aging-related diseases. Recent advances in genomic technologies (e.g., single cell transcriptomics and epigenomics) enable precise description of molecular and cellular changes associated with aging in human cells as well as in model organisms, including the mouse. However, uncovering the functional and clinical significance of these genomic and cellular changes is a significant computational challenge.

For more information visit [www.jax.org/SystemsImmunology](http://www.jax.org/SystemsImmunology)



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