

2021 MASORO-BARSHOP CONFERENCE ON AGING
“THE AGING IMMUNE SYSTEM” October 13-15 (a virtual meeting)
TIMES BELOW ARE CENTRAL DAYLIGHT TIME

WEDNESDAY, OCTOBER 13

- 9:45** **Introduction and welcome (Dr. Nick Musi)**
- 10:00-11:55** **Tolerance, autoimmunity, aging (30 minute talks, 5 for questions)**
[Moderated by Dr. Ann Griffith]
- 10:00-10:35 **Lauren Ehrlich, PhD**
Associate Professor, The University of Texas at Austin
Central Tolerance is Impaired in the Aged Thymic Microenvironment
- 10:40-11:15 **Georg Holländer, MA, MD**
Professor, University of Oxford and University of Basel
Thymus development and ageing: an account at single cell resolution
- 11:20-11:55 **Cornelia Weyand, MD, PhD**
Professor, Stanford University
Mitochondrial Aging in Rheumatoid Arthritis
- 12:00-12:55** **Priorities for funding in Immunology and Aging (20 minute talks)**
[Moderated by Dr. Ann Griffith]
- 12:00-12:25 **Rebecca Fuldner, PhD**
National Institute on Aging, NIH
- 12:30-12:55 **Mercy Prabhudas, PhD**
National Institute of Allergy and Infectious Diseases, NIH
- 1:00-1:30** **Break**
- 1:30-3:30** **Session featuring talks from abstracts (10 min talks, 5 min questions)**
[Moderated by Drs. Tiffany Kautz and Manpreet Semwal]
- 1:30-1:45 **Valentina Garbarino, PhD**
UT Health San Antonio
SToMP-AD: Senolytic Therapy to Modulate the Progression of Alzheimer's Disease, a Vanguard Pilot Study
- 1:50-2:05 **Elizabeth Ochoa**
UT Health San Antonio
Transposable Elements, dsRNA, and Inflammation in Tauopathy
- 2:10-2:25 **Kathryn McGovern, PhD**
University of Arizona
Amyloid-beta protects elderly mice from succumbing to infection with Toxoplasma gondii.

- 2:30-2:45 **Meghan A. Rueda, PhD**
 UT Health San Antonio
Age-associated decrease in thymic B cell expression of Aire and self-antigen genes impairs T cell tolerance induction
- 2:50-3:05 **Saranya Srinivasan**
 UT Health San Antonio
Age-dependent changes in the regulatory program of CD8 Regulatory T cells (CD8 Tregs)
- 3:10-3:25 **Carlo Vanz**
 UT Health San Antonio
T-bet+ B cells promote adipose tissue inflammation and metabolic disorder during obesity

THURSDAY, OCTOBER 14

- 9:45 - 1:00 Adaptive immunity and aging (30 minute talks and 5 minutes for questions)**
 [Moderated by Dr. Nu Zhang]
- 9:45-10:20 **George Kuchel, MD**
 Professor, University of Connecticut Center on Aging
Integrative Immunology of Aging: Reconciling Reductionist and Systems-Based Perspectives
- 10:25-11:00 **Donna L. Farber, PhD**
 Professor, Columbia University
Immunity and Aging: an anatomical approach
- 11:05-11:40 **Sabra L. Klein, PhD**
 Professor, Johns Hopkins Bloomberg School of Public Health
Sex and age differences in immunity to vaccines
- 11:45-12:20 **Jie Sun, PhD**
 Professor, Mayo Clinic
Aging, CD8 T cells and post viral sequelae
- 12:25-1:00 **Ilhem Messaoudi, PhD**
 Professor, University of California, Irvine
Differential dynamics of peripheral immune responses to acute SARS-CoV-2 in the elderly
- 1:00-1:30 Break**
- 1:30-3:30 Session featuring talks from abstracts (10 min talks, 5 min questions)**
 [Moderated by Dr. Carlos Rivera]
- 1:30-1:45 **Jae Hyun Shin, MD**
 University of Virginia School of Medicine
Aged mouse model of C. difficile infection: the interplay of aging immunity and microbiome in infection pathogenesis
- 1:50-2:05 **Angelica Olmo-Fontanez**
 UT Health San Antonio and Texas Biomedical Research Institute
Effect of the elderly human lung mucosa on Mycobacterium tuberculosis infection of the alveolar epithelium

- 2:10-2:25 **Matthew Yousefzadeh, PhD**
University of Minnesota
An aged immune system drives senescence and aging of solid organs
- 2:30-2:45 **Sandip Ashok Sonar, PhD**
University of Arizona College of Medicine
Impact of asynchronous age-related involution of secondary lymphoid tissues on naive T cell peripheral maintenance.
- 2:50-3:05 **Jayashree Srinivasan**
The University of Texas at Austin
An early decline in circulating lymphoid progenitors contributes to the age-associated reduction in ETP numbers
- 3:10-3:25 **Nisi Jiang**
UT Health San Antonio
Prepubertal castration of genetically heterogeneous mice eliminates the male-specific elevation of early adulthood mortality and improves health parameters during aging.

FRIDAY, OCTOBER 15

- 9:45 - 1:00** **Innate immunity and aging (30 minute talks, 5 minutes for questions)**
[Moderated by Dr. Peter Dube]
- 9:45-10:20 **Dawn Bowdish, PhD**
Professor, McMaster University
The role of the aging microenvironment in macrophage dysfunction
- 10:25-11:00 **Christina Camell PhD**
Assistant Professor, University of Minnesota
Inflammaging and senescence during infection in the elderly
- 11:05-11:40 **Albert Shaw, MD, PhD**
Professor, Yale School of Medicine
Signatures of Inflammatory Dysregulation in Aging: A Role for Platelets
- 11:45-12:20 **Duygu Ucar, PhD**
Associate Professor, Jackson Laboratories for Genomic Medicine,
Genomic signatures of human immune system aging and pneumococcal vaccine responses
- 12:25-1:00 **Dan Winer, MD**
Associate Professor, Buck Institute for Research on Aging
Mechanical Tension in Immune Cell and Aging Related Inflammation
- 1:00-2:00** **Break**
- 2:00-3:30** **Discussion on strategies for funding research in aging and immunology**
Panel: Drs. Prabhudas and Fuldner will field questions and ideas from conference participants [Moderated by Dr. Ellen Kraig]
- 3:30** **Summary, thanks, and close the conference (Dr. Randy Strong)**