

## Saturday, May 4

7:30 AM – 9:30 AM

Innate Immunity and Viral Vaccines  
 Myeloid Cells in Anti-microbial Defense  
 Regulation of T Cells in Autoimmunity  
 Restoring Immunocompetence in the Tumor Microenvironment  
 Toll-like Receptor Regulation  
 Veterinary and Comparative Immunology

9:45 AM – 11:45 AM

Antigen Processing and Presentation: Molecular Insights  
 Cellular and Molecular Biology of the Innate Immune Response  
 Costimulatory Pathways in Immunity and Tolerance  
 Innate Control of Microbial Disease  
 Interplay of Virus and Immune Effectors: Part 1  
 T Cell Development and Maturation

1:00 PM – 3:00 PM

Immune Regulation in Allergic Disease and Impact of Pathogens  
 Immunotherapy and Vaccines: Infectious Diseases 1  
 Pathogen-mediated Regulation of Immunity  
 Technological Innovations in Immunology 1  
 Therapeutic Approaches to Autoimmunity: Targeting Cytokines and Immune Regulators

3:15 PM – 5:15 PM

Generation of Effector and Memory CD8 T Cells  
 Germinal Centers and Tfh Cells in Autoimmunity  
 Homeostasis and Aging of Lymphocytes  
 Immunoregulatory Mechanisms  
 Immunotherapy and Vaccines: Infectious Diseases 2  
 Lymphocyte Adhesion: To Adhere or Not to Adhere

## Sunday, May 5

7:30 AM – 9:30 AM

Cancer Immunobiology  
 Cytokine Signaling and Mechanisms  
 Dynamics of T Cell and NK Cell Activation/Contraction during Viral Infection: Part 1  
 HSCs and B Cell Development  
 Human Immunodeficiencies and Genetics  
 Immunosuppression by Myeloid and Dendritic Cells  
 Immunotherapy and Vaccines: Infectious Diseases 3  
 Therapeutic Approaches to Autoimmunity: Pharmacologic Interventions and their Mechanisms

9:45 AM – 11:45 AM

Generation, Selection, and Function of B Cells  
 Immunotherapy and Vaccines: Adoptive Transfer Approaches  
 Innate Immunity and Autoimmunity 1  
 Regulation of Immunity by the Host and Co-infections  
 Respiratory Viruses and the Immune System: Part 1  
 Therapeutic Approaches to Autoimmunity: Targeting APC and Costimulation

1:00 PM – 3:00 PM

Dendritic Cell Vaccines  
 Immunotherapy and Vaccines: Basic Science  
 Innate Defense Mechanisms  
 Lymphocytes and Lymphoid Cells in Innate Immunity  
 Microbiota and Mucosal Homeostasis

3:15 PM – 5:15 PM

Cellular Factors in Inflammation and Tissue Remodeling  
 Induction of Host Responses against Mucosal Pathogens  
 Interplay of Virus and Immune Effectors: Part 2  
 Mechanisms of Human Autoimmunity  
 T and B Cell Receptor Signaling  
 Th17 and IL-17 Family Cytokines

## Monday, May 6

7:30 AM – 9:30 AM

Cytokines in Cancer, Transplantation, and Autoimmunity  
 Generation and Death of Effector, Memory, and Regulatory CD4 T Cells 1  
 Innate Cytokines and Mediators in Promotion of Allergic Inflammation  
 New Mechanisms of Pattern Recognition and Signaling  
 Regulation of T Cell Effector Mechanisms: Relevance to Disease  
 T Cell Subsets in Autoimmunity

9:45 AM – 11:45 AM

Antigen Processing and Presentation: Understanding the Immune Response  
 Crosstalk in Innate Immune Regulation  
 Immunosuppression in the Tumor Microenvironment  
 Inflammatory Cytokines and Chemokines  
 Mast Cells in Allergic Inflammation  
 Regulation of Lymphoid Function

1:00 PM – 3:00 PM

Developments in Immunotherapy  
 Dynamics of T cell Activation/Contraction during Viral Infection: Part 2  
 Human Immunity in Cancer, Infection, and Inflammation  
 Lymphocyte Trafficking to Paths Less Traveled  
 Therapeutic Approaches to Autoimmunity: Targeting T cells and Tregs  
 Transplantation and Alloimmunity

## Tuesday, May 7

7:30 AM – 9:30 AM

Antigen Processing and Presentation: Cellular Insights  
 Mechanisms of T, NK, and NKT Lymphocyte Differentiation and Repertoire Selection  
 Pathogens and Host Defense  
 Regional and Systemic Innate Immune Responses  
 Regulatory Mechanisms in Immune Cells  
 Technological Innovations in Immunology 2

9:45 AM – 11:45 AM

Control of Immune Effector Cells in Mucosal Tissues  
 Generation and Death of Effector, Memory, and Regulatory CD4 T Cells 2  
 Genetic Susceptibility to Autoimmunity  
 HIV, AIDS, and the Immune System  
 NK, NKT, and  $\gamma\delta$  T Cell Development  
 T Cells and Microbes

12:00 PM – 2:00 PM

Innate Immunity and Autoimmunity 2  
 Models of Allergic Disease  
 Respiratory Viruses and the Immune System: Part 2  
 The Induction and Resolution of Inflammation in Epithelial Tissues  
 Treg Cell Stability and Plasticity  
 Tumor Microenvironment Modulation