



Topic Categories

ANTIGEN PROCESSING AND PRESENTATION

May include abstracts focusing on:

- MHC Structure, Function and Ligands
- MHC Assembly and Trafficking
- Mechanisms of Cross Presentation
- Intracellular Events in Antigen Processing
- Antigen Presenting Cells
- Structure/Function Studies of Antigen Processing and Presentation
- Other Related Topics

BASIC AUTOIMMUNITY

May include abstracts focusing on:

- Immunopathogenic Mechanisms/Immunogenetics of Autoimmunity
- Tolerance and Autoimmunity
- Other Related Topics

CELLULAR ADHESION, MIGRATION, AND INFLAMMATION

May include abstracts focusing on:

- Inflammation
- Chemokines and Chemoattractants
- Adhesion Molecules in Cellular Migration, Inflammation and Disease
- Leukocyte Recruitment
- Other Related Topics

CYTOKINES AND CHEMOKINES AND THEIR RECEPTORS

May include abstracts focusing on:

- Receptors and Signal Transduction
- Gene Regulation
- Regulators of Immune Cell Development and Function
- Receptors *in vivo*
- Role in Health and Disease
- Structure/Function Studies of Cytokines, Chemokines, and Their Receptors
- Other Related Topics

HEMATOPOIESIS AND IMMUNE SYSTEM DEVELOPMENT

May include abstracts focusing on:

- Stem Cells and Early Lineage Restrictions
- Myeloid and Erythroid Cell Development
- Lymphoid Organogenesis
- B Cell Development
- T Cell Development
- Developmental Defects in Aging
- Other Related Topics

IMMEDIATE HYPERSENSITIVITY, ASTHMA, AND ALLERGIC RESPONSES

May include abstracts focusing on:

- Mast Cells, Eosinophils, Basophils
- Asthma and Allergic Inflammation
- Regulation of Hypersensitivity Responses
- Other Related Topics

IMMUNE MECHANISMS OF HUMAN DISEASE

May include abstracts focusing on:

- Studies of the Healthy Human Immune System
- Translational Research on Human Immune Responses in Disease including Autoimmunity, Inflammation, Infection, Allergy, and Cancer
- Mechanistic Studies of the Impact of Immunotherapy and Immunomodulation on the Human Immune Response (including Studies Based on Clinical Trials)
- Other Related Topics

IMMUNE RESPONSE REGULATION: CELLULAR MECHANISMS

May include abstracts focusing on:

- Mechanisms of Costimulation and Tolerance
- Mechanisms of Regulatory T Cell, B Cell, and Myeloid Suppressor Cell Activity
- Cell-Cell Interactions
- Effector Cell Processes
- Other Related Topics
- Should NOT include abstracts representing pure signaling, transcriptional regulation, or structural studies (see: Immune Response Regulation: Molecular Mechanisms for these abstracts)

IMMUNE RESPONSE REGULATION: MOLECULAR MECHANISMS

May include abstracts focusing on:

- Signal Pathways in Immune Cell Development, Regulation and Activation
- MHC: Evolution and Polymorphisms
- Molecular Aspects of Repertoire Formation (Recombination, Isotype Switching, Somatic Mutation)
- Transcriptional Regulation of the Immune System
- Structural Biology of Immune Regulation
- Other Related Topics

IMMUNOLOGY EDUCATION

May include abstracts focusing on:

- AAI High School Teachers Summer Research Program
- K - 12 Education Programs
- Undergraduate Education Strategies and Programs
- Graduate Education Strategies and Programs
- Other Education Programs

INNATE IMMUNE RESPONSES AND HOST DEFENSE: CELLULAR MECHANISMS

May include abstracts focusing on:

- Cellular Mechanisms of Host Defense
- Role of Complement in Innate Immunity
- Ontogeny of Host Defense Mechanisms
- Other Related Topics

INNATE IMMUNE RESPONSES AND HOST DEFENSE: MOLECULAR MECHANISMS

May include abstracts focusing on:

- Signal Transduction and Inflammasome Activation in Innate Immunity
- Molecular Mechanisms of Innate Immune System Regulation
- Complement, Fc Receptors and Acute Phase Proteins
- Structure/Function Analysis of Components of the Innate Immune Response
- Other Related Topics

LYMPHOCYTE DIFFERENTIATION AND PERIPHERAL MAINTENANCE

May include abstracts focusing on:

- Cell Cycle and Mechanisms of Proliferation
- Lymphocyte Differentiation
- Lymphocyte Homeostasis, including Apoptosis
- Mechanisms/Biology of Immunological Memory and Aging
- Selection and Repertoire Diversity
- Influence of Stromal Cells
- Other Related Topics

MICROBIAL, PARASITIC, AND FUNGAL IMMUNOLOGY

May include abstracts focusing on:

- Cellular Responses to Bacterial, Parasitic, and Fungal Pathogens
- Immunopathogenesis of Bacterial, Parasitic, and Fungal Infection
- Innate Immunity Against Bacterial, Parasitic, and Fungal Pathogens
- Mechanisms of Host Invasion, Evasion, and Resistance
- Other Related Topics

MUCOSAL AND REGIONAL IMMUNOLOGY

May include abstracts focusing on:

- Protective Mucosal Immune Responses
- Influences on Mucosal Immunity
- Mucosal Tolerance and Disease
- Role and Regulation of IgA
- Immunology of Pregnancy
- Immunologically Privileged Sites
- Other Related Topics

TECHNOLOGICAL INNOVATIONS IN IMMUNOLOGY

May include abstracts focusing on:

- Technology Development and Applications

THERAPEUTIC APPROACHES TO AUTOIMMUNITY

May include abstracts focusing on:

- Therapeutic Modulation of Tolerance and Autoimmune Disease in Animal Models
- Development of Therapies for Human Autoimmune Disease
- Other Related Topics

TRANSPLANTATION IMMUNOLOGY

May include abstracts focusing on:

- Solid Organ Transplantation
- Cellular or Bone Marrow Transplantation
- Graft vs. Host Disease (GVHD)
- Transplantation Tolerance Induction
- Mechanisms and Prevention of Graft Rejection
- Other Related Topics

TUMOR IMMUNOLOGY

May include abstracts focusing on:

- Anti-Tumor Effector Cells and Regulation of Tumor Immunity
- Tumor-Associated Antigens
- Tumor-Associated Immunosuppression
- Mechanisms of Tumor Rejection and Modulation of Antitumor Responses
- Pathobiology of Immune System Malignancies
- Other Related Topics

VACCINES AND IMMUNOTHERAPY

May include abstracts focusing on:

- Mucosal Vaccine Development and Immune-Based Therapies
- Therapy of Asthma and Hypersensitivity Responses
- Vaccine Development for Infectious Disease
- Immunotherapeutic Strategies Against Pathogens
- Tumor Vaccine Development and Immune-Based Therapies
- Other Related Topics

VETERINARY AND COMPARATIVE IMMUNOLOGY

May include abstracts focusing on the immune system of nonhuman, nonrodent species such as:

- Comparative Immune Responses to Pathogens/Tumors
- Evolution and Genetic Regulation of the Immune System
- Hematopoiesis and Development
- Differentiation and Selection
- Other Related Topics

VIRAL IMMUNOLOGY

May include abstracts focusing on:

- Cellular Responses to Viral Pathogens
- Immunopathogenesis of Viral Infection
- Innate Immunity Against Viral Pathogens
- Mechanisms of Host Invasion, Evasion, and Resistance (including HIV)
- Other Related Topics