

# IMMUNOLOGY 2010™ BALTIMORE



97th Annual Meeting  
THE American Association of  
Immunologists  
May 7-11, 2010 | Baltimore Convention Center

## ABSTRACT SUBMISSION: TOPIC CATEGORIES

### ANTIGEN PROCESSING AND PRESENTATION

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

### AUTOIMMUNITY

- Immunopathogenic Mechanisms/Immunogenetics of Autoimmunity
- Animal Models of Autoimmunity
- Immunotherapy for Autoimmune Disease
- Tolerance and Autoimmunity
- Immunomodulation and Immunotherapy
- Other Related Topics

### CELLULAR ADHESION, MIGRATION AND INFLAMMATION

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

### 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

### CYTOKINES AND CHEMOKINES AND THEIR RECEPTORS

- Receptors and Signal Transduction
- Gene Regulation
- Regulators of Immune Cell Development and Function
- Receptors *in vivo*
- Role in Health and Disease
- Other Related Topics

### GENETIC AND EPIGENETIC REGULATION OF THE IMMUNE SYSTEM

- MHC: Evolution and Polymorphisms
- Molecular Aspects of Repertoire Formation (Recombination, Isotype Switching, Somatic Mutation)
- Transcriptional Regulation of the Immune System
- Other Related Topics

### HEMATOPOIESIS AND IMMUNE SYSTEM DEVELOPMENT

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

### IMMEDIATE HYPERSENSITIVITY, ASTHMA AND ALLERGIC RESPONSES

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

### IMMUNE SYSTEM REGULATION

- Signal Pathways in Immune Cell Development, Regulation and Activation
- Mechanisms of Costimulation and Tolerance
- Soluble Mediators of the Immune System (excluding Cytokines; including Abs, Complement, Small Peptides, and Chemoattractants)
- Cell-Cell Interactions
- Effector Cell Processes
- Other Related Topics

### IMMUNOLOGY EDUCATION

- John H. Wallace High School Teachers Program
- K - 12 Education Programs
- Undergraduate Education Strategies and Programs
- Graduate Education Strategies and Programs
- Other Education Programs

## **INNATE IMMUNE RESPONSES AND HOST DEFENSE**

- Host Defense Against Parasitic and Fungal Infections
- Role of Complement in Innate Immunity
- Molecular Mechanisms of Innate Immune System Regulation
- Ontogeny of Host Defense Mechanisms
- Complement, Fc Receptors and Acute Phase Proteins
- Development of Host Defense Against Microbial Infection
- Other Related Topics

## **LYMPHOCYTE DIFFERENTIATION AND PERIPHERAL MAINTENANCE**

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

## **MICROBIAL AND VIRAL IMMUNOLOGY**

- Cellular Responses to Pathogens
- Immunopathogenesis of Infection
- Immunotherapeutic Strategies Against Pathogens
- Innate Immunity Against Pathogens
- Mechanisms of Host Invasion, Evasion and Resistance (including HIV)
- Vaccine Development and Immune-Based Therapies
- Other Related Topics

## **MUCOSAL AND REGIONAL IMMUNOLOGY**

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

## **TECHNOLOGICAL INNOVATIONS IN IMMUNOLOGY**

- Technology Development and Applications

## **TRANSPLANTATION IMMUNOLOGY**

- 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 AND IMMUNOTHERAPY**

- Anti-Tumor Effector Cells and Regulation of Tumor Immunity
- Tumor-Associated Antigens
- Tumor-Associated Immunosuppression
- Mechanisms of Tumor Rejection and Modulation of Anti-tumor Responses
- Immunotherapy of Cancer
- Pathobiology of Immune System Malignancies
- Vaccine Development and Immune-Based Therapies
- Other Related Topics