Cellular Immunology and Immune Regulation

5161 Engagement of the CD45 Molecule Induces Homotypic Adhesion of Human Thymocytes Through a LFA-1/ICAM-3-Dependent Pathway
Ghislaine Bernard, Didier Zoccola, Michel Tichioni, Jean-Philippe Breittmayer, Claude Aussel, and Alain Bernard

5171 Role of CD44 in the Development of Natural Killer Cells from Precursors in Long-Term Cultures of Mouse Bone Marrow
Domenico V. Delfino, Kenneth D. Patrene, Albert B. DeLeo, Rita DeLeo, Ronald B. Herberman, and Sallie S. Boggs

5180 A Minority Subpopulation of CD4+ T Cells Directs the Development of Naive CD4+ T Cells into IL-4-Secreting Cells
Kenneth J. Gollob and Robert L. Coffman

5189 Keratinocyte-Derived T Cell Costimulation Induces Preferential Production of IL-2 and IL-4 but Not IFN-γ
Richard E. Goodman, Frank Nestle, Yathi M. Naidu, Jonathan M. Green, Craig B. Thompson, Brian J. Nickoloff, and Laurence A. Turka

5199 Inhibition of T Cell Activation by the Extracellular Matrix Protein Tenascin
Timothy J. Hemesath, Linda S. Marton, and Kari Steffansson

5208 Regulation of Immunostimulatory Function and Costimulatory Molecule (B7–1 and B7–2) Expression on Murine Dendritic Cells
Christian P. Larsen, Shannon C. Ritchie, Rose Hendrix, Peter S. Linsley, Karen S. Hathcock, Richard J. Hodes, Robin P. Lowry, and Thomas C. Pearson

5220 Costimulator Dependence of Lymphokine Secretion By Naive and Activated CD4+ T Lymphocytes From TCR Transgenic Mice
Andrew J. McKnight, Victor L. Perez, Colleen M. Shea, Gary S. Gray, and Abul K. Abbas

5226 Activation of Ca2+ Current in Jurkat T Cells Following the Depletion of Ca2+ Stores by Microsomal Ca2+-ATPase Inhibitors
Brett A. Premack, Thomas V. McDonald, and Phyllis Gardner

5241 Cell Surface Distribution of High-Avidity LFA-1 Detected by Soluble ICAM-1-Coated Microspheres
Andrew M. Pyszniak, Clayton A. Welder, and Fumio Tukei

5250 Cytokine Regulation of Early Human Lymphopoiesis
Daniel H. Ryan, Bonnie L. Nuccie, Ion Ritterman, Jane L. Liesveld, and Camille N. Abboud

5259 Prostaglandin E2 Inhibits T Cell-Dependent Ig Secretion by Neonatal but Not Adult Lymphocytes
Judy B. Splawski and Peter E. Lipsky

5268 Expression of Secreted and Glycosylphosphatidylinositol-Bound Qa-2 Molecules Is Dependent on Functional TAP-2 Peptide Transporter
Piotr Tabaczewski and Iwona Sroynowski
Ligation of MHC Class I and Class II Molecules Can Lead to Heterologous Desensitization of Signal Transduction Pathways That Regulate Homotypic Adhesion in Human Lymphocytes
Norbert Wagner, Pablo Engel, Miguel Vega, and Thomas F. Tedder

Molecular and Structural Immunology

Functionally Important Amino Acids in the TCR Revealed by Immunoselection of Membrane TCR-Negative T Cells
Sylvie Caspar-Bauguil, Jacques Arnaud, Cécile Gouaillard, Xiaohong Hou, Carsten Geissler, and Bent Rubin

Divergence of Human α-Chain Constant Region Gene Sequences: A Novel Recombinant α2 Gene
Koteswara R. Chintalacharuvu, Maribeth Raines, and Sherie L. Morrison

Conserved Amino Acid Residues in the Complementarity-Determining Region 1 of the TCR β-Chain Are Involved in the Recognition of Conventional Ag and Mls-1 Superantigen
Junsoo Kang, Cynthia A. Chambers, Judy Pawling, Chris Scott, and Nobumichi Hozumi

Critical Binding Site Amino Acids of Anti-Z-DNA Single Chain Fv Molecules: Role of Heavy and Light Chain CDR3 and Relationship to Autoantibody Activity
Michael Polymenis and B. David Stollar

Role of Differential mRNA Stability in the Regulated Expression of IgM and IgD
Deborah J. Reed, Judith Hawley, Tam Dang, and Dorothy Yuan

Peptide-Induced Conformational Changes in Class I Molecules: Direct Detection by Flow Cytometry
Eric M. Rohren, Daniel J. McCormick, and Larry R. Pease

A Method for Linking V, and V, Region Genes That Allows Bulk Transfer Between Vectors for Use in Generating Polyclonal IgG Libraries
Stefanie Sarantopoulos, Chien-Ying Y. Kao, Wen Den, and Jacqueline Sharon

Host Defense

An H2-T MHC Class Ib Molecule Presents Listeria monocytogenes-Derived Antigen to Immune CD8+ Cytotoxic T Cells
H. G. Archie Bouwer, Kirsten Fischer Lindahl, Jory R. Baldridge, Cynthia R. Wagner, Ronald A. Barry, and David J. Hinrichs

Role of IL-6 in Promoting Growth of Human EBV-Induced B-Cell Tumors in Severe Combined Immunodeficient Mice
A. Durandy, D. Emilie, M. Peuchmaur, M. Forveille, C. Clement, J. Wijdenes, and A. Fischer

Efficient Tumor Cell Lysis Mediated by a Bispecific Single Chain Antibody Expressed in Escherichia coli
Meegan Gruber, Beth A. Schodin, Erik R. Wilson, and David M. Kranz

Role of IL-6 in Activation of T Cells for Acquired Cellular Resistance to Listeria Monocytogenes
Zhanqi Liu, Richard J. Simpson, and Christina Cheers

Influenza Virus Hemagglutinin Induces Differentiation of Mature Resting B Cells and Growth Arrest of Immature WEHI-231 Lymphoma Cells
Ortwin Rott and Evelyne Cash

Unique Antigen Recognition by a Herpesvirus-Specific TCR-γδ Cell
Roger Sciammas, Raymond M. Johnson, Anne I. Sperling, William Brady, Peter S. Linsley, Patricia G. Spear, Frank W. Fitch, and Jeffrey A. Bluestone

Comparison of Tumor-Specific Immunogenicities of Stress-Induced Proteins gp96, hsp90, and hsp70
Heiichiro Udono and Pramod K. Srivastava
Inflammation

5404 Probing the C1q-Binding Site on Human C-Reactive Protein by Site-Directed Mutagenesis
Alok Agrawal and John E. Volanakis

5411 Zymosan-Induced IL-8 Release from Human Neutrophils Involves Activation via the CD11b/CD18 Receptor and Endogenous Platelet-Activating Factor as an Autocrine Modulator
Bo-ting Au, Timothy J. Williams, and Paul D. Collins

5420 Regulation of Neutrophil Responses by Phosphotyrosine Phosphatase
Yi Cui, Kevin Harvey, Luke Akard, Jan Jansen, Chris Hughes, Rafat A. Siddiqui, and Denis English

5429 Stimulation of Macrophage FcγRIIA Activates the Receptor-Associated Protein Tyrosine Kinase Syk and Induces Phosphorylation of Multiple Proteins Including p95Vav and p62/GAP-Associated Protein
Christine Darby, Robert L. Geahlen, and Alan D. Schreiber

5438 Evidence That Secretory Phospholipase A2 Plays a Role in Arachidonic Acid Release and Eicosanoid Biosynthesis by Mast Cells
Alfred N. Fonteh, David A. Bass, Lisa A. Marshall, Michael Seeds, James M. Samet, and Floyd H. Chilton

5447 Laminin Peptides Stimulate Human Neutrophil Motility
Liana Harvath, Nicole E. Brownson, Gregg B. Fields, and Amy P. N. Skabitz

5457 CD11b/CD18 (Mac-1) Is Required for Degranulation of Human Eosinophils Induced by Human Recombinant Granulocyte-Macrophage Colony-Stimulating Factor and Platelet-Activating Factor
Shiro Horie and Hirohito Kita

5468 IL-6 Production by Rat Peritoneal Mast Cells Is Not Necessarily Preceded by Histamine Release and Can Be Induced by Bacterial Lipopolysaccharide
Irene Leal-Berumen, Peter Conlon, and Jean S. Marshall

5477 Soluble Recombinant Complement Receptor 1 Inhibits Inflammation and Demyelination in Antibody-Mediated Demyelinating Experimental Allergic Encephalomyelitis

5485 Crystal-Induced Neutrophil Activation: V. Differential Production of Biologically Active IL-1 and IL-1 Receptor Antagonist
Charles J. Roberge, Rinaldo de Médicis, Jean-Michel Dayer, Marek Rola-Pleszczynski, Paul H. Naccache, and Patrice E. Poubelle

5495 Induction of Monocyte Chemotactic Proteins MCP-1 and MCP-2 in Human Fibroblasts and Leukocytes by Cytokines and Cytokine Inducers: Chemical Synthesis of MCP-2 and Development of a Specific RIA
Jo Van Damme, Paul Proost, Willy Put, Sofie Arens, Jean-Pierre Lenaerts, René Conings, Ghislain Opdenakker, Hubertine Heremans, and Alfons Billiau

Clinical Immunology

5504 Evidence for Defects in V(D)J Rearrangements in Patients with Severe Combined Immunodeficiency
Toku-ichiro Abe, Ikuya Tsuge, Yoshiro Kamachi, Shinpei Torii, Kazuhiko Utsumi, Yasushi Akahori, Yoshikazu Ichihara, Yoshikazu Kurosawa, and Hiroshi Matsuoka

5514 Antigenic Surface of the Bee Venom Allergen Phospholipase A2: Structural and Functional Analysis of Human IgG4 Antibodies Reveals Potential Role in Protection
Thomas Dudler, Theres Schneider, Robert R. Annand, Michael H. Gelb, and Mark Suter

5523 Pattern of Anti-Small Nuclear Ribonucleoprotein Antibodies in MRL/Mp-Ipr/Ipr Mice Suggests That the Intact U1 snRNP Particle Is Their Autoimmunogenic Target
Saeed Fatenejad, Warren Brooks, Ari Schwartz, and Joe Craft

5532 Cytokine mRNA Expression in Salivary Gland Biopsies of Sjögren’s Syndrome
Robert I. Fox, Ho-II Kang, Dale Andö, John Abrams, and Eva Pisa
Functional Cytotoxic T Cells Are Associated with Focal Lesions in the Brains of SJL Mice with Experimental Herpes Simplex Encephalitis  
Stephen J. Hudson and J. Wayne Streilein

Both Naive and Memory CD4 T Cell Subsets Become Anergic During MAIDS and Each Subset Can Sustain Disease  
Susanne Koch, Girija Muralidhar, and Susan L. Swain

Clonal Analysis of Alloreactive T Cell Responses Against the Closely Related B2705 and B2703 Subtypes: Implications for HLA-B27 Association to Spondyloarthropathy  
Daniel López, Rosa García-Hoyo, and José A. López de Castro

Transfection of Thyroid Autoantigens into EBV-Transformed B Cell Lines: Recognition by Graves' Disease Thyroid T Cells  
Raymond J. Mullins, Yuti Chernajovsky, Colin Dayan, Marco Londei, and Marc Feldmann

Clonal Expansion and Persistence of Human T Cells Specific for an Immunodominant Myelin Basic Protein Peptide  
Kai W. Wucherpfennig, Jingwu Zhang, Chris Witek, Makoto Matsui, Yalda Modabber, Kohei Ota, and David A. Hafler

Author Index

Information for Contributors

Submission Form

Membership Form