Commentary

CD22, a B Cell-Specific Receptor, Mediates Adhesion and Signal Transduction
Edward A. Clark

Cellular Immunology and Immune Regulation

The Same Epitope on CD22 of B Lymphocytes Mediates the Adhesion of Erythrocytes, T and B Lymphocytes, Neutrophils, and Monocytes
Pablo Engel, Yoshihisa Nojima, David Rothstein, Liang-Ji Zhou, Gaye Lynn Wilson, John H. Kehrl, and Thomas F. Tedder

Dipeptidyl Peptidase I Is Enriched in Granules of in Vitro- and In Vivo-Activated Cytotoxic T Lymphocytes
Geri R. Brown, Michael J. McGuire, and Dwain L. Thiele

Recombinant IL-6 Activates p42 and p44 Mitogen-Activated Protein Kinases in the IL-6 Responsive B Cell Line, AF-10
M. Daepour, G. Kumar, M. C. Amaral, and A. E. Nel

Direct Effects of IL-10 on Subsets of Human CD4+ T Cell Clones and Resting T Cells: Specific Inhibition of IL-2 Production and Proliferation
René de Waal Malefyt, Hans Yssel, and Jan E. de Vries

Calcium Mobilization-Associated and Independent Cytosolic Acidification Elicited in Tandem with Na+/H+ Exchanger Activation in Target Cell-Adherent Human NK Cells
Bruce S. Edwards, Robyn R. Hoffman, and Mark S. Curry

Mixed Haplotype Aβ2/Aα Class II Molecule in (NZB x NZW)F1 Mice Detected by T Cell Clones
Yudai Gotoh, Hiroshi Takashima, Kazuo Naguchi, Hiroyuki Nishimura, Miyoko Tokushima, Toshikazu Shirai, and Masao Kimoto

Activation of CD8-Dependent Cytotoxic T Lymphocyte Adhesion and Degranulation by Peptide Class I Antigen Complexes
Kevin P. Kane and Matthew F. Mescher

Ligation of CD23 Triggers Cyclic AMP Generation in Human B Lymphocytes
Jean-Pierre Kolb, Annie Abadie, Nathalie Paul-Eugene, Monique Capron, Marie Sarfati, Bernard Dugas, and Guy Delespesse

Cholera Toxin Promotes B Cell Isotype Switching by Two Different Mechanisms: cAMP Induction Augments Germ-Line Ig H-Chain RNA Transcripts Whereas Membrane Ganglioside GM1-Receptor Binding Enhances Later Events in Differentiation
Nils Y. Lycke
Induction of Early Response Genes by Cross-Linking Membrane Ig on B Lymphocytes
Paul R. Mittelstadt and Anthony L. DeFranco

Detection of a Glycosylation-Dependent Ligand for the T Lymphocyte Cell Adhesion Molecule CD2 Using a Novel Multimeric Recombinant CD2-Binding Assay
Christopher R. Parish, Michael A. Revny, Maria H. Knoppers, John C. Waldron, and Hilary S. Warren

Response of Human NK Cells to IL-6 Alterations of the Cell Surface Phenotype, Adhesion to Fibronectin and Laminin, and Tumor Necrosis Factor-α/β Secretion
Hannah Rabinowich, Peter Sedlmayr, Ronald B. Herberman, and Theresa L. Whiteside

Human CD4+ Cytolytic T Cells Kill Antigen-Pulsed Target T Cells by Induction of Apoptosis
M. Rahelu, G. T. Williams, D. S. Kumararatne, G. C. Eaton, and J. S. H. Gaston

Liver γδ T Cells: TCR Junctions Reveal Differences in Heat Shock Protein-60-Reactive Cells in Liver and Spleen

Functional Thrombin Receptors on Human T Lymphoblastoid Cells
Attila Tordai, John W. Fenton II, Thomas Andersen, and Erwin W. Gelfand

Regulation of the Tyrosine Kinase-Dependent Adhesion Pathway in Human Lymphocytes Through CD45
Norbert Wagner, Pablo Engel, and Thomas F. Tedder

Rejection of an IA+ Variant Line of FBL-3 Leukemia by Cytotoxic T Lymphocytes with CD4+ and CD4-CD8- T Cell Receptor-αβ Phenotypes Generated in CD8-Depleted C57BL/6 Mice
Atsutoshi Yoshimura, Hiroshi Shiku, and Eiichi Nakayama

Molecular and Structural Immunology

HB4 Antibody Recognizes a Carbohydrate Structure on Lymphocyte Surface Proteins Related to HB6, CDw75, and CD76 Antigens
Wim B. M. De Lau, Jeroen Kuipers, Hans Voshol, Hans Clevers, and Bert J. E. G. Bast

Expression Cloning of the Early Activation Antigen CD69, a Type II Integral Membrane Protein with a C-Type Lectin Domain
Jörg Hamann, Helmut Fiebig, and Michael Strauss

Large Cytoplasmic Inclusion Body κ-Chain Has Unusual Intrachain Disulfide Bonding
Hans-Martin Jäck, Barbara Sloan, Genesa Grisham, Donald Reason, and Matthias Wabl

Developmental and Cytokine-Mediated Regulation of MHC Class II Gene Promoter Occupancy in Vivo
Catherine J. Kara and Laurie H. Glimcher

Genetic Basis of Human Complement C8β Deficiency
Thomas Kaufmann, Gertrud Hänisch, Christian Rittner, Peter Späth, Francesco Tedesco, and Peter M. Schneider

Structural Similarity of Antibody Variable Regions from Immune and Autoimmune Anti-DNA Antibodies
Meera R. Krishnan and Tony N. Marion

Differential Action of Cycloheximide and Activation Stimuli on Transcription of Tumor Necrosis Factor-α, IL-1β, IL-8, and P53 Genes in Human Monocytes
Oleg A. Osipovich, Konstantin V. Fegeding, Natalia I. Misuno, Tatyana S. Kolesnikova, Igor K. Savostin, Andrew B. Sudarikov, and Nikolai N. Voitenok
Residues that Mediate DNA Binding of Autoimmune Antibodies

Monoclonal, Anti-Domain and Anti-Peptide Antibodies Assign the Molecular Weight 160,000 Granulocyte Membrane Antigen of the CD66 Cluster to a mRNA Species Encoded by the Biliary Glycoprotein Gene, a Member of the Carcinoembryonic Antigen Gene Family
Archontoulas Stoffel, Michael Neumaier, Franz-Josef Gaida, Ursula Fenger, Zofia Drzeniek, Hans-Dieter Haubeck, and Christoph Wagener

Use of the Most JH-Proximal Human Ig H Chain V Region Gene, V_{H6}, in the Expressed Immune Repertoire
William S. Varade, Elides Marin, Ann M. Kittelberger, and Richard A. Insel

Genomic Cloning and Promoter Analysis of Macrophage Inflammatory Protein (MIP)-2, MIP-1α, and MIP-1β, Members of the Chemokine Superfamily of Proinflammatory Cytokines
Urs Widmer, Kirk R. Monague, Anthony Cerami, and Barbara Sherry

Genomic Structure and Chromosomal Mapping of the Human CD22 Gene
Gaye Lynn Wilson, Vesna Nafeld, Eric Kozlow, Joan Menniger, David Ward, and John H. Kehrl

cDNA Cloning of Guinea Pig Monocyte Chemoattractant Protein-1 and Expression of the Recombinant Protein
Teizo Yoshimura

Host Defense

Differences in Cytokine Response and Induction of Nitric Oxide Synthase in Endotoxin-Resistant and Endotoxin-Sensitive Mice after Intravenous Gram-Negative Infection
Thomas J. Evans, Eddy Strivens, Adam Carpenter, and Jonathan Cohen

Genetically Permissive Recognition of Adjacent Epitopes from the 19-kDa Antigen of Mycobacterium tuberculosis by Human and Murine T Cells
David P. Harris, Hans M. Vordermeier, Giuseppe Friscia, Eulogia Román, Heljä-Marja Surcel, Geoffrey Pasvol, Carlos Moreno, and Juraj Ivanyi

Virus-Specific Cytotoxic T Cell-Mediated Lysis of Lymphocytes in Vitro and in Vivo
Diego Kyburz, Daniel E. Speiser, Toni Aebischer, Hans Hengartner, and Rolf M. Zinkernagel

Transfected Leishmania Expressing Biologically Active IFN-γ

Inflammation

Role of 55- and 75-kDa Tumor Necrosis Factor Membrane Receptors in the Regulation of Intercellular Adhesion Molecules-1 Expression by HL-60 Human Promyelocytic Leukemia Cells in Vitro
Yasuhito Abe, Maki Gatanaga, Yo Osuka, Shigeru Kimura, Robert A. Burger, Gale A. Granger, and Tetsuya Gatanaga

Nitric Oxide-Mediated Apoptosis in Murine Peritoneal Macrophages
Jorge E. Albina, Shijun Cui, Romeo B. Mateo, and Jonathan S. Reichner

Short Time Exposure to Lipopolysaccharide Is Sufficient to Activate Human Monocytes
Philippe Gallay, C. Victor Jongeneel, Catherine Barras, Michel Burnier, Jean-Daniel Baumgartner, Michel Pierre Glauser, and Didier Heumann

Cytokine Mediation of the Suppressive Effect of Ferritin on Colony-Stimulating Factor-1-Dependent Monocytopoiesis
Robert Kreisberg, Melinda S. Detrick, Alexander P. Osmand, and Robert N. Moore
5104 Microvascular Effects of Complement Blockade with Soluble Recombinant CR1 on Ischemia/Reperfusion Injury of Skeletal Muscle
Mark Pemberton, Gary Anderson, Václav Větvička, David E. Justus, and Gordon D. Ross

5114 Elevated Cyclic AMP Inhibits Endothelial Cell Synthesis and Expression of TNF-Induced Endothelial Leukocyte Adhesion Molecule-1, and Vascular Cell Adhesion Molecule-1, but Not Intercellular Adhesion Molecule-1
Jordan S. Pober, Mark R. Slowik, Linda G. De Luca, and Andrew J. Ritchie

5124 Impairment of Function in Aging Neutrophils is Associated with Apoptosis
Moira K. B. Whyte, Laura C. Meagher, John MacDermot, and Christopher Haslett

Clinical Immunology

5135 Topical Application of T-2 Toxin Inhibits the Contact Hypersensitivity Response in BALB/c Mice
Benny L. Blaylock, Yasuhide Kouchi, Christine E. Comment, Pamela L. Pollock, and Michael I. Luster

5144 Human Intestinal Intraepithelial Lymphocytes Are Derived from a Limited Number of T Cell Clones That Utilize Multiple Vβ T Cell Receptor Genes
Richard S. Blumberg, Courtland E. Yockey, Gerald G. Gross, Ellen C. Ebert, and Steven P. Balk

5154 EBV Peptide Epitope Sensitization Restores Human Cytotoxic T Cell Recognition of Burkitt’s Lymphoma Cells: Evidence for a Critical Role for ICAM-2
Rajiv Khanna, Scott R. Burrows, Andreas Suhrbier, Catherine A. Jacob, Heather Griffin, Ihor S. Misko, Thomas B. Scudley, Martin Rowe, Alan B. Rickinson, and Denis J. Moss

5163 Human Mouse Chimeric CD7 Monoclonal Antibody (SDZCHH380) for the Prophylaxis of Kidney Transplant Rejection
Andrew I. Lazarovits, James Rochon, Linda Banks, David J. Hollomby, Norman Muirhead, Anthony M. Jevnikar, Martin J. White, Peter L. Amlot, Lise Beauregard-Zollinger, and Calvin R. Stiller

5175 Expression of the Fc Receptor for IgG (FcγRII/CDw32) by Human Circulating T and B Lymphocytes
Basil X. Mantzioris, Manuela F. Berger, William Sewell, and Heddy Zola

5185 Induction of Diabetes Is Influenced by the Infectious Virus and Local Expression of MHC Class I and Tumor Necrosis Factor-α
Pamela S. Ohashi, Stephan Oehen, Peter Aichele, Hanspeter Pircher, Bernhard Odermatt, Pedro Herrera, Yasunori Higuchi, Kurt Buerki, Hans Hengartner, and Rolf M. Zinkernagel

5195 Correlation of Oncostatin M Secretion by Human Retrovirus-Infected Cells with Potent Growth Stimulation of Cultured Spindle Cells from AIDS-Kaposi’s Sarcoma
Susan F. Radka, Shuji Nakamura, Shinsaku Sakurada, and Syed Z. Salahuddin

5202 Role of CD25+ and CD25– T Cells in Acute HIV Infection in Vitro
Octavio Ramilo, Kenneth D. Bell, Jonathan W. Uhr, and Ellen S. Vitetta

5209 Erratum

5210 Announcement

i Author Index