Cellular Immunology and Immune Regulation

4423 Association of an Activation Inducible Serine Kinase Activity with CD5
Jose Alberola-Ila, Lourdes Places, F. Lozano, and Jordi Vives

4431 Peripheral B Cell Maturation: II. Heat-Stable Antigen Splenic B Cells Are an Immature Developmental Intermediate in the Production of Long-Lived Marrow-Derived B Cells
David M. Allman, Stacy E. Ferguson, Vicky M. Lentz, and Michael P. Cancro

4445 Production of Minor Lymphocyte Stimulatory-1 Antigen from Activated CD4+ or CD8+ T Cells
Noriko Arase-Fukushi, Hisashi Arase, Kazumasa Ogasawara, Robert A. Good, and Kazunori Onoé

4455 Human Cytomegalovirus Down-Regulates HLA Class I Expression by Reducing the Stability of Class I H Chains
Matthias F. C. Beersma, Mariejose' J. E. Bijlmakers, and Hidde L. Ploegh

4465 Most γδ T Cells Develop Normally in the Absence of MHC Class II Molecules

4476 Lipopolysaccharide and Tumor Necrosis Factor-α Induce Lipopolysaccharide Receptor Expression on Bone Marrow Cells by Different Mechanisms
Richard Chaby, Thierry Pedron, Peter L. Stütz, and Robert Girard

4486 The Expression of CD4 by T Cell Precursors Resident in Both the Thymus and the Bone Marrow
Robert Chervenak, Deborah Dempsey, Rachel Soloff, R. Michael Wolfcott, and Stephen R. Jennings

4494 Association of Tyrosine and Serine Kinases with the B Cell Surface Antigen CD20: Induction via CD20 of Tyrosine Phosphorylation and Activation of Phospholipase C-γ1 and PLC Phospholipase C-γ2
Julie P. Deans, Gary L. Schieven, Geraldine L. Shu, Mary A. Valentine, Lisa A. Gilliland, Alejandro Araffo, Edward A. Clark, and Jeffrey A. Ledbetter

4505 T Cells Within Germinal Centers are Specific for the Immunizing Antigen
Kathleen A. Fuller; Osami Kanagawa, and Moon H. Nahm

4513 B Cell Antigen Receptor Cross-Linking Triggers Rapid Protein Kinase C Independent Activation of p21
Anne E. Harwood and John C. Cambier

4523 Evidence that Murine Vy5 and Vy6 γδ-TCR+ Lymphocytes Are Derived from a Common Distinct Lineage
Kent Heyborne, Yang-Xin Fu, Harshan Kalataradi, Christopher Reardon, Christina Roark, Cassandra Eyster, Michaelann Vollmer, Willi Born, and Rebecca O'Brien

4528 Sequential Switching from μ to ε Via γ4 in Human B Cells Stimulated with IL-4 and Hydrocortisone
Haifa H. Jabara, Richard Loh, N. Ramesh, Donaia Vercelli, and Raif S. Geha
TGF-β is a Bidirectional Modulator of Cytokine Receptor Expression on Murine Bone Marrow Cells: Differential Effects of TGF-β1 and TGF-β3

Sten E. W. Jacobsen, Francis W. Ruscetti, Anita B. Roberts, and Jonathan R. Keller

Human IL-10 is a Chemoattractant for CD8+ T Lymphocytes and an Inhibitor of IL-8-Induced CD4+ T Lymphocyte Migration

Tan Jinquan, Christian Grønhøj Larsen, Borbala Gesser, Kouji Matsushima, and Kristian Thentsrup-Pedersen

Cell Adhesion Mediated by CD4 and MHC Class II Proteins Requires Active Cellular Processes

Michael S. Kinch, Jack L. Strominger, and Carolyn Doyle

Synthesis of T Helper 2-Type Cytokines at the Maternal-Fetal Interface

Hui Lin, Tom R. Mosmann, Larry Guilbert, Siriporn Tuntipopipat, and Thomas G. Wegmann

Normal Sequence of Phenotypic Transitions in One Cohort of 5-Bromo-2’-Deoxyuridine-Pulse-Labeled Thymocytes: Correlation with T Cell Receptor Expression

Bruno Lucas, Florence Vasseur, and Claude Penit

Antigen Presentation by B Lymphoma Cells: Requirements for Processing of Exogenous Antigen Internalized Through Transferrin Receptors

Kathleen L. McCoy, David Gainey, John K. Inman, and Robert Stutzman

The Functional Basis of Minor Histocompatibility Loci

Derry C. Roopenian, Allan Peter Davis, Gregory J. Christianson, and Larry E. Mobraaten

CD48 Is a Low Affinity Ligand for Human CD2

Mauro S. Sandrin, Effie Mouhtouris, Hilary A. Vaughan, Hilary S. Warren, and Christopher R. Parish

Characterization of a Cell Surface Glycoprotein IPO-3, Expressed on Activated Human B and T Lymphocytes

Svetlana F. Sidorenko and Edward A. Clark

Transforming Growth Factor-β1 Is Required for Secretion of IgG of All Subclasses by LPS-Activated Murine B Cells in Vitro

Clifford M. Snapper, Wendy Waegell, Hans Beernink, and James R. Dasch

Stimulation of Human T-Cell Proliferation by Specific Activation of the 75-kDa Tumor Necrosis Factor Receptor


Unexpected Lack of Reactivity of Allogeneic Anti-la Monoclonal Antibodies with MHC Class 11 Molecules Expressed by Mouse Intestinal Epithelial Cells

Karine Vidal, Christiane Samarsa, Jean-Pierre Magaud, Jean-Pierre Revillard, and Dominique Kaiserlian

Molecular and Structural Immunology

Construction of a Human Ig Combinatorial Library from Genomic V Segments and Synthetic CDR3 Fragments

Yoshiko Akamatsu, Michael S. Cole, J. Yun Tso, and Naoya Tsurushita

Independently Derived IgG Anti-DNA Autoantibodies from Two Lupus-Prone Mouse Strains Express a VH Gene That Is Not Present in Most Murine Strains

Rosaria M. R. Gangemi, Ajay K. Singh, and Kathleen J. Barrett

Characterization of a (+)-Azidophenazocine-Sensitive Sigma Receptor on Splenic Lymphocytes

Hildegardo H. Garza, Jr., Sylvia Mayo, Wayne D. Bowen, Brian R. DeCosta, and Daniel J. J. Carr
Endogenous Expression of δ on the Surface of WEHI-231: Characterization of its Expression and Signaling Properties
Helen G. Haggerty, Robert J. Wechsler, Vicky M. Lentz, and John G. Monroe

Antioxidant Treatment of Thymic Organ Cultures Decreases NF-κB and TCF1(α) Transcription Factor Activities and Inhibits αβ T Cell Development
Vladimir Ivanov, Matthias Merkenschlager, and Rhodri Ceredig

Structural Analysis of the CD3 ζ/η Locus of the Rat: Expression of ζ but Not η Transcripts by Rat T Cells
Yoshiyuki Itoh, Akihiro Matsaura, Miyuki Kinebuchi, Ryoichi Honda, Shinichi Takayama, Shingo Ichimiya, Shinichiro Kon, and Kokichi Kikuchi

Switch Recombination Breakpoints Occur at Nonrandom Positions in the Sy Tandem Repeat
Amy L. Kenter, Robert Wuerffel, Ranjan Sen, Christina E. Jamieson, and Gennady V. Merkulov

Self-Peptides from Four HLA-DR Alleles Share Hydrophobic Anchor Residues Near the NH2-Terminal Including Proline as a Stop Signal for Trimming
Harald Kropshofer, Heiner Max, Thomas Haider, Matthias Kalbus, Claudia A. Muller, and Hubert Kalbacher

Purification and Characterization of Chimeric Human IgA1 and IgA2 Expressed in COS and Chinese Hamster Ovary Cells
H. Craig Morton, Julie D. Atkin, Ray J. Owens, and Jenny M. Woof

Characterization of a Novel High Affinity Human IL-7 Receptor: Expression on T Cells and Association with IL-7 Driven Proliferation
Theresa H. Page, Joanie L. Wilcock, David A. Taylor-Fishwick, and Brian M. J. Foxwell

Biochemical Identity of the Mouse Ly-19.2 and Ly-32.2 Alloantigens with the B Cell Differentiation Antigen Lyb-2/CD72
William H. Robinson, Michelle M. Tut Landolfi, Hubert Schafer, and Jane R. Parnes

cDNA Cloning of a Major Allergen from Timothy Grass (Phleum pratense) Pollen; Characterization of the Recombinant Phl p V Allergen
Susanne Vrtala, Wolfgang R. Sperr, Ingrid Reimitzer, Ronald van Ree, Sylvia Laffer, Wolf-Dieter Müller, Peter Valent, Klaus Lechner, Helmut Rumpold, Dietrich Kraft, Otto Scheiner, and Rudolf Valenta

Host Defense

Protective Immunity in Baboons Vaccinated with a Recombinant Antigen or Radiation-Attenuated Cercariae of Schistosoma mansoni is Antibody-Dependent
Lorraine Amory Saissoun, Graham D. F. Reid, Idle O. Farah, Mramba Nyindo, and Mette Strand

Expression of a Protective Intestinal Immune Response Can Be Inhibited at Three Distinct Sites by Treatment with Anti-α4 Integrin
R. G. Bell and T. Issekutz

Spontaneous and IL-2-Induced Anti-Leukemic and Anti-Host Effects against Tumor- and Host-Specific Alloantigens
Paul Cohen, Urania Vourka-Karussis, Lola Weiss, and Shimon Slavin

Profiles of Cytokine Production in Relation with Susceptibility to Cerebral Malaria
Sylvie de Kossodo and Georges E. Grau

 Killing of Staphylococcus aureus by Tumor Necrosis Factor-α-Activated Neutrophils: The Role of Serum Opsonins, Integrin Receptors, Respiratory Burst, and Degranulation
Antonio Ferrante, A. James Martin, Edna J. Bates, David H. B. Goh, D. Patricia Harvey, David Parsons, Deborah A. Rathjen, Graham Russ, and Jean-Michel Dayer
Inhibition of Murine B Cell Proliferation and Down-Regulation of Protein Kinase C Levels by a Phosphorylcholine-Containing Filarial Excretory-Secretory Product

William Harnett and Margaret M. Harnett

Involvement of TCR-\(\beta8.3^+\) Cells in the Cure of Mice Bearing a Large MOPC-315 Tumor by Low Dose Melphalan

Margalit B. Mokyr, Michael Rubin, Kenneth A. Newell, Anna Prokhorova, and Jeffrey A. Bluestone

An Immune Suppressive Factor Derived from Esophageal Squamous Carcinoma Induces Apoptosis in Normal and Transformed Cells of Lymphoid Lineage

Alison M. O’Mahony, Gerald C. O’Sullivan, Joseph O’Connell, Thomas G. Cotter, and John K. Collins

Modulation of Murine Cytokine Responses to Mycobacterial Antigens by Helminth-Induced T Helper 2 Cell Responses

Eric Peariman, James W. Kazura, Fred E. Hazlett, Jr., and W. Henry Boom

Inhibition of Human CTL-Mediated Lysis by Fibroblasts Infected with Herpes Simplex Virus

Christine M. Posavad, Jennifer J. Newton, and Kenneth L. Rosenthal

Transforming Growth Factor-\(\beta\) Expression and Natural Killer Cell Responses During Virus Infection of Normal, Nude, and SCID Mice

Helen C. Su, Rika Ishikawa, and Christine A. Biron

Resistance of Mice to Experimental Leishmaniasis Is Associated with More Rapid Appearance of Mature Macrophages in Vitro and in Vivo

Cord Sunderkötter, Manfred Kunz, Kerstin Steinbrink, Georg Meinardus-Hager, Matthias Goebeler, Horst Bildau, and Clemens Sorg

Inflammation

Role of Kinins in the Vascular Extravasation Evoked by Antigen and Mediated by Tachykinins in Guinea Pig Trachea

Claude Bertrand, Jay A. Nadel, Isao Yamawaki, and Pierangelo Geppetti

IL-4 Inhibits Growth Factor-Stimulated Rheumatoid Synoviocyte Proliferation by Blocking the Early Phases of the Cell Cycle

Julie Dechaner, Jérôme Briolay, Marie-Cloïlde Rissoan, Pascale Chomarat, Jean-Pierre Galizzi, Jacques Banchereau, and Pierre Miossec

Phospholipase A\(_2\) Activity in Human Neutrophils: Stimulation by Lipopolysaccharide and Possible Involvement in Priming for an Enhanced Respiratory Burst

J. Randolph Forehand, Richard B. Johnston, Jr., and John S. Bomalaski

Stimulation of Human Basophils Results in Homotypic Aggregation: A Response Independent of Degranulation

Edward F. Knol, Taco W. Kuijpers, Frederik P. J. Mul, and Dirk Roos

Cross-Linking of the Carcinoembryonic Antigen-Like Glycoproteins CD66 and CD67 Induces Neutrophil Aggregation

Taco W. Kuijpers, C. Ellen van der Schoot, Marianne Hoogerwerf, and Dirk Roos

Interactions of Soluble CD59 with the Terminal Complement Complexes: CD59 and C9 Compete for a Nascent Epitope on C8

Timo Lehto and Seppo Meri
The Effects of Stem Cell Factor on the Ultrastructure of FceRI⁺ Cells Developing in IL-3-Dependent Murine Bone Marrow-Derived Cell Cultures
Menachem Rottem, Julie P. Goff, John P. Albert, and Dean D. Metcalfe

Study of Natural Lipocortin I: A Potent Mediator for Macrophage-Mediated Immunosuppression in Tumor-Bearing Mice
Tsuneaki Sakata, Shoji Iwagami, Yuji Tsuruta, Satsuki Suzuki, and Ryuji Suzuki

Regulation of Mouse Bone Marrow Macrophage Mannose Receptor Expression and Activation by Prostaglandin E and IFN-γ
Stefan Schreiber, Sherrie L. Perkins, Steven L. Teitelbaum, Jean Chappel, Philip D. Stahl, and Janice S. Blum

P-Selectin Blockade Does not Impair Leukocyte Host Defense against Bacterial Peritonitis and Soft Tissue Infection in Rabbits
Sam R. Sharar, Steven S. Sasaki, Lynne C. Flaherty, James C. Paulson, John M. Harlan, and Robert K. Winn

GM-CSF Regulates Human Eosinophil Responses to F-Met Peptide and Platelet Activating Factor
Kenichi Tomioka, Donald W. MacGlashan, Jr., Lawrence M. Lichtenstein, Bruce S. Bochner, and Robert P. Schleimer

Clinical Immunology

Degenerate Recognition of a Dissimilar Antigenic Peptide by Myelin Basic Protein-Reactive T Cells: Implications for Thymic Education and Autoimmunity
Vatsala Bhardwaj, Vinod Kumar, H. M. Geysen, and Eli E. Sercarz

Human Antilipid A Monoclonal Antibodies Bind to Human B Cells and the i Antigen on Cord Red Blood Cells

Immortalization with Herpesvirus Saimiri Modulates the Cytokine Secretion Profile of Established Th1 and Th2 Human T Cell Clones
Marco De Carli, Susanne Berthold, Helmut Fickenscher, Ingrid Muller Fleckenstein, Mario M. D'Elios, Qinglin Gao, Roberta Biagiotti, Maria Grazia Giudici, Joachim R. Kalden, Bernhard Fleckenstein, Sergio Romagnani, and Gianfranco Del Prete

Elevated IFN-γ and Decreased IL-2 Gene Expression Are Associated with HIV Infection
Jiang Fan, Hong Z. Bass, and John L. Fahey

Induction of Peri-insulitis but Not Diabetes in Islet Transplants Expressing a Single Foreign Antigen: A Multi-Stage Model of Disease
V. Michael Holers, Gregory F. Holllis, Benjamin D. Schwartz, Robert J. Evans, Jena Strauss-Schoenberger, Jean-Claude Carel, Deborah L. Barney, Bin Li, Jeannine Stafford-Holllis, and Paul E. Lacy

CD4 mAb Therapy Modulates Alloantibody Production and Intracardiac Graft Deposition in Association with Selective Inhibition of Th1 Lymphokines
Jerzy W. Kupiec-Weglinska, Barbara Wasowska, Ildiko Papp, Georg Schmidbauer, Mohamed H. Sayegh, William M. Baldwin III, Kenneth J. Wieder, and Wayne W. Hancock

Heterogeneity of Dermal Microvascular Endothelial Cell Antigen Expression and Cytokine Responsiveness in Situ and in Cell Culture
Peter Petzelbauer, Jeffrey R. Bender, Jean Wilson, and Jordan S. Pober

Abnormal Selection of Antibody Repertoires in Retrovirus-Induced Murine AIDS
Denis Portnoi, Anne-Claire Viale, and Jean-Hervé Colle

Complete Freund’s Adjuvant Induces an Earlier and More Severe Arthritis in MRL-Ipr Mice
Leslie G. Ratkay, Lewei Zhang, Joseph Tonzetich, and J. Douglas Waterfield