TABLE OF CONTENTS

CELLULAR IMMUNOLOGY AND IMMUNE REGULATION

985 Distinct Signal Transduction in Mouse CD4+ and CD8+ Splenic T Cells After CD28 Receptor Ligation
   Ryo Abe, Peter Vandenberghe, Nancy Craighead, Douglas S. Smoot, Kelvin P. Lee, and Carl H. June

998 Vy2V82 TCR-Dependent Recognition of Non-Peptide Antigens and Daudi Cells Analyzed by TCR Gene Transfer
   Jack F. Bukowski, Craig T. Morita, Yoshimasa Tanaka, Barry R. Bloom, Michael B. Brenner, and Hamid Band

1007 CD28 Costimulation Up-Regulates Long-Term IL-2Rβ Expression in Human T Cells Through Combined Transcriptional and Post-Transcriptional Regulation
   Chantal Cerdan, Yves Martin, Marianne Courcoux, Claude Mawas, Françoise Birg, and Daniel Olive

1014 Staphylococcal Enterotoxin B Activates Purified NK Cells to Secrete IFN-γ but Requires T Lymphocytes to Augment NK Cytotoxicity
   John A. D'Orazio, George W. Burke, and Joan Stein-Streilein

1024 Inhibition of Antigen-Specific T Cell Activation by Staphylococcal Enterotoxins
   James E. Dowd, Robert N. Jenkins, and David R. Karp

1032 Morphologic and Functional Alterations of Mucosal T Cells by Cholera Toxin and its B Subunit
   Charles O. Elson, Stephen P. Holland, Mark T. Dertzbaugh, Christopher F. Cuff, and Arthur O. Anderson

1041 Specific Suppression by Prostaglandin E2 of Activation-Induced Apoptosis of Human CD4+CD8+ T Lymphoblasts
   Edward J. Goetzl, Songzhu An, and Li Zeng

1048 Acquisition of Peptides by MHC Class II Polypeptides in the Absence of the Invariant Chain
   Christoph Hitzel, Peter van Endert, and Norbert Koch
Role of TCR Specificity in CD4 Versus CD8 Lineage Commitment
Gilbert J. Kersh and Stephen M. Hedrick

Expression of VCAM-1 (CD106) by a Subset of TCRγδ-Bearing Lymphocyte Clones: Involvement of a Metalloprotease in the Specific Hydrolytic Release of the Soluble Isoform
Gérald Leca, Soetarti E. Mansur, and Armand Bensussan

Requirement of CTLA-4 Counter Receptors for IL-4 but Not IL-10 Elevations During a Primary Systemic In Vivo Immune Response
Pin Lu, Xia di Zhou, Shen-Jue Chen, Mark Moorman, Arjan Schoneveld, Suzanne Morris, Fred D. Finkelman, Peter Linsley, Eric Claassen, and William C. Gause

Genetic Evidence for Difference Between Intracellular and Extracellular Peptides in Influenza A Matrix Peptide-Specific CTL Recognition
Masanori Matsui, Robert J. Moots, Robert J. Warburton, Amy L. Peace-Brewer, Lynda G. Tussey, Daniel G. Quinn, Andrew J. McMichael, and Jeffrey A. Frelinger

CD43 Diminishes Susceptibility to T Lymphocyte-Mediated Cytolysis
Thomas A. McFarland, Blair Arndman, N. Manjunath, Jessica A. Fabry, and Judy Lieberman

Memory B Lymphocytes in Human Tonsil Do Not Express Surface IgD
Ian C. Nicholson, Michael J. Brisco, and Heddy Zola

Induction of Murine γδ T Cells Cytotoxic for Xenogeneic Rat Cells
Chika Okumura, Ryuichiro Suto, Keiko Furukawa, Syed Shamsuddin Ahmed, Koichi Furukawa, Eiichi Nakayama, Tohru Fujii, and Hiroshi Shiku

Expression of Vitronectin Receptor on Human NK Cells and Its Role in Protein Phosphorylation, Cytokine Production, and Cell Proliferation
Hannah Rabinowich, Wen-chang Lin, Andrew Amoscato, Ronald B. Herberman, and Theresa L. Whiteside

Human p59 v(C) Regulates OKT3-Induced Calcium Influx by a Mechanism Distinct from PIP2 Hydrolysis in Jurkat T Cells
Kevin Rigley, Pat Slocombe, Karen Proudfoot, Smaira Wahid, Khushbinder Mandair, and Chris Bebbington

Protein Kinase C Activation Inhibits TCR-Mediated Calcium Influx but Not Inositol Trisphosphate Production in HPB-ALL T Cells
Emer Shivnan and Denis R. Alexander

The Receptor Tyrosine Kinase-Related Gene (ryk) Demonstrates Lineage and Stage-Specific Expression in Hematopoietic Cells
Denise K. Simoneaux, Frederick A. Fletcher, Roland Jurecic, Heather G. Shilling, Nguyen T. Van, Pragna Patel, and John W. Belmont

MHC Class I Signaling in T Cells Leads to Tyrosine Kinase Activity and PLC-γ1 Phosphorylation
Søren Skov, Niels Ødum, and Mogens H. Claesson

Multivalent, but Not Divalent, Antigen Receptor Cross-Linkers Synergize with CD40 Ligand for Induction of Ig Synthesis and Class Switching in Normal Murine B Cells: A Redefinition of the TI-2 vs T Cell-Dependent Antigen Dichotomy
Clifford M. Snapper, Marilyn R. Kehry, Brian E. Castle, and James J. Mond
Peptide-Induced Rescue of Serologic Epitopes on Class I MHC Molecules
Joyce C. Solheim, Beatriz M. Carreno, Nancy B. Myers, David R. Lee, and Ted H. Hansen

Split Tolerance in Spleen Chimeras
Jonathan Sprent, Melissa Hurd, Mary Schaefer, and William Heath

Comitogenic Effects of Very Late Activation Antigens On CD3-Stimulated
Human Thymocytes: Involvement of Various Tyrosine Kinase Pathways
Michel Ticchioni, Marcel Deckert, Ghislaine Bernard, Delphine Calandra,
Jean-Philippe Breittmeyer, Véronique Imbert, Jean-François Peyron,
and Alain Bernard

Analysis of an Initial Step of T Cell Adhesion to Endothelial Monolayers
Under Flow Conditions
Tadayuki Yago, Mamoru Tsukuda, Hiroko Yamazaki, Tatsunari Nishi,
Teruaki Amano, and Mutsuhiko Minami

Antigen Receptor Cross-Linking Differentially Regulates Germ-Line C_H
Ribonucleic Acid Expression in Murine B Cells
Piotr Zelazowski, John T Collins, Wesley Dunnick, and Clifford M. Snapper

Characterization of Epitopes Recognized by Hapten-Specific CD4^+ T Cells
Andrea Cavani, Charles J. Hackett, K. Jeff Wilson, Jonathan B. Rothbard,
and Stephen I. Katz

Characterization of Human Fas Gene: Exon/Intron Organization and
Promoter Region
Jianhua Cheng, Changdan Liu, William J. Koopman, and John D. Mountz

Analysis of Homology-Directed Recombination in VDJ Junctions from
Cytoplasmic Ig^+ Pre-B Cells of Newborn Mice
Reginald U. Chukwuocha, Bertrand Nadel, and Ann J. Feeney

Ontogeny of TCR V^31 Expression Revealed Novel Invariant Alternative
Transcripts
Dominique Dunon, Joseph Schwager, Jean-Pierre Dangy, and Beat A. Imhof

Molecular Cloning, Characterization, and Chromosomal Localization of a
Human Lymphoid Tyrosine Kinase Related to Murine Blk
Khalid B. Islam, Hodjatallah Rabbani, Catharina Larsson, Rhiannon Sanders,
and C. I. Edward Smith

Major Differences in Transporter Associated with Antigen Presentation
(TAP)-Dependent Translocation of MHC Class I-Presentable Peptides and
the Effect of Flanking Sequences
Anne Neisig, Joost Roelse, Alice J. A. M. Sijts, Ferry Ossendorp,
Mariet C. W. Feltkamp, W. Martin Kast, Cornelis J. M. Melief,
and Jacques J. Neefjes

IL-10 Inhibits Tumor Antigen Presentation by Epidermal Antigen-Presenting
Cells
Stefan Beissert, Junichi Hosoi, Stephan Grabbe, Akihiko Asahina,
and Richard D. Granstein
INFLAMMATION

1287 Dengue Virus-Specific, HLA-B35-Restricted, Human CD8\(^+\) Cytotoxic T Lymphocyte (CTL) Clones: Recognition of NS3 amino acids 500 to 508 by CTL Clones of Two Different Serotype Specificities 
Peter G. Livingston, Ichiro Kurane, Li-Chen Dai, Yuji Okamoto, Ching-Juh Lai, Ruhe Men, Sachiko Karaki, Masafumi Takiguchi, and Francis A. Ennis

1296 Docosahexaenoic Acid, a Major Constituent of Fetal Serum and Fish Oil Diets, Inhibits IFN-\(\gamma\)-Induced Ia-Expression by Murine Macrophages In Vitro 
Tarik A. Khair-El-Din, Stanley C. Sicher, Miguel A. Vazquez, William J. Wright, and Christopher Y. Lu

1307 Activation of the 55 kDa TNF Receptor Is Necessary and Sufficient for TNF-Induced Liver Failure, Hepatocyte Apoptosis, and Nitrite Release 
Marcel Leist, Florian Gantner, Sabine Jilg, and Albrecht Wendel

1317 Endotoxin-Mediated Dendritic Cell Release from the Intestine: Characterization of Released Dendritic Cells and TNF Dependence 
G. Gordon MacPherson, Christopher D. Jenkins, Michael J. Stein, and Claire Edwards

1323 Human Granulocytes Contain an Opiate Alkaloid-Selective Receptor Mediating Inhibition of Cytokine-Induced Activation and Chemotaxis 
Maynard H. Makman, Thomas V. Bilfinger, and George B. Stefano

1331 Inhibition of Mature IL-1\(\beta\) Production in Murine Macrophages and a Murine Model of Inflammation by WIN 67694, an Inhibitor of IL-1\(\beta\) Converting Enzyme 
Bruce E. Miller, Philip A. Krasney, Donna M. Gauvin, Kim B. Holbrook, David J. Koonz, Ronald V. Abruzzese, Robert E. Miller, Karen A. Pagani, Roland E. Dolle, Mark A. Ator, and Steven C. Gilman

1339 Chemotactic Agonists Induce Cytokine Generation in Eosinophils 
Misato Miyamasu, Koichi Hirai, Yuichi Takahashi, Mariko Iida, Masao Yamaguchi, Takashi Koshino, Toshiaki Takaiishi, Yutaka Morita, Ken Ohta, Tadashi Kasahara, and Koji Ito

1350 Compartmentalized Roles for Leukocytic Adhesion Molecules in Lung Inflammatory Injury 
Michael S. Mulligan, Ara A. Vaporciyan, Roscoe L. Warner, Michael L. Jones, Kimberly E. Foreman, Masayuki Miyasaka, Robert F. Todd III, and Peter A. Ward

1364 IL-1 Is a Potent Inducer of Eosinophil Accumulation in Rat Skin: Inhibition of Response by a Platelet-Activating Factor Antagonist and an Anti-Human IL-8 Antibody 
Maria-Jesus Sanz, Vivian B. Weg, Mark A. Bolanowski, and Sussan Nourshargh

1374 IFN-\(\gamma\) and Lipopolysaccharide Induce DNA Binding of Transcription Factor PU.1 in Murine Tissue Macrophages 
Rodney Shackelford, Dolph O. Adams, and Stewart P. Johnson

1383 Endothelial Cell Associated Platelet-Activating Factor (PAF), a Costimulatory Intermediate in TNF-\(\alpha\)-Induced H\(_2\)O\(_2\) Release by Adherent Neutrophil Leukocytes 
E. J. U. von Asmuth and W. A. Buurman
Dexamethasone or Cyclosporin A Suppress Mast Cell-Leukocyte Cytokine Cascades: Multiple Mechanisms of Inhibition of IgE- and Mast Cell-Dependent Cutaneous Inflammation in the Mouse
Barry K. Wershil, Glenn T. Furuta, Jackie A. Lavigne, Anjona Roy Choudhury, Zhen-S. Wang and Stephen J. Galli

Inhibition of Lipopolysaccharide-Induced IL-1β Transcription by Cyclic Adenosine Monophosphate in Human Astrocytic Cells
Susan A. Willis and Perry D. Nisen

Clinical Immunology

A Th0/Th2-Like Function of CD4+CD7- T Helper Cells from Normal Donors and HIV-Infected Patients
Brigitte Autran, Eric Legac, Catherine Blanc, and Patrice Debré

CDR3-Independent γδ Vδ1+ T Cell Expansion in the Peripheral Blood of HIV-Infected Persons
Séverine Boullier, Madeleine Cochet, Fabrizio Poccia, and Marie-Lise Gougeon

Balance of IL-1 Receptor Antagonist/IL-1β in Rheumatoid Synovium and Its Regulation by IL-4 and IL-10
Pascale Chomarat, Edouard Vannier, Julie Dechanet, Marie Clotilde Rissoan, Jacques Banchereau, Charles A. Dinarello, and Pierre Miossec

Activation of Human Thymocytes After Infection by EBV
Robin L. Kaufman Paterson, Colm A. Kelleher, Joanne E. Streib, Thomas D. Amankonah, Jing Wu Xu, James F. Jones, and Erwin W. Gelfand

Selection of Oligoclonal Vβ-Specific T Cells in the Intradermal Response to Kveim-Siltzbach Reagent in Individuals with Sarcoidosis
Jonathan T. Klein, Thomas D. Horn, Jeffrey D. Forman, Richard F. Silver, Alvin S. Teirstein, and David R. Moller

T Cell Activation and Anergy to Islet Cell Antigen in Type I Diabetes
Isao Miyazaki, Roy K. Cheung, Roger Gaedigk, May F. Hui, John Van der Meulen, Ray V. Rajotte, and Hans-Michael Dosch

Interaction Between CD40 and Its Ligand gp39 in the Development of Murine Lupus Nephritis
Chandra Mohan, Yan Shi, Jon D. Laman, and Syamal K. Datta

Role of B7:CD28/CTLA-4 in the Induction of Chronic Relapsing Experimental Allergic Encephalomyelitis
Peter J. Perrin, Dorothy Scott, Laura Quigley, Paul S. Albert, Ofer Feder, Gary S. Gray, Ryo Abe, Carl H. June, and Michael K. Racke

IL-12 Reverses Cytokine and Immune Abnormalities in Sezary Syndrome

Influence of IL-1 Receptor Blockade on the Human Response to Endotoxemia
1508 Immunoregulatory CD8$^+$ Cells Recognize Antigen-Activated CD4$^+$ Cells in Myasthenia Gravis Patients and in Healthy Controls

Mi-Ha Yuen, Maria Pia Protti, Brenda Diethelm-Okita, Lucia Moiola, James F. Howard, Jr., and Bianca M. Conti-Fine

1521 Errata

1522 Author Index

1524 Information for Authors

1526 Submission Form

1527 Membership Application