The Journal of Immunology
Contents
Volume 151 • Number 10 • November 15, 1993

Cellular Immunology and Immune Regulation

5115 Cross-Linking of HLA Class II Antigens Modulates the Release of Tumor Necrosis Factor-α by the EBV-B Lymphoblastoid Cell Line JY
Maresa Altomonte, Carlo Pucillo, Giuseppe Damante, and Michele Maio

5123 Regulation of CD4 and CD8 Expression on Mouse T Cells: Active Removal from the Cell Surface by Two Mechanisms
Stephen J. Anderson and Christopher Coleclough

5135 Migration of Natural Killer Cells Across Endothelial Cell Monolayers
Giancarlo Bianchi, Marina Sironi, Elena Ghibaudi, Carlo Selvaggini, Mariano Elices, Paola Allavena, and Alberto Mantovani

5145 Construction of Recombinant Human Type 5 Adenoviruses Expressing Rodent IL-6 Genes: An Approach to Investigate in Vivo Cytokine Function
Todd A. Braciak, Suresh K. Mital, Frank L. Graham, Carl D. Richards, and Jack Gauldie

5154 Contrasting Effects of Transforming Growth Factor-β and IL-1 on the Regulation of Plasminogen Activator Inhibitors in Human Synovial Fibroblasts
John A. Hamilton, Johann Wojta, Marissa Gallichio, Katherine McGrath, and Enrico L Filonzi

5162 Evidence that Peritoneal Exudate Cells Cultured with Eye-Derived Fluids Are the Proximate Antigen-Presenting Cells in Immune Deviation of the Ocular Type
Yoshiyuki Hara, Shigeki Okamoto, Barry Rouse, and J. Wayne Streilein

5172 Differential Induction of VCAM-1 on Human Iliac Venous and Arterial Endothelial Cells and Its Role in Adhesion
Ingeborg A. Hauser, David R. Johnson, and Joseph A. Madri

5186 Effects of Purified Dietary n-3 Ethyl Esters on Murine T Lymphocyte Function
Kara Hosack Fowler, Robert S. Chapkin, and David N. McMurray

5198 Early Mobilization of Ca2+ Is Not Required for Glucocorticoid-Induced Apoptosis in Thymocytes
Rieko Iseki, Yoshihisa Kudo, and Makoto Iwata

5208 cAMP Analogs Prevent Activation-Induced Apoptosis of T Cell Hybridomas
Miau-Rong Lee, Mei-Ling Liou, Ming-Li Liou, Ying-Fang Yang, and Ming-Zong Lai

5218 Alloantigen Presentation by Individual Clones of Mouse Splenic Macrophages: Selective Expression of IL-1α in Response to CD8+ T Cell-Derived IFN-γ Defines the Alloantigen-Presenting Phenotype
Jeffrey M. McCormack, David Askew, and William S. Walker

5228 Lymphocytes Infiltrating Rat Cardiac Allografts Express a Limited Repertoire of T Cell Receptor Vβ Genes
Haval Shirwan, Daughlian Chi, Leonard Makowka, and Donald V. Cramer
The Peyer's Patch High Endothelial Receptor for Lymphocytes, the Mucosal Vascular Addressin, is Induced on a Murine Endothelial Cell Line by Tumor Necrosis Factor-α and IL-1
Elizabeth E. Sikorski, Rupert Hallmann, Ellen L. Berg, and Eugene C. Butcher

Natural Killer Cells Induce Activated Murine B Cells to Secrete Ig
Clifford M. Snapper, Hideko Yamaguchi, Mark A. Moorman, Rosie Sneed, Doug Smoot, and James J. Mond

Molecular and Structural Immunology

Cloning of Mouse OX40: A T Cell Activation Marker That May Mediate T-B Cell Interactions
David M. Calderhead, Janet E. Buhlmann, Alfonso J. M. van den Eertwegh, Eric Claassen, Randolph J. Noelle, and H. Perry Fell

Recruiting Memory B Cells with Changed Antigenic Specificity
James Ellenberger, Geralyn Creadon, Xianghua Zhang, and Lawrence J. Wysocki

Length and Sequence Requirements of the Cytoplasmic Domain of the Aβ Molecule for Class II-Mediated B Cell Signaling
Jonathan A. Harton and Gail A. Bishop

A Majority of Ig H Chain cDNA of Normal Human Adult Blood Lymphocytes Resembles cDNA for Fetal Ig and Natural Autoantibodies
Chichi Huang and B. David Stollar

Nucleotide Sequences, Polymorphism and Gene Deletion of T Cell Receptor β-Chain Constant Regions of Pan troglodytes and Macaca mulatta
Emma E. M. Jaeger, Ronald E. Bontrop, and Jerry S. Lanchbury

Characterization of Platelet-Activating Factor Receptors on Canine T Lymphocytes
Martin J. Mangino, Michael K. Murphy, Amy Weiss, and Charles B. Anderson

T Cell Receptor Va Gene Segment with Alternate Splicing in the Junctional Region
Patrice N. Marche, Adrien Six, Hanne Gahéry, Carine Gris-Liebe, Pierre-André Cazenave, and Evelyne Jouvin-Marche

Cloning and Characterization of the 284 Gene Encoding a Molecule Associated with Non-MHC-Restricted Killing Mediated by Activated Natural Killer Cells and T Cells
Porunelloor A. Mathew, Beth Ann Garni-Wagner, Kevin Land, Akira Takashima, Earl Stoneman, Michael Bennett, and Vinay Kumar

Polymorphism in the Mouse Tap-1 Gene: Association with Abnormal CD8+ T Cell Development in the Nonobese Nondiabetic Mouse
Richard B. Pearce, Lucas Trigler, Eva K. Svaasand, and Charles M. Peterson

Homogeneous Antigen Receptor β-Chain Genes in Cloned CD4+ CD8- αβ T Suppressor Cells
Ingo G.H. Schmidt-Wolf, Owen Liang, Sussan Dejohksh-Jones, Hui Wang, Lirong Cheng, Bari Holm, Robert Bell, and Samuel Strober

Identification of Tropomyosin as the Major Shrimp Allergen and Characterization of Its IgE-Binding Epitopes
K. N. Shanti, Brian M. Martin, Sunil Nagpal, Dean D. Metcalf, and P. V. Subba Rao

The Utilization of Individual Vβ Exons in the Primary Repertoire of Adult BALB/c Mice
Kevin M. Sheehan, Celine A. Mainville, Susanne Willert, and Peter H. Brodeur

Isolation of a Classical MHC Class I CDNA from an Amphibian: Evidence for only One Class I Locus in the Xenopus MHC
Benny P. Shum, David Avila, Louis Du Pasquier, Masanori Kasahara, and Martin F. Flajnik
Binding of Peptides Lacking Consensus Anchor Residue Alters H-2L Serologic Recognition
Joyce C. Solheim, Beatriz M. Carreno, Joseph D. Smith, John Gorka, Nancy B. Myers, Zilong Wen, John M. Martinko, David R. Lee, and Ted H. Hansen

Kinetics of E2A Basic Helix-Loop-Helix-Protein Expression During Myelopoiesis and Primary B Cell Differentiation
Xue-Qin Xin, Christian Nelson, Linda Collins, and Kenneth Dorshkind

Host Defense

Impairment and Delay of Neutralizing Antiviral Antibody Responses by Virus-Specific Cytotoxic T Cells
Manuel Battegay, Demetrius Moskophidis, Hanspeter Waldner, Marie-Anne Bründler, Wai-Ping Fung-Leung, Tak W. Mak, Hans Hengartner, and Rolf M. Zinkernagel

Effect of Granulocyte/Macrophage Colony-Stimulating Factor on Human Monocytes Infected with Influenza A Virus: Enhancement of Virus Replication, Cytokine Release, and Cytotoxicity
Armin Bender, Udo Amann, Ruth Jäger, Marianne Nain, and Diethard Gemsa

IL-10 Neutralization Augments Mouse Resistance to Systemic Mycobacterium avium Infections
Michel Denis and Esfandiar Ghadirian

Complement Receptor Type 3 (CD11b/CD18) Involvement is Essential for Killing of Listeria monocytogenes by Mouse Macrophages
Douglas A. Drevets, Pieter J. M. Leenen, and Priscilla A. Campbell

Role of Acyl Residues in Polyclonal Murine B Cell Activation by Acylpoly(1,3)galactosides from Klebsiella pneumoniae
Zakaria Hmama, Gerard Lina, Gerard Normier, Hans Binz, and Jean-Pierre Revillard

Protective Immunity to Haemonchus contortus Induced by Immunoaffinity Isolated Antigens That Share a Phylogenetically Conserved Carbohydrate Gut Surface Epitope
Douglas P. Jasmer, Lance E. Perryman, George A. Conder, Sherrie Crow, and Travis McGuire

Tumor Necrosis Factor Plays a Role in Schistosoma mansoni Egg-Induced Granulomatous Inflammation
Anthony L. Joseph and Dov L. Boros

T Cell Receptor Vβ2 and Vβ6 Mediate Tumor-Specific Cytotoxicity by Tumor-Infiltrating Lymphocytes in Ovarian Cancer
George E. Peoples, Michael P. Davey, Peter S. Goedegebuure, Deric D. Schoof, and Timothy J. Eberlein

HLA-A2 Presents Shared Tumor-Associated Antigens Derived from Endogenous Proteins in Ovarian Cancer
George E. Peoples, Peter S. Goedegebuure, J. Valerie R. Andrews, Deric D. Schoof, and Timothy J. Eberlein

Suppressor Macrophages in African Trypanosomiasis Inhibit T Cell Proliferative Responses by Nitric Oxide and Prostaglandins
Kathleen W. Schleifer and John M. Mansfield

Trypanosoma cruzi Acidic Ribosomal P Protein Gene Family: Novel P Proteins Encoding Unusual Cross-Reactive Epitopes
Yasir A.W. Skeiky, Darin R. Benson, Jeffrey A. Guderian, Paul R. Sleath, Marilyn Parsons, and Steven G. Reed

70 kDa Heat Shock Cognate Protein is a Transformation-Associated Antigen and a Possible Target for the Host's Anti-Tumor Immunity
Yasuaki Tamura, Norioki Tsuboi, Noriyuki Sato, and Kokichi Kikuchi
Mechanisms of the Inflammatory Response Induced by Extracts of *Schistosoma mansoni* Larvae in Guinea Pig Skin  
Mauro M. Teixeira, Michael J. Doenhoff, Carl McNeice, Timothy J. Williams, and Paul G. Hellewell

Requirement of Thiol Compounds as Reducing Agents for IL-2-Mediated Induction of LAK Activity and Proliferation of Human NK Cells  
Akira Yamauchi and Eda T. Bloom

### Inflammation

Characterization of Factor H Binding to Human Polymorphonuclear Leukocytes  
Vicky M. Avery and David L. Gordon

LPS-Induced sTNF-Receptor Release in Vivo in a Murine Model: Investigation of the Role of Tumor Necrosis Factor, IL-1, Leukemia Inhibiting Factor, and IFN-γ  
Marc H. A. Bemelmans, Dirk J. Gouma, and Wim A. Buurman

In Vivo Characterization of the Anti-Inflammatory Effect of Cyclosporin A on Human Basophils  
Vincenzo Casolaro, Giuseppe Spadaro, Vincenzo Patella, and Gianni Marone

Dissociation of IL-1β Synthesis and Secretion in Human Blood Monocytes Stimulated with Bacterial Cell Wall Products  
Jayne Chin and Matthew J. Kostura

Antigen and Carbachol Mobilize Calcium by Similar Mechanisms in a Transfected Mast Cell Line (RBL-2H3 Cells) that Expresses μL Muscarinic Receptors  
Oksoon Hong Choi, Jong-Hwa Lee, Tatiana Kassessinoff, Jose R. Cunha-Melo, S. V. Penelope Jones, and Michael A. Beaven

Taxol Shares the Ability of Bacterial Lipopolysaccharide to Induce Tyrosine Phosphorylation of Microtubule-Associated Protein Kinase  
Aihao Ding, Elizabeth Sanchez, and Carl F. Nathan

Tissue-Specific Regulation of IL-6 Production by IL-4: Differential Effects of IL-4 on Nuclear Factor-κB Activity in Monocytes and Fibroblasts  
Raymond P. Donnelly, Leslie J. Crofford, Sherry L. Freeman, Jon Buras, Elaine Remmers, Ronald L. Wilder, and Matthew J. Fenton

Increased Synthesis and Secretion of a 14-kDa Phospholipase A2 by Guinea Pig Alveolar Macrophages: Dissociation from Arachidonic Acid Liberation and Modulation by Dexamethasone  
Rabiā Hidi, B. Boris Vargaťig, and Lhousséine Touqui

Regulation of Eosinophil Migration by Adult T Cell Leukemia-Derived Factor  
Kotaro Hori, Mitsuomi Hirashina, Mika Ueno, Mitsuhiko Matsuda, Shiro Waga, Susumu Tsurufuji, and Junji Yodoi

Mechanism of Release of Soluble Forms of Tumor Necrosis Factor/Lymphotoxin Receptors by Phorbol Myristate Acetate-Stimulated Human THP-1 Cells in vitro  
Chenduen Hwang, Maki Gatanaga, Gale A. Granger, and Tetsuya Gatanaga

Regulation of CD11b/CD18 Expression in Human Neutrophils by Phospholipase A2  
Peer B. Jacobson and Denis J. Schrier

Functional Molecular Complexes of Human N-Formyl Chemoattractant Receptors and Actin  
A. J. Jesaitis, R. W. Erickson, K.-N. Klots, R. K. Bommakanti, and D. W. Siemsen

Protective Effects of IL-4 and IL-10 Against Immune Complex-Induced Lung Injury  
Michael S. Mulligan, Michael L. Jones, Ara A. Vaporciyan, Maureen C. Howard, and Peter A. Ward
5675 Triggering of Degranulation in Mast Cells by Exogenous Type II Phospholipase A2
Makoto Murakami, Noriko Hara, Ichiro Kudo, and Keizo Inoue

5685 Protein Fv Produced During Viral Hepatitis Is a Novel Activator of Human Basophils and Mast Cells
Vincenzo Patella, Jean-Pierre Bouvet, and Gianni Marone

5699 Expression of a TNF Inhibitor in Transgenic Mice
K. Peppel, A. Poltorak, I. Melhado, F. Jirik, and B. Beutler

5704 Signal Transducing Properties of the N-formyl Peptide Receptor Expressed in Undifferentiated HL60 Cells
Eric R. Prossnitz, Oswald Quehenberger, Charles G. Cochrane, and Richard D. Ye

5716 Activated Eosinophils Evoke Chloride Secretion in Model Intestinal Epithelia Primarily via Regulated Release of 5'-AMP
Murray B. Resnick, Sean P. Colgan, Thomas W. Patapoff, Randall J. Mrsny, Christopher S. Awtrey, Charlene Delp-Archer, Peter F. Weller, and James L. Madara

Clinical Immunology

5726 Murine Recipients of Fully Mismatched Donor Marrow are Protected from Lethal Graft-versus-Host Disease by the in Vivo Administration of Rapamycin but Develop an Autoimmune-Like Syndrome
Bruce R. Blazar, Patricia A. Taylor, Dale C. Snover, Suren N. Sehgal, and Daniel A. Vallera

5742 Bullous Pemphigoid and Herpes Gestationis Autoantibodies Recognize A Common Non-Collagenous Site on the BP180 Ectodomain
George J. Giudice, Daryl J. Emery, Brian D. Zelickson, Grant J. Anhalt, Zhi Liu, and Luis A. Diaz

5751 Oral Tolerance in Experimental Autoimmune Uveoretinitis: Distinct Mechanisms of Resistance are Induced by Low Dose vs High Dose Feeding Protocols
Dale S. Gregerson, Wesley F. Obritsch, and Larry A. Donoso

5762 Clonal Predominance of T Cell Receptors Within the CD8+ CD45RO+ Subset in Normal Human Subjects
Ravi Hingorani, In-Hong Choi, Pradip Akolkar, Beena Gulwani-Akolkar, Robert Pergolizzi, Jack Silver, and Peter K. Gregersen

5770 Recognition of Human Insulin in the Context of HLA-DRB10406 Products by T Cells of Insulin Autoimmune Syndrome Patients and Healthy Donors
Yuiko Ito, Mie Nieda, Yasuko Uchigata, Motoko Nishimura, Katsushi Tokunaga, Shoji Kuvata, Fumiya Obata, Kenji Tadokoro, Yukimasa Hirata, Yasue Omori, and Takeo Juji

5777 Exacerbation of Murine Herpes Simplex Virus-Mediated Stromal Keratitis by Th2 Type T Cells
Sundararajan Jayaraman, Arnd Heiligenhaus, Alejandro Rodriguez, Sarkis Soukiasian, Martin E. Dorf, and C. Stephen Foster

5790 T Cell Peptide of a Self-Protein Elicits Autoantibody to the Protein Antigen: Implications for Specificity and Pathogenetic Role of Antibody in Autoimmunity
Yahuan Lou and Kenneth S. K. Tung

5800 Autoimmunity and Filariasis: Autoantibodies Against Cytoplasmic Cellular Proteins in Sera of Patients with Onchocerciasis
Jan F. Meilof, Allegonda Van der Lelij, Luis A. Rokeach, Sallie O. Hoch, and Ruud J. T. Smeenk

5810 Identification of Human Pre-T/NK Cell-Associated Genes
Monica G. Ranes-Goldberg, Toshiyuki Hori, Sheela Mohan-Peterson, and Hergen Spits

5822 Molecular Selection of Human Antibodies with an Unconventional Bacterial B Cell Antigen
Minoru Sasano, Dennis R. Burton, and Gregg J. Silverman
Age-Associated Changes in Binding of Human B Lymphocytes to a V_{\gamma3}-Restricted Unconventional Bacterial Antigen
Gregg J. Silverman, Minoru Sasano, and Susan B. Wormsley

Characterization of Type I Complement C2 Deficiency MHC Haplotypes: Strong Conservation of the Complotype/HLA-B-Region and Absence of Disease Association Due to Linked Class II Genes
Lennart Truedsson, Chester A Alper, Zuheir L. Awdeh, Per Johansen, Anders G. Sjöholm, and Gunnar Sturfelt

Specific IgG Autoantibodies Are Potent Inhibitors of Autoreactive T Cell Response to Phytohemagglutinin-Activated T Cells
Ronit Wolf-Levin, Takachika Azuma, Koji Aoki, Yoshiaki Yagami, and Hidechika Okada

Author Index
Information for Contributors
Submission Form
Membership Form