Contents

CELLULAR IMMUNOLOGY

M. Croft and S. L. Swain ........................................... 4055
D. De Rysscher, H. Sobis, M. Vandeputte, and M. Waer .... 4065
T. Hori, J. Cupp, N. Wrighton, F. Lee, and H. Spits ........ 4078
S. Jayaraman, N. Mensi, D. R. Webb, and M. E. Dorf ........ 4085
P. E. Korty, C. Brando, and E. M. Shevach ..................... 4092
P.-J. Linton, A. Rudie, and N. R. Klinman ....................... 4099
A. Risso, D. Smilovich, M. C. Capra, I. Baldissarro, G. Yan, A. Bargellesi, and M. E. Cosulich .......................... 4105
R. G. Titus ...................................................................... 4115
V. Udhayakumar, L. Kumar, and B. Subbarao ................. 4120

B Cell Response to Fresh and Effector T Helper Cells: Role of Cognate T-B Interaction and the Cytokines IL-2, IL-4, and IL-6
A Subset of Asialo GM1+ Cells Play a Protective Role in the Occurrence of Graft-versus-Host Disease in Mice
Germinal Center B Cells and Antibody Production in the Bone Marrow
Identification of a Novel Human Thymocyte Subset with a Phenotype of CD3− CD4+ CD8aβ−: Possible Progeny of the CD3− CD4− CD8− Subset
Involvement of Protein Kinase C in Competence Induction of Macrophages to Generate T Suppressor Cells
CD59 Functions as a Signal-Transducing Molecule for Human T Cell Activation
Tolerance Susceptibility of Newly Generating Memory B Cells
CD69 in Resting and Activated T Lymphocytes: Its Association with a GTP Binding Protein and Biochemical Requirements for Its Expression
Colchicine Is a Potent Adjuvant for Eliciting T Cell Responses
The Influence of Avidity on Signaling Murine B Lymphocytes with Monoclonal Anti-IgM Antibodies: Effects on B Cell Proliferation versus Growth Inhibition (Tolerance) of an Immature B Cell Lymphoma

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

W. F. Davidson, C. Calkins, A. Hugin, T. Giese, and K. L. Holmes ................................................................. 4138
A. F. Kavaughan, E. Lightfoot, P. E. Lipsky, and N. Oppenheim-Marks ................................................................. 4149
C. Knobloch, S. F. Goldmann, and W. Friedrich .................. 4157
H. Offner, M. Vainiene, D. P. Gold, W. J. Morrison, R.-Y. Wang, G. A. Hashim, and A. A. VandenBark .............. 4165
B. A. E. Vandekerckhove, J. F. Krowka, J. M. McCune, J. E. de Vries, H. Spits, and M. G. Roncarolo .................. 4173
S. A. Weston and C. R. Parish ........................................ 4180

Immunity to Type XI Collagen in Mice: Evidence that the α3(XI) Chain of Type XI Collagen and the α1(II) Chain of Type II Collagen Share Arthritogenic Determinants and Induce Arthritis in DBA/1 Mice
Cytokine Secretion by C3H-Tpr and -gld T Cells: Hypersecretion of IFN-γ and Tumor Necrosis Factor-α by Stimulated CD4+ T Cells
Role of CD11/CD18 in Adhesion and Transendothelial Migration of T Cells: Analysis Utilizing CD18-Deficient T Cell Clones
Limited T Cell Receptor Diversity of Transplacentally Acquired Maternal T Cells in Severe Combined Immunodeficiency
Protection against Experimental Encephalomyelitis: Idiotype Autoregulation Induced by a Nonencephalitogenic T Cell Clone Expressing a Cross-Reactive T Cell Receptor V Gene
Clonal Analysis of the Peripheral T Cell Compartment of the SCID-hu Mouse
Modification of Lymphocyte Migration by Mannans and Phosphomannans: Different Carbohydrate Structures Control Entry of Lymphocytes into Spleen and Lymph Nodes

Continued on page 4

PREVENTION OF CHRONIC EOSINOPHILIC CELL WALL-INDUCED ARTHRITIS IN RATS BY TREATMENT WITH A MONOCLONAL ANTIBODY AGAINST THE T CELL ANTIGEN RECEPTOR αβ

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

K. Akahane, R. B. Cohen, M. Bickel, and D. H. Pluznik

IL-1α INDUCES GRANULOCYTE-MACROPHAGE COLONY-STIMULATING FACTOR GENE EXPRESSION IN MURINE B LYMPHOCYTE CELL LINES VIA mRNA STABILIZATION

K. C. Allison, W. Strober, and G. R. Harriman

INDUCTION OF IL-5 RECEPTORS ON NORMAL B CELLS BY CROSS-LINKING SURFACE Ig WITH ANTI-Ig-DEXTRAN

K. Dorshkind

IN VIVO ADMINISTRATION OF RECOMBINANT GRANULOCYTE-MACROPHAGE COLONY-STIMULATING FACTOR RESULTS IN A REVERSIBLE INHIBITION OF PRIMARY B LYMPHOPHORESIS

A. Gayá, O. de la Calle, J. Yague, E. Alsina, M. D. Fernández, M. Romero, V. Fabregat, J. Martorell, and J. Vives

IL-4 INHIBITS IL-2 SYNTHESIS AND IL-2-INDUCED UP-REGULATION OF IL-2Rα BUT NOT IL-2Rβ CHAIN IN CD4+ HUMAN T CELLS

I. M. Katona, J. F. Urban, Jr., S. S. Kang, W. E. Paul, and F. D. Finkelman

IL-4 REQUIREMENTS FOR THE GENERATION OF SECONDARY IN VIVO IgE RESPONSES

A. Vazquez, M. T. Auffredou, P. Galanaud, and G. Leca

MODULATION OF IL-2- AND IL-4-DEPENDENT HUMAN B CELL PROLIFERATION BY CYCLIC AMP

K. Zahedi, M. F. Seldin, M. Rits, R. A. B. Ezekowitz, and A. S. Whitehead

MOUSE IL-1 RECEPTOR ANTAGONIST PROTEIN: MOLECULAR CHARACTERIZATION, GENE MAPPING, AND EXPRESSION OF mRNA IN VITRO AND IN VIVO

IMMUNOCHEMISTRY

A. Chonn, P. R. Cullis, and D. V. Devine

THE ROLE OF SURFACE CHARGE IN THE ACTIVATION OF THE CLASSICAL AND ALTERNATIVE PATHWAYS OF COMPLEMENT BY LIPOSOMES

R. W. Karr, P. Panina-Bordignon, W.-Y. Yu, and A. Lanzarvecchia

ANTIGEN-SPECIFIC T CELLS WITH MONOGAMOUS OR PROMISCUOUS RESTRICTION PATTERNS ARE SENSITIVE TO DIFFERENT HLA-DRβ CHAIN SUBSTITUTIONS

P. H. Kussie, J. M. Anchin, S. Subramaniam, J. A. Glasel, and D. S. Linthicum

ANALYSIS OF THE BINDING SITE ARCHITECTURE OF MONOCLONAL ANTIBODIES TO MORPHINE BY USING COMPETITIVE LIGAND BINDING AND MOLECULAR MODELING

C. Nordling, R. Holmdahl, and L. Klareskog

A MONOCLONAL ANTI-IDIOPTIC ANTIBODY WITH RHUMATOID FACTOR ACTIVITY DEFINES A CROSS-REACTIVE IDIOTYPE ON MURINE ANTICOLLAGEN ANTIBODIES

S. Rosen-Bronson, W.-Y. Yu, and R. W. Karr

POLYMORPHIC HLA-DR7β1 CHAIN RESIDUES THAT ARE INVOLVED IN T CELL ALLORECOGNITION

V. Stephan, N. Guo, V. Ginsburg, and R. P. Siraganian

IMMUNOPRECIPITATION OF MEMBRANE PROTEINS FROM RAT BASOPHILIC LEUKEMIA CELLS BY THE ANTIGANGLIOSIDE MONOCLONAL ANTIBODY AA4

L. S. Zalman, M. A. Brothers, and K. L. Strauss

INHIBITION OF CYTOLYTIC LYMPHOCYTES BY HOMOLOGOUS RESTRICTION FACTOR: LACK OF SPECIES RESTRICTION

IMMUNOPHARMACOLOGY


BINDING OF IgG CONTAINING IMMUNE COMPLEXES TO HUMAN NEUTROPHIL FcγRII AND FcγRIII INDUCES ACTIN POLYMERIZATION BY A PERTUSSIS TOXIN-INSENSITIVE TRANSDUCTION PATHWAY

E. Onello, A. Traynor-Kaplan, L. Sklar, and R. Terkeltaub

MECHANISM OF NEUTROPHIL ACTIVATION BY AN UNOPSONIZED INFLAMMATORY PARTICULATE: MONOSODIUM URATE CRYSTALS INDUCE PERTUSSIS TOXIN-INSENSITIVE HYDROLYSIS OF PHOSPHATIDYLINOSITOL 4,5-BISPHOSPHATE

M. Zanetti, L. Littleri, G. Griffiths, R. Gennaro, and D. Romeo

STIMULUS-INDUCED MATURATION OF PROBACTENECINS, PRECURSORS OF NEUTROPHIL ANTIMICROBIAL POLYPEPTIDES

Continued on page 5
MICROBIAL IMMUNOLOGY

D. Binder and T. M. Kündig  
Antiviral Protection by CD8+ versus CD4+ T Cells: CD8+ T Cells Correlating with Cytotoxic Activity in Vitro Are More Efficient in Antivaccinia Virus Protection Than CD4-Dependent IL

C. C. A. M. Peeters, A.-M. Ten-  
bergen-Meeke, D. E. Even-  
berg, J. T. Poolman, B. J. M.  
Zegers, and G. T. Rijkers  
A Comparative Study of the Immunogenicity of Pneumococcal Type 4 Poly-  
saccharide and Oligosaccharide Tetanus Toxoid Conjugates in Adult Mice

S. H. Pincus, R. L. Cole, E. M.  
Hersh, D. Lake, Y. Masuho,  
P. J. Durda, and J. McClure  
In Vitro Efficacy of Anti-HIV Immunotoxins Targeted by Various Antibodies to the Envelope Protein

M. R. Posner, T. Hideshima, T.  
Cannon, M. Mukherjee, K. H.  
Mayer, and R. A. Byrn  
An IgG Human Monoclonal Antibody that Reacts with HIV-1/GP120, Inhibits Virus Binding to Cells, and Neutralizes Infection

R. M. Poston and R. J. Kurlan-  
der  
P. Vincendeau and S. Dau-  
louède  
Macrophage Cytostatic Effect on Trypanosoma musculi Involves an L-Arginine-Dependent Mechanism

Molecular Biology • Molecular Genetics

J. Caldwell, P. McElhone, J.  
Brokaw, R. Anker, and B. A.  
Pollok  
Co-Expression of Full-Length and Truncated Ig μ-Chains in Human B Lymphocytes Results from Alternative Splicing of a Single Primary RNA Transcript

D. L. Farber and D. W. Sears  
Rat CD16 is Defined by a Family of Class III Fcγ Receptors Requiring Co-Expression of Heteroprotein Subunits

H. S. Fox, B. L. Bond, and T. G.  
Parslow  
Estrogen Regulates the IFN-γ Promoter

U. Gyllensten, M. Sundvall, I.  
Ezcurra, and H. A. Erlich  
Genetic Diversity at Class II DRB Loci of the Primate MHC

N. J. K. Hole, N. Harindranath,  
G. O. Young-Cooper, R. Garcia, and R. G. Mage  
Identification of Enhancer Sequences 3’ of the Rabbit Ig κ L Chain Loci

V. Pascual, K. Victor, D. Lelsz,  
M. B. Spellerberg, T. J. Ham-  
blin, K. M. Thompson, I. Ran-  
den, J. Natvig, J. D. Capra, and F. K. Stevenson  
Nucleotide Sequence Analysis of the V Regions of Two IgM cold Agglutinins: Evidence That the VH4-21 Gene Segment Is Responsible for the Major Cross-Reactive Idiotype

M. A. Robinson  
The Human T Cell Receptor β-Chain Gene Complex Contains at Least 57 Variable Gene Segments: Identification of Six Vβ Genes in Four New Gene Families

E. Stimac, S. Urieli-Shoval, S.  
Kempin, and D. Pious  
Defective HLA DRA X Box Binding in the Class II Transactive Transcription Factor Mutant 6.1.6 and in Cell Lines from Class II Immunodeficient Patients

C. B. Williams, E. P. Blanken-  
horn, K. Bird, G. Levinson, and G. A. Gutman  
Organization and Nucleotide Sequence of the Rat T Cell Receptor β-Chain Complex

Tumor Immunology

K. D. Crossland, V. K. Lee, W.  
Chen, S. R. Riddell, P. D.  
Greenberg, and M. A. Cheever  
T Cells from Tumor-Immune Mice Nonspecifically Expanded in Vitro with Anti-CD3 Plus IL-2 Retain Specific Function in Vitro and Can Eradicate Disseminated Leukemia in Vivo

Continued on page 6
Continued from page 5


D. M. Ojcius, L. M. Zheng, E. C. Sphicas, A. Zychlinsky, and J. D. Young

4421 Molecular and Functional Analysis of Human Natural Killer Cell-Associated Neural Cell Adhesion Molecule (N-CAM/CAD56)

4427 Subcellular Localization of Perforin and Serine Esterase in Lymphokine-Activated Killer Cells and Cytotoxic T Cells by Immunogold Labeling

Letter to the Editor

Author Index

Ad Hoc Reviewers

Author Index to Volume 146

Subject Index to Volume 146