Contents

CELLULAR IMMUNOLOGY

D. M. Howell and E. Martz


T. Tange, A. Ahmed-Ansari, T. Hansen, and H. Y. Tse

R. Rasmussen, K. Takatsu, N. Harada, T. Takahashi, and K. Bottomly

N. L. Carteron, D. Wofsy, and W. E. Seaman


M. Kiyotaki, K. R. Solomon, and N. L. Letvin


C. Knobloch and G. Dennert

689 Nuclear Disintegration Induced by Cytotoxic T Lymphocytes: Evidence against Damage to the Nuclear Envelope of the Target Cell

693 Evidence for an Accessory Role of LFA-1 in Lymphocyte-High Endothelium Interaction during Homing

700 Influence of Major Histocompatibility Complex H-2Ld Class I Molecules on Spleen Colony-Forming Units

709 T Cell-Dependent Hapten-Specific and Polyclonal B Cell Responses Require Release of Interleukin 5

713 Induction of Immune Tolerance during Administration of Monoclonal Antibody to L3T4 Does Not Depend on Depletion of L3T4+ Cells

717 Studies on the Induction of Tolerance to Alloantigens. Ill. Induction of Antibodies Directed against Alloantigen-Specific Delayed-Type Hypersensitivity T Cells by a Single Injection of Allogeneic Lymphocytes via Portal Venous Route

723 Induction and Characterization of Minor Histocompatibility Antigens: Specific Primary Cytotoxic T Lymphocyte Responses In Vitro

730 Herpesvirus alevs Immortalizes In Vitro a CD3+CD4+CD8+ Marmoset Lymphocyte with NK Function

737 Regulation of Lymphocyte Homing. I. Alterations in Homing Receptor Expression and Organ-Specific High Endothelial Venule-Binding of Lymphocytes upon Activation

744 Asialo-GM1-Positive T Killer Cells Are Generated in F1 Mice Injected with Parental Spleen Cells

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

L. Pelletier, R. Pasquier, J. Rossert, M.-C. Vial, C. Mandet, and P. Ducru

J. P. Portanova, R. E. Arndt, and B. L. Kotzin

Y. Tanaka, F. Shirakawa, T. Ota, H. Suzuki, S. Eto, and U. Yamashita

A. C. Bloem, M. A. Chand, I. Doliekkamp, and G. T. Rijkers


750 Autoreactive T Cells in Mercury-Induced Autoimmunity: Ability to Induce the Autoimmune Disease

755 Selective Production of Autoantibodies in Graft-vs-Host-Induced and Spontaneous Murine Lupus: Predominant Reactivity with Histone Regions Accessible in Chromatin

761 Mechanism of Spontaneous Activation of B Cells in Patients with Systemic Lupus Erythematosus: Analysis with Anti-Class II Antibody

768 Functional Properties of Human B Cell Subpopulations Defined by Monoclonal Antibodies HB4 and FMC7

774 Positive Effects of Interferon-α on B Cell-Type Chronic Lymphocytic Leukemia Proliferative Response

Continued on page 4
Continued from page 3

M. D. Lairmore, S. T. Butera, G. N. Callahan, and J. C. DeMartini
J. A. Hoxie, J. L. Rackowski, B. S. Haggarty, and G. N. Gaulton
W. A. Gonnerman, R. F. Mortensen, J. M. Tebo, J. M. Conte, C. A. Leslie, and E. S. Cathcart
M. Rodriguez, C. F. Lucchini, R. J. Clark, T. L. Yaksh, H. Markowitz, and V. A. Lennon
J. E. Slater, H. Boltansky, and M. Kaliner
M. D. Chapman, R. C. Aalberse, M. J. Brown, and T. A. E. Platts-Mills

779 Spontaneous Interferon Production by Pulmonary Leukocytes Is Associated with Lentivirus-Induced Lymphoid Interstitial Pneumonia

786 T4 Endocytosis and Phosphorylation Induced by Phorbol Esters but Not by Mitogen or HIV Infection

796 Dietary Fish Oil Modulation of Macrophage Amyloid P Component Responses in Mice

800 Immunoglobulins and Complement in Demyelination Induced in Mice by Theiler’s Virus

807 IgE Immunotoxins: Effect of an IgE-Ricin A Chain Conjugate on Rat Skin Histamine Content

812 Monoclonal Antibodies to the Major Feline Allergen Fel d I. II. Single Step Affinity Purification of Fel d I, N-Terminal Sequence Analysis, and Development of a Sensitive Two-Site Immunoassay to Assess Fel d I Exposure

819 Membrane-Associated Interleukin 2 Epitopes on the Surface of Human T Lymphocytes

827 Effects of Human Recombinant Tumor Necrosis Factor-α and Interleukin 1 on the Synthesis of Glycosaminoglycan and DNA in Cultured Rat Costal Chondrocytes

832 Keratinocyte-Derived Granulocyte/Macrophage Colony-Stimulating Factor Induces DNA Synthesis by Peritoneal Macrophages

837 Granulocyte-Macrophage Colony-Stimulating Factor Induces Interleukin 1 Production by Human Polymorphonuclear Neutrophils

840 Recombinant Human Tumor Necrosis Factor (α and β) Stimulate Fibroblasts to Produce Hemopoietic Growth Factors In Vitro

845 Pre-B CellGeneration Potentiated by Soluble Factors from a Bone Marrow Stromal Cell Line

853 Expression and the Functional Role of a p70/75 Interleukin 2-Binding Molecule in Human B Cell

859 Murine B Lymphoma Cell Lines Release Functionally Active Interleukin 2 after Stimulation with Staphylococcus aureus

866 Novel Receptor-Mediated Internalization of Interleukin 2 in B Cells

871 Mapping of HLA Epitopes Recognized by H-2-Restricted Cytotoxic T Lymphocytes Specific for HLA using Recombinant Genes and Synthetic Peptides

878 Sodium Fluoride Reveals Multiple Pathways for Regulation of Surface Expression of the C3b/C4b Receptor (CR1) on Human Polymorphonuclear Leukocytes

885 Polymorphism of the HLA-D Region in American Blacks: A DR3 Haplotype Generated by Recombination

Continued on page 5
R. M. Brown and K. A. Krolick 893 Selective Idiotype Suppression of an Adoptive Secondary Anti-Acetylcholine Receptor Antibody Response by Immunotoxin Treatment before Transfer

J. A. Schifferli, Y. C. Ng, J. Estreicher, and M. J. Walport 899 The Clearance of Tetanus Toxoid/Anti-Tetanus Toxoid Immune Complexes from the Circulation of Humans: Complement and Erythrocyte Complement Receptor 1-Dependent Mechanisms


IMMUNOPHARMACOLOGY

F. Di Virgilio, T. H. Steinberg, J. A. Swanson, and S. C. Silvester 915 Fura-2 Secretion and Sequestration in Macrophages: A Blocker of Organic Anion Transport Reveals That These Processes Occur via a Membrane Transport System for Organic Anions

D. T. Harris, W. J. Kozumbo, J. E. Testa, P. A. Cerutti, and J.-C. Cerottini 921 Molecular Mechanisms Involved in T Cell Activation. III. The Role of Extracellular Calcium in Antigen-Induced Lymphokine Production and Interleukin 2-Induced Proliferation of Cloned Cytotoxic T Lymphocytes

M. I. Luster, D. R. Germolec, G. Clark, G. Wiegand, and G. J. Rosenthal 928 Selective Effects of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin and Corticosteroid on In Vitro Lymphocyte Maturation

A. Lerner, B. Jacobson, and R. A. Miller 936 Cyclic AMP Concentrations Modulate Both Calcium Flux and Hydrolysis of Phosphatidylinositol Phosphates in Mouse T Lymphocytes

MICROBIAL IMMUNOLOGY


S. Keay, L. Rasmussen, and T. C. Merigan 944 Syngeneic Monoclonal Anti-Idiotype Antibodies That Bear the Internal Image of a Human Cytomegalovirus Neutralization Epitope

D. J. Fast, P. M. Schlievert, and R. D. Nelson 949 Nonpurulent Response to Toxic Shock Syndrome Toxin 1-Producing Staphylococcus aureus: Relationship to Toxin-Stimulated Production of Tumor Necrosis Factor

F. J. Swartzwelder, P. K. Barua, B. Albini, and M. W. Stinson 954 Heart-Reactive Antibodies in Rabbit anti-Streptococcus mutans Sera Fail to Cross-React with Streptococcus mutans

C. J. Czuprynski, J. F. Brown, K. M. Young, A. J. Cooley, and R. S. Kurtz 962 Effects of Murine Recombinant Interleukin 1α on the Host Response to Bacterial Infection

F. Y. Liew, J. A. Schmidt, D. S. Liu, S. Millott, M. T. Scott, J. S. Dhaliwal, and S. L. Croft 969 Suppressive Substance Produced by T Cells from Mice Chronically Infected with Trypanosoma cruzi. II. Partial Biochemical Characterization

MOLECULAR BIOLOGY • MOLECULAR GENETICS

Z. Walther, L. T. May, and P. B. Sehgal 974 Transcriptional Regulation of the Interferon-β2/BSF-2/Hepatocyte-Stimulating Factor Gene in Human Fibroblasts by Other Cytokines

S. H. Zuckerman, R. D. Schreiber, and P. Marder 978 Reactivation of Class II Antigen Expression in Murine Macrophage Hybrids

L. A. Soper, M. B. Stein, and H. C. Passmore 984 The Eα Hot Spot of Recombination in Wild-Derived Natural Recombinant MHC Haplotypes: Cross-over Site Mapping and the Identification of a 1.0-kb Eα Deletion in the P and w/4 Haplotypes

TUMOR IMMUNOLOGY


Author index 1003