Contents

CELLULAR IMMUNOLOGY

D. M. Howell and E. Martz

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


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

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

700 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. III. 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 atelis 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. Druet

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

766 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
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

Continued from page 3

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

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

D. R. Kaplan, C. A. Bergmann, D. Gould, and B. Landmeler
T. Ikebe, M. Hirata, and T. Koga
J. A. Chodakewitz, T. S. Kupper, and D. L. Coleman
A. Lindemann, D. Riedel, W. Oster, S. C. Meuer, D. Blohm, R. H. Mertelsmann, and F. Herrmann
J. R. Zucaili, H. E. Broxmeyer, M. A. Gross, and C. A. Dinarello
K. S. Landreth and K. Dorschkind
O. Saiki, T. Tanaka, S. Doi, and S. Kishimoto
E. Walker, T. Leemhuis, and W. Roeder

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 Cell Generation Potentiared 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

IMMUNOCHEMISTRY

K. Okada and E. J. Brown

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
Selective Idiotypic Suppression of an Adoptive Secondary Anti-Acetylcholine Receptor Antibody Response by Immunotoxin Treatment before Transfer

The Clearance of Tetanus Toxid/Anti-Tetanus Toxoid Immune Complexes from the Circulation of Humans: Complement and Erythrocyte Complement Receptor 1-Dependent Mechanisms

The B Cell-Associated CD37 Antigen (gp40-52): Structure and Subcellular Expression of an Extensively Glycosylated Glycoprotein

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

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

Selective Effects of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin and Corticosteroid on In Vitro Lymphocyte Maturation

Cyclic AMP Concentrations Modulate Both Calcium Flux and Hydrolysis of Phosphatidylinositol Phosphates in Mouse T Lymphocytes

Human Monoclonal Antibody Directed against gag Gene Products of the Human Immunodeficiency Virus

Syngeneic Monoclonal Anti-Idiotype Antibodies That Bear the Internal Image of a Human Cytomegalovirus Neutralization Epitope

Nonpurulent Response to Toxic Shock Syndrome Toxin 1-Producing Staphylococcus aureus: Relationship to Toxin-Stimulated Production of Tumor Necrosis Factor

Heart-Reacting Antibodies in Rabbit Anti-Streptococcus mutans Sera Fail to Cross-React with Streptococcus mutans

Effects of Murine Recombinant Interleukin 1α on the Host Response to Bacterial Infection

Suppressive Substance Produced by T Cells from Mice Chronically Infected with Trypanosoma cruzi. II. Partial Biochemical Characterization

Transcriptional Regulation of the Interferon-β/BSF-2/Hepatocyte-Stimulating Factor Gene in Human Fibroblasts by Other Cytokines

Reactivation of Class II Antigen Expression in Murine Macrophage Hybrids

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 Ul4 Haplotypes

T11/CD2 Activation of Cloned Human Natural Killer Cells Results in Increased Conjugate Formation and Exocytosis of Cytolytic Granules