Contents

COMMUNICATION

L. L. Lanier, S. Cwirla, and J. H. Phillips 3375 Genomic Organization of T Cell γ Genes in Human Peripheral Blood Natural Killer Cells

CELLULAR IMMUNOLOGY

L. Shen, P. M. Guyre, C. L. Anderson, and M. W. Fanger 3378 Heteroantibody-Mediated Cytotoxicity: Antibody to the High Affinity Fc Receptor for IgG Mediates Cytotoxicity by Human Monocytes that Is Enhanced by Interferon-γ and Is Not Blocked by Human IgG

S. A. N. Goldstein and M. F. Mescher 3383 Cell-Sized, Supported Artificial Membranes (Pseudocytes): Response of Precursor Cytotoxic T Lymphocytes to Class I MHC Proteins

K.-H. Kim, R. A. Shivdasani, and D. W. Thomas 3393 Two Roles for la in Antigen-Specific T Lymphocyte Activation

D. W. Thomas and M. J. Solvay 3401 T Lymphocyte Recognition of Insolubilized Peptide Antigen

D. H. Sherr and S.-T. Ju 3406 Idiotype-Specific Helper Cells (B2) Express Immunoglobulin Markers and Employ T Cell Function-Associated Molecules

N. L. Gutstein and D. Wofsy 3414 Administration of F(ab')2 Fragments of Monoclonal Antibody to L3T4 Inhibits Humoral Immunity in Mice without Depleting L3T4 Cells

A. Peres, F. P. Nestel, T. A. See-mayer, and W. S. Lapp 3420 The Effects of Polynosinic-Polycytidylic Acid (p1:C) on the Graft-vs-Host (GVH) Reaction. II. Increased NK-Mediated Rejection of C57BL/6 Lymphocytes by [C57BL/6 × A]F1 Mice

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

R. M. McCarron, M. Spatz, O. Kempski, R. N. Hogan, L. Muehl, and D. E. McFarlin 3428 Interaction Between Myelin Basic Protein-Sensitized T Lymphocytes and Murine Cerebral Vascular Endothelial Cells

J. Antel, M. Bania, A. Noronha, and S. Neely 3436 Defective Suppressor Cell Function Mediated by T8+ Cell Lines from Patients with Progressive Multiple Sclerosis

M. Ohta, K. Ohta, F. Mori, E. Nishiguchi, H. Nishitani, and T. Saida 3440 Sera from Patients with Multiple Sclerosis React with Human T Cell Lymphotropic Virus-I GAG Proteins But Not ENV Proteins—Western Blotting Analysis

E. A. Goldmuntz, C. F. Brosnan, and W. T. Norton 3444 Prazosin Treatment Suppresses Increased Vascular Permeability in Both Acute and Passively Transferred Experimental Autoimmune Encephalomyelitis in the Lewis Rat

C. F. Brosnan, H. J. Sacks, R. C. Goldschmidt, E. A. Goldmuntz, and W. T. Norton 3451 Prazosin Treatment During the Effector Stage of Disease Suppresses Experimental Autoimmune Encephalomyelitis in the Lewis Rat

K. Dorshkind, K. A. Denis, and O. N. Witte 3457 Lymphoid Bone Marrow Cultures Can Reconstitute Heterogeneous B and T Cell-Dependent Responses in Severe Combined Immunodeficient Mice

D. MacNeil, G. Krystal, M. Fair-hurst, and J. D. Waterfield 3464 Correction of Defective IL 3 Responses of T Lymphocytes from Autoimmune Mice

Continued on page 4
R. D. R. Camp, N. J. Fincham, P. M. Cunningham, M. W. Greaves, J. Morris, and A. Chu

J. Müller-Guemheim, C. Sattini, P. Sondermeyer, and R. G. Crystal

M. H. Nahm, R. M. Blaese, M. J. Crain, and D. E. Briles

3469 Psoriatic Skin Lesions Contain Biologically Active Amounts of an Interleukin 1-Like Compound

3475 Compartmentalized Activation of the Interleukin 2 Gene by Lung T Lymphocytes in Active Pulmonary Sarcoidosis

3484 Patients with Wiskott-Aldrich Syndrome have Normal IgG2 Levels

---

Cytokines • Mediators • Regulatory Molecules

L. M. Green, J. L. Reade, C. F. Ware, P. E. Devlin, C.-M. Liang, and J. J. Devlin


A. Dupuy d'Angeac, M. Monis, and T. René

S. H. Fincus, E. A. Whitcomb, and C. A. Dinarello

Y.-P. Huang, P. A. Miescher, and R. H. Zuber

K. Frei, S. Bodmer, C. Schwerdel, and A. Fontana

P. A. de Mooerloose, J. A. Hamilton, W. A. Sewell, M. A. Vadás, and I. R. Mackay

J. J. Mond, J. Carman, C. Sarma, J. Ohara, and P. D. Finkelman

J. H. Holda, T. Maier, and H. N. Claman

N. Takahashi, G. R. Mundy, and G. D. Roodman

J. K. Steele, A. T. Stammers, A. Chan, and J. G. Levy

3488 Cytotoxic Lymphokines Produced by Cloned Human Cytotoxic T Lymphocytes. II. A Novel CTL-Produced Cytotoxin that Is Antigenically Distinct from Tumor Necrosis Factor and a-Lymphotoxin

3494 Requirement for Three Distinct Lymphocytes for the Induction of Cytotoxic T Lymphocytes from Thymocytes

3501 Mitogenic Effect of PMA + IL 2 on Subpopulations of Corticoresistant Thymocytes

3509 Interaction of IL 1 and TPA in Modulation of Eosinophil Function

3515 The Interleukin 2 Secretion Defect in Vitro in Systemic Lupus Erythematosus Is Reversible in Rested Cultured T Cells

3521 Astrocyte-Derived Interleukin 3 as a Growth Factor for Microglia Cells and Peritoneal Macrophages

3528 Pertussigen in Vivo Enhances Antigen-Specific Production in Vitro of Lymphokine that Stimulates Macrophage Procoagulant Activity and Plasminogen Activator

3534 Interferon-γ Suppresses B Cell Stimulation Factor (BSF-1) Induction of Class II MHC Determinants on B Cells

3538 Natural Suppressor Activity in Graft-vs-Host Spleen and Normal Bone Marrow Is Augmented by IL 2 and Interferon-γ

3544 Recombinant Human Interferon-γ Inhibits Formation of Human Osteoclast-Like Cells

3550 Characterization of an Anti-Idiotypic T Cell Hybridoma Involved in the Regulation of the Immune Response to the P815 Mastocytoma

---

Immunochemistry

M. A. Vega, R. Bragado, P. Iványi, J. L. Pélaz, and J. A. López de Castro

J. S. van der Zee, P. van Swieten, and R. C. Aalberse

D. A. Blomster-Hautamaa, R. P. Novick, and P. M. Schievart


3557 Molecular Analysis of a Functional Subtype of HLA-B27: A Possible Evolutionary Pathway for HLA-B27 Polymorphism

3566 Serologic Aspects of IgG4 Antibodies. II. IgG4 Antibodies Form Small, Nonprecipitating Immune Complexes Due to Functional Monovalency

3572 Localization of Biological Functions of Toxic Shock Syndrome Toxin-1 by Use of Monoclonal Antibodies and Cyanogen Bromide-Generated Toxin Fragments

3577 Expression of Specific Binding Sites on Candida with Functional and Antigenic Characteristics of Human Complement Receptors

---

Immunopharmacology

R. H. Weisbart, D. W. Golde, and J. C. Gasson

G. Marone, S. Poto, D. Celestino, and S. Bonini

3584 Biosynthetic Human GM-CSF Modulates the Number and Affinity of Neutrophil f-Met-Leu-Phe Receptors

3588 Human Basophil Releasability. III. Genetic Control of Human Basophil Releasability

Continued on page 5
MICROBIAL IMMUNOLOGY

E. J. Pearce, S. L. James, J. Dalton, A. Barrall, C. Ramos, M. Strand, and A. Sher 3593
P. Omer-Ali, A. I. Magee, C. Kelly, and A. J. G. Simpson

A. J. Magee, C. Kelly, and A. J. G. Simpson

Handman, L. F. Schnur, T. W. Spithill, and G. F. Mitchell 3601
T. N. Kirkland, D. E. Colwell, S. M. Michalek, J. R. McGhee, and E. J. Ziegler

M. R. Hidore and J. W. Murphy
D. S. Strayer, M. Horowitz, and J. L. Leibowitz
M. M. Maimone, L. A. Morrison, V. L. Braciale, and T. J. Braciale

MOLECULAR BIOLOGY • MOLECULAR GENETICS

E. J. Kovacs, J. J. Oppenheim, and H. A. Young 3649
S. E. Heckford, E. P. Gelmann, C. L. Agnar, S. Jacobson, S. Wong, and L. A. Matis 3652
L. Justement, Z. Chen, L. Harris, J. Ransom, V. Sandoval, C. Smith, D. Rennick, N. Roehm, and J. Cambier 3664
A. M. Wan, P. Ennis, P. Parham, and N. Holmes 3671

Two Interleukin 1 Genes in the Mouse: Cloning and Expression of the cDNA for Murine Interleukin 1β
Induction of c-fos and c-myc Expression in T Lymphocytes After Treatment with Recombinant Interleukin 1-α
Distinct Signals Are Required for Proliferation and Lymphokine Gene Expression in Murine T Cell Clones
BSF 1 Induces Membrane Protein Phosphorylation But Not Phosphoinositide Metabolism, Ca2+ Mobilization, Protein Kinase C Translocation, or Membrane Depolarization in Resting Murine B Lymphocytes
The Primary Structure of HLA-A32 Suggests a Region Involved in Formation of the Bw4/Bw6 Epitopes

TUMOR IMMUNOLOGY

K. Ohnishi and B. Bonavida 3681
J. M. Pesando, P. Hoffman, and M. Abed 3689
Announcements 3696
Author Index 3698

Eradication of Disseminated Murine Leukemia by Treatment with High-Dose Interleukin 2
Specific Lymphocyte-Target Cell Conjugate Formation Between Tumor-Specific Helper T Cell Hybridomas and IA-Bearing RCS Tumors and IE-Bearing Allogeneic Cells. I. Role of Ia and Both L3T4 and LFA-1 Antigens in Recognition/Binding
Antibody-Induced Antigenic Modulation is Antigen Dependent: Characterization of 22 Proteins on a Malignant Human B Cell Line