## Contents

### COMMUNICATIONS

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Soderstrom, A. Enskog, B. E. Samuelsson, and B. Cedergren</td>
<td>Immunoglobulin Subclass (IgG3) Restriction of Anti-P and Anti-Pk Antibodies in Patients of the Rare P Blood Group</td>
</tr>
<tr>
<td>M. Ramanadham, S. V. S. Gollapudi, and M. Kern</td>
<td>Splenic B Cells from CBA/N Mice Acquire Responsiveness to Anti-Immunoglobulin after a Brief Treatment with Pronase</td>
</tr>
<tr>
<td>E. M. Benson, R. B. Colvin, and P. S. Russell</td>
<td>Induction of f4 Antigens in Murine Renal Transplants</td>
</tr>
</tbody>
</table>

### CELLULAR IMMUNOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. Wu and D. W. Thomas</td>
<td>Syngeneic Responses by Murine Thymocytes: A Role for Non-MHC and Non-Mis Genes</td>
</tr>
<tr>
<td>L. S. Wicker, G. Guelde, I. Scher, and J. J. Kenny</td>
<td>Regulation of T15 Idiotypic Dominance. II. Genes Unlinked to the Igh Locus Regulate T15 Dominance of the Secondary Adoptive Transfer Response to Phosphocholine</td>
</tr>
<tr>
<td>S. K. Smyk, M. K. McNamar, K. S. Gleason, and H. Kohler</td>
<td>Differences in T15 Expression of Primary and Secondary Anti-PC Responses with T Cells from T15+ and T15- Donors</td>
</tr>
<tr>
<td>C. W. Pierce, C. M. Sorensen, and J. A. Kapp</td>
<td>T. Cell Subsets Regulating Antibody Responses to 1-Glutamic Acid 80,-Alanine30-α-Tyrosine10 (GAT) in Virgin and Immunized Nonresponder Mice</td>
</tr>
<tr>
<td>C. G. Orosz and R. M. Ferguson</td>
<td>Suppression of In Vitro CML Generation by Alloactivated Lymphocytes: Analysis of Antigen-Nonspecific Suppressive Mechanisms</td>
</tr>
<tr>
<td>A. Velardi, C. E. Grossi, and M. D. Cooper</td>
<td>A Large Subpopulation of Lymphocytes with T Helper Phenotype (Leu 3/t4+) Exhibits the Property of Binding to NK Cell Targets and Granular Lymphocyte Morphology</td>
</tr>
<tr>
<td>S. H. Gromkowski, W. Heagy, and E. Martz</td>
<td>Blocking of CTL-Mediated Killing by Monoclonal Antibodies to LFA-1 and Lyt-2,3. ii. Evidence that Traspin Pretreatment of Target Cells Removes a Non-H-2 Molecule Important in Killing</td>
</tr>
<tr>
<td>S. S. Graves, D. L. Evans, and D. L. Dawe</td>
<td>Antiprotozoan Activity in Nonspecific Cytotoxic Cells (NCC) from the Channel Catfish (Ictalurus Punctatus)</td>
</tr>
<tr>
<td>R. M. DeKruyff, C. Clayberger, and H. Cantor</td>
<td>Monoclonal Helper T Cells Induce B Cell Responses to T-Independent Antigens: Antigen-Specific T Cells Are Directly Stimulated by Activated B Cells in the Absence of Antigen</td>
</tr>
<tr>
<td>M. G. Goodman and W. O. Weigle</td>
<td>Dissociation of Inductive from Differentiative Signals Transmitted by C8-Substituted Guanine Ribonucleosides to B Cells from SJL Mice</td>
</tr>
<tr>
<td>F. W. Klotz, W. E. Gathings, and M. D. Cooper</td>
<td>Development and Distribution of B Lineage Cells in the Domestic Cat: Analysis with Monoclonal Antibodies to Cat λ- and Heterologous Anti-α Antibodies</td>
</tr>
<tr>
<td>K. M. Jogleshall and J. C. Cambier</td>
<td>B. Cell Activation. VI. Effects of Exogenous Diglyceride and Modulators of Phospholipid Metabolism Suggest a Central Role for Diacylglycerol Generation in Transmembrane Signaling by mig</td>
</tr>
</tbody>
</table>

*Continued on page 4*
Continued from page 3


M. K. Jenkins, C. Walkerbaun, and S. D. Miller

T. Tadakuma, T. Yasuda, A. Tamura, S. Saito, T. Tsumita, and K. Saito

K. D. Cooper, P. Fox, G. Neises, and S. I. Katz


A. Winkelstein, R. S. Klein, T. L. Evans, B. W. Dixon, W. L. Holder, and L. D. Weaver

M. T. Lotze, L. W. Frana, and S. D. Miller

M. V. Hobbs, G. Rhodes, D. A. Carson, J. Valbrug, and L. Z. Coker

M. T. Lotze, L. W. Frana, and S. D. Miller

M. K. Jenkins, C. Walten

S. H. Gromkowski, A. M. Krenzy, E. Martz, and S. J. Barakoff

T-T Cell Interaction in the Induction of Delayed-Type Hypersensitivity (DTH) Responses. Vaccinia Virus-Active Helper T Cell Activity Involved in Enhanced In Vitro Induction of DTH Responses and Its Application to Augmentation of Tumor-Specific DTH Responses

Immunoregulatory Pathways in Adult Responder Mice. II. Regulation of Delayed-Type Hypersensitivity Responses by GAT-Specific Suppressor Factors Present in GAT-Tolerant Adult Responder Mice

Analysis of the Mode of Antigen Presentation Required for Triggering of T Cell Proliferation by Using Various Azobenzeneearsonate-Tyrosine Derivatives

Effects of Ultraviolet Radiation on Human Epidermal Cell Antigen Presentation: Initial Depression of Langerhans Cell-Dependent Function Is Followed by the Appearance of T6+ Dr+ Cells that Enhance Epidermal Alloantigen Presentation

Membrane Vesicles Shed by Murine Melanoma Cells Selectively Inhibit the Expression of Ia Antigen by Macrophages

Inhibition of Recombinant Interferon-γ Induced Ia Antigen Expression by Shed B16 F10 Melanoma Cell Membrane Vesicles

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

A. Winkelstein, R. S. Klein, T. L. Evans, B. W. Dixon, W. L. Holder, and L. D. Weaver

M. T. Lotze, L. W. Frana, S. O. Sharrow, R. J. Robb, and S. A. Rosenberg

N. Wakisugi and J.-L. Virelizier


P. D. Van Helden

J. Rauch, H. Massicotte, and H. Tannenbaum

Y. Murakawa, S. Takada, Y. Ueda, N. Suzuki, T. Hoshino, and T. Sakane

F. J. Dumont, R. C. Haberseft, and L. Z. Coker

S. A. Ahmed, M. J. Dauphinee, and N. Talal

G. Rhodes, D. A. Carson, J. Valbruch, R. Houghten, and J. H. Vaughan

F. A. Levi, C. Canon, J. P. Blum, M. Mechkouri, A. Reinberg, and G. Mathe

M. V. Robbs, E. L. Morgan, N. L. Baker, and W. O. Weigle

H. T. Petrie, D. L. Smith, L. W. Klassen, and H. D. Kay


S. H. Gromkowski, A. M. Krenzy, E. Martz, and S. J. Barakoff

Defective In Vitro T Cell Colony Formation in the Acquired Immunodeficiency Syndrome

In Vivo Administration of Purified Human Interleukin 2. I. Half-Life and Immunologic Effects of the Jurkat Cell Line-Derived Interleukin 2

Defective IFN-γ Production in the Human Neonate. I. Dysregulation rather than Intrinsic Abnormality

Defective IFN-γ Production in the Human Neonate. II. Role of Increased Sensitivity to the Suppressive Effects of Prostaglandin E

Potential Z-DNA-Forming Elements in Serum DNA from Human Systemic Lupus Erythematosus

Hybridoma Anti-DNA Autoantibodies from Patients with Rheumatoid Arthritis and Systemic Lupus Erythematosus Demonstrate Similar Nucleic Acid Binding Characteristics

Characterization of T Lymphocyte Subpopulations Responsible for Deficient Interleukin 2 Activity in Patients with Systemic Lupus Erythematosus

Subsets of Lyt-2+ Cells Defined by Differential Expression of the 9F3 Antigen: Alterations in Mice of the 1pr/pr Genotype

Effects of Short-Term Administration of Sex Hormones on Normal and Autoimmune Mice

Human Immune Responses to Synthetic Peptides from the Epstein-Barr Virus Nuclear Antigen

Circadian and/or Circahemidian Rhythms in Nine Lymphocyte-Related Variables from Peripheral Blood of Healthy Subjects

Regulation of Antibody Responses by Rheumatoid Factor. I. Polyclonal Activation of Human B Cells by Rheumatoid Factor-Containing Preparations from Seropositive Plasma

Inhibition of Human Cytotoxic T Lymphocyte Activity In Vitro by Autologous Peripheral Blood Granulocytes

Immunoregulatory T Cell Circuits in Man: Identification of a Distinct T Cell Subpopulation of the Helper/Inducer Lineage that Amplifies the Development of Alloantigen-Specific Suppressor T Cells

Functional Distinctions between the LFA-1, LFA-2, and LFA-3 Membrane Proteins on Human CTL Are Revealed with Trypsin-Pretreated Target Cells

Continued on page 5
The Human Thymic Microenvironment: Phenotypic Characterization of Hassall's Bodies with the Use of Monoclonal Antibodies
Characterization of In Vivo-Activated Allospecific T Lymphocytes Propagated from Human Renal Allograft Biopsies Undergoing Rejection

OKT3 Monoclonal Antibody Induces Production of Colony-Stimulating Factor(s) for Granulocytes and Macrophages in Cultures of Human T Lymphocytes and Adherent Cells

Suppression of Human NK Cell Cytotoxicity by an MLC-Generated Cell Population

Cytofluorometric Isolation of 1937, an Ia Antigen-Bearing Variant of the Ia Negative Human Monocytic Cell Line U937

Characterization of Mononuclear Phagocyte Subpopulations in the Human Lung by using Monoclonal Antibodies: Changes in Alveolar Macrophage Phenotype Associated with Pulmonary Sarcoidosis

Biochemical Models of γ-Interferon Action: Altered Expression of Transferrin Receptor on Murine Peritoneal Macrophages after Treatment In Vitro with PMA or A23187

Stimulation of In Vitro Immunoglobulin Production by α-Interferons

M1F-Like Activity of Natural and Recombinant Human γ-Interferon and Their Neutralization by Monoclonal Antibody

Human Alloreactive CTL Clones: Loss and Reacquisition of Specific Cytolytic Activity Can Be Regulated by "Recombinant" Interleukin 2

Effect of Wheat Germ Agglutinin on the Interleukin Pathway of Human T Lymphocyte Activation

Reversal of Phorbol Ester-Mediated Reduction of Cloned T Lymphocyte Cytolysis by Interleukin

Activation of Human Thymocytes Via the 50KD T11 Sheep Erythrocyte Binding Protein Induces the Expression of Interleukin 2 Receptors on both T3+ and T3− Populations

Reconstitution of Nude Mouse T Cell Function In Vivo: IL 2-Independent Effect of Human T Cells

Studies on the Synthesis and Secretion of Interleukin 1. I. A 33,000 Molecular Weight Precursor for Interleukin 1

Interleukin 1 Production by the Human Monocyte Cell Line U937 Requires a Lymphokine Induction Signal Distinct from Interleukin 2 or Interferons

Role of Interleukin 1 in Experimental Pulmonary Granuloma in Mice

Strain Dependence of Muramyl Dipeptide-Induced LAF (IL 1) Release by Murine-Adherent Peritoneal Cells

T Cell-Derived B Cell Growth Factor(s) Can Induce Stimulation of both Resting and Activated B Cells

Identification and Characterization of a B Cell Growth Inhibitory Factor (BIF) on BCGF-Dependent B Cell Proliferation

Purification and Physicochemical Characterization of Murine T Cell Replacing Factor (TRP)

A. "Lymphokine-Like" Soluble Product that Induces Proliferation and Maturation of B Cells Appears in the Serum-Free Supernatant of a T Cell Hybridoma as a Consequence of Mycoplasmal Contamination

Lymphokine-Mediated Induction of Cytolytic Activity in a T Cell Hybridoma Suppressor T Lymphocyte Induction by a Factor Released from Cultured Blastocysts
Continued from page 5

IMMUNOCHEMISTRY

M. R. van Schravendijk, W. E. Biddison, A. E. Berger, and J. E. Coligan 410 Comparative Structural Analysis of HLA-A3 Antigens Distinguishable by Cytotoxic T Lymphocytes: Variant E1


S. Nishinarita, J. L. Claffin, and R. Lieberman 436 T15 D Region Germ Line Amino Acid Sequences Distinguished by Monoclonal Anti-Idiotypic Antibody


C. L. Anderson, J. M. Spence, T. S. Edwards, and J. Nus-bachner 457 Identification of Epitopes Associated with hCG and the β-hCG Carboxyl Terminus by Monoclonal Antibodies Produced against a Synthetic Peptide

T. S. Edgington, L. K. Curtiss, and E. F. Plow 465 Characterization of a Polyclonal Antibody Directed against the IgG Fc Receptor of Human Mononuclear Phagocytes

P. Perez, J. A. Bluestone, D. A. Stephany, and D. M. Segal 471 A Linkage between the Hemostatic and Immune Systems Embodied in the Fibrinolytic Release of Lymphocyte Suppressive Peptides

J. Couderc, M. D. Kazatchkine, M. Ventura, H. T. Duc, F. Maillet, N. Thobie, and P. Li-acopoulou 478 Quantitative Measurements of the Specificity and Kinetics of Conjugate Formation between Cloned Cytotoxic T Lymphocytes and Splenic Target Cells by Dual Parameter Flow Cytometry

J. Tschopp, E. R. Podack, and H. J. Muller-Eberhard 486 Activation of the Human Classical Complement Pathway by a Mouse Monoclonal Hybrid IgG1-2a Monovalent Anti-TNP Antibody Bound to TNP-Conjugated Cells

T. Borsos and A. Circolo 492 Binding and Activation of Hemolytic Complement by IgG Antibodies of Different Hapten Specificity

J. Weis, S. K. Law, R. P. Levine, and P. F. Cleary 495 The Membrane Attack Complex of Complement C5b-8 Complex as Accelerator of C9 Polymerization

S. I. Rosenfeld, D. E. Jenkins, Jr., and J. P. Leddy 500 Resistance to Phagocytosis by Group A Streptococci: Failure of Deposited Complement Opsonins to Interact with Cellular Receptors


Normal Number and Function of CR1 on Affected Erythrocytes of Patients with Paroxysmal Nocturnal Hemoglobinuria

IMMUNOPHARMACOLOGY

W. T. Lee and D. H. Conrad 512 The Murine Lymphocyte Receptor for IgE. III. Use of Chemical Cross-Linking Reagents to Further Characterize the B Lymphocyte Fc Receptor

L. B. Schwartz 526 Monoclonal Antibodies against Human Mast Cell Tryptase Demonstrate Shared Antigenic Sites on Subunits of Tryptase and Selective Localization of the Enzyme to Mast cells


Continued on page 7
Continued from page 6

J. Farnam, J. A. Grant, M. A. Lett-Brown, C. Hunt, D. O. Thueson, and P. G. Giclas

A. S. Heiman and F. T. Crews

N. E. Reiner and C. J. Malemud

M. D. P. Boyle, M. J. P. Lawman, A. P. Gee, and M. Young

541 Complement- and IgE-Mediated Release of Histamine from Basophils In Vitro. V. Differential Effects of Drugs Modulating Arachidonic Acid Metabolism

548 Characterization of the Effects of Phorbol Esters on Rat Mast Cell Secretion

556 Arachidonic Acid Metabolism by Murine Peritoneal Macrophages Infected with Leishmania donovani: In Vitro Evidence for Parasite-Induced Alterations in Cyclooxygenase and Lipoxygenase Pathways

564 Nerve Growth Factor: A Chemotactic Factor for Polymorphonuclear Leukocytes In Vivo

MICROBIAL IMMUNOLOGY

H. Naher, U. Sperling, and H. Hahn

Y. Fujiyama, K. Kobayashi, S. Senda, Y. Benno, T. Bamba, and S. Hosoda

J. W. Murphy and R. L. Mosley


N. M. Parish, W. I. Morrison, and T. W. Pearson

L. Sitz, A. Althage, H. Hengartner, and R. M. Zinkernagel

D. M. Lopez, V. Charyulu, and R. D. Paul


569 H-2K-Restricted Granuloma Formation by Ly-2+ T Cells in Anti-Bacterial Protection to Facultative Intracellular Bacteria

573 A Novel IgA Protease from Clostridium sp. Capable of Cleaving IgA1 and IgA2 A2m(1) Allotype but not IgA2 A2m(2) Allotype Paraproteins

577 Regulation of Cell-Mediated Immunity in Cryptococcosis. III. Characterization of Second-Order T Suppressor Cells [Ts2]

585 Characterization of Monoclonal Antibodies to Treponema pallidum

Identification of an Antigen Specific to Trypanosoma congolense by using Monoclonal Antibodies

Natural Killer Cells vs Cytotoxic T Cells in the Peripheral Blood of Virus-Infected Mice

B Cell Subsets in Spleens of Balb/c Mice: Identification and Isolation of MMTV-Expressing and MMTV-Responding Subpopulations

Mechanism of Recovery from Acute Virus Infection. I. Role of T Lymphocytes in the Clearance of Lymphocytic Choriomeningitis Virus from Mice

Recognition of Influenza Virus Hemagglutinin by Subtype-Specific and Cross-Reactive Proliferative T Cells: Contribution of HA1 and HA2 Polypeptide Chains

MOLECULAR GENETICS • MOLECULAR BIOLOGY

T. Shiroishi, G. A. Evans, E. Appella, and K. Ozato

M. J. Rogers, R. N. Germain, J. Hare, E. Long, and D. S. Singer

F. Levine, H. A. Erlich, B. Mach, and D. Pious

A. S. Whitehead, H. R. Colten, C. C. Chang, and R. DeMars

623 In Vitro Mutagenesis of a Mouse MHC Class I Gene for the Examination of Structure-Function Relationships

630 Comparison of MHC Genes among Distantly Related Members of the Genus Mus

637 Transcriptional Regulation of HLA Class II and Invariant Chain Genes

641 Localization of the Human MHC-Linked Complement Genes between HLA-B and HLA-DR by using HLA Mutant Cell Lines

TUMOR IMMUNOLOGY

S. Muller and R. G. Hoover

Y. Ibayashi, T. Uede, T. Uede, and K. Kikuchi

644 T Cells with Fc Receptors in Myeloma Suppression of Growth and Secretion of MOPC-315 by Tα Cells

648 Functional Analysis of Mononuclear Cells Infiltrating into Tumors: Differential Cytotoxicity of Mononuclear Cells from Tumors of Immune and Nonimmune Rats

Obituary

Announcements

Author Index