Contents

CELLULAR IMMUNOLOGY

M. A. Aldo-Benson and M. D. Benson 2390 SSA Suppression of Immune Response in Vitro: Evidence for an Effect on T Cell-Macrophage Interaction
J. C. Lee, A. J. Hapel, and J. N. Ihle 2393 Constitutive Production of a Unique Lymphokine (IL 3) by the WEHI-3 Cell Line
J. Y. Niederkorn and J. W. Streilein 2470 Induction of Anterior Chamber-Associated Immune Deviation (ACAID) by Allogeneic Intraocular Tumors Does Not Require Splenic Metastases
K-C. Lee and M. Wong 2487 Functional Heterogeneity of Culture-Grown Bone Marrow-Derived Macrophages. II. Lymphokine Stimulation of Antigen-Presenting Function
J. W. Moorhead and M-S. Sy 2533 Antigen Receptors on Murine T Lymphocytes in Contact Sensitivity. II. Preparation and Characterization of Syngeneic Anti-Idiotype Serum against DNFB-Sensitized T Cells
K. Takatsu, Y. Sano, N. Hoshimoto, S. Tomita, and T. Hamaoka 2575 Acceptor Site(s) for T Cell-Replacing Factor (TRF) on B Lymphocytes. I. TRF-Substituting Activity of Anti-TRF Accepter Site(s) Antibody in the Triggering of B Cells
A. Tominaga, K. Takatsu, and T. Hamaoka 2581 Acceptor Site(s) for T Cell-Replacing Factor (TRF) on B Lymphocytes. II. Activation of B Cells by Cross-Linkage or Aggregation of the TRF Acceptor Molecule
S. Kyoizumi, N. Noro, K. Teshigawara, S. Sakaguchi, and T. Masuda 2586 A Cloned Cell Line, Mk,, Possessing Ia Antigens and Accessory Cell Activity
E. Eerola, O. Lassila, D. G. Gilmour, and A. Toivanen 2652 Induction of B Cell Differentiation in Vitro by Bursal Epithelium
J. M. Williams, H. M. Shapiro, E. L. Milford, and T. B. Strom 2676 Multiparameter Flow Cytometric Analysis of Lymphocyte Subpopulation Activation in Lectin-Stimulated Cultures
M. J. Stadecker, D. J. Wyler, and J. A. Wright 2739 Ia Antigen Expression and Antigen-Presenting Function by Macrophages Isolated from Hypersensitivity Granulomas
S. Landolfo, B. Arnold, and M. Suzan 2807 Immune (γ) Interferon Production by Murine T Cell Lymphomas

CLINICAL IMMUNOLOGY

M. A. Rodriguez, J. L. Ceuppens, and J. S. Goodwin 2422 Regulation of IgM Rheumatoid Factor Production in Lymphocyte Cultures from Young and Old Subjects
J. L. Ceuppens and J. S. Goodwin 2429 Regulation of Immunoglobulin Production in Pokeweed Mitogen-Stimulated Cultures of Lymphocytes from Young and Old Adults
T. R. Cupps, L. C. Edgar, and A. S. Fauci 2453 Suppression of Human B Lymphocyte Function by Cyclophosphamide
T. Timonen, J. R. Ortaldo, and R. B. Herberman 2514 Analysis by a Single Cell Cytotoxicity Assay of Natural Killer (NK) Cell Frequencies among Human Large Granular Lymphocytes and of the Effects of Interferon on Their Activity

Continued on page 4
G. C. B. Astaldi, E. P. Wright, Ch. Willems, W. P. Zeijlemaker, and M. C. Janssen 2539 Increase of Hybridoma Formation by Human Lymphocytes after Stimulation in Vitro; Effect of Antigen, Endothelial Cells, and PWM

C. D. Alley, G. S. Nash, and R. P. MacDermott 2604 Marked in Vitro Spontaneous Secretion of IgA by Human Rib Bone Marrow Mononuclear Cells

O. Carpen, I. Virtanen, and E. Saksela 2691 Ultrastructure of Human Natural Killer Cells: Nature of the Cytolytic Contacts in Relation to Cellular Secretion

C. Fournier and J. Charreire 2698 Autologous Mixed Lymphocyte Reaction in Man. Il. Autoreactive and Alloreactive Cells Belong to Two Different T Cell Subsets

Y. Kobayashi, M. Asada, M. Higuchi, and T. Osawa 2714 Human T Cell Hybridomas Producing Lymphokines. I. Establishment and Characterization of Human T Cell Hybridomas Producing Lymphotoxin and Migration Inhibitory Factor

J. A. Hank and P. M. Sondel 2734 Soluble Bacterial Antigen Induces Specific Helper and Cytotoxic Responses by Human Lymphocytes in Vitro

J. W. Goding 2416 Asymmetrical Surface IgG on MOPC-21 Plasmacytoma Cells Contains One Membrane Heavy Chain and One Secretory Heavy Chain

S. Nakayama, C. Mold, H. Gewurz, and T. W. Du Clos 2435 Opsonic Properties of C-reactive Protein in Vivo

H. Lemke and G. J. Hammerling 2465 Clustering of Antigenic Determinants on H-2 Molecules

K. M. Edwards, H. Gewurz, T. F. Lint, and C. Mold 2493 A Role for C-Reactive Protein in the Complement-Mediated Stimulation of Human Neutrophils by Type 27 Streptococcus pneumoniae

R. J. Ziccardi 2500 Spontaneous Activation of the First Component of Human Complement (C1) by an Intramolecular Autocatalytic Mechanism

R. J. Ziccardi 2505 A New Role for C1-Inhibitor in Homeostasis: Control of Activation of the First Component of Human Complement

T. Nitta and T. Suzuki 2527 FcγR Receptor-Mediated Prostaglandin Synthesis by a Murine Macrophage Cell Line (P388D1)

A. J. Tenner and N. R. Cooper 2547 Stimulation of a Human Polymorphonuclear Leukocyte Oxidative Response by the C1q Subunit of the First Complement Component

P. Leister-Wells and A. B. Bjornson 2564 Immunoglobulin-Independent Utilization of the Classical Complement Pathway in Opsonophagocytosis of Escherichia coli by Human Peripheral Leukocytes


J. Tseng 2719 Expression of Immunoglobulin Heavy Chain Isotypes by Peyer’s Patch Lymphocytes Stimulated with Mitogens in Culture

R. B. Markham, A. Nicholson-Weller, G. Schiffman, and D. L. Kasper 2731 The Presence of Sialic Acid on Two Related Bacterial Polysaccharides Determines the Site of the Primary Immune Response and the Effect of Complement Depletion on the Response in Mice

J. E. Volanakis 2745 Complement-Induced Solubilization of C-reactive Protein-Pneumococcal C-Polysaccharide Precipitates: Evidence for Covalent Binding of Complement Proteins to C-Reactive Protein and to Pneumococcal C-Polysaccharide

B. M. S. Pulleyblank, J. A. Falk, M. Lestarte, K. J. Dorrington, and R. E. Falk 2810 A Reevaluation of the Putative Association between the Fcγ Receptor and Histocompatibility Antigens on Human Mononuclear Leukocytes

IMMUNOCHEMISTRY

Continued from page 3
IMMUNOGENETICS AND TRANSPLANTATION


J. A. Kapp and B. A. Araneo

Y. Kohno and J. A. Berzofsky

G. S. Hansen, A. Sveigaars, and M. H. Claesson

R. M. Gorczynski and S. MacRae

H. C. Passmore

D. Wernet, H. Heinrichs, and P. Wernet

M. G. Scott and J. B. Fleischman

P. J. Wettstein

L. N. K. Fuge Abruzzini and B. D. Schwartz

S. W. Hill and J. A. Frelinger

M. J. Nelles and A. Nisonoff


M. I. Lorber, M. R. Loken, A. M. Stall, and F. W. Fitch

S. F. Radka, D. D. Kostyu, and D. B. Amos

2439 The T Lymphocyte Response to Cytochrome C. III. Relationship of the Fine Specificity of Antigen Recognition to Major Histocompatibility Complex Genotype

2447 Antigen-Specific Suppressor T Cell Interactions. I. Induction of an MHC-Restricted Suppressor Factor Specific for L-Glutamic Acid<sup>150</sup>-L-Tyrosine<sup>50</sup>

2458 Genetic Control of the Immune Response to Myoglobin. V. Antibody Production in Vitro Is Macrophage and T Cell-Dependent and Is under Control of Two Determinant-Specific Ir Genes

2497 T Cell Clones Restricted to "Hybrid" HLA-D Antigens?

2543 Role of Genes in Murine Major Histocompatibility Complex (MHC) in the Ontogeny of B Cells with Restricted Capacity for Cooperation with Adherent Cells in the Production of Antibody to Thymus-Dependent (TD) and Thymus-Independent Type 2 (TI-II) Antigens

2559 An Erythrocyte and Serum Antigen with a Specificity Antithetical to the Mouse C4 Associated H-2.7 Antigen

2595 Genetic Regulation of the Antibody Response to H-2D<sup>5</sup> Alloantigens in Mice. IV. Antigens That Activate Helper T Cells for IgG, Coded for by the Non-H-2 Genome

2622 Preferential Idiotype-Isotype Associations in Antibodies to Dinitrophenyl Antigens

2629 H-2 Effects on Cell-Cell Interactions in the Response to Single Non-H-2 Alloantigens. V. Effects of H-2K<sup>8</sup> Mutations on Presentation of H-4 and H-3 Alloantigens

2682 Tentative Assignment of Alleles for Guinea Pig Ia Antigens. I. Ia.3.5 and Ia.4.5 Share Structural Homology Expected for Alleles

2704 Genetic Control of the Immune Response in Chimeric Mice

2773 Heterogeneity of A/J Anti-AR Antibodies That Express a Minor Cross-Reactive Idiotype

2793 Relationship between the Rearrangement of Immunoglobulin Genes, the Appearance of a B Lymphocyte Antigen, and Immunoglobulin Synthesis in Murine Pre-B Cell Lines

2798 I-A Antigens on Cloned Alloreactive Murine T Lymphocytes Are Acquired Passively

2804 A Monoclonal Antibody Directed against the HLA-Bw6 Epitope

IMMUNOPATHOLOGY

M. G. Goodman and W. O. Weigle


A. D. Befus, F. L. Pearce, J. Gauldie, P. Horsewood, and J. Bienveninck

F. L. Pearce, A. D. Befus, J. Gauldie, and J. Bienveninck

D. M. Center and W. Cruikshank

W. Cruikshank and D. M. Center

W. R. Henderson, A. Jorg, and S. J. Klebanoff

S. Nakamura, F. Goto, K. Goto, and M. Yoshinaga

2399 Induction of Immunoglobulin Secretion by a Simple Nucleoside Derivative

2411 Demonstration of Primary Cytotoxic T Cells in Venous Blood and Cerebrospinal Fluid of Children with Mumps Meningitis

2475 Mucosal Mast Cells. I. Isolation and Functional Characteristics of Rat Intestinal Mast Cells

2481 Mucosal Mast Cells. II. Effects of Anti-allergic Compounds on Histamine Secretion by Isolated Intestinal Mast Cells

2563 Modulation of Lymphocyte Migration by Human Lymphokines. I. Identification and Characterization of Chemoattractant Activity for Lymphocytes from Mitogen-Stimulated Mononuclear Cells

2569 Modulation of Lymphocyte Migration by Human Lymphokines. II. Purification of a Lymphotactic Factor (LCF)

2609 Eosinophil Peroxidase-Mediated Inactivation of Leukotrienes B<sub>4</sub>, C<sub>4</sub>, and D<sub>4</sub>

2614 Physicochemical Characterization of a PMN-Derived Soluble Factor That Enhances Lymphocyte DNA Synthesis

Continued on page 6
Continued from page 5

A. R. Mayrer, M. Kashgarian, N. H. Ruddle, R. Marier, C. J. Hodson, F. F. Richards, and V. T. Andrieo


S. A. Weitzman and T. P. Stossel

2634 Tubulointerstitial Nephritis and Immunologic Responses to Tamm-Horsfall Protein in Rabbits Challenged with Homologous Urine or Tamm-Horsfall Protein

2726 Isolation and Characterization of Circulating Feline Leukemia Virus-Immune Complexes from Plasma of Persistently Infected Pet Cats Removed by ex Vivo Immunosorption

2770 Effects of Oxygen Radical Scavengers and Antioxidants on Phagocyte-Induced Mutagenesis

R. T. Hoppe and M. J. Dorie

P. Rubin, H. F. Pross, and J. C. Roder


M. I. Colnaghi, S. Menard, E. Tagliabue, and G. D. Torre

J. Gordon, V. A. Anderson, and G. T. Stevenson

P. A. Marino and D. O. Adams

2387 Successful Murine Tumor Allotransplantation after Total Lymphoid Irradiation

2553 Studies of Human Natural Killer Cells. II. Analysis at the Single Cell Level

2599 Detection of a Tumor-Associated Antigen on the Surface of Human Myelogenous Leukemia Cells

2757 Heterogeneity of the Natural Humoral Anti-tumor Immune Response in Mice as Shown by Monoclonal Antibodies

2735 Loss of Surface-Bound Antibody Accompanying the Anti-complementary Modulation of Leukemic B Cell Immunoglobulin: Contrasting Effects of Antibodies Directed against Idiotypic and Constant Regions

2816 The Capacity of Activated Murine Macrophages for Augmented Binding of Neoplastic Cells: Analysis of Induction by Lymphokine Containing MAF and Kinetics of the Reaction


J. McLaughlin

J. Yewdell and W. Gerhard

2509 Studies on the Induction and Specificity of Cytotoxicity to Theileria-Transformed Cell Lines

2656 Subcellular Distribution of Particle-Associated Antigens in Trypanosoma rhodesiense

2670 Delineation of Four Antigenic Sites on a Paramyxovirus Glycoprotein via Which Monoclonal Antibodies Mediate Distinct Antiviral Activities


2824 Demonstration of Two Subtypes of Human Leukocyte Interferon (IFN-α) by Monoclonal Antibodies

2825 Dihydrotestosterone and Estradiol Deplete Corticosensitive Thymocytes Lacking in Receptors for These Hormones

Announcements

Errata

Author Index

Ad Hoc Reviewers

Author Index to Volume 128

Subject Index to Volume 128