THE JOURNAL OF IMMUNOLOGY®

Contents for March

CELLULAR IMMUNOLOGY

Bone Marrow T Cells. I. Response to the T-Cell Mitogens, Phytohemagglutinin and Concanavalin A. HENRY N. CLAMAN ..................................................... 960

Regulation of the Antibody Response to Type III Pneumococcal Polysaccharide. III. Role of Regulatory Cells in the Development of IgG and IgA Antibody Response. DAVID R. BARTHOLD, BENJAMIN PRESCOTT, PHILIP W. STASHAK, DIANA F. AMSBAUGH, AND PHILIP J. BAKER .......................................................... 1042

Peritoneal Exudate Lymphocyte. III. Dissociation of Antigen-Reactive Lymphocytes from Antigen-Binding Cells in a T Lymphocyte Enriched Population in the Guinea Pig. DAVID L. ROSENSTREICH AND ALAN S. ROSENTHAL .............................. 1085

A Potent Non-Peroxidase Glycoprotein Immunogen in Commercial Horseradish Peroxidase. LEONARD A. MORAZ, JAMES R. JOUBERT, AND JAMES C. HOOG .............................................................. 1094

In Vitro Induction of Specific Unresponsiveness against the 2,4,6-Trinitrophenyl Determinant. I. The Induction of Unresponsiveness. J. KETTMAN ........................................................................... 1139

Cellular Cooperation and Stimulatory Factors in Antibody Responses: Limiting Dilution Analysis in Vitro. DOUGLAS C. VANN AND CARROLL RAY DOTSON ................................................................. 1149

Failure to Induce Tolerance to 2,4-Dinitrochlorobenzene Contact Sensitivity with a 2,4-Dinitrophenyl (DNP) Conjugate of a Copolymer of p-Glutamic Acid and d-Lysine, a Specific Tolerance Test for DNP B Cells. B. AND BENACERRAF AND DAVID H. KATZ ........................................................................... 1158

Immune Responses in Vitro. X. Functions of Macrophages. CARL W. PIERCE, JUDITH A. KAPF, DAVID D. WOOD, AND BARUJ BENACERRAF ........................................ 1181

Cellular Immunoadsorbsents: A Simplified Technique for Separation of Lymphoid Cell Populations. ELI KEDAR, MANUEL ORTIZ DE LANDAZURI, AND BENJAMIN BONADA ..................................................................................... 1231

Lymphopoietic Potential of Bone Marrow Cells from Aged Mice: Comparison of the Cellular Constituents of Bone Marrow from Young and Aged Mice. JOHN J. FARRAR, BARBARA E. LOUGHMAN, AND ALBERT A. NORDIN ........................................ 1244

IMMUNOCHEMISTRY

Similarities of the Light Chains and the Variable Regions of the Heavy Chains of the IgGλ and IgAλ Myeloma Proteins from a Single Patient. CARLOTA WOLFSKIND-TODEL, EDWARD C. FRANKLIN, AND RICHARD A. RUDDEES ........................................... 871

Kinetics and Clonal Restriction of the Antibody Response to Dinitrophenyl-6-Amino-Caproyl-L-Tyrosine-Azobenzene-p-Arsenate in Guinea Pigs. GEORGES E. ROELANTS AND JOEL W. GOODMAN ......................................................................................... 883

The First Component of Human Complement (C1): Kinetics of Reaction with Its Natural Substrates. ROBERT STRUNK AND HARVEY R. COLTEN ..................................................................................... 905

Preparation and Properties of Rabbit Anti-Mouse Plasmacyte Serum Purified by In Vivo Absorption: Further Evidence for a New Antigenic Determinant on Plasmaprotein Y. ALLAN L. GROSSBERG, DAVID L. ROSENSTREICH, AND ALAN S. ROSENTHAL .............................................................. 911

Interaction of the First (C1), the Second (C2) and the Fourth (C4) Component of Complement with Different Preparations of Bacterial Lipopolysaccharides and with Lipid A. MICHAEL LOOS, DIETER BITTER-SUERMANN, AND MANFRED DIERICH ........................................................................ 935

Antibody Structure: Amino Terminal Sequences of Nurse Shark Light and Heavy Chains. CARLOS SLEDGE, L. WILLIAM CLEM, AND LEROY HOOD ............................................................. 941

Studies on the Structural and Conformational Basis for the Relative Resistance of Serum and Secretory Immunoglobulin A to Proteolysis. BRIAN J. UNDERDOWN AND KEITH J. DORRINGTON ........................................................................ 949

Immunochemical Quantitation of Cell Bound C4. SARKIS H. OHANIAN AND TIBOR BOSSOS ......................................................................................................................... 979

Methods in the Quantitation of Antibody-Antibody Reactions Measured by Radioimmunoassay: Application to the Gastrin System Revealing Large and Restricted Binding Energies. KIM GOLDENBERG, JESSIE M. BERKOWITZ, AND BARUJ BENACERRAF .......... 1000

Allotypes of Rat Immunoglobulins. I. An Allotype at the α-Chain Locus. Hervé BAZIN, ANDRÉ BECKER, JEAN-PIERE VAERMAN, AND JOSEPH F. HERMANS ..................................................................................... 1035

Isolation and Characterization of a Blood Group P5 Active Carbohydrate Antigen of Echinococcus Granulosus Cyst Membrane. SERENA RUSSI, ALESSANDRA SIRACUSANO, AND GIUSEPPPI VICARI ........................................................................... 1061

Kinetic Studies of the Formation of the Properdin System Enzymes on Zymosan: Evidence that Nascent C3b Controls the Rate of Assembly. ANNE NICHOLSON, JANET M. NOBLE, GERALD G. SHIN, AND MANFRED D. MAYER ........................................................................ 1115

A Functional Abnormality of the Fifth Component of Complement (C5) from Human Serum of Individuals with a Familial Opsonic Defect. ULF R. NILSSON, MICHAEL E. MILLER, AND SUSANNE WYMAN ................................ 1164
Studies on the Control of Antibody Synthesis. V. Effect of Nonspecific Modification of the Magnitude of the Immune Response on the Affinity of the Antibody Synthesized. JAMES MOND, YOUNG TAI KIM, AND GREGORY W. SISKIND

IMMUNOGENETICS AND TRANSPLANTATION
Rabbit Secretory IgA: Identification and Genetic Control of Two Allotypes of Secretory Component. KATHERINE L. KNIGHT, MIRIAM ROSENZWEIG, EDWARD A. LICHTER, AND W. CAREY HANLY

Antibody-Dependent Cell-Mediated Cytotoxicity in Prospective Kidney Transplant Recipients. JAMES L. LIGHTBODY AND JERRY C. ROSENBERG

Studies on the Induction and Expression of T-Cell Mediated Immunity. II. Blocking of Cell-Mediated Cytolysis by Membrane Antigens. BENJAMIN BONAYIDA

Autoimmune Murine Thyroiditis. IV. Localization of Genetic Control of the Immune Response. VESNA TOMAZIC, NOEL R. ROSE, AND DONALD C. SHREFFLER

Purification of HL-A Antigens from Normal Serum. RONALD J. BILLING AND PAUL I. TERASAKI

The Purification of Detergent-Solubilized HL-A Antigens by Affinity Chromatography with the Hemagglutinin from Lens culinaris. JEFFREY R. DAWSON, JONATHAN SILVER, LAURA B. SHEPPARD, AND D. BERNARD AMOS

The Effect of Age on the Response of Rat Lymphocytes in Mixed Leukocyte Culture, in PHA, and in the Graft-vs-Host Reaction. HANS E. NIELSEN

IMMUNOPATHOLOGY
Release of Slow Reacting Substance of Anaphylaxis from Human Leukocytes. J. ANDREW GRANT AND LAWRENCE M. LICHTENSTEIN

Phosphotidylserine Enhancement of Antigen-Induced Mediator Release from Rat Mast Cells. DANIEL J. STECHSCHULTZ AND K. FRANK AUSTEN

In Vivo Suppression by Cholera Toxin of Cell-Mediated and Foreign Body Inflammatory Responses. ADIEL A. MAERTS, WALTER A. WAGNER, JUDY L. BOROS, THEODORE W. RALL, MARK A. MANDEL, AND CHARLES C. J. CARPENTER, JR.

Mechanisms of Passive Sensitization. IV. Dissociation of IgE Molecules from Basophil Receptors at Acid pH. TERENCE ISHIKAWA AND KIMISHIGE ISHIKAWA


Studies of the Mechanisms of the Human Platelet Release Reaction Induced by Immunologic Stimuli. II. The Effects of Zymosan. SHARON L. PFUELLER AND ERNST F. LUSCHER

Aggregation and Release Reaction Induced in Human Blood Platelets by Zymosan. MARJORIE B. ZUCKER AND R. A. GRANT

TUMOR IMMUNOLOGY
Host Response to Tumor-Associated Fetal Antigens. F. A. SALINAS AND M. G. HANNA, JR.

In Vitro Immune Stimulation-Inhibition to Spontaneous Canine Tumors of Various Histologic Types. ISAAC J. FIDLER, ROBERT S. BRODEY, AND STEEN BECH-NIELSEN

Biosynthesis of the Second and Fourth Components of Complement: Inhibition in Vitro by Chemical Carcinogens. HARVEY R. COLTON AND TIBOR BORSOS

VIRAL AND MICROBIAL IMMUNOLOGY
Acid Lability of Rhinoviruses: Loss of C and D Antigenicity after Treatment at pH 3.0. JOHN H. HUGHES, SAMSON CHEMA, NANCY LIN, ROBERT M. CONANT, AND VINCENZO V. HAMPARIAN

Counterimmunoelectrophoresis with Adenovirus Type-Specific Anti-Hemagglutinin Sera as a Rapid Diagnostic Method. JOHN C. HIEHLER AND MICHEL BARMAN

Induction of Cellular Immunity to Herpes Simplex Virus: Relationship to the Humoral Immune Response. GARY L. ROSENBERG AND ABNER LOUIS NOTKINS

In Vitro Study of the Antiviral Activity of Immune Spleen Cells in Experimental Venezuelan Equine Encephalomyelitis Infection in Mice. STANLEY G. RABINOWITZ AND RICHARD A. PROCTOR

Passive Hemagglutination Assay for Antibody to Subtypes of Hepatitis B Antigen. JOHN W. M. GOLD, HARVEY J. ALTER, PAUL V. HOLLAND, JOHN L. GERIN, AND ROBERT H. PURCELL

The Production of Interferon by Malignant Plasma Cells from Patients with Multiple Myeloma. LOUIS B. EISENSTEIN AND SYDNEY E. SALMON

Effects of Staphylococcal Protein A on Heat Labile Opsonins. ARNE FORSGREN

Immunoochemical Studies of the Major Internal Polypeptide of Woolly Monkey and Gibbon Ape Type C Viruses. RAYMOND V. GILDER, ROBERT TONI, MICHELLE HANSON, DAVID BOVA, HOWARD E. CHARMAN, AND STEPHEN ORZOLAN

COMMUNICATIONS
Carrier Function in Immune Deviation. P. J. NEVEU AND A. G. BORDUAS

Fractionation of Sera from Operationally Tolerant Rats by DEAE Cellulose Chromatography; Evidence that Serum Blocking Factors are Associated with IgG. P. W. WRIGHT, R. E. HARGRAVES, I. D. BERNEBST, AND I. HELLMSTRÖM

A Micro-Technique for Hemolytic Plaque Assays. JOHN W. KAPPLER

Erratum