THE JOURNAL OF IMMUNOLOGY

Contents for March

IMMUNOCHEMISTRY

Studies of Opsonic Activity in Univalent 6.5S Rabbit Antibacterial Antibody. JOHN A. KAZMIEROWSKI, ALFRED NISONOFF, PAUL G. QUIE AND RALPH C. WILLIAMS, JR. 605

Antigenic Analysis of Human Heart Tissue. Further Characterization of an Organ-Specific Antigen of Heart Tissue. ENRIQUE ESPINOZA AND MELVIN H. KAPLAN. 611

Dissociation of Antibody from Erythrocyte Surfaces by Chaotropic Ions. THOMAS S. EDGINGTON. 673


IMMUNOGENETICS

A Quantitative Method for Determining Human γG Allotype Antigens (Gm). I. Relationship between Gm Antigenic Strength and Phenotype. STEPHEN D. LITWIN. 589

Alterations in Isotypic and Allotypic Immunoglobulin Antigens Induced by Chemical Modification. RONALD P. MESSNER, JACOB B. NATVIG, DANIEL EIN AND RALPH C. WILLIAMS, JR. 644

Genetic Control of the Immune Response of Mice to Hemocyanin. I. The Role of Macrophages. JEAN-CHARLES CEROTTINI AND EMIL R. UNANUE. 732

Allotypic Determinants on the Fab Fragment of Rabbit Aa Locus Negative IgG Immunoglobulin. K. L. KNIGHT, A. GILMAN-SAcHs, R. FIELDS AND S. DRAY. 761

CELLULAR IMMUNOLOGY

A Study of Mixed Cell Interactions between Sensitized and Allogeneic Mouse Spleen Cells in Vitro Using the Hemolytic Plaque Assay. SHINJI HIRANO AND EDWIN M. UTEK. 619

Passive Serologic Transfer of Allograft Immunity in Immunologically Suppressed Mice. II. Effect of Graft Exposure to Immune Serum in Primary Hosts. DAVID W. KINNE AND RICHARD L. SIMMONS. 629

Immunologically Specific Retention of Long-Lived Lymphoid Cells in Antigenically Stimulated Lymph Nodes. EUGENE E. EMERSON AND DONALD R. THURSH. 635

Use of Leukocyte Chemotaxis in Vitro to Assay Mediators Generated by Immune Reactions. I. Quantitation of Mononuclear and Polymorphonuclear Leukocyte Chemotaxis with Polycarbonate (Nuclepore) Filters. DAVID A. HORWITZ AND MARTHA ANNE GARRETT. 649

Immunoglobulin Receptors on Mouse Mast Cells. ROBERT E. TIGELAAR, NELSON M. VAZ AND ZOLTAN OVARY. 661

A Micro-Immune Adherence Test for the Detection of HL-A Antigens. YIZO MIYAKAWA, NOBUYUKI TANIGAKI, YASUO YAGI, ELIAS COHEN AND DAVID PRESSMAN. 681

Detection of Antibody-Like Structures on Cell Surfaces with Chemically Modified Bacteriophages. ANDREI SULICA, JOSEPH HALMOVICH AND MICHAEL SELA. 721

The Effect of Immunoregulatory α Globulin (IRA) on Antigen-Mediated Macrophage Immobilization in Vitro. ROBERT C. DAVIS, SIDNEY R. COOPERBAND AND JOHN A. MANNICK. 755

Changes in Phospholipid Metabolism Which Occur as a Consequence of Mitogenic Stimulation of Lymphocytes. DAVID O. LUCAS, STEPHEN B. SHORET AND E. MERLER. 768

Ontogenesis of Cell-Mediated Immunity in Murine Thymocytes and Spleen Cells and Its Acceleration by Thymosin, a Thymic Hormone. ALLAN L. GOLDSTEIN, AKRINDA GUHA, MICHAEL L. HOWE AND ABRAHAM WHITE. 773

Selective Inhibition of Cells in the Immune Response by Actinomycin D. STEPHEN J. KAUFMAN. 781

Antibody Plaque-Forming Cells in Mice Immunized with Human γ Globulin. I. Technical Considerations. JOHN S. HEGE AND WALLACE V. EPSTEIN. 786

Antibody Plaque-Forming Cells in Mice Immunized with Human γ Globulin (HGG). II. Antibodies in Mouse Anti-HGG Serum and Human Rheumatoid Factor. JOHN S. HEGE AND WALLACE V. EPSTEIN. 793

Immunosuppression by Leukemia Viruses. V. Ultrastructural Studies of Antibody-Forming Spleens of Mice Infected with Friend Leukemia Virus. GLORIA C. KOO, WALTER S. CEGLOWSKI AND HERMAN FRIEDMAN. 799

Immunosuppression by Leukemia Viruses. VI. Ultrastructure of Individual Antibody-Forming Cells in the Spleens of Friend Leukemia Virus-Infected Mice. GLORIA C. KOO, WALTER S. CEGLOWSKI, MICHAEL HIGGINS AND HERMAN FRIEDMAN. 815

Continued
Contents Continued

Reappearance and Relative Importance of Immunocompetent Cells in the Thymus, Spleen and Lymph Nodes following Lethal X-irradiation and Bone Marrow Reconstitution in Mice. HENRIC BLOMGREN AND BIRGER ANDERSSON.............. 831
Evidence for Thymic Dependence of PHA- Reactive Cells in Spleen and Lymph Nodes and Independence in Bone Marrow. HENRIC BLOMGREN AND ERIK SYEDMYR........... 835
Cellular Aspects of Primary Antibody Response in Vitro. RUTH H. GROBSTEIN.............. 842

IMMUNOPATHOLOGY

Phosphonate Inhibition of the Accumulation and Retention of K+ by Rabbit Neutrophils in Relation to Chemotaxis. ELMER L. BECKER................................................................. 689
Murine Thyroiditis: Importance of Adjuvant and Mouse Strain for the Induction of Thyroid Lesions. NOEL R. ROSE, FRANK J. TWAROG AND A. J. CROWLE...... 698
Degranulation of Human Basophil Leukocytes by Anti-γE Antibody. TERUKO ISHIZAKA, HISAO TOMIOKA AND KIMISHIGE ISHIZAKA................................. 705
Role of C5 in the Nephritis of NZB/W Mice. B. G. LANIER, F. C. McDUFFIE AND K. E. HOLLEY................................................................. 740

MICROBIAL AND VIRAL IMMUNOLOGY

The Mechanism of Induction of Cold Agglutinins by Mycoplasma pneumoniae. NICOLAS COSTEA, VINCENT J. YAKULIS AND PAUL HELLER......................... 598
Immunoochemical Studies of Foot-and-Mouth Disease. IX. Differences in Neutralizing Activities of Guinea Pig and Bovine 19S and 7S Antibodies. G. G. WAGNER AND K. M. COWAN...................................................... 656

COMMUNICATIONS

Blocking Effect of Serum from Tumor-Bearing Animals on Macrophage Migration Inhibition with Tumor Antigens. W. J. HALLIDAY................................................................. 855
Toxicity of Streptococcal Mucoproteins in Vivo and in Vitro. BERNHARD HEYMER, BURCKHARD BULTMANN AND OTTO HAERKAMP................................................................. 858
Strain Dependent Differences in the Specificity of Antibody Responses toward Lysozyme. EDNA MOSES, ELCHANAN MARON, RUTH ARNON AND MICHAEL SELA................................................................. 862
The Production of Tolerance to Human Erythrocytes in the Rat with Cytosine Arabinoside or Cyclophosphamide. II. Previously Immunized Animals. ROBERT O. GORDON, JAMES P. SANTANELLI AND MACLYN E. WADE................................. 865
Conversion of Cholera Exo-Enterotoxin (Choleragen) to Natural Toxoid (Choleragenoid). RICHARD A. FINKELSTEIN, JOHNNY W. PETERSON AND JOSPEH J. LOSPALUTO................................................................. 868
Effect of Thymus-Derived Lymphocytes on Amount and Affinity of Anti-Hapten Antibody. RICHARD K. GERSHON AND WILLIAM E. PAUL................................................................. 872
Genetic Control of the Immune Response in Mice. III. An Association between H-2 Type and Reaction to H-Y. DAVID L. GASSER AND WILLYS K. SILVERS................................................................. 875
Specific Immunologic Unresponsiveness Induced in Adult Guinea Pigs with the Aid of p-Aaobenzene arsonate Hapten Coupled to Autologous Red Cells. FELIX BOREK AND JACK R. BATTISTO................................................................. 877