Contents for April

IMMUNOCHEMISTRY


Valence and Association Constant of Rat Macroglobulin Antibody. R. ORIOL, R. BINAGHI AND E. COLTORTI .......................................................... 932

Immunologic Studies of Human Group I Pepsinogens. I. MICHAEL SAMLOFF .................... 962

Metabolism of Asparagine, Aspartate, Glutamine, and Glutamate in Lymphoid Tissue: Basis for Immunosuppression by L-Asparaginase. MORTON D. PRAGER AND INA DEIm .............................................................. 975

IMMUNOGENETICS

Genetic and Cellular Factors in the Immune Response. II. Evidence for the Polygenic Control of the Antibody Response from Further Breeding Studies and from Pedigree Analyses. THOMAS J. GILL III AND HEINZ W. KUNZ .......................... 980

Immunocchemical Studies on the Double Specificity of Allotype a2 of Rabbit Immunoglobulin G. MITSUAKI KAKISHI ........................................... 1005

Hormone-Influenced Serum Protein (HIPS): A,li-Protein System in the Chicken. C. S. DAVID ................................................................ 1104

CELLULAR IMMUNOLOGY

Quantitative Studies on the Binding of Antibody to the Surface of HeLa Cells. CHARLES W. BOONE, DIANNE N. IRVING AND SUSAN RUBINSTEIN ............. 879

Studies of Immune Mechanisms in Leprosy. III. The Role of Cellular and Humoral Factors in Impairment of the in Vitro Immune Response. WARD E. BULLOCK, JR. AND PAUL FASAL .......................................................... 888

Variable Effects of Anti-Lymphocyte Serum on Humoral Antibody Formation: Role of Thymus Dependency of Antigen. R. S. KERBEL AND D. EDINGER 917

Peyer’s Patches: Lack of Specific Antibody-Containing Cells after Oral and Parenteral Immunization. JOHN BRENNENSTOCK AND JOSÉ DOLEZEL 938

Independent Action of Thymus and Bone Marrow Cells during the Secondary Response of Direct Plaque-Forming Cells. ULRICH W. JEHN AND LAWRENCE KARLIN 946

The Mechanism of Antibody-Induced Stimulation and Inhibition of the Immune Response. GUNTHER DENNERT ......................................................... 951

A Study of Tumor Allograft-Sensitized Lymph Nodes in Mice. I. Biologic Activities of Transferred Cells and Antibody Titers of Donor and Recipient Mice. GEORGE L. IRVIN, III AND JOHN C. KUSTACE 956

Molecular Immunogenicity of Bacterial Lipopolysaccharide Antigens: Establishing a Quantitative System. DON A. RUDNACH ........................................ 993

Regulation of Homocytotropic Antibody Formation in the Rat. I. Feed-Back Regulation by Passively Administered Antibody. TOMIO TADA AND KO OKUMURA 1002

Regulation of Homocytotropic Antibody Formation in the Rat. II. Effect of X-Irradiation. TOMIO TADA, MASATI TANIGUCHI AND KO OKUMURA 1012

Regulation of Homocytotropic Antibody Formation in the Rat. III. Effect of Thymectomy and Splenectomy. KO OKUMURA AND TOMIO TADA 1019

A Study of the Afferent and Efferent Limbs of the Immune Response in Opossums. JAMES J. MURR, JR., ROBERT BURRELL AND SILVIA Q. FISHER 1043

Failure of Immunocytotrophic Adherence to Demonstrate Delayed Hypersensitivity. C. IRVING ROBERTS, MICHAEL W. BRANDRISS AND JOHN H. VAUGHAN 1056

Immune Response to Hemocyanin in Normal, Thymus-Deprived and Reconstituted Mice. JÜRGEN KRÜGER AND RICHARD K. GERSHON 1065

Relationship of Germinal Centers in Lymphoid Tissue to Immunologic Memory. V. The Effect of Prednisolone Administered after the Primary Response. H. G. DURKIN AND G. J. THOBENCKE 1079

Continued
**Contents Continued**

Immunoglobulin Synthesis in Mixed Cultures of Syngeneic Cells of Different Lymphoid Tissues. A. A. MIKHAILOVA, R. V. PETROV AND L. A. ZAKHAROVA ............... 1086

**IMMUNOPATHOLOGY**

Decreased C3 Levels in a Chronic Virus Infection: Equine Infectious Anemia. L. E. PERRYMAN, T. C. McGUIRE, K. L. BANKS AND J. B. HENSON ......................... 1074

**MICROBIAL AND VIRAL IMMUNOLOGY**

Lysis and Death of *Mycoplasma pneumoniae* by Antibody and Complement. HELMUT BRUNNER, SHMUEL RAZIN, ANTHONY R. KALICA AND ROBERT M. CHANOCK ........ 907

Malignant Transformation *in vitro* by “Non-oncogenic” Variants of Defective SV40 (PARA). JANET S. BUTEL, SATVIR S. TEVETHIA AND MAURICE NACHTIGAL 969

Detection of Antigenic Subunits of a Murine Leukemia Virus by Passive Hemagglutination-Inhibition. LOUIS R. SIBAL, VINCENT W. HOLLIS, JR. AND MARY ALEXANDER FINK ................................. 1050

**COMMUNICATIONS**

Human Anti-Insulin Antibodies. W. PAGE FAULK, JOHN H. KARAM AND H. HUGH FUDENBERG .......................................................... 1112

Genetic and Cellular Factors in the Immune Response. III. The Cellular Response to Poly(Glu2Lys2Tyr1) in the Highly Responding F344 Strains of Inbred Rats. THOMAS J. GILL III, JOYCE ENDERLE, RONALD N. GERMAIN AND CHARLES T. IADOUIS ......................... 1117

Influenza Virus Encephalitis in Squirrel Monkeys Receiving Immunosuppressive Therapy. KOHO MIYOSHI, EUGENIA T. GAMBIA, DONALD H. HARTER, ABNER WOLF AND KONRAD C. HSU ...................................................... 1119

Attempts to Abolish Tolerance of Skin Homografts in Mice with X-Irradiated Plasma from Specifically Sensitized Donors. DAVID M. LUBAROFF AND WILLYS K. SILVERS ........................................... 1122

Protective Function of C6 in Rabbits Treated with Bacterial Endotoxin. KENT J. JOHNSON AND PETER A. WARD ........................................... 1125

The Effect of Actinomycin D on the Lethality of Poly I:C. ROBERT E. PIERONI, AMINA E. BUNDEALLY AND LEO LEVINE ........................................... 1128

Antibodies to Denatured IgE and New Antigenicity of the IgE Acquired during Heating. KOHI ITO, KONRAD WICHER AND CARL E. ARBESMAN .......... 1130

Isolation of Heavy and Light Chains of Immunoglobulin from the Surfaces of Lymphoid Cells. SONIA BAUR, ELLEN S. VITETTA, CHARLES J. SHERR, ISAAC SCHEINKEI AND JONATHAN W. UHL ........................................... 1133

Oxidative Sulfitolysis of Human IgM. JIRI ZIKAN AND J. CLAUDE BENNETT ........ 1136

Transfer of Experimental Autoimmune Thyroiditis of the Mouse by Serum. ADRIAN O. VLADUTIU AND NOEL R. ROSE ........................................... 1139

**ERRATUM**

In the article by M. M. AZAR and R. A. GOOD, this journal, volume 106, January 1971, on page 243, Table III, the Whole Body Counts shown for the first and second groups should be reversed.