THE JOURNAL OF IMMUNOLOGY®

Contents for August

CELLULAR IMMUNOLOGY

Induction of Tolerance to a Hapten. II. Maintenance and Escape of the Tolerant State to TNP. JOHN M. FIDLER AND EDWARD S. GOLUB 317

Mitogenicity of Bacterial Endotoxins: Characterization of the Mitogenic Principle. DUANE L. PEAVY, JOSEPH W. SHANDS, JR., WILLIAM H. ADLER, AND RICHARD T. SMITH 352

Studies of the Mechanism of Lymphocyte-Mediated Cytolysis. IV. Specificity of the Histamine Receptor on Effector T Cells. MARSHALL PLAUT, LAWRENCE M. LICHTENSTEIN, ELIZABETH GILLESPIE, AND CHRISTOPHER S. HENNEY 389

Cooperative Effects in Antibody Formation Produced by Hapten-Specific Delayed Sensitivity. NABIL HANNA AND SIDNEY LESKOWITZ 410

The Spontaneous Induction of Anamnestic Antibody Synthesis in Lymph Node Cell Induction of Tolerance to a Hapten. II. Maintenance and Escape of the Tolerant Cooperative Effects in Antibody Formation Produced by Hapten-Specific Delayed Sensitivity. NABIL HANNA AND SIDNEY LESKOWITZ 410

Human Skin Responses to Products of Concanavalin A-Activated Lymphocytes. HELGI VALDIMARSSON AND NICHOLAS J. GROSS 485

The Immune Response against Hapten-Autologous Protein Conjugates in the Mouse. IV. Thymus Dependency of the Primary Response to Hapten-Autologous Albumin Conjugates. BENT RUBIN, KLAUS HIESCHE, VOLKER SCHIRMACHER, AND HANS WIGZELL 492

Immune Responses in Vitro. VIII. Analysis of Cell Clusters. JOHN A. MCINTYRE AND CARL W. PIERCE 512

Delayed Hypersensitivity to Beryllium Compounds. JAMES J. MARX, JR., AND ROBERT BURRELL 590

Subpopulations of Human Lymphocytes Defined by δ2-Microglobulin. MICHAEL W. FANGER AND GEORGE M. BERNIER 609

Immunity to Chlamydial Infections of the Eye. III. Presence and Duration of Delayed Hypersensitivity to Guinea Pig Inclusion Conjunctivitis. RONALD R. WATSON, A. BRUCE MACDONALD, EDWARD S. MURRAY, AND FARROKH Z. MODABBIR 618

IMMUNOCHEMISTRY

Characterization of an Immunosuppressive Factor Present in Mouse Serum. BRUCE VEIT AND J. GABRIEL MICHAEL 341

Synthesis, Assembly and Secretion of γ-Globulin by Mouse Myeloma Cells. V. Balanced and Unbalanced Synthesis of Heavy and Light Chains by IgG-Producing Tumors and Cell Lines. REUBEN BAUMAL AND MATTHEW D. SCHARFF 448

Immunologic Studies on Drug Addiction. I. Antibodies Reactive with Methadone and Their Use for Detection of the Drug. CHI-TAN LIU AND FRANK L. ADLER 472

Role of Intracellular and Extracellular Cationic Composition in Immune Lysis of Mammalian Erythrocytes. AGUSTIN P. DALMASSO, ELDA FANGIO, M. ROSELIA LELCHUK, AND MARIA M. E. DEBRACCO 527

Interactions between Human C5, C6, and C7 and Their Functional Significance in Complement-Dependent Cytolysis. CARLOS M. ARROYAVE AND HANS J. MÜLLER-EBERHARD 536

A New Serum Factor in Normal Rabbits. IX. Association with Group b Immunoglobulin Allotypic Specificities. K. HAGEN, S. S. KULKARNI, AND W. J. MANDY 546

Use of an Aqueous Polymer Phase System as an Assay for Antibodies to Escherichia coli Alkaline Phosphatase. R. T. REESE AND H. P. TREFERS 624

Effects of Bursectomy and Thymectomy on Ontogeny of Fowl IgA, IgG, and IgM. DANIEL Y. E. PERET AND JOHN BIENENSTOCK 633

IMMUNOGENETICS AND TRANSPLANTATION

Genetic Control of Immune Responses to Synthetic Polypeptides in Mice: Cellular Analysis of the Phenotypic Correction of the Ir-3 Gene Defect by Polyadenylic-Polyuridylic Acid. E. MOZES, G. M. SHEAREE, M. SELA, AND W. BRAUN 439

IMMUNOPATHOLOGY

On the Nature of the Presumed Receptor for IgE on Mast Cells. II. Demonstration of the Specific Binding of IgE to Cell-Free Particulate Preparations from Rat Peritoneal Mast Cells. MICHAEL K. BACH AND JOHN R. BRASHER .................... 324

Characterization of IGE-Induced Systemic Anaphylaxis in the Rabbit. Lack of Correlation between the Intravascular Release of Histamine and Anaphylactic Sensitivity. MARILYN HALONEN, R. NEAL PINCKARD, AND ANIKO L. MENG .................. 331

Mechanisms of Passive Sensitization. III. Number of IgE Molecules and Their Receptor Sites on Human Basophil Granulocytes. TERUKO ISHIZAKA, CARMEN S. SOTO, AND KIMISHIGE ISHIZAKA ................................. 500

Immunogenicity and Arthritogenicity in the Rat of an Antigen from Mycobacterium tuberculosis Wax D. TOSHIKATA KOGA AND CARL.M.PEARSON .................... 599

TUMOR IMMUNOLOGY


VIRAL AND MICROBIAL IMMUNOLOGY

Pulmonary Host Defenses. I. Analysis of Protein and Lipids in Bronchial Secretions and Antibody Responses after Vaccination with Pseudomonas aeruginosa. HERBERT Y. REYNOLDS AND RUSSELL E. THOMPSON ............................. 338

Pulmonary Host Defenses. II. Interaction of Respiratory Antibodies with Pseudomonas aeruginosa and Alveolar Macrophages. HERBERT Y. REYNOLDS AND RUSSELL E. THOMPSON ................................. 369

Recognition of Hepatitis B Antigen Determinants by a Double Label Radioimmunoassay: A Sensitive Means of Subtyping Hepatitis B Antigen. RICHARD D. AACH, EDWIN J. HACKER, AND CHARLES W. PARKER ..................................................... 381

Protection against Enteric Bacterial Infection by Secretory IgA Antibodies. ERNEST S. FUBARA AND ROLF FRETER ................................. 395

Preferential Radioassay of Influenza-Specific 7S (IgG) Over 19S (IgM) Class of Antibodies. HARRY DAUGHARTY ................................................... 404

Treatment of E. coli and Klebsiella Bacteremia in Agranulocytic Animals with Antiserum to a UDP-Gal Epimerase-Deficient Mutant. ELIZABETH J. ZIEGLER, HERNDON DOUGLAS, JAMES E. SHEPHERD, CHARLES E. DAVIS, AND ABRAHAM I. BRAUDE .......................................................... 433

A Latex Agglutination Test for Measuring Antibodies to Streptococcal Mucoproteins. BEING HEYMANN, WALTER SCHACHENMAYR, BURKHARD BÜLTMANN, REINHARD SPANEL, OTTO HAIFERKAMP, AND WILLARD C. SCHMIDT ........................................ 478

Application of Electrophoresis and Crossed Immunoelectrophoresis to the Comparative Serology of a Microorganism (Histoplasma capsulatum). GEORGE H. SWEET AND DONNA E. WILSON ............................... 554

COMMUNICATIONS


A Third Non-Adherent Cell Required for the in Vitro Immune Response to Sheep Erythrocytes. DAVID W. TALMAGE AND HELEN HEMMINGSEN .............................................. 641

Interferon Induction in New Zealand Black Mice by Murine Leukemia Virus. BENJAMIN V. SIEGEL, MCKAY BROWN, AND JANE I. MORTON .......................... 644

Homocytotropic Autoantibodies in Rabbits Subjected to Cryosurgery. CLELLA M. RIERA, MARIA G. FAILLACI, AND CARLOS YANTORNO ..................... 647

Suppressor Cells in the Graft-Versus-Host Reaction. JOHN A. HARDIN, THOMAS M. CHUSED, AND ALFRED D. STEINBERG ........................................ 650

Retention of Graft-vs-Host Activity in Non-Adherent Spleen Cells after Depletion of Cytotoxic Activity by Incubation on Allogeneic Target Cells. MICHAEL G. MAGE AND LOUISE L. MCHugh ........................................ 652

ANNOUNCEMENT

A new section, "Letters," will be added as a regular part of the Journal of Immunology to provide readers and authors a forum for discussion of scientific material appearing in the Journal. The reader will have the opportunity to comment on, add information to, or point out differences from published articles, and the authors will be given the opportunity for response. Letters should be lucid, germaine, and succinct (preferred length, 250 words or less). They will be selected on the basis of their interest, relevancy and importance of subject matter, and will be altered by the Editors if necessary, to improve understanding and style.