THE JOURNAL OF IMMUNOLOGY®

Contents for May

CELLULAR IMMUNOLOGY


A Rabbit Antiserum to a Thymus Extract Specific for Mouse Thymus-Derived Cells. SIDDHARTHA SARKAR, ROBERT HYMAN, TOHRU MASUDA, AND LEONARD A. HERZENBERG .................. 1222

Regulation of the Immune Response with Antigen Specific IgM Antibody: A Dual Role. WILLIAM M. WASON .................. 1245

Lymphocyte Activation, III. The Prolonged Requirement for Mitogen in Phytohemagglutinin- and Concanavalin A-Stimulated Cultures. G. JONES .................. 1262

Role of the Thymus in Tolerance. X. "Suppressor" Activity of Antigen-Stimulated Rat Thymocytes Transferred to Normal Recipients. T.-Y. HA AND B. H. WAKSMAN .................. 1290

Regional Lymph Node Irradiation: Effect on Local and Distant Generation of Antibody-Forming Cells. IRVING L. WEISSMAN, MARGO PEACOCK, AND JAMES R. EULTRINGHAM .................. 1300

Antigen-Induced Depression of DNA Synthesis in Mouse Spleen. MARION M. ZATZ AND ALLAN L. GOLDSTEIN .................. 1312


Demonstration of Proliferation by Bone Marrow-Derived Lymphocytes of Guinea Pigs, Mice, and Rabbits in Response to Mitogen Stimulation in Vitro. GERALD J. ELFENBEIN, MICHAEL R. HARRISON, AND IRA GREEN .................. 1334

Demonstration of Proliferation by Guinea Pig and Rabbit Bone Marrow-Derived Lymphocytes in Vitro in Response to Stimulation by Anti-Immunoglobulin Antisera. GERALD J. ELFENBEIN, MICHAEL R. HARRISON AND ROSE G. MAGE .................. 1340

Lymphoid Cell Dependence of Eosinophil Response to Antigen. III. Comparison of the Rate of Appearance of Two Types of Memory Cells in Various Lymphoid Tissues at Different Times after Priming. NICHOLAS M. PONZIO AND ROBERT S. SPEIRS .................. 1363

Eosinophils and Immune Mechanisms. I. Eosinophil Stimulation Promoter (ESP): A Lymphokine Induced by Specific Antigen or Phytohemagglutinin. DANIEL G. COLLEY .................. 1419

IMMUNOCHEMISTRY

A Comparison of Three Radioimmunoassay Techniques for the Measurement of Serum IgE. STEPHEN H. POLMAR, THOMAS A. WALDMANN AND WILLIAM D. TERRY .................. 1253

Local Antibody Response to Poliovaccine in the Human Female Genital Tract. PEABAY L. OGRA AND SWTANTABTA S. OGRA .................. 1307

Physical Association of Two Nuclear Antigens and Mutual Occurrence of Their Antibodies: The Relationship of the SM and RNA-Protein (MO) Systems in SLE Sera. MARTHA MATTIOLI AND MORRIS REICHLIN .................. 1318

Antibody-Independent Activation of Human C1 after Interaction with Heart Subcellular Membranes. R. NEAL PINCKARD, MERLE S. OLSON, ROBERT E. KELLEY, DAVID H. DEHEER, JOHN D. PALMER, ROBERT A. O'ROURKE, AND SAMUEL GOLDFEIN .................. 1376

Studies on Tetanus Antitoxins. II. Demonstration of at Least Four Antitoxins of Different Specificity in Antitoxic Sera. J. NAGEL AND H. COHEN .................. 1388

Polymerized Ragweed Antigen E. I. Preparation and Immunologic Studies. ROY PATTERSON, IRENA M. SUSZKO, AND FLOYD C. MCINTIRE .................. 1402

Polymerized Ragweed Antigen E. II. In Vivo Elimination Studies and Reactivity with IgE Antibody Systems. ROY PATTERSON, IRENA M. SUSZKO, JACOB J. PRZANSKY, AND C. RAYMOND ZEISS .................. 1413

IMMUNOGENETICS AND TRANSPLANTATION

Complementary Genes Controlling Immune Response to θ-AKR Antigen in Mice. MAREK ZALESKI AND FELIX MİLİBOROBN .................. 1388

The Genetics of the Immune Response to a Synthetic Double-Stranded RNA in a Mutant CBA Mouse Strain. IRWIN SCHER, MOLLY M. FRANTZ, AND ALFRED D. STEINBERG .................. 1396

Continued
IMMUNOPATHOLOGY

Cutaneous Basophil Hypersensitivity. IV. The "Late Reaction": Sequel to Jones-Mote Type Hypersensitivity. Comparison with Rabbit Arthus Reaction. Effect of Passive Antibody on Induction and Expression of Jones-Mote Hypersensitivity. ROBERT B. COVLL, VIVIAN W. PNN, BLANCHE A. SIMPSON, AND HAROLD F. DVORAK........................................................................ 1279

Studies on Brain Antigens. VI. Prevention of Experimental Allergic Encephalomyelitis by a Water-Soluble Spinal Cord Protein, \( \alpha \)-SCP. CATHERINE F. MACPHERSON AND SU-LAN YO ................................................ 1371

Antigen-Binding Lymphocytes in Normal Man and Guinea Pig to Human Encephalitogenic Protein. LILY L. YUNG, ERWIN DIENER, T. ALEXANDER MACPHERSON, MOIRA A. BARTON, AND HARRY A. HYDE......................... 1383

TUMOR IMMUNOLOGY

Transplantability and Antigenicity of Two Sublines of the TA3 Tumor. BARBARA H. SANFORD, JOHN F. CODINGTON, ROGER W. JEANLOZ, AND PETER D. PALMER ... 1233

VIRAL AND MICROBIAL IMMUNOLOGY

Immunologic Aspects of Hepatitis-Associated Antigen and Antibody in Human Body Fluids. PEARAY L. OGRA ..................................................... 1197

Immunity in Experimental Syphilis. VI. Successful Vaccination of Rabbits with Treponema pallidum, Nichols Strain, Attenuated by \( \gamma \)-Irradiation. JAMES N. MILLER ........................................................................ 1206

Effect of Chronic Viral Infection on the Immune Responsiveness of Mice Chronically Infected with LCM Virus with That of Non-infected Mice. MICHAEL B. A. OLDSTONE, ANTOINETTE TISHON, JACQUES M. CHILLER, WILLIAM O. WEIGLE, AND FRANK J. DIXON ......................... 1268

Host Defenses during Primary Venezuelan Equine Encephalomyelitis Virus Infection in Mice. I. Passive Transfer of Protection with Immune Serum and Immune Cells. STANLEY G. RABINOWITZ AND WILLIAM H. ADLER ....... 1345

Host Defenses during Primary Venezuelan Equine Encephalomyelitis Virus Infection in Mice. II. In Vitro Methods for the Measurement and Qualitation of the Immune Response. WILLIAM H. ADLER AND STANLEY G. RABINOWITZ .... 1354

COMMUNICATIONS

The Antibody-Antigen Reaction: A Visual Observation. IVAR GIAEVER ............... 1424

Suppression of the Antibody Response to SRBC with F(\( \text{ab} ')_2 \) and IgG \( \text{in Vitro} \). WILLIAM M. WASON AND FRANK W. FITCH .............................................................. 1427

\( \beta_2 \)-Microglobulin Production and Secretion by Lymphocytes in Culture. M. D. POUKIR AND A. D. BLOOM ................................................................. 1430

Immunocompetent Cells of the Chicken. III. Cooperation of Carrier-Sensitized T Cells from Agammaglobulinemic Donors with Hapten Immune B Cells. F. I. WEINBAUM, D. G. GILMOUR AND G. J. THORBECKE .... 1434

Long-Term Spontaneous Tumor Incidence in Neonatally Thymectomized Mice. BARBARA H. SANFORD, HENRY I. KOHN, JAMES J. DALY, AND SOPHIE F. S0O ........ 1437

Effects of Carrageenan and High Serum Dilution on Synergistic Cytotoxicity to Tumor Cells. SYLVIA POLLACK AND KAREN NELSON ......................... 1440

Lymphokine Toxicity for Yeast Cells. NANCY N. PEARSELL, JOHN S. SUNDSMO AND RUSSELL S. WEISER ............................................................ 1444

Site of Deposition of C3 in Arthus Reactions of C4 Deficient Guinea Pigs. MICHAEL M. FRANK, L. ELLMAN, I. GREEN, AND CHARLES G. COCHRANE ........... 1447

C3 Split Products Inhibit the Binding of Antigen-Antibody-Complement Complexes to B Lymphocytes. ALINE EDEN, CELSO BIANCO, VICTOR NUSSENZWEIG, AND MANFRED M. MAYER ........................................................................ 1452