THE JOURNAL OF IMMUNOLOGY®

Contents for February

CELLULAR IMMUNOLOGY

Delineation of B and T Lymphoid Cells in the Chicken. Boris Albini and Georg Wick ........................................ 444
The Effect of Anti-Plasma Cell Serum on B Cells. Hideo Naruichi and Tyoku Matuhisa ........................................ 462
Production of Colony-Stimulating Factor in Mitogen-Stimulated Lymphocyte Cultures. John W. Parker and Donald Metcalf ........................................................................ 502
Identification and Quantitation of Thymus-Derived Lymphocytes in Human Peripheral Blood. Arthur M. Bobrove, Samuel Strober, Leonard A. Herzenberg, and Jean D. DePamphilis .................................................... 520
In Vitro Anamnestic Response of Rabbit Lymph Node Cells: Evidence for Cell Collaboration in Induction and Regulation. Abram B. Stavitsky and Richard G. Cook ................................................................. 583
Evaluation of T Lymphocyte Effector Function in Immunodeficiency Diseases: Abnormality in Mitogen-Stimulated Interferon in Patients with Selective IgA Deficiency. Lois B. Epstein and Arthur J. Ammann ................................................................. 617
Similarity of Migration Inhibitory Factor(s) Produced by Human Lymphoid Cell Line and Phytohemagglutinin and Tuberculin-Stimulated Human Peripheral Lymphocytes. Photini S. Papageorgiou, Carol F. Sorokin, and Philip R. Glade ........................................................................ 675
Antigen-Induced Proliferation of Guinea Pig Lymphocytes in Vitro: Functional Aspects of Antigen Handling by Macrophages. James A. Waldron, Jr., Robert G. Horn, and Alan S. Rosenthal ........................................................................ 746
Endotoxin Stimulated Spleen Cells: Mitogenesis, the Occurrence of the C3 Receptor, and the Production of Immunoglobulin. Bobby J. Gormus, Richard B. Cran dall, and Joseph W. Shands, Jr. ........................................................................ 770
Regulation of Homocytotropic Antibody Formation in the Rat. IX. Further Characterization of the Antigen-Specific Inhibitory T Cell Factor in Hapten-Specific Homocytotropic Antibody Response. Ko Okumura and Tomio Tada ........................................................................ 783
Antibody-Mediated Target Cell Lysis by Nonimmune Cells: The Use of Anti-Immunoglobulin to Distinguish Effector Cell Populations. Klaus Resch, Erwin W. Geldand, and Marlot Prester ........................................................................ 792
The Distribution of Lymphocytes with T- and B-Cell Surface Markers in Human Bone Marrow. Luis Borella and Luisa Sen ........................................................................ 836
Effect of Rifamycin-SV Derivatives on Immunologic Responses in Culture. David Osoba ........................................................................ 844

IMMUNOCHEMISTRY

Determination of Soluble Immune Complex Molar Composition and Antibody Association Constants by Ammonium Sulfate Precipitation. William P. Arend and Mart Mannik ........................................................................ 451
Ontogeny of Peyer's Patches and Immunoglobulin-Containing Cells in Pigs. Harold A. Chapman, John S. Johnson, and Max D. Cooper ........................................................................ 555
Effect of Irradiation and Cyclophosphamide on Anti-KLH Antibody Formation in Mice. Phillip E. Hoffsten and Frank J. Dixon ........................................................................ 564
A Sequence Restriction in the Variable Region of Immunoglobulin Light Chains from Sharks, Birds, and Mammals. Thomas Stanton, Carlos Sledge, J. Donald Capra, Roy Woods, William Clem, and Leroy Hood ........................................................................ 633
Characterization and Properties of an Anaphylactic 7S Antibody in Sheep. Maria B. Estevés, Osvaldo A. Sant'Anna, Vera C. dos Annes, and Rubén A. Binaghi ........................................................................ 722
A Quantitative Radioisotopic Assay for Hemolytic Antibody by Employing Technetium-99m Labeled Erythrocytes. Rolfe F. Barth and Om SINGLA ........................................................................ 756
Activation of the Classic and Alternate Complement Pathways by Endotoxin. Douglas P. Fine ........................................................................ 763
The IgM and IgA Immune Response to the TNP Determinant Group in BALB/c Mice. Peter Mauch, S. H. Bridges, K. D. Little, and J. Russell Little ........................................................................ 812
IMMUNOGENETICS AND TRANSPLANTATION

Allelic Selection of Light Chain Allotypes by Antibodies Raised in Heterozygous Rabbits. THOMAS J. KINDT ................................................................. 601

Antibodies Specific for the 6- and Ly-Alloantigens in Various Rabbit Antisera. RUTH RABINOWITZ, ADA COHEN, REUVEN LASKOV, AND MICHAEL SCHLESINGER .......... 683

Cytotoxic Antibodies and Lymphocytes Induced by Orthotopic Tooth Bud Allografts in Mice. GEORGES R. RIVIERE ......................................... 776


Interaction of Complement with Antigen-Antibody Complexes of Rabbit Allootypic Antigens and Their Corresponding Antibodies. MITSUAKI KAKINUMA ..................... 830

IMMUNOPATHOLOGY

Protection against Autoimmune Thyroiditis in Guinea Pigs by Thyroglobulin Antiserum. GORDON C. SHARP, HENRY W. WORTIS, ROBERT L. LA ROQUE, HELEN MULLEN, AND MICHAEL KYRIAKOS ...................................................... 468

Production of Augmented Experimental Autoimmune Thyroiditis Lesions by Combined Transfer of Antiserum and Lymph Node Cells. GORDON C. SHARP, HELEN MULLEN, AND MICHAEL KYRIAKOS ...................................................... 478

Characteristics of Secretory Immune System in Human Middle Ear: Implications in Otitis Media. PHILIP L. OGAWA, JOEL M. BURNETT, ANTHONY M. YURCHAK, PETER R. COTTOLA, AND THOMAS B. TOMASH, JR. .................................................. 488

Cyclic AMP Content and Histamine Release in Rat Mast Cells. ALICE R. JOHNSON, NEIL C. MORAN, AND STEVEN E. MAYER ........................................... 511

Activation of Rat Mast Cells by Low Molecular Weight Stimuli. D. C. MORRISON, J. F. ROSIER, P. M. HENSON, AND C. G. COCHRANE ..................................... 573

Studies on the Species- Variability of Experimental Allergic Encephalomyelitis in Guinea Pigs. ROBERT H. SWANSONG, JAMES E. SWEPSON, AND ROBERT G. SAEK ........................................... 594

Adsorption Properties in Vitro and in Vivo of Antibodies Raised against Rat Brain Blood Vessels. EUGENE D. DAY, LEWIS C. RIGSBEE, JR., THOMAS ROSENTHAL, AND JANET C. SHIH ........................................................................... 607

Identification of Cells Infiltrating the Minor Salivary Glands in Patients with Sjo- gren's Syndrome. THOMAS M. CHUSE, JOHN A. MURPHY, MICHAEL M. FRANK, AND IRA GREEN .................................................. 636

Cyclic AMP, ATP, and Reversed Anaphylactic Histamine Release from Rat Mast Cells. MICHAEL KALINER AND K. FRANK AUSTEN ...................... 644

Lymphocyte Interferon Production and Transformation after Herpes Simplex Infections in Humans. LUCILLE E. RASMUSSEN, GEORGE W. JORDAN, DAVID A. STEVENS, AND THOMAS C. MERIGAN ........................................... 728

TUMOR IMMUNOLOGY

Serum Factors in Mammary Neoplasia: Enhancement and Antagonism of Spleen Cell Activity in Vitro Detected by Different Methods of Serum Factor Assay. PHYLLIS B. BLAIR AND MARY ANN LANE ........................................... 439

In Vitro Detection of Immune Responses to MTV-Induced Mammary Tumors: Activity of Spleen Cell Preparations from Both MTV-Free and MTV-Infected Mice. PHYLLIS B. BLAIR, MARY ANN LANE, AND MARY J. YANG ........................................... 603

Evidence for Immunologic Protection against Murine-Sarcoma Virus-Induced Tumors by T Lymphocytes from Immune Animals. REGINALD M. GORCGYNSKI ........................................... 533

Tumor Induction by Immunologically Activated Murine Leukemia Virus: Cellular Immunity Early in the Graft-vs-Host Reaction. NANCY H. RUDDELL, MARTINE Y. K. ARMSTRONG, AND FRANK F. RICHARDS ........................................... 706

VIRAL AND MICROBIAL IMMUNOLOGY

Early Appearance of Sensitized Lymphocytes in Mice Infected with Listeria Monocytogenes. ROLF M. ZINKERNAGEL, ROBERT V. BLANDEN, AND RODNEY E. LANGMAN ........................................... 496

Antiserum to Human Cytomegaloviruses Prepared in the Guinea Pig: Specific Immuno- fluorescence and Complement Fixation Tests. YUNG-TSUN HUANG, ENG-SHANG HUANG, AND JOSEPH S. PAGANO ........................................... 528

Polyribitol Phosphate: An Antigen of Four Gram-Positive Bacteria Cross Reactive with the Capsular Polysaccharide of Haemophilus influenzae Type b. MEIR ARGAMAN, TEO YUNG LIU, AND JOHN B. ROBBINS ........................................... 649

Specificity of IgM and IgG Antibodies after Challenge with Antigenically Related Toxoviruses. E. G. WESTAWAY, A. J. DELLA-PORTA, AND BREVERLY M. REEDMAN ........................................... 656

The Role of T-Lymphocytes in the Primary Humoral Antibody Response to Brucellosis. AUDREY J. TINGLE AND JOSEPH SHUSTER ........................................... 716

The Role of Iron in Nonspecific Resistance to Infection Induced by Endotoxin. RON ALD J. ELIN AND SHELDON M. WOLFF ........................................... 737

COMMUNICATIONS

Tolerance and Contact Sensitivity to DNFB in Mice II. Specific in Vitro Stimulation with a Hapten, 2,4-Dinitrobenzene Sulfonic Acid (DNB,SO4Na). PRAPHAN PHANUPHAK, JOHN W. MOOREHEAD, AND HENRY N. CLAMAN ........................................... 849
Effect of Phytohemagglutinin on Expression of Human Histocompatibility Antigens.

Dharam P. Singal, Valentine R. Villanueva, and Naresh Naipaul...... 852

Cell Interactions between Histoincompatible T and B Lymphocytes. V. Failure of Histoincompatible T Cells to Interfere with Physiologic Cooperation between Syngeneic T and B Lymphocytes. David H. Katz, Toshiyuki Hamaoka, Martin E. Dorf, and Baruj Benacerraf.......................... 855

Immunosuppressive Effects of Anti-lymphocyte Serum in Complement Deficient Mice. II. Evidence That Activity is Mediated by C3 Independent Antibodies. Rolf F. Barth, Om Singla, and Peter A. Ward........................................... 858

Human T Lymphocyte Receptors for Sheep Erythrocytes: Conditions for Binding Including Inhibition by Cytochalasin B. John H. Kersey, Denis J. Hom, and Peter Buttrick............................................... 862

Failure of Terminal Complement Components to Induce Lysis of Moloney Virus Transformed Lymphocytes. Neil R. Cooper, Margaret J. Colley, and Michael B. A. Oldstone............................................. 866