This information is current as of April 13, 2017.
CONTENTS

NUMBER 1, JULY 1969

IMMUNOCHEMISTRY

Development of Human Complement System. Philip Fireman, Dolores A. Zuchowski and Paul M. Taylor ................................................................. 25

Inactivation of Bacteriophage T4, of Poly-d-alanyl Bacteriophage and of Penicilloyl Bacteriophage by Immuno-specifically Isolated IgM and IgG Antibodies. Joseph Haimovich and Michael Sela ................................................................. 45

A Simplified Procedure for the Preparation of Immunoglobulin-Class-Specific Antisera. Christopher S. Henney and Kimishige Ishizaka ................................................................. 56

Immuno-Precipitates of Some Purified and Unpurified Human Plasma Proteins with Monospecific and Polyvalent Human Plasma Protein Antisera. M. Ceska ................................................................. 100

“Sandwich” Solid Phase Radioimmunoassay for the Quantitative Determination of Human Immunoglobulins. Sydney E. Salmon, Gail Mackey and H. Hugh Fudenberg ........... 129

IMMUNOGENETICS

Genetic Control of the Immune Response in Mice. I. Segregation Data and Localization to the Fifth Linkage Group of a Gene Affecting Antibody Production. David L. Gasser ....... 66

Immunoochemistry and Genetics of a “New” Allotypic Specificity A24 of Rabbit γG Immunoglobulins: Recombination in Somatic Cells. S. Dubiski ................................................................. 120

CELLULAR IMMUNOLOGY

Genetic Factors in Leucocyte Responses to Endotoxin: Further Studies in Mice. Barnet M. Sultzer ................................................................. 32

Lysosome Stabilization by Leukoeyte Granule Membrane Antiserum. Robert H. Persellin ....... 39

Effects of Temperature upon “Naturally Occurring” Blood Group Agglutinins in Fresh Water Catfish. William J. Kuhns, Ross F. Nigrelli and Joseph V. Chuba ................................. 62

A Role of Macrophages in the Stimulation of Immune Responses by Adjuvants. Emil R. Unanue, Brigitte A. Askonas and Anthony C. Allison ................................................................. 71

The Effect of Carrageenan on Delayed Hypersensitivity Reactions. Howard J. Schwartz and Sidney Leskowitz ................................................................. 87

IMMUNOPATHOLOGY

Antibody in Nasal Secretions after Intramuscular Injection of Influenza Virus Vaccine in Persons with Chronic Bronchopulmonary Disease. Robert H. Alford ................................................................. 20

Tolerance Induction with Thymus Grafts in Neonatally Thymectomized Mice. O. Stutman, E. J. Yunis and R. A. Good ................................................................. 92

A Graft vs. Host Reaction in a Xenogeneic Combination: The Reaction of Murine Cells in Rats. Wasfy Saleh, Lloyd D. MacLean and Julius Gordon ................................................................. 114

MICROBIAL AND VIRAL IMMUNOLOGY

Delayed Hypersensitivity and Inhibition of Macrophage Spreading: in Vivo and in Vitro Studies of Tuberculin and Streptococcal Hypersensitivities in Guinea Pigs. Dragan Dekaris, Robert M. Fauve and Marcel Raynaud ................................................................. 1

Identification of an Antigen and Specific Antibody in the Sera of Chickens Infected with Plasmodium gallinaceum. A. R. Smith, J. D. Lykins, E. W. Voss and M. Ristie ................................................................. 6

Serologic Activity of Antigen Isolated from the Body Fluid of Ascaris suum. José Oliver-González, Patricia Hurbrink, Encarnita Conde and Irving G. Kagan ................................................................. 15

The Immunologic Response of the Mouse to Aerosols of an Attenuated Encephalomyocarditis Virus Strain. Catherine M. Prato and Thomas G. Akers ................................................................. 79

A Study of the Neutralization of Rhinoviruses by Means of a Plaque-Reduction Test. Milan Fiala ................................................................. 107
COMMUNICATIONS

"In Vitro" Cell Reactions in Delayed Hypersensitivity. S. B. Salvin and Jane Nishio ............ 138
Specific Antisera to Cls: Detection of Different Electrophoretic Species of Cls. Kazuyoshi Nag- 
aki and Robert M. Stroud ........................................................... 141
Identification of IgA in Rat Serum and Secretions. D. R. Nash, J. P. Vaerman, H. Basin and 
J. F. Heremans ............................................................................ 145

NUMBER 2, AUGUST 1969

IMMUNOCHEMISTRY

Antimucopeptide Antibodies and Their Specificity. Mary Rolicka and James T. Park .......... 196
Human IgG and IgA Diphtheria Antitoxins in Serum, Nasal Fluids and Saliva. Richard W. New-
comb, Kimishige Ishizaka and Bonita L. DeVald .................................. 215
Immunochromal Studies of the Phytohemagglutinin, Concanavalin A. Donald A. Person and 
Harold Markowitz ................................................................. 225
The Production of Tolerance to Human Erythrocytes in the Rat with Cytosine Arabinoside or 
Cyclophosphamide. Robert O. Gordon, Madlyn E. Wade and Malcolm S. Mitchell ........ 233
Characterization of Human Precipitating Antibody to Inhaled Antigens. Jordan N. Fink, Thomas 
Tebo and Joseph J. Barboriak ..................................................... 244
Dean L. Mann, G. Nicholas Rogentine, John L. Fahey and Stanley Nathenson .............. 282
Interaction of Concanavalin with Polysaccharides of Histoplasma capsulatum. Harold Marko-
owitz ....................................................................................... 308
Studies on the Antigenicity of Bacterial Ferredoxins. I. The Effect of Modification of Cysteinyl 
Residues on the Antigenicity of Clostridium pasteurianum Ferredoxin. Rodney M. Nitz, 
Barbara Mitchell, Julia Gerwing and John Christensen ........................................... 319
Characterization of the Serum and Secretory Immune Systems of the Cow and Sheep. Albert L. 
Sullivan, Robert A. Prendergast, Lucyn Jones Antunes, Arthur M. Silverstein and Thomas B. 
Tomasj Jr. ................................................................................. 334
Metabolic Studies of a Heavy Chain Disease Protein. Daniel Ein and Thomas A. Waldmann .... 345

IMMUNOGENETICS

Identification and Genetic Control of Two New Low-Density Lipoprotein Allotypes: Phenogroups 
at the Lpq Locus. John J. Albers and Sheldon Dray ........................................ 155
Allergic Exclusion and Phenogroup Expression in Individual Molecules of Rabbit Low-Density 
Lipoprotein Allotypes. John J. Albers and Sheldon Dray ..................................... 163

CELLULAR IMMUNOLOGY

Lymphocyte in Vitro Cytotoxicity: Correlation of Derepression with Release of Lymphotoxin 
from Human Lymphocytes. Terry W. Williams and Gale A. Granger ....................... 170
Capillary Tube Migration for Detection of Human Delayed Hypersensitivity: Difficulties Encoun-
tered with "Buffy Coat" Cells and Tuberculin Antigen. H. Benfer Kaltreider, David 
Soghor, Janie B. Taylor and John L. Decker .............................................. 179
The Suppressive Effect of Rauscher Leukemia Virus on the Secondary Antibody Response of 
Spleen Cells Cultured in Cell-Impermeable Diffusion Chambers. Luis Borella ................ 185
Joel Ruskin, Jean McIntosh and Jack S. Remington ........................................... 252
Specificity of the Immunosuppression Caused by Passive Administration of Antibody. Jean-
Charles Cerottini, Patricia J. McConahey and Frank H. Dixon .............................. 268
Studies on the Radioresistant Phase of the Antibody Response in Rabbits. II. Recovery and the 
Secondary Response. James F. Pribnow and Myron S. Silverman ......................... 276
The Effect of Dose of Antigen on Protein and DNA Synthesis in Antibody-Forming Cells. Sohei 
Shinka and Jonathan W. Uhr .................................................................. 300
Leukemia L 1210 Homograft in Swiss Mice: Immunologie, Cellular and Chemotherapeutic Re-
sponses. Herbert N. Prince and E. Grunberg .................................................. 324
A Study of the Kinetics of the Anti-Dinitrophenyl Antibody Response at the Cellular Level. H. 
Francis Havas and Tomáš Hrabá ......................................................... 349
Antibody Formation against 2,4-Dinitrophenyl-Hapten at the Cellular Level. Hemolytic Plaque-in-Gel Assay for Lymphoid Cells Producing Anti-2,4-Dinitrophenyl-Hapten Antibody. Hisashi Yamada and Atsuko Yamada ......................................................... 357

IMMUNOPATHOLOGY
Complement (C')-Coated Red Blood Cells following Infection with the Virus of Equine Infectious Anemia. T. C. McGuire, J. B. Henson and D. Burger ............................... 293
Studies on Lymphocyte Transformation in Nephrotoxic Serum Nephritis of the Rat. Hermut Warnatz, Friedrich Scheiffarth and Friedrich Hagel ....................................... 364

MICROBIAL AND VIRAL IMMUNOLOGY
Cross-Reactions among Group A Streptococci. II. Further Analysis of Antigens Related to Type-Specificity and Protection. Grove G. Wiley and Pauline N. Bruno ......................... 149
Assessment of a Bacterial Adherence Colony (BAC) Method for Enumeration of Antibody-Forming Cells to \textit{E. coli} Somatic Antigen. Herman Friedman, Jerry Allen and Maurice Landy ............................. 204
Comparative Immune Response to Amphibian Cytoplasmic Viruses Assayed by the Complement-Fixation and Gel Immunodiffusion Tests. Suzanne Kaminski, H Fred Clark and David T. Karzon ................................................................................... 260

COMMUNICATIONS
Susceptibility of Chincoteague Ponies to Antigenically Dissimilar Strains of Human Type A2 Influenza Virus. Julius A. Kasel, Robert V. Fulk and Edward W. Harvey .................... 369
Effect of Antimacrophage Serum on Antibody Production and Phagocytosis in Mice. Bertie F. Argyris and Diane H. Plotkin ........................................................... 372
High Efficiency of SAC1\textsubscript{ed4}\textsuperscript{2} Conversion to S* with EDTA-Treated Rat Serum. Yuro Miyakawa, Teruaki Sekine, Kohkichi Shimada and Kusuya Nishioka ........................................... 374
The Use of Affinity Chromatography for the Specific Purification of Antibodies and Antigens. Leon Wofsy and Benjamin Burr ........................................................... 380
Enhancing Antibody. II. Specificity and Heterogeneity. Barry Zimmerman and Joseph D. Feldman .................................................................................. 383

NUMBER 3, SEPTEMBER 1969

IMMUNOCHEMISTRY
The Effect of Carbamylation, Amidination and Benzylation on the Ability of Rabbit \gamma G Antibody to Produce Passive Cutaneous Anaphylaxis in Guinea Pig and Rabbit Skin. Stanley Cohen, Lawrence Feinman and Elmer L. Becker ........................................... 387
The Latency Requirements and Rate of Evolution of Passive Cutaneous Anaphylactic Reactions Produced by Untreated and Carbamylated Rabbit \gamma G Antibody. Lawrence Feinman, Stanley Cohen and Elmer L. Becker .................... 395
Non-Complement-Fixing IgM Antibodies in the Guinea Pig. William D. Linscott and Stephen S. Hansen ............................................................................. 423
The Immunoglobulins of Equine Colostrum and Parotid Fluid. Robert J. Genco, Lewis Yecies and Fred Karush ........................................................... 437
Immunoglobulin E in the Monkey. Kimishige Ishizaka, Teruko Ishizaka and Tomio Tada .... 445
Protein A from \textit{Staphylococcus aureus}. IX. Complement-Fixing Activity of Protein A-IgG Complexes. J. Sjöquist and G. Stålenheim ........................................................... 467
Complement : Chemical Coupling of a Functionally Active Component to Erythrocytes in the Absence of Antibody. William D. Linscott, W. Page Faulk and Philip J. Perucca ............................. 474
Quantitative Studies of the Specificity of Anti-Pneumococcal Antibodies, Types III and VIII. IV. Binding of Labeled Hexaxasecarhides Derived from S3 by Anti-S3 Antibodies and Their Fab Fragments. Moshe Katz and A. M. Pappenheimer, Jr. .... 491
The Specificity of the Early Immune Response. I. A Comparison of the Specificity of Delayed Hypersensitivity and Humoral Responses following Immunization with Human \( \gamma \)G Globulin. Christopher S. Henney ............................................................... 519

Multi-Compartment Distribution Analysis of Antibrain Radioantibodies in Density Gradients. Eugene D. Day and Sylvester Lassiter ............................................................. 550

Immunoglobulins of the Rhesus Monkey (Macaca mulatta). IV. Characteristics of the Primary and Secondary Responses of the Rhesus Monkey to Heterologous Serum Protein Antigens. James D. Lakin, Roy Patterson and Jacob J. Pruzansky .................................................. 577

Immune Mechanisms of Reversed Type Reaginic Hypersensitivity. Kimishige Ishizaka and Teruko Ishizaka ........................................................................ 588


IMMUNOGENETICS

The Effect of the Amount of Mycobacterial Adjuvants on the Immune Response of Strain 2, Strain 13 and Hartley Strain Guinea Pigs to DNP-PLL and DNP-GL. Ira Green, Baruj Benacerraf and Sanford H. Stone ........................................................................ 403

Differences between Populations of Fresh Water Catfish Defined by Blood Group Antigens and Antibodies. William J. Kuhns, Ross F. Nigrelli and Joseph V. Chuba ........................................................................ 454

CELLULAR IMMUNOLOGY


Effects of Radiation on the Initial and Anamnestic IgM Hemolysin Responses in Rabbits; Antigen Injection after X-Rays. William H. Taliaferro and Lucy Graves Taliaferro .................................................. 559

Factors in Delayed Sensitivity: Lymphocyte and Macrophage Cytotoxins in the Tuberculin Reaction. E. R. Heise and R. S. Weiser ........................................................................ 570

IMMUNOPATHOLOGY

A Neutrophil Chemotactic Factor Derived from C5 upon Interaction of Guinea Pig Serum with Endotoxin. R. Snyderman, H. S. Shin, J. K. Phillips, H. Gewurz and S. E. Mergenhagen ........................................................................ 413

Persistence of the Autoimmune Pathogenetic Process in Experimental Autologous Immune Complex Nephritis. Thomas S. Edgington, Sun Lee and Frank J. Dixon ........................................................................ 528


Rabbit Autoantibodies to Aorta. Hans W. Intorp and Felix Milgrom ........................................................................ 544

Distribution Analysis of Brain-Localized Radioantibodies after Zonal Ultracentrifugation in a Sucrose Density-Gradient. Eugene D. Day and Lewis C. Riggsbee ........................................................................ 556

MICROBIAL AND VIRAL IMMUNOLOGY

Specific Role of Each Human Leukocyte Type in Viral Infections. III. 17D Yellow Fever Virus Replication and Interferon Production in Homogeneous Leukocyte Cultures Treated with Phytohemagglutinin. E. Frederick Wheelock and Robert Edelman ........................................................................ 429

Immunosuppression by Leukemia Viruses. III. Adoptive Transfer of Antibody-Forming Cells to Friend Disease Virus-Infected Mice. Walter S. Ceglowski and Herman Friedman ........................................................................ 460

Particulate and Soluble Antigens of Rickettsia tsutsugamushi in the Complement Fixation Test. Akira Shishido, Michiko Hikita, Takeshi Sato and Seiya Kohno ........................................................................ 480

Mechanism of Bacteriophage T4 Neutralization by Rabbit Immunoglobulin and Its Proteolytic Digestion Fragments. G. W. Stemke ........................................................................ 596

COMMUNICATIONS

Production of Anti-Hapten Antibodies by Several Classes of Lower Vertebrates. Gerrie A. Leslie and L. William Clem ........................................................................ 613

Ultrastructural Identification of Possible Sites of Antigen Processing in Macrophages. Phillip J. Catanzaro, Richard C. Graham, Jr. and Howard J. Schwartz ........................................................................ 618
Insoluble Immunoadsorbents Containing Anti-IgE: Removal of Reaginic Activity and Subsequent Elution. K. Ito, K. Wicher and C. E. Arbesman .......................................... 622

NUMBER 4, OCTOBER 1969

IMMUNOCHEMISTRY

7Sγ1, 7Sγ2 and IgM Immunoglobulins in the Deer Mouse (Peromyscus maniculatus). John E. Coe ................................................................. 639
Protein-Carbohydrate Interaction. XIX. The Interaction of Concanavalin A with IgM and the Glycoprotein Phytohemagglutinins of the Waxbean and the Soybean. I. J. Goldstein, Lucy L. So, Yvonne Yang and Q. C. Callies ................................................... 695
Studies on the Immunochemical Properties of Aggregates and Subunits of Fe of Rabbit γG Globulins. Kenneth Amiraian and Zoltan Ovary ..................................................... 716
Immuoenzymology of AMP-Deaminase. Donald Selig and Oscar P. Chilson .......... 726
Effect of 2-Mercaptoethanol on 7S Rabbit Antibodies to Various Homologous and Heterologous Antigens. Constance E. Brinckerhoff, Robert C. Brown and Noel R. Rose .............................................. 757
Varying Specificity of Systemic Lupus Erythematosus Sera for Histone Fractions and a Periodate-Sensitive Antigen Associated with Histone. B. David Stollar ........................................... 804
The Binding Reactions of Antibodies Specific for the 2,6-Dinitrophenyl Group. J. Russell Little, Wayne Border and Ralph Freidin ..................................................... 809
Differences in Anti-Protein A Activity among IgG Subgroups. Göran Kronvall and Ralph C. Williams, Jr .............................................................. 828

IMMUNOGENETICS

Allotype Suppression with Anti-β5 Antiserum in b5b5 Homozygous Rabbits Fostered in Uteri of b5b4 Homozygous Mothers: Compensation by Allotypes at Other Loci. John L. Vice, William L. Hunt and Sheldon Dray ............................................................ 629
Identification and Genetic Control of the f4 and f5 Rabbit γA Immunoglobulin Allotypes. Phenogroups at the f Locus. Thomas P. Conway, Sheldon Dray and Edward A. Lichter .................. 662

CELLULAR IMMUNOLOGY

Studies on Heterologous Antilymphocyte and Antithymocyte Sera. IV. Further Evidence for a Preferential Effect on Antigen-Sensitive Cells. Rolf F. Barth ................................. 648
Recruitment and Proliferation of Immunocompetent Cells during the Log Phase of the Primary Antibody Response. Eugene H. Perkins, Toshihiko Sado and T. Makinodan ....... 668
Gamma Globulin Synthesis in Mixed Cultures of Allogeneic Lymphoid Cells. R. V. Petrov and A. A. Mikhailova .......................................................... 679
Ontogenesis of Immune Capability of Murine Bone Marrow Cells and Spleen Cells against Transplantation Antigens. Mortimer M. Bortin, Alfred A. Rimm and Edward C. Saltzstein .......... 683
Effects of Antithymus Serum on Thymic Lymphopoiesis: A Radioautographic Study. Hiroshi Nagaya and Herbert O. Sicker ........................................................................ 778
Isoenzyme Differences between a Human Diploid Cell Line, WI-38, and SV40-Transformed WI-38. Eleanor M. Bartholomew, William R. Bartholomew and Noel R. Rose ............................................. 787
Impaired Activation of Thymus Lymphocytes by Phytohemagglutinin. D. R. Fordsyke ........ 818
Immunoglobulin Production in Synchronized Cultures of Human Hematopoietic Cell Lines. I. Variation of Cellular Immunoglobulin Level with the Generation Cycle. M. Takahashi, Y. Yagi, G. E. Moore and D. Pressman ................................................................. 834

IMMUNOPATHOLOGY

Enhanced Humoral Immunity in Mice Infected with Attenuated Venezuelan Equine Encephalitis Virus. R. J. Howard, C. P. Craig, G. S. Trevino, S. F. Dougherty and S. E. Mergenhagen .... 699
Spontaneous Thyroiditis in the Obese Strain of Chickens. I. Demonstration of Circulating Auto-
antibodies. Ernest Witebsky, Joseph H. Kite, Jr., Georg Wick and Randall K. Cole ........ 708
Immunofluorescence Studies on the Anatomic Distribution of the Soluble Antigen Responsible
for the Production of Nephrotropic Serum Nephritis. Toshihiko Nagasawa and Seiichi Shibata
Experimental Murine Amyloid. IV. Amyloidosis and Immunoglobulins. James T. Willerson,
Richard Asofsky and Werner F. Barth ............................................................ 741
Raseng Type of Antibody in Mice Stimulated by Extracts of Bordetella pertussis. C. R. Clausen,
J. Munoz and R. K. Bergman ............................................................. 768
Studies of Cyclophosphamide Suppression of Experimental Allergic Encephalomyelitis in Wistar
Rats. Philip Y. Paterson and Margaret A. Hanson ........................................ 795

MICROBIAL AND VIRAL IMMUNOLOGY

In Vitro Immune Responses of Rabbits with Persistent Adenovirus Type 5 Infection. Rhoda A.
Reddick and Stanley S. Lefkowitz ......................................................... 687
Immunosuppression by Antigen-Associated Human Serum Alpha-One Protein. H. Y. Whang,
D. Chun and E. Neter ....................................................................... 824
Induction of Delayed Hypersensitivity to Influenza and Mumps Viruses in Mice. Stephen M.
Feinstone, Edwin H. Beachey and Michael W. Rytel ....................................... 844
Studies on the Neutralization of Japanese Encephalitis Virus. II. Variations in Reaction Prop-
ties of Virus to Antibody during Replication in PS Cell Cultures. Yoshikatsu Ozaki and
Keiko Kumagai ........................................................................... 850

COMMUNICATIONS

Coproantibodies to Milk: Identification by Radioimmunoelectrophoresis. B. Kletter, S. Freier,
A. M. Davies and I. Gery ............................................................. 857
The Use of Concanavalin A for Distinguishing IgM from IgG Antibody-Producing Cells. Albert
A. Nordin, Humberto Cosenza and Walter Hopkins ........................................ 859
Purification of the First Component of Complement by Zonal Ultracentrifugation. Harvey R.
Colten, Howard E. Bond, Tibor Borsos and Herbert J. Rapp ............................... 862
Chlorphenesin: A New Inhibitor of IgE-Mediated Histamine Release. Lawrence M. Lichtenstein
and N. Franklin Adkinson ........................................................................ 866
Immunologic Cross-Reactivity of Escherichia coli B Envelope Glycoproteins with Some Animal
and Plant Cell Membrane Proteins. Shinichi Okuda and George Weinbaum .......... 869
Myeloma Proteins with Anti-Hapten Antibody Activity: -2,4-Dinitrophenyl Lysine Binding
by the Protein Produced by Mouse Plasmacytoma MOPC-460. Bernard M. Jaffe, Herman N.
Eisen, Ernest S. Simms and Michael Potter ................................................ 872
A Small Molecular Weight Permeability Factor in Guinea Pig Serum: Adsorption to Antigen-
Antibody Aggregates. Henry Z. Movat, Mary P. Trelaar and Yuko Takeuchi .......... 875

NUMBER 5, NOVEMBER 1969

IMMUNOCHEMISTRY

Studies on Passive Hemagglutination. I. Titration of "Early" and "Late" Antibodies with
Tanned Red Cells Sensitized with Native or Denatured Bovine Serum Albumin. Gerald
Wolberg, Chi Tan Liu and Frank L. Adler .................................................. 879
Immunochemical Studies on the Poly-γ-d-Glutamyl Capsule of Bacillus anthracis. VI. The in
Vivo Fate and Distribution in Immunized Rabbits of the Polypeptide in Immunogenic and
Nonimmunogenic Forms. Georges E. Roelants, Laura F. Whitten, Ann Hobson and Joel W.
Goodman .................................................................................... 937
Two Anticomplementary Factors in Cobra Venom: Hemolysis of Guinea Pig Erythrocytes by
One of Them. Mark Ballow and Charles G. Cochrane ..................................... 944
Anti-Thymus Cytotoxicity: Identification and Isolation of Rat Thymus-Specific Membrane Anti-
gens and Purification of the Corresponding Antibodies. R. Bachvaroff, P. Galdiero and P.
Grabar ................................................................................. 953
Isolation and Characterization of Free -Chain of Immunoglobulin Produced by an Established
Cell Line of Human Myeloma Cell Origin. II. Identity of -Chains in Cells and in Medium.
Y. Matsuoka, Y. Yagi, G. E. Moore and D. Pressman ..................................... 962
Comparison of Various Avian and Mammalian IgG Immunoglobulins for Salt-Induced Aggregation. Ralph T. Kubo and Albert A. Benedict ............................................. 1022
Distribution of Antigen-Binding Sites on Rabbit IgM Subunits. J. E. Coligan and D. C. Bauer.. 1038
Comparison of the Effects of Divalent Ion Chelating Agents on Complement-Mediated Hemolysis in Rabbit and Human Serum. Samuel R. Marney, Jr. and Roger M. des Prez ............................ 1044
Reaginic Antibody against Insulin: Demonstration of Antigenic Distinction between Native and Extracted Insulin. Roy Patterson, Guillermo Lucena, Robert Metz and Mary Roberts ................. 1061
The Antigenic Subunits of Influenza Viruses. II. The Spectrum of Cross Reactions. S. Fazekas de St. Groth .............................................................................. 1107
Inhibitor of Human C3 Associated with Preparations of C3 Dissociated from C3-Zymosan Complex. Livia Blum .......................................................................... 1116
Structural Localization of Isotypic Markers on Mouse Myeloma γG Globulins. G. A. Medgyesi, G. Gorini and G. Doria ................................................................... 1125
Heterogeneity of Mouse Myeloma γG Globulins as Revealed by Enzymatic Proteolysis. G. Gorini, G. A. Medgyesi and G. Doria ........................................................................ 1132

IMMUNOGENETICS
Studies on the Polylysine Immune Responder Gene: The Rank Order of Immunogenicity of Dinitrophenyl Conjugates of Basic Homopolyamino Acids in Guinea Pigs. Bernard B. Levine ............................................................... 931
On Mouse Complement: Genetic Variants. L. T. Rosenberg and D. K. Tachibana .......................... 1143

CELLULAR IMMUNOLOGY
Immunosuppression by Antibody: Localization of Site of Action. R. J. W. Ryder and Robert S. Schwartz .......................................................... 970
Assay for the Immunosuppressive Capacity of Antilymphocyte Serum. I. Evidence for Opsonization. William John Martin ........................................ 970
Assay for the Immunosuppressive Capacity of Antilymphocyte Serum. III. Opsonizing Activity of Anti-Human Lymphocyte Serum. William John Martin ......................... 1000
An Immunofluorescence Study of the in Vitro Interaction between Lymphoid Cells and Target Cells. Junius M. Clark and Leon Weiss .................................................. 1006
In Vitro Studies with "Transfer Factor": Transfer of the Cell-Migration Inhibition Correlate of Delayed Hypersensitivity in Humans with Cell Lysates from Humans Sensitive to Histoplasmin, Coccioidioidin, or PPD. Ronald E. Paque, Peter J. Kniskern, Sheldon Dray and Peter Baram .............................................................. 1014
Evaluation of the Immunosuppressive Properties of Ribonuclease Complexes. Robert C. Davis, Sidney R. Cooperband and John A. Mannick .................................................. 1029
Surface Antigens on Interspecies Hybrid Cells. Kyoichi Kano, Wanda Baranska, Barbara B. Knowles, Hilary Kopolowski and Felix Milgrom .................................................. 1050
Studies of Lymphocyte Culture: Products of Sensitive Lymphocyte-Antigen Interaction. Lynn E. Spitler and H. S. Lawrence ............................................................ 1072
Blastogenesis of Lymphocytes Induced by PPD-Primed X-Irradiated Autologous Lymphocytes. Shinpei Kasakura ........................................................................ 1078

MICROBIAL AND VIRAL IMMUNOLOGY
Immunoglobulin Responses in Serum and Nasal Secretions after Natural Adenovirus Infections. Joseph A. Bellanti, Malcolm S. Artenstein, Brenda L. Brandt, Barbara S. Klutinis and Edward L. Buescher ........................................................... 891
An Active Interferon Inducer Obtained from Hemophilus influenzae Type B. Erik De Clercq and Thomas C. Merigan .......................................................... 899
The IgM Response of Children to Salmonella typhosa Vaccine. I. Measurements of Anti-Typhoid Concentrations and Their Proportions of Total Serum IgM Globulins. William A. Altemeier, III, Joseph A. Bellanti and Edward L. Buescher .............................................................. 917
The IgM Response of Children to Salmonella typhosa Vaccine. II. Comparison of Amounts of IgM
Specific for the Somatic, Flagellar and Vi Antigens. William A. Altemeier, III, Joseph A. Bellanti and Edward L. Buescher ........................................................ 924
The Toxicity of Meningopneumonitis Organisms (Chlamydia psittaci) at Different Stages of Development. George Christoffersen and G. P. Manire ........................................................ 1085
Serologic Classification of Chimpanzee Adenoviruses by Hemagglutination and Hemagglutination Inhibition. William D. Hills and Rosanne Goodman ........................................................ 1089
Aerosol Immunization of Humans with Tetanus Toxoid. F. M. Wigley, S. H. Wood and R. H. Waldman ........................................................ 1096
The Antigenic Subunits of Influenza Viruses. I. The Homologous Antibody Response. S. Fazekas de St. Groth, R. G. Webster and F. M. Davenport ........................................................ 1099

COMMUNICATIONS
N-Terminal Residues of Heavy Chains of Human IgA Myeloma Proteins. A. C. Wang, J. W. Goodman and H. H. Fudenberg ........................................................ 1149
Further Evidence of the Role of γ1 Guinea Pig Antibodies in Mediating Passive Cutaneous Anaphylaxis (PCA). Victor Nussenzweig, Baruj Benacerraf and Zoltan Ovary ........................................................ 1152
Differentiation of Cross-Reacting Simian Cytomegalovirus Strains by Late 19S Rabbit Neutralizing Antibodies. Berge Hampar, Lidia M. Martos, Dharan V. Ablashi, Robert F. Siguëña and Gladys A. Wells ........................................................ 1155
The Use of Egg Albumin Conjugates for the Purification of Antibody. Halina Szafran, Sam M. Beiser and Barnard F Erlanger ........................................................ 1157

Erratum ........................................................ 1154

NUMBER 6, DECEMBER 1969

IMMUNOCHEMISTRY
Differences in Antigenicity of Human IgG Produced by Three Established Lymphocyte Cell Lines from a Single Individual. Y. Matsuoka, Y. Yagi, G. E. Moore and D. Pressman ........................................................ 1176
Locally Produced Antibody in Human Gastrointestinal Secretions. George W. Kriebel, Jr., Sumner C. Kraft and Richard M. Rothenberg ........................................................ 1268
Reactivity of Polymer (19S) and Monomer (7S) Forms of γM with Anti-γM Serum. Gerald J. Gleich and David A. Loegering ........................................................ 1294
Immunogenicity of Hemocyanins and Their Subunits. Alfred A. Amkraut, Arthur Malley and Donald Begley ........................................................ 1301
Properties of Purified Mouse Homocytotropic Antibody. Thomas A. McVeigh, Jr. and Edward W. Voss, Jr. ........................................................ 1349
Structural and Antigenic Relationships between Avian Immunoglobulins. Gerrie A. Leslie and Albert A. Benedict ........................................................ 1356
Different Specificities in Antiserum Prepared against Escherichia coli Tryptophan Synthetase Subunit. Terence M. Murphy and Stanley E. Mills ........................................................ 1377
The Reaction of Immunoglobulin-Coated Bentonite and Radiodinated Antigen as a Basis for Antibody Detection and Antigen Binding. William C. Cheng and David W. Talmage ........................................................ 1385

IMMUNOGENETICS
Identification and Genetic Control of Two Rabbit Immunoglobulin Allotypes at a Second Light Chain Locus, the e Locus. Alice Gilman-Sachs, Rose G. Mage, Glendowlyn O. Young, Cornelius Alexander and Sheldon Dray ........................................................ 1159
Conversion of Non-Immune Spleen Cells by Ribonucleic Acid of Lymphoid Cells from an Immunized Rabbit to Produce γM Antibody of Foreign Light Chain Allotype. Clara Bell and Sheldon Dray ........................................................ 1196

CELLULAR IMMUNOLOGY
Human Lymphocyte Response to Phytohormones in Vitro: Normal, Agammaglobulinemic and Paraproteinemic Individuals. Steven D. Douglas, Roberta M. Kamin and H. Hugh Fudenberg ........................................................ 1185
Adoptive Transfer of Immunologic Tolerance into Normal Mice. Alfred J. Crowle and C. C. Hu.. 1242

The Production in Chickens of Antibody by Spontaneous Escape following Immunologic Tolerance. C. H. Tempelis and Mary Lofy Rodrick............................................ 1254


The Effects of Heterologous Antithymocyte Sera in Mice. IV. Alteration of the Growth Rate of Plasma Cell Tumors. Mark A. Mandel and Jerome J. DeCosse ............................ 1288


Quantitative and Qualitative Studies on the Primary Antibody Response to Pneumococcal Polysaccharides at the Cellular Level. Philip J. Baker and Philip W. Stashak .................. 1342

Fate of Antigen in Delayed Hypersensitivity and Arthus Reactions. Abraham H. Eisen ........ 1395

The Effect of Heterologous Antigenic Stimulation on Antibody Synthesis in Vitro. Robert G. Krueger.......................................................... 1411

IMMUNOPATHOLOGY

The Presence of Anti-Glomerular Basement Membrane Antibodies in Peripheral Blood. J. J. McPhaul, Jr. and Frank J. Dixon ....................................................... 1168

Impaired Lymphocyte Transformation in Ataxia-Telangiectasia in Part Due to a Plasma Inhibitory Factor. Dale E. McFarlin and Joost J. Oppenheim ........................... 1172


Cyclophosphamide Inhibition of Experimental Allergic Encephalomyelitis and Cellular Transfer of the Disease in Lewis Rats. Philip Y. Paterson and Margaret A. Hanson .......... 1311

Spontaneous Thyroiditis in an Obese Strain of Chickens. II. Investigations on the Development of the Disease. Joseph H. Kite, Jr., Georg Wick, Bettina Twarog and Ernest Witebsky .... 1331

MICROBIAL AND VIRAL IMMUNOLOGY

Mechanisms of Endotoxin Tolerance. V. Specificity of the Early and Late Phases of Pyrogenic Tolerance. Sheldon E. Greisman, Edward J. Young and Frank A. Carozza, Jr. .............. 1223


Alterations in Host Responses to Experimental Candida albicans Infections by Bacterial Endotoxin. Larry J. Wright, Harry R. Kimball and Sheldon M. Wolff .......................... 1276

Antiphagocytic Effects of Staphylococcal Protein A. John H. Dossett, Göran Kronvall, Ralph C. Williams, Jr. and Paul G. Quie.................................................. 1405

COMMUNICATIONS

Identification of IgA in Several Mammalian Species. J. P. Vaerman, J. F. Heremans and G. Van Kerckhoven.......................................................... 1421

Role of Serum Protective Factor (SPF) in Langat Virus Infection of Neonatally Thymectomized, Cyclophosphamide-Treated, or Anti-Lymphocyte-Treated Mice. Inderjit S. Thind and Winston H. Price .......................................................... 1424


Cutaneous Basophilic Hypersensitivity: A New Interpretation of the Jones-Mote Reaction. Hal B. Richerson, Harold F. Dvorak and Sidney Leskowitz. .......................... 1431

Thymus-Derived Cells in the Early Phase of Delayed Tuberculin Reactions. R. Michael Williams and Byron H. Waksman.................................................. 1435