# CONTENTS

## NUMBER 1, JANUARY 1968

### IMMUNOCHEMISTRY

- Properties of 19S Antibodies in Complement Fixation. I. Temperature Dependence and Role of Antigen Structure. Ruth V. Cunniff and B. David Stollar ................................... 7
- A New Serum Factor in Normal Rabbits. IV. Occurrence in Neonatal Rabbit Sera. William J. Mandy, Marion E. Woolsey and F. B. Lewis .................................. ............. 15
- Immune Lytic Transformation: A State of Irreversible Damage Generated as a Result of the Reaction of the Eighth Component in the Guinea Pig Complement System. Robert L. Stolfi ....... 46
- The Inhibition by Normal γG- Globulins of Antibodies Specific for Individual γG Myeloma Proteins. Daniel Hurez, Gilbert Meshaka, Constantin Mihaesco and Maxime Seligmann ......... 69
- The Antigenic Determinants of the Variable Half of a Bence-Jones Protein of Type L. A. Ruffilli... 201

### IMMUNOGENETICS


### CELLULAR IMMUNOLOGY

- Differentiation of Antibody-Forming Cells. I. Ratio of Precursor Cells to Antibody-Forming Cells in the Mouse Spleen. Phyllis Kind and Priscilla A. Campbell ............................. 55

### IMMUNOPATHOLOGY

- Immunologic Specificity of the Localized Shwartzman Phenomenon Induced in Guinea Pigs by Simple Chemical Haptens. A. L. DeWeck, J. R. Frey and H. Geleick ........................................................... 1
- Nephrotoxic Serum Nephritis in Mice with a Genetic Deficiency in Complement. Lois H. Lindberg and Leon T. Rosenberg .......................................................... 34
- The Pathogenicity in Mice of Aerosols of Encephalomyocarditis Group Viruses or Their Infectious Nucleic Acids. T. G. Akers, S. H. Madin and F. L. Shaffer ............................................... 120
- Histology of PCA Reactions in Guinea Pigs. A Comparison of Reactions Produced by Guinea Pig γGI and Rabbit Antibodies. Moses K. Lieberman and Zoltan Ovary ......................................................... 159
- Passive Anaphylaxis in Mice with γG Antibodies. I. PCA and RPCA Reactions with Homologous and Heterologous Antibodies. Nelson M. Vaz and Zoltan Ovary ............................................ 169
- γG Antibody to Human Anti-Hemophilic Globulin (Factor VIII). Burton R. Anderson and Stanley B. Troup .......................................................... 175

### MICROBIAL AND VIRAL IMMUNOLOGY

- Hemagglutinin of Type 4 Adeno-Associated Satellite Virus. Michio Ito and Heather D. Mayor .......................................................... 61
- Influenza Virus Neutralizing Antibody in Human Respiratory Secretions. Robert H. Waldman, John J. Mann and Julius A. Kaesel ................................................................. 80
### Application of Immunodiffusion Methods to the Antigenic Analysis of Dengue Viruses. II. Immunoelectrophoresis
Adly N. Ibrahim and W. McD. Hammon .......................................................... 93

### Characterization of Antibodies Produced in Natural and Experimental Coxsackievirus Infections.
Nathalie J. Schmidt, Edwin H. Lennette and Juanita Dennis ................................. 99

### Rhinoviruses: Basis for a Numbering System. I. HeLa Cells for Propagation and Serologic Procedures.
Robert M. Conant and Vincent V. Hamparian .................................................. 107

### Rhinoviruses: Basis for a Numbering System. II. Serologic Characterization of Prototype Strains.
Robert M. Conant and Vincent V. Hamparian .................................................. 114

### Evidence for the IgG Nature of Complement-Fixing (CF) Antibodies to Adenovirus Type 12 Hamster Tumor Neoantigens.
G. L. Van Hoosier, Jr., Carolyn Cupp, Dee Boren and J. J. Trentin ......................... 128

### Studies on Live Attenuated Japanese Encephalitis Vaccine to the Swine.
K. Kodama, N. Sasaki and Y. Kanda Inoue ....................................................... 194

### A Sandwich Technique for the Detection of Myxovirus-Infected Cells Using a Fluorescein-Conjugated Antibody Directed against a Glycoprotein Substrate (Fetuin).
Herbert A. Blough, Mark Ballow and John W. Kreider ....................................... 209

### Interactions of the Complement System with Endotoxins from a Salmonella minnesota Mutant Deficient in O-Polysaccharide and Heptose
.......................................................... 227

### Number 2, February 1968

### IMMUNOCHEMISTRY

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fc-Like Fragments in Peptic Digests of Human Immunoglobulin G.</td>
<td>Ralph Heimer and Sidney H. Schnoll ............................................. 231</td>
</tr>
<tr>
<td>Structure of Human Immunoglobulin M. II. Isolation of a High Molecular Weight Fe Fragment of IgM Composed of Several Fe Subunits.</td>
<td>Kaoru Onoue, Tadamitsu Kishimoto and Yuichi Yamamura .......................... 238</td>
</tr>
<tr>
<td>A New Basic Protein in Rabbit Serum Unrelated to Immunoglobulin.</td>
<td>Donald R. Nash and John H. Schwab ............................................... 252</td>
</tr>
<tr>
<td>Cold-Reacting Antibodies: The Enhancement of Antibody Fixation by the First Component of Complement (C'1a).</td>
<td>Wendell F. Rosse, Tibor Borsos and Herbert J. Rapp ........................... 259</td>
</tr>
<tr>
<td>Urinary Fe and F'c Fragments.</td>
<td>John Bienenstock ............................................................................... 280</td>
</tr>
<tr>
<td>The Effect of Carbamylation and Amination of Rabbit γG-Antibody on Its Ability to Fix Complement.</td>
<td>Stanley Cohen and Elmer L. Becker ................................................. 395</td>
</tr>
<tr>
<td>The Effect of Benzylation or Sequential Amination and Benzylation on the Ability of Rabbit γG-Antibody to Fix Complement.</td>
<td>Stanley Cohen and Elmer L. Becker ............................................... 403</td>
</tr>
<tr>
<td>The Requirement for the Association of Two Adjacent Rabbit γG-Antibody Molecules in the Fixation of Complement by Immune Complexes.</td>
<td>Stanley Cohen .................................................................................. 407</td>
</tr>
</tbody>
</table>

### IMMUNOGENETICS

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
</table>

### CELLULAR IMMUNOLOGY

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antigenic Properties of Mouse Lymphoma Cells.</td>
<td>Esther Fincher Hays ........................................................................... 245</td>
</tr>
<tr>
<td>Detection of Immune Response against Synthetic Polymers of Amino Acids Employing the Plaque-Forming Cell System. II. Cross-Reactions of Normal Sheep Erythrocytes with Antibody against Glutamic Acid, Lysine, Alanine and Tyrosine Terpolymers.</td>
<td>Patricia Walah, Paul H. Maurer and Marianne Egan ............................. 266</td>
</tr>
</tbody>
</table>
CONTENTS

Delayed Hypersensitivity. II. Persistence and Conjugate Specificity of the Transfer Reaction. 
John P. Phair and Fred S. Kantor ........................................................ 302

Fine Structure of Lymphocytes Sensitized to Trichinella spiralis. Mahendra P. Jamuar, Charles W. Kim and L. D. Hamilton ........................................................ 329


The in Vitro Induction of Mouse Lymphocyte Transformation by Phytohemagglutinin. Lois B. Epstein and Charles W. Smith ......................................................... 421


Antibody Production by Isolated Spleen Cells: A Study on the Cluster and the Plaque Techniques. O. B. Zaalberg, V. A. van der Meul and M. J. van Twisk ................. 451

IMMUNOPATHOLOGY

A Proposed Mechanism for Natural Immunity to Enterobacterial Pathogens. Louis Chedid, Monique Parant, Francine Parant and Fernand Boyer ........................................................ 292

Skin-Fixing Antibody in Experimental Allergic Encephalomyelitis. George A. Falk, Robert G. Heinz, Marian W. Kies and Ellsworth C. Alvord, Jr. ........................................................ 321

Susceptibility of Different Mouse Strains to Lymphocytic Choriomeningitis Virus. Michael B. A. Oldstone and Frank J. Dixon ............................................................. 355

MICROBIAL AND VIRAL IMMUNOLOGY

Neutralization of Sensitized Lactic Dehydrogenase Virus by Anti-γ-Globulin. Abner Louis Notkins, Michael Mage, Warren K. Ashe and Suellen Mahar ........................................................ 314

Distribution of Antibodies within 19 S and 7 S Immunoglobulins following Infection with Mycoplasma pneumoniae. Gunnel Biberfeld ........................................................ 338


Development in Hamsters of Antibodies against Surface Antigens Present in Cells Transformed by Papovavirus SV40. Satvir S. Tethnias, Lynda A. Couvillion and Fred Rapp ........................................................ 358

The Growth of Mumps Virus in Organ Cultures of Rhesus Thyroid Gland. Thomas D. Flanagan, Almen L. Barron and Ernest Witebsky ........................................................ 414

Reaction of Endotoxin and Surfactants. II. Immunologic Properties of Endotoxins Treated with Sodium Deoxycholate. David F. Tarmina, Kelsey C. Milner, Edgar Ribi and Jon A. Rudebach ........................................................ 444

NUMBER 3, MARCH 1968

IMMUNOCHEMISTRY

Serum Complement and the Enzymatic Degradation of Erythrocyte Phospholipid. J. Kelly Smith and Elmer L. Becker ........................................................ 459

Isolation of a Protein Antigen following Extraction of Lipids from Sheep Red Blood Cell Stroma. I. Hemolytic IgM Primary Response and Hemolytic IgG Secondary Response in Rabbits. Charles A. Santos-Bucher and J. René Guzmán-Rivero ........................................................ 475

The Immune Response in the Hamster. I. Definition of Two 7 S Globulin Classes: 7 S1 and 7 S2. John E. Coe ........................................................ 507

Production of Fc Fragments of IgM. Vincent Yakulis, John Schmale, Nicolas Costea and Paul Heller ........................................................ 525

Reversed Type Allergic Skin Reactions by Anti-γE Globulin Antibodies in Humans and Monkeys. Kimishige Ishizaka and Teruko Ishizaka ........................................................ 554

On the Nature of Cryoglobulins. Horace H. Zinneman, Donald Levi and Ulysses S. Seal ........................................................ 594

Specificity of Antiglobulin Factors in Normal Human Serum Reacting with Enzyme Digested γG-Globulin. Lucy C. Kormeier, Judy T. Ing and William J. Mandy ........................................................ 612

The Effect of Salt-Induced Aggregation on the Gel Filtration of Chicken 7 S Antibodies. Dianna E. Van Orden and Henry P. Treffers .............................................................................. 659

A Demonstration of the Coprecipitation of β-Lipoproteins with Specific Precipitates of Chicken Antibodies and Human Serum Albumin. Dianna E. Van Orden and Henry P. Treffers ................................................. 664

Studies on Organ Specificity. XIX. Antigenic Specificity of Seminal Plasma and the Formation of Autoantibodies. Sidney Shulman, Clélia Riera and Carlos Yantorno ..................................... 682

IMMUNOGENETICS

Genetic Control of the Antibody Response Response. III. Qualitative and Quantitative Characterization of the Antibody Response to (T, G)-A—L in CBA and C57 Mice. Hugh O. McDevitt .................................................................................. 485

Direct Demonstration and Quantitation of Aal, Aa2 and Aa3 Allotypic Specificities on Fd-Fragments of Rabbit Immunoglobulin G. Antoine Micheli, Rose G. Mage and Ralph A. Reisfeld ........................................................... 604

CELLULAR IMMUNOLOGY


The Detection of Antibody-Containing Cells in the Blood Stream during the IgM Cellular Antibody Response. Raymond N. Hiramoto, N. Marlene Hamlin and Holland L. Harris .................................................................................................................. 637


IMMUNOPATHOLOGY

Serum Complement in the Rejection of Sarecoma I Ascites Tumor Grafts. Mildred E. Phillips, Ursula Rother and Klaus Rother ............................................................................................................. 493

“Protein A” from Staphylococcus aureus. IV. Production of Anaphylaxis-Like Cutaneous and Systemic Reactions in Non-Immunized Guinea-Pigs. G. T. Gustafson, G. Stålenheim, A. Forsgren and J. Sjöquist ........................................................................................................... 530

Isolation of Cx-Reactive Protein by Gel Filtration and Characterization by Electrophoresis and Immunodiffusion. Hector D. Croxatto, E. T. Nishimura, K. Yamada and Y. Hokama .................................................................................................................. 563


In Vitro Effects of Phytohemagglutinin and Brain Antigen on Cell Transfer of Experimental Autoimmune Encephalomyelitis in Lewis Rats. H. D. Flad, P. Y. Paterson and P. A. Miescher .................................................................................................................. 647

Wasting Disease Induced with Cortisol Acetate. II. Bacteriologic Studies. John W. Jutila and Norman D. Reed .................................................................................................................. 675

MICROBIAL AND VIAL IMMUNOLOGY

Inhibition by Cardiolipin of the Antibody Response to Bacterial Antigens. H. Y. Whang and E. Neter .................................................................................................................. 501


Antigens of Rickettsia prowazeki. I. Activity in Complement Fixation and Mouse Protection Tests. Lewellys F. Barker and Judith K. Patt ........................................................................................................... 543

Antigens of Rickettsia prowazeki. II. Activity in Guinea Pigs and Experimental Vaccine Production. Lewellys F. Barker and Judith K. Patt ........................................................................................................... 548

Antibody Responses in Rabbits to the Group B Arbovirus Kunjin: Serologic Activity of the Fractionated Immunoglobulins in Homologous and Heterologous Reactions. E. G. Westaway ........................................................................................................... 569

The Age Distribution in Humans of Hemagglutinating-Inhibiting Antibodies Reacting with Avian Strains of Influenza A Virus. Fred M. Davenport, Albert V. Hennessy and Elva Minuse ........................................................................................................... 581


Announcement ........................................................................................................................................... 689
IMMUNOCHEMISTRY

The Demonstration in Human Serum of "Conglutinogen-Activating Factor" and Its Effect on the Third Component of Complement. Peter J. Lachmann and Hans J. Müller-Eberhard

Localization of 11 S External Secretory IgA by Immunofluorescence in Tissues Lining the Oral and Respiratory Passages in Man. Roger D. Rossen, Councilman Morgan, Konrad C. Hsu, William T. Butler and Harry M. Rose

Antigenic Determinants Specific for Aggregated γG-globulins. Christopher S. Henney and Kimishige Ishizaka

The Isolation of Immunoglobulins of the Adult Opossum (Didelphy virginiana). David T. Rowlands, Jr. and Mary A. Dudley

Mouse Macroglobulin Antibody to Sheep Erythrocytes: A Non-Complement-Fixing Type. Paul H. Plotz, Harvey Colten and Norman Talal

Complementarity of Heavy and Light Chains from Antibodies of the Same Specificity Derived from Different Rabbits. Serafino Zappacosta and Alfred Nisonoff

Reversible Loss of Activity of the First Component of Complement (C’1) as a Function of Ionic Strength. Harvey R. Colten, Tibor Borsos and Herbert J. Rapp

Ultracentrifugation of the First Component of Complement: Effects of Ionic Strength. Harvey R. Colten, Tibor Borsos and Herbert J. Rapp


The Role of Monobasic Aliphatic Fatty Acids in Immune Agglutination of Sheep Erythrocytes. J. Kelly Smith

Carbodiimide-Induced Bentonite-Antigen Complexes: Readily Prepared Immunoadsorbents. Robert R. Carpenter and Margaret A. Reisberg

An Aggregating Immunoglobulin in Hyperimmune Equine Anti-Pneumococcal Sera. Suzan Zolla and Joel W. Goodman

Separation of New Skin Reactive Antigens from Dwarf Ragweed Pollens. A. R. Goldfarb

CELLULAR IMMUNOLOGY

An Effect of Maintenance in Tissue Culture on Spleen Cells Transferred from Antigen-Injected Donors to Syngeneic Mice. Stephanie E. Sher and T. N. Harris

Assignment of Direct and Facilitated Hemolytic Plaques in Mice to Specific Immunoglobulin Classes. Paul H. Plotz, Norman Talal and Richard Asofsky

The Enhancing Effect of Bone Marrow Cells on the Immune Response of Irradiated Mice Reconstituted with Spleen Cells from Normal and Immunized Donors. Jevrosima Radovich, Helen Hemingsen and David W. Talmage


Synthesis of the First Component of Guinea Pig Complement by Columnar Epithelial Cells of the Small Intestine. Harvey R. Colten, James M. Gordon, Herbert J. Rapp and Tibor Borsos

Sequence of Events in Mice Early in Immunologic Paralysis by Pneumococcal Polysaccharide. Pornchai Matangkasombut and C. V. Seastone

Transfer of Cutaneous Hypersensitivity to Tuberculin in the Guinea Pig by γGc from Immunized Donors. Edgar Pick and Joseph D. Feldman

MICROBIAL AND VIRAL IMMUNOLOGY


Sex-Related Resistance in Hamsters to Adenovirus-12 Oncogenesis. III. Influence of Immunologic Impairment by Thymectomy or Cortisone. David S. Yohn, Clare A. Funk and James J. Grace, Jr.

Antigenic Characterization of Infectious Bronchitis Virus. Satvir S. Tevethia and Charles H. Cunningham

Production of Rickettsial Complement-Fixing Antigens in Tissue Culture. Lewellys F. Barker and Judith K. Patt
Titration and Neutralization of *Rickettsia tsutsugamushi* in Tissue Culture. Lewellys F. Barker, Judith K. Patt and Hope E. Hopps ......................................................... 825

A New Serologic Test for Adenovirus Infection. Malcolm S. Artenstein and Oliver W. Danbridge. 831

Immunosuppression during Acute Murine Cytomegalovirus Infection. June E. Osborn, Andrew A. Blazkovec and Duane L. Walker ................................................................. 835


Enhancement of Phagocytosis of Group A Streptococci by Antibody Fragments Derived from Rabbit Immunoglobulin by Pepsin Digestion. John C. Perkins and Jerome J. Hahn .......... 898

COMMUNICATIONS

Tolerance in Vitro: Suppression of Immune Responsiveness to Bovine γ-Globulin after Injection of Antigen into Intact Lymphoid Organs. David W. Scott and Byron H. Waksman ....................................................... 912

NUMBER 5, MAY 1968

IMMUNOCHEMISTRY

Passive Sensitization of Monkey Lung Fragments with Sera of Timothy-Sensitive Patients. I. Spectrofluorometric Analysis of Histamine Release. Arthur Malley and Raymond L. Harris, Jr. ......................................................................................... 915

Protein A from *Staphylococcus aureus*. V. Reaction with Guinea Pig γ-Globulins. Arne Forsgren ...................................................................................... 921

Protein A from *Staphylococcus aureus*. VI. Reaction with Subunits from Guinea Pig γ1- and γ2-Globulin. Arne Forsgren ...................................................................................... 927


Inhibition of Guinea Pig Complement by Maleopimaric Acid and Other Derivatives of Levopimaric Acid. M. Michael Globsky, Elmer L. Becker and Noah J. Holbrook ....................................................... 979

Ultracentrifugal Studies of the Reaction of IgM Anti-γG-Globulin Subunits with Human IgG. Ralph E. Schroenloher and Carolyn B. Barry ....................................................... 1006

Antigenic Analysis of Human Heart Tissue. Identification of Antigens with Specificity Restricted to Heart and Skeletal Muscle in Acid Extracts of Myocardium. Enrique Espinosa and Melvin H. Kaplan ....................................................... 1020

Structure of Human Immunoglobulin M. III. Protease Fragmentation of IgM. Tadamitsu Kishimoto, Kacho Onoue and Yuichi Yamamura ...... 1032

Modification of the Amino Groups of Rabbit γG-Globulin. I. The Effect of Skin Sensitizing Activity in Guinea Pig Skin. M. Ljaljevic, J. Ljaljevic and C. W. Parker .......... 1041

Modification of the Amino Groups of Rabbit γG-Globulin. II. Selective Effects on Fe Function. M. Ljaljevic, J. Ljaljevic and C. W. Parker .......... 1051

Studies of the Proteins of Lacrimal Secretions. Alan S. Josephson and Roy S. Weiner ....................................................... 1080

Quantitation of Immunoglobulins and L-Chains by Complement Fixation Tests. Eugene V. Barnett ....................................................... 1093


IMMUNOGENETICS

The Immune Response of Random-Bred Hartley Strain Guinea Pigs to 2,4-Dinitrophenyl Conjugates of a Copolymer of l-Glutamic Acid and l-Lysine. Jean Pierre Lamelin, William E. Paul and Baruj Benacerraf ....................................................... 1058

CELLULAR IMMUNOLOGY

*In Vitro* and *In Vivo* Properties of Intact and Pepsin-Digested Heterologous Antimouse Thymus Antibodies. Gert Rietzhiller, Doris Rietzhiller, Hans Stein and Peter Hausen ....................................................... 969

Role of the Thymus in Tolerance. VI. Tolerance to Bovine γ-Globulin in Rats Given a Low Dose
of Irradiation and Injection of Nonaggregated or Aggregated Antigen into the Shielded Thymus. Atsushi Horiuchi and Byron H. Waksman ........................................... 974
A New Method for the Enumeration of Single Antibody-Producing Cells. E. Diener. 1062
Kinetics of Erythrocyte and Lymphocyte Agglutination by PHA. C. C. Stewart, A. Nakeff and M. Ingram. ........................................................................ 1121
The Response of Cultured Human Thymus Cells to Phytohemagglutinin. Henry N. Claman and Capt. Frank H. Brunstetter ............................................................... 1127

IMMUNOPATHOLOGY
Passive Anaphylaxis in Mice with γG Antibodies. III. Release of Histamine from Mast Cells by Homologous Antibodies. Nelson M. Vaz and Zoltan Ovary ................................ 1014

MICROBIAL AND VIRAL IMMUNOLOGY
Relative Stabilities of Complexes of Measles Soluble and Viral Hemagglutinins with 19 S and 7 S Immunoglobulins. Ann Schluederberg ............................................. 964
The Immunoglobulin Response in Intact and Splenectomized Calves Infected with Anaplasma marginale. G. G. B. Klaus and E. W. Jones .............................................. 991
Studies on the Mechanism of the Enzymatic Reactivation of Antibody-Neutralized Poliovirus. Robert Keller. ........................................................................... 1071
The Agglutinating and Bactericidal Activity of IgM and IgG Antibodies to the 9 and 12 factors of Salmonella typhi O 901. Fritz Daguillard and Geoffrey Edsall ............................................... 1112
Direct Immunofluorescent Tissue Culture Assay for Lymphocytic Choriomeningitis Virus. Michael B. A. Oldstone and Frank J. Dixon ............................................. 1135

COMMUNICATIONS
Lack of Adjuvant Effect of AlPO4 on Purified Influenza Virus Hemagglutinins in Man. Fred M. Davenport, Albert V. Hennessy and Frederic B. Askin........................................... 1139
Immune Response of Strain 13 Guinea Pigs to Lysine-Containing Polymers of Amino Acids. Paul H. Maurer and Paul Pinchuck ............................................................. 1141
Notice. Immunoglobulin E. A New Class of Human Immunoglobulin .................................. 1143

NUMBER 6, JUNE 1968

IMMUNOCHEMISTRY
Fixation of C' and C'1a by Rabbit γG- and γM-antibodies with Particulate and Soluble Antigens. Teruko Ishizaka, Tomio Tada and Kimishige Ishizaka ............................................. 1145
The Stoichiometric Measurement of the Serum Inhibitor of the First Component of Complement by the Inhibition of Immune Hemolysis. Irma Gigli, Shaun Ruddy and K. Frank Austen. . . . . 1154
Quantitative Studies of the Specificity of Anti-pneumococcal Polysaccharide Antibodies, Types III and VIII. III. Binding of a Labeled Oligosaccharide Derived from S8 by Anti-S8 Antibodies. A. M. Pappenheimer, Jr., William P. Reed and Robin Brown ............................................. 1237
Skin-Sensitizing Properties of Guinea Pig Antibodies to Keyhole Limpet Hemocyanin. Gill Strejan and Dan H. Campbell ................................................................. 1245
Mechanism of Cleavage of Rabbit IgG in Two Stages by Soluble Pepsin and Reducing Agent. Serafino Zappacosta, Alfred Nisonoff and William J. Mandy .......................... 1268
Comparison of Certain Properties of Naturally Occurring Low Molecular Weight γM and the γM Monomer Derived by Reduction and Alkylation of 19 SγM. Harry A. Swedlund, Gerald J. Gleich and William B. Chodirker ................................................................. 1296

CELLULAR IMMUNOLOGY
Stability of Human Leukocyte Granules which Contain Histamine. Jacob J. Pruzansky and Roy Patterson ................................................................. 1165
Preparation of Fluorescent Antibody Reagents Monospecific to Heavy Chains of Human Immunoglobulin. M. Takahashi, Y. Yagi and D. Pressman .......................................................... 1169


Macrophage-Lymphocyte Interaction in the Antigen-Induced Blastogenic Response of Human Peripheral Blood Leukocytes. Evan M. Hersh and Jules E. Harris..................................................... 1184

Studies of the Chicken Immune Response. I. Correlation of the Cellular and Humoral Immune Response. Peter Abramoff and Nancy B. Brien ............................................................................. 1204

Studies of the Chicken Immune Response. II. Biologic Activity of Spleen “Immunogenic RNA.” Peter Abramoff and Nancy B. Brien ................................................................................. 1210

Immunologic Incompetence of Mouse Perinatal Liver Hematopoietic Cells against Transplantation Antigens. Mortimer M. Bortin and Edward C. Saltzstein ................................................. 1215

An In Vitro Assay for Encephalitogenic Components of Central Nervous Tissue. J. A. Brockman, A. V. Stiffey and W. C. Tesar ................................................................................... 1230

Role of Thymus in Adoptive Tolerance. Bertie F. Argyris .................................................................................................................. 1255


Amphibian Plasma Cells. Ronald R. Cowden, Robert P. Dyer, Bryan M. Gebhardt and E. Peter Volpe ...................................................................................................................... 1293


Regulation of Antibody Synthesis against Escherichia coli Endotoxin. I. Suppressive Effect of Endogenously Produced and Passively Transferred Antibodies. Sven Britton and Göran Möller ............................................................................................................. 1326

IMMUNOPATHOLOGY

Thermostable Kidney Antigen and Its Excretion into Urine. Hans W. Intorp and Felix Milgrom ...................................................................................................................... 1195

Sedimentation Properties of Antibody Cytophilic for Macrophages. Arthur Berken and Baruj Benacerraf ................................................................................................. 1219

The Induction of Acute Glomerulonephritis in Rabbits with Soluble Antigens Isolated from Normal Homologous and Autologous Urine. R. A. Lerner and F. J. Dixon ..................................................................................... 1277

Induced Localization of Allergic Adrenalitis and Encephalomyelitis at Sites of Thermal Injury. Seymour Levine and Eugene M. Hoenig ............................................................................................................. 1310


MICROBIAL AND VIRAL IMMUNOLOGY

Enterovirus Immunodiffusion Reactions: A Comparison of Results Obtained in Agarose and Agar Using Two Different Microdiffusion Systems. Bohumil Styk and Nathalie J. Schmidt ............................................................................. 1223

Evaluation of an Agar Gel Precipitin Test for the Serodiagnosis of Actinomycosis. Lucille K. Georg, R. Marie Coleman and June M. Brown ..................................................................................... 1288


Vaccination Response in Rabbits Related to Quantity of Vaccinia Virus Particles and Passage Level. Ruth C. Dunlap, G. J. Galasso and D. G. Sharp ............................................................................. 1335

COMMUNICATIONS

Heparin-MnCl₂ Removal of Nonspecific Serum Inhibitor for Measles Virus Hemagglutinin. Harry A. Feldman ...................................................................................................................... 1353