101 (1)

J Immunol 1968; 101:1-182; ; http://www.jimmunol.org/content/101/1.

citation

This information is current as of April 3, 2017.

Subscription
Information about subscribing to The Journal of Immunology is online at:
http://jimmunol.org/subscription

Permissions
Submit copyright permission requests at:
http://www.aai.org/About/Publications/JI/copyright.html

Email Alerts
Receive free email-alerts when new articles cite this article. Sign up at:
http://jimmunol.org/alerts
## CONTENTS

### NUMBER 1, JULY 1968

### IMMUNOCHEMISTRY

- **Immunologic Studies of a Partially Purified Sheep Erythropoietin.** Ernest Rioux and Allan J. Erslev .......................... 6
- **Properties of Erythrocytes Stabilized with Sulfosalicylic Acid and Their Use in an Indirect Hemagglutination Test with Influenza Virus RNP-Antigen.** H. Becht ............................... 18
- **Induction of Erythema-Wheel Reactions by Soluble Antigen-γE Antibody Complexes in Humans.** Kimishige Ishizaka and Teruko Ishizaka ........................................ 68
- **Heterogeneity in Antibodies Specific for Aggregated Human γ-G-Globulin.** Christopher S. Henney and Kimishige Ishizaka ........................................ 79

### CELLULAR IMMUNOLOGY

- **The Use of Catfish, *Ictalurus nebulosus* (Le Sueur), as Experimental Animals for Immunization with Human Secretor Saliva and Other Antigenic Materials.** Joseph V. Chuba, William J. Kuhns and Ross F. Nigrelli .......................................................... 1
- **The Factors Affecting the Strength of “One-Way” Stimulation with Irradiated Leukocytes in Mixed Leukocyte Cultures.** Shinpei Kasakura and Louis Lowenstein .................................. 12
- **Further Studies on the Effect of Specific Antiserum on Induction, Maintenance and Termination of Immunologic Tolerance.** Herman Friedman ............................................. 23
- **Immunologic Unresponsiveness, Immunity and Enhancement in Experimental Allergic Encephalomyelitis.** S. B. Salvin and H. L. Lianw ............................................. 33
- **A Correlate of Human Delayed Hypersensitivity: Specific Inhibition of Capillary Tube Migration of Sensitized Human Lymph Node Cells by Tuberculin and Histoplasmin.** Daniel E. Thor and Sheldon Dray .......................................................... 51
- **Modulation of TL (Thymus-Leukemia) Antigens by Fab-Fragments of TL Antibody.** Michael E. Lamm, Edward A. Boyse, Lloyd J. Old, Barbara Lisowska-Bernstein and Elisabeth Stockert ............................ 99
- **Lymphocyte in Vitro Cytotoxicity: Mechanisms of Immune and Non-Immune Small Lymphocyte Mediated Target L Cell Destruction.** Gale A. Granger and William P. Kolb ........................................ 111
- **Phagocytosis and Intracellular Fate of *Mycobacterium tuberculosis*: In Vitro Studies with Guinea Pig Peritoneal and Alveolar Mononuclear Phagocytes.** Kameron W. Maxwell and Stanley Marcus ........................................ 176

### IMMUNOPATHOLOGY

- **Antimuscle Factor and Antinuclear Factor in Patients with Myasthenia Gravis.** I. Heavy Chain Determinants. D. E. McFarlin, J. S. Johnson and W. F. K. Seymour ........................................ 104
- **The Reactivity of Long-Lived Lymphocytes to Typhoid Vaccine in Situ in Rat Popliteal Lymph Nodes.** John J. Miller, III and Leonard J. Cole ............................................. 133
- **Experimental Allergic Uveitis. I. Production in the Guinea Pig and Rabbit by Immunization with Retina in Adjuvant.** W. B. Wacker and M. M. Lipton ........................................ 151
- **Experimental Allergic Uveitis. II. Serologic and Hypersensitive Responses of the Guinea Pig following Immunization with Homologous Retina.** W. B. Wacker and M. M. Lipton ........................................ 157

### MICROBIAL AND VIRAL IMMUNOLOGY

- **Latency in Human Infections with TRIC Agents.** Lavelle Hanna, Chandler R. Dawson, Odeon Brones, Phillips Thygeson and Ernest Jawetz ........................................ 43
- **Antibody Response in Humans to Deoxycholate-Treated Influenza Virus Vaccine.** A. E. Duxbury, A. W. Hampson and J. G. M. Sievers ........................................ 62
- **Difference in the Immunoglobulin Class of Poli ANTibody in the Serum of Men and Women.** Eugene A. M. B. H. T. M. Sievers ........................................ 92
- **Induction of Tuberculin Hypersensitivity and Serologic Unresponsiveness to Tubercle Bacilli in Newborn and Young Guinea Pigs.** Bernard W. Janicki and Stephen A. Aron ........................................ 121
- **Human Serum Interactions with *Candida albicans*.** Richard A. Chilgren, Richard Hong and Paul G. Quie .......................................................... 128
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immune Response in Chiroptera to Bacteriophage φX174.</td>
<td>Betty A. Hatten, Rae Allen and S. Edward Sulkin</td>
<td>141</td>
</tr>
<tr>
<td>NUMBER 2, AUGUST 1968</td>
<td></td>
<td>183</td>
</tr>
<tr>
<td>Immunology in 1968. Frank L. Horsfall, Jr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMMUNOCHEMISTRY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ontogeny of the Immune Response. V. Further Characterization of 19 S γG- and 7 S γG-Immunoglobulins in the True Primary Immune Response in Germfree, Colostrum-Deprived Piglets.</td>
<td>Yoon Berm Kim, S. Gaylen Bradley and Dennis W. Watson</td>
<td>224</td>
</tr>
<tr>
<td>Antibody to Bradykinin: Effect of Carrier and Method of Coupling on Specificity and Affinity.</td>
<td>Richard C. Talamo, Edgar Haber and K. Frank Austen</td>
<td>333</td>
</tr>
<tr>
<td>Immunologic Studies on Aspirin. I. Antibodies to Aspiryl-Protein Conjugates.</td>
<td>Konrad Wicher, Michael Schwartz, Carl E. Arbesman and Felix Milgrom</td>
<td>342</td>
</tr>
<tr>
<td>IMMUNOGENETICS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunologic Responses of Guinea Pigs to Dextran. Jack R. Battisto, Gail Chiappetta and Rita Hixon</td>
<td></td>
<td>203</td>
</tr>
<tr>
<td>Differences in the Acid Compositions of Allogeneic Guinea Pig Transplantation Antigens.</td>
<td>B. D. Kahan and R. A. Reisfeld</td>
<td>237</td>
</tr>
<tr>
<td>The Synthesis of Ribonucleic Acid during Early Antibody Induction.</td>
<td>Velta A. Lazda, Jason L. Starr and Martin Rachmeler</td>
<td>349</td>
</tr>
<tr>
<td>The Metabolism of Messenger RNA Synthesized after Primary Immunization.</td>
<td>Velta A. Lazda, Jason L. Starr and Martin Rachmeler</td>
<td>359</td>
</tr>
<tr>
<td>CELLULAR IMMUNOLOGY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Transformation of Column-Purified Lymphocytes with Nonspecific and Specific Antigenic Stimuli.</td>
<td>Joost J. Oppenheim, Brigid G. Leventhal and Evan M. Hersh</td>
<td>262</td>
</tr>
<tr>
<td>Studies on Heterologous Antilymphocyte and Antithymocyte Sera. I. Serologic Specificity and Immunosuppressive Activity of Rabbit Anti-Mouse Sera on the Primary Immune Response.</td>
<td>Rolf F. Barth, Joanne Southworth and Gerald M. Burger</td>
<td>282</td>
</tr>
<tr>
<td>Prolongation of Skin Homografts by Rabbit Anti-Mouse Lymphocyte Serum in Mice Rendered Tolerant to Rabbit γ-Globulin.</td>
<td>Richard J. Howard, Suanne F. Dougherty and Stephan E. Mergenhagen</td>
<td>301</td>
</tr>
<tr>
<td>Differential Effect of Heterologous Anti-Lymphocyte Serum on Antibody-Producing Cells and Antigen-Sensitive Cells.</td>
<td>Goran Möller and Charles Zukoski</td>
<td>325</td>
</tr>
<tr>
<td>Immunofluorescent Studies of Immunoglobulins in Human Lymphoid Cells in Continuous Culture.</td>
<td>Ira Finegold, John L. Fahey and Thomas F. Dutcher</td>
<td>366</td>
</tr>
<tr>
<td>IMMUNOPATHOLOGY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Availability of Isoantigens to Circulating Antibodies. Isaac Witz, Yasuo Yagi and David Pressman</td>
<td></td>
<td>217</td>
</tr>
<tr>
<td>The Production of Thyroid Autoantibodies in Mice. Frank J. Twarog and Noel R. Rose</td>
<td></td>
<td>242</td>
</tr>
<tr>
<td>Neonatal Thyrmectomy and Hemolysin Responses in Inbred Mice. Nicholas R. St.C. Sinclair and Edward V. Elliott</td>
<td></td>
<td>251</td>
</tr>
<tr>
<td>Hypersensitivity to Ascaris Antigens. III. Atopic-Type Hypersensitivity Induced in Rhesus Monkeys.</td>
<td>A. Malley, A. A. Amkraut, G. Strejan and D. H. Campbell</td>
<td>292</td>
</tr>
</tbody>
</table>
MICROBIAL AND VIRAL IMMUNOLOGY

Neutralization of Poliovirus by IgA Coproantibodies. Robert Keller and Julia E. Dwyer ............. 192
Immunodiffusion Reactions with Rubella Antigens. Nathalie J. Schmidt and Bohumil Styk ........... 210
Heterogeneity in the Ability of Rabbit 7 S and 19 S Neutralizing Antibodies to Differentiate between Intratypic Antigenic Variants of Herpes Simplex Virus. Berge Hampar, Michael G. Mage and Mary Alice Keehn ............................................................ 256
Potentiation of Serum Bactericidal Activity by Lysozyme. Starkey D. Davis, Diethard Genes, Antoinette Iannetta and Ralph J. Wedgwood ..................................................... 277
The Role of Serum Lipase in the Degradation of Salmonella enteritidis Endotoxin. Jiban D. Gupta and Charles E. Reed ............................................................... 308

COMMUNICATIONS

Immunologically Induced Aspermatogenesis in the White House. Betty Jean Hargis, Saul Malkiel and Jane Berkelman ........................................................................... 374
The Production of Antisera to Human γ G Subclasses in Rabbits Using Immunologic Unresponsive-
ness. H. L. Spiegelberg and W. O. Weigle ......................................................................... 377

NUMBER 3, SEPTEMBER 1968

IMMUNOCHEMISTRY

Purification of Two Fragments of M Protein From a Strain of Group A, Type 12 Streptococcus. Rudolph H. Johnson and Kenneth L. Vosti .................................................. 381
The C’1a Fixation and Transfer Test: Examples of its Applicability to the Detection and Enumeration of Antigens and Antibodies of Cell Surfaces. Tibor Bordes, Harvey R. Colten, Joel S. Spalter, Nicholas Rogentine and Herbert J. Rapp ......................................................... 392
An Antigen-Binding Capacity Test for Human Immunoglobulin G (IgG) Fragments. Jean-Charles Cerottini .................................................................................. 433
Antigenicity of Guanidinated and Amidinated Bovine Serum Albumin. A. F. S. A. Habeeb ..... 505
Is Delayed Sensitivity a Preparation for Antibody Synthesis? Sidney Leskowitz ....... 528
The Immunologic Response of Rabbits to Carrageenans, Sulfated Galactans Extracted from Marine Algae. K. H. Johnston and E. L. McCandless ................................. 556

CELLULAR IMMUNOLOGY

Synthesis of Specific RNA Molecules during Immune Response in the Mouse Spleen. R. B. Church, U. Storb, B. J. McCarthy and R. S. Weiser ........................................ 399
Studies of Human C-Reactive Protein in an In Vitro Phagocytic System. Ralph C. Williams, Jr. and Paul G. Quie .................................................................................. 426
Studies on the Ontogeny of the Mouse Immune System. II. Immunoglobulin-Producing Cells. Marvin L. Tyan and Leonard A. Herzenberg ........................................... 446
Studies on Human Peripheral Blood Lymphocytes In Vitro. V. Biosynthesis of Immunoglobulins. L. N. Chessin, P. R. Glade, R. Asofsky, P. D. Baker, R. Reisfeld and W. Terry .... 458
Significance of the Mast Cell Response to a Lysosomal Protein. Junius M. Clark and R. D. Higginbotham ........................................................................................... 469
Relationship of Germinal Centers in Lymphoid Tissue to Immunologic Memory. III. Proliferative Response of Primed Cells from Splenic White and Red Pulp following Reexposure to Antigen in Vitro. E. B. Jacobson and G. J. Thorbecke ...................... 515
Detection of γA Antibody-Releasing Cells to Erythrocyte and Lipopolysaccharide Antigens. Carla S. Walters and Anne L. Jackson ...................................................... 541
Staphylococcal Delayed Hypersensitivity in Mice. II. In Vitro Demonstration and Specificity of Delayed Hypersensitivity. James H. Taubler and Stuart Mudd ............................. 550
The Role of Proliferation in Delayed Hypersensitivity. Joseph D. Feldman .......................... 553
Immunologic Tolerance Induced in the Adult Rabbit with Modified BSA. P. C. Frei, S. Cruchaud, L. Arnaudo and A. Vannotti .............................................................. 605

**IMMUNOPATHOLOGY**

Transplantation Antibody Associated with First-Set Renal Homografts. Frederick W. Spong, Joseph D. Feldman and Sun Lee ...................................................... 418
Rabbit Blocking and Binding Antibodies to Human Intrinsic Factor and Intrinsic Factor-B~ Complex. I. Michael Samloff and Michael D. Turner ...................................................... 578
Antibody Production Stimulated in Vitro in Burkitt Lymphoma Cells. Hideo Kamei and George E. Moore ................................................................................. 587

**MICRObial AND VIRAL IMMUNOLOGY**

An Immuno-Cytopathogenic Interaction between Sensitized Leukocytes and Epithelial Cells Carrying a Persistent Nontyocidal Myxovirus Infection. Lawrence F. Speel, June E. Osborn and Duane L. Walker ........................................ 409
Antigenic Variants of Arboviruses. IV. The Distinctive Antigenic Properties of Virus Clones Propagated in Different Hosts. J. R. Henderson ................................. 451
Experimental Pleural Effusion as a Manifestation of Delayed Hypersensitivity to Tuberculin PPD. James C. Allen and Michael A. Apicella .................................................. 481
Neutralization and Sensitization of Herpes Simplex Virus with Antibody Fragments from Rabbits of Different Allotypes. Warren K. Ashe, Michael Mage, Rose Mage and Abner Louis Notkins. 500
Formation and Transfer of Antibodies in Congenital Murine Infections with A Type 2 Reovirus. Mary M. Carruthers and A. Martin Lerner .................................................. 523
Observations Concerning the Pathogenesis of E. Coli Infections in Mice. Donald N. Medearis, Jr. and Jean F. Kenny ....................................................................... 534
Neutralizing Activity in Nasal Secretions and Serum in Resistance of Volunteers to Parainfluenza Virus Type 2. Lawrence P. Tremonti, Juju-Shin L. Lin and George Gee Jackson .......................... 572
Immunosuppression by Leukemia Viruses. I. Effect of Friend Disease Virus on Cellular and Humoral Hemolysin Responses of Mice to a Primary Immunization with Sheep Erythrocytes. Walter S. Cegielski and Herman Friedman .......................................................... 594
Application of Passive Hemagglutination Methods for Detection of Antibody to Viral Antigen in Hamsters Bearing Adenovirus Type 12 Tumors. Stanley S. Lefkowitz .................... 611

**COMMUNICATION**

The Association of the C7 Allotype of Rabbits with Some Light Polypeptide Chains Which Lack b Locus Allotype. Rose G. Mage, Glendowlyn O. Young and Ralph A. Reisfeld .................................. 617

**NUMBER 4, OCTOBER 1968**

**IMMUNOCHEMISTRY**

Hypersensitivity to Ascaris Antigens. IV. Production of Homocytotropic Antibodies in the Rat. Gill Strejan and Dan H. Campbell .......................................................... 628
Studies of Blood Group Substances. IV. Caprine IgG and IgM Antibodies to Human H Substance. Donald M. Marcus and Louise E. Coss .................................................. 669
Catabolism of Human γG Immunoglobulins of Different Heavy Chain Subclasses. II. Catabolism of γG Myeloma Proteins in Heretologous Species. Hans L. Spiegelberg and Howard M. Grey .......................... 711
Iso-Antibodies to a β Globulin that Detects Spontaneous Delayed Iso-Hypersensitivity in Guinea Pigs. D. A. Follett and J. R. Battisto .................................................. 753
IMMUNOGENETICS

Types of Canine Serum Immunoglobulins. Roy Patterson, Mary Roberts and Jacob J. Pruzansky ............................................... 687

Studies on Synthetic Polypeptide Antigens. XX. Genetic Control of the Antibody Response in 
the Rat to Structurally Different Synthetic Polypeptide Antigens. S. J. Simonian, T. J. 
Gill, III and S. N. Gershoff .......................................................... 730

CELLULAR IMMUNOLOGY

Ferritin-Antibody Localization of Erythrocyte Antigenic Sites in Immunohemolytic Anemias. 
William C. Davis, Steven D. Douglas, Lawrence D. Petz and H. Hugh Fudenberg .............. 621

The Application of the Irradiated Hamster Test to the Study of Experimental Allergic Encephalo-
myelitis. Joan Kornblum ................................................................. 702

Spontaneous Delayed Iso-Hypersensitivity in Guinea Pigs. Jack R. Battisto ...................... 743

The Specificity of Antigen-Induced Thymidine-2-14C Incorporation into Lymph Node Cells from 
Sensitized Animals. Michael Stulbarg and Stuart F. Schlossman .................................... 764

Nonspecific Stimulation of Antibody Production in Surgically Bursectomized Chickens by Bursa-
Containing Diffusion Chambers. Peter B. Dent, Daniel Y. E. Perey, Max D. Cooper and 
Robert A. Good ............................................................................ 799

IMMUNOPATHOLOGY

Delayed Hypersensitivity to Myelin Basic Protein in the Passive Transfer of Experimental Allergic 
Encephalomyelitis. George A. Falk, Marian W. Kies and Ellsworth C. Alvord, Jr ............... 638

Biologic Properties of Rat Antibodies. I. Antigen-Binding by Four Classes of Anti-DNP Anti-
bodies. Kurt J. Bloch, Herbert C. Morse, III and K. Frank Austen .................................... 650

Biologic Properties of Rat Antibodies. II. Time-Course of Appearance of Antibodies Involved in 
Antigen-Induced Release of Slow Reacting Substance of Anaphylaxis (SRS-Amt); Association 
of This Activity with Rat IgG. Herbert C. Morse, III, Kurt J. Bloch and K. Frank Austen .... 658

Calcium Requirements for Complement Dependent Hemolytic Reactions. Richard E. Bryant 
and David E. Jenkins, Jr .................................................................. 664

Anti-Nuclear Antibodies in Mice. I. Influence of Age and Possible Genetic Factors on Sponta-
neous and Induced Responses. Perry O. Teague, George J. Friou and Lynn L. Myers .......... 791

MICROBIAL AND VIRAL IMMUNOLOGY

Evidence of SV40-Specific Transplantation and Surface Antigens in Cells Transformed by Para-
adenovirus 12. Robert N. Lausch, Satvir S. Tevethia and Fred Rapp .................................. 645

Toxicity of Combined Histamine and Serotonin in Normal, Pertussis-Sensitized, and β Adrener-
gically Blocked Mice. Charles W. Fishel, Kenneth F. Keller and Brenda S. O'Bryan .......... 679

The Immunodepressive Action of Lymphocytic Choriomeningitis Virus in Mice. C. A. Mims and 
Sally Wainwright ........................................................................... 717

Immunoglobulins Produced in Response to Japanese Encephalitis Virus Infections of Man. Keizo 
Ishii, Yasuko Matsunaga and Reisaku Kono .................................................. 770

Suckling Mouse Cataract Agent (SMCA) in Mice. I. Factors Affecting the Incidence of Cataraacts 
and Growth of Virus in Several Strains of Mice. H. Fred Clark and David T. Karzon .......... 776

Suckling Mouse Cataract Agent (SMCA) in Mice. II. Transfer of Protection to Progeny of SMCA-
Infected Dams. H. Fred Clark and David T. Karzon .................................................. 782

The Biologic Role of Host Antigens in Newcastle Disease Virus. V. M. Zhdanov and G.-K. S. 
Chepulis ........................................................................................... 788

COMMUNICATIONS

Adenovirus Type 12 Oncogenicity in Newborn Hamsters: The Effect of Pokeweed Mitogen. Ash-
ley T. Haase, J. A. Kasel and L. N. Chessin .............................................. 806

Modification of Meningococcal Polysaccharide Antigens for Use in Passive Hemagglutination 
Tests. Bruce W. Hammond, David T. Kingsbury and Emilio Weiss .............................. 806

SPECIAL ARTICLE

Abstracts of Papers Presented at the Third International Complement Workshop, Harvard Medical 
School, Boston, Massachusetts, June 3-5, 1968 .................................................. 810
CONTENTS

VOLUME 101, NUMBER 5, NOVEMBER 1968

IMMUNOCHEMISTRY


A Structural Study of Human Exocrine IgA Globulin. Richard W. Newcomb, David Normansell and Dennis R. Stanworth. 905

Antibody Activity Associated with the Fluorescent Polypeptide Chains of Human Immunoglobulin G. Charles H. Evans, Sharon B. Herron and Gerald Goldstein. 915

Production and Properties of Mouse Antihapten Antibodies. Carlos A. Mattioli, Yasuo Yagi and David Pressman. 939

The Heterogeneity of Combining Sites of Anti-Benzylpenicilloyl Antibodies Obtained from Individual Rabbits: Changes in Combining Sites of \( \gamma \)G and \( \gamma \)M Antibodies during the Immune Response. Tsuyoshi Atsumi, Masaaki Adachi, Yoshio Kinoshita, Morio Kawasaki and Yoshihiko Horinuchi. 1016

An Examination of the Cross Reactivity of Human and Equine \( \gamma \)G Globulins and Their Fragments by Immunodiffusion. Peter Z. Allen, Barbara M. Berger and Charles M. Helms. 1023

Studies on Organ Specificity. XX. Molecular Forms in the Antibody Response to Isoimmunization with Thyroid Protein. Sidney Shulman, Mohammad Ghayasuddin and Ernest Witebsky. 1059

Stabilization of Cytotoxic Antibody and Complement with Cysteine. Gail Lorenz Miller and Jean E. Wilson. 1074

IMMUNOGENETICS

Isoantigens of Thyroglobulin and Their Significance in Experimental Autoimmune Thyroiditis. Robert M. Nakamura and William O. Weigle. 876


CELLULAR IMMUNOLOGY

Transfer with RNA Extracts of the Cell Migration Inhibition Correlate of Delayed Hypersensitivity in the Guinea Pig. R. E. Jureziz, D. E. Thor and S. Dray. 823

Delayed Hypersensitivity and Arthus Reactivity in Relation to Host Resistance in Salmonella-Infected Mice. F. M. Collins and G. B. Mackaness. 830

Recovery of Delayed-Type Hypersensitivity in Mice following Suppressive Doses of X-Radiation. A. Volkman and F. M. Collins. 846

Comparative Sensitivities of the Hemolytic Plaque-in-Agar and Microchamber Assays for Detection of Rabbit Immune Cells. Bruce Merchant and Bruce Petersen. 860

The Effect of Passive Antibody on Protein Synthesis in Lymph Node Cells of Immunized Rats. Leonard J. Greenberg and Jonathan W. Uhr. 885

Primary Stimulation of Rats and Mice with Hemocyanin in Solution and Adsorbed on Bentonite. Ruth Gallily and Justine S. Garvey. 924


Localization of \( ^{3}H \)I-Labeled Antigen in Germinal Centers of Mouse Spleen: Histologic and Ultrastructural Autoradiographic Studies of the Secondary Immune Reaction. M. G. Hanna, Jr. and A. K. Szakal. 949


Effects of Radiation on Direct and Developed Spleen Hemolysin Plaque-Forming Cells of Mice. Edwin M. Uyeki and Robert S. Klassen. 973

Immunoglobulin Production in Bronchial Mucosa and Bronchial Lymph Nodes, Particularly in Cystic Fibrosis of the Pancreas. Francisco J. Martinez-Tello, Dietmar G. Braun and William A. Blanc. 989
In Vitro Studies on the Mechanism of Macrophage Migration Inhibition in Tuberculin Sensitivity.  
E. R. Heise, S. Han and R. S. Weiser ...................................................... 1004

A Study of Variables in the Assay of Cytotoxic Antisera.  
Gail Lorenz Miller and Jean E. Wilson .................................................. 1068

Specificity of Cytotoxic Heterologous Antisera to Cultured Human Cancer Cells.  
Gail Lorenz Miller and Jean E. Wilson .................................................. 1078

γ Globulin Synthesis in Pregnant Rabbits.  
Natalie Aronson .............................................................................. 1083

IMMUNOPATHOLOGY

Effects of Chronic Bronchopulmonary Disease and Aging on Human Nasal Secretion IgA Concentrations.  
Robert H. Alford .............................................................................. 984

Walter Pierpaoli and Ernst Sorkin .................................................. 1036

MICROBIAL AND VIRAL IMMUNOLOGY

Suckling Mouse Cataract Agent (SMCA) in Mice. III. The Antigenic Specificity of Maternal Protection against SMCA, and the Comparative Ability of Other Viruses to Replicate in the Eye of the Suckling Mouse.  
H. Fred Clark and David T. Karzon ................................................... 890

Serologic Relationship of a Simian Herpes Virus (SA8) and Herpes Simplex Virus; Heterogeneity in the Degree of Reciprocal Cross-Reactivity Shown by Rabbit 7 S and 19 S Antibodies.  
David A. Stevens, Theodore Pincus, Mary Alice K. Burroughs and Berge Hampar .................................. 979

COMMUNICATIONS

A Defect in Circulating Mononuclear Phagocytes in Chronic Granulomatous Disease of Childhood.  
William C. Davis, Heinz Huber, Steven D. Douglas and H. Hugh Fudenberg .......... 1093

The Effect of C3 Inactivator and Cu-Chlorophyllin on the Prausnitz-Küstner Reaction.  
Moto-nichii Torisu, Hidekichi Sonozaki, Koji Ito and Satochi Shiraishi ............. 1095

Rapid Induction of Experimental Allergic Thyroiditis in Rats Sensitized to Thyroid-Adjuvant and Pertussis Vaccine.  
Philip Y. Paterson and Diane G. Drobish ........................................... 1098

Serum 19 S and 7 S Demyelinating Antibodies in Multiple Sclerosis.  
Peter C. Dowling, Seung U. Kim, Margaret R. Murray and Stuart D. Cook .......... 1101

Announcement .............................................................................. 1104

NUMBER 6, DECEMBER 1968

IMMUNOCHEMISTRY

Antigenic Heterogeneity of Reduced and Alkylated Subunits of Human Monoclonal Macroglobulins.  
Carlos J. Dominguez, Vincent Caggiano, Shaul Kochwa and Louis R. Wasserman .......... 1159

Studies of an Additional Kindred with Hereditary Deficiency of the Second Component of Human Complement (C2) and Description of a New Method for the Quantitation of C2.  
Neil R. Cooper, Robert ten Bensel and Peter F. Kohler .................................. 1176

Immunochemical Studies of Foot-And-Mouth Disease. IV. Preparation and Evaluation of Antisera Specific for Virus, Virus Protein Sub-unit and the Infection-Associated Antigen.  
K. M. Cowan ........................................................................... 1183

Delayed Contact Sensitivity to Catechols. IV. Stereochemical Conformation of the Antigenic Determinant.  
Harold Bser, Charles R. Dawson and A. Peter Kurtz .................................... 1243

Light Chain Determinants of Exocrine Isoagglutinins.  
Nicolas Costea, Vincent Yakulis, John Schmale and Paul Heller .................... 1248

Heterogeneity of Rabbit Anti-Ovalbumin Antibodies Sensitizing Human, Guinea Pig and Rabbit Skin.  
Hal B. Richerson, H. F. Cheng and Paul M. Sebohm .................................... 1291

Antigenic Determinants of Human IgM Requiring Interaction of μ- and κ-Chains.  
Edward J. Miller and William D. Terry ............................................... 1300

The Purification and Reactivity of the First Component of Complement from Guinea Pig, Human and Canine Sera.  
Noboru Tamura and Robert A. Nelson, Jr. ............................................. 1333

CELLULAR IMMUNOLOGY

Synthesis and Secretion of Immunoglobulins by Established Cell Lines of Human Hematopoietic Origin.  
The Immunological Responses of the North American Opossum (Didelphys virginiana). David L. Taylor and Robert Burrell ................................................................. 1207

The Differential Fate of Soluble Antigen and Antigen-Antibody Complexes in Rabbits and Their Effect on Antibody Response. Roy Patterson, Irena M. Suszko and Catharine H. Talbot .... 1217

Antibody-Producing Cells in Rabbits Injected with Soluble BSA. I. Hemolytic Plaque Assay. J. C. Daniels and William O. Weigle ...................................................... 1223

Antibody-Producing Cells in Rabbits Injected with Soluble BSA. II. Kinetics and Dose Response. J. C. Daniels and William O. Weigle .................................................... 1230

Suppression of Murine Allotypic Specificities in Animals with a Complement Defect and in Animals with a Complete Hemolytic Complement System. Bernhard Cinader and S. Dubiski .... 1236

Initiation of Primary-Type and Secondary-Type Antibody Responses to Bacteriophage ϕX174 in Vitro. Tien-Wen Tao ................................................................! 1253

Cluster Formation in Vitro by Mouse Spleen Cells and Sheep Erythrocytes. G. M. Shearer and G. Cudkowics ............................................................................. 1264

Studies on Heterologous Antilymphocyte and Antithymocyte Sera. II. Effect on Cellular Antibody Production during the Early Primary and Secondary Immune Response of Mice to Sheep Erythrocytes. Rolf F. Barth and Joanne Southworth ........................................... 1283

The X-Y-Z Scheme of Immunocyte Maturation. VI. The Nature of Anti-BSA Produced upon Spontaneous Escape from Immune Paralysis. Stanley J. Dowden and Eli E. Sercarz ........... 1308

Role of the Thymus in Tolerance. VIII. Relative Effectiveness of Nonaggregated and Heat-Aggregated Bovine γ Globulin, Injected Directly into Lymphoid Organs of Normal Rats, in Suppressing Immune Responsiveness. A. Horiuchi and B. H. Waksman ............ 1322

Interactions of Sensitized Lymphoid Cells and Homologous Target Cells in Tissue Culture and in Grafts An Electron Microscopic and Immunofluorescence Study. Leon Weiss ........................................... 1346

IMMUNOPATHOLOGY

The Allergic Response of Rabbit Platelets. I. Membrane Permeability Changes. Reuben P. Siraganian, Antonio G. Secchi and Abraham G. Osler ................................................................. 1130

The Allergic Response of Rabbit Platelets. II. Dependence on Magnesium. Reuben P. Siraganian, Antonio G. Secchi and Abraham G. Osler ................................................................. 1140


MICROBIAL AND VIRAL IMMUNOLOGY

Effect of Anti-Hamster Thymocyte Serum on Papovavirus SV40-Induced Transplantation Immunity. Satvir S. Tevethia, Gordon R. Dreesman, Robert N. Lausch and Fred Rapp .................................................. 1105

Enhancement of Influenza Virus Multiplication by Chicken Serum. Igor Tamm ................................................................. 1121


Bat Immunoglobulins Formed in Response to Experimental Japanese B Encephalitis (JBE) Virus Infection. Larry L. Leonard, Rae Allen and S. Edward Sulkin ................................................................. 1168

Lack of Relationship between Virus-Specific Surface and Transplantation Antigens in Hamster Cells Transformed by Simian Papovavirus SV40. Satvir S. Tevethia, George Th. Diamandopoulos, Fred Rapp and John F. Enders ............................................................................. 1192


Immune Lysis of Rabies Virus-Infected Cells. T. J. Wiktor, E. Kuwert and H. Koprowski ................................................................. 1271

COMMUNICATION

Prenatal Immunization of the Lamb to Brucella: Dissociation of Immunocompetence and Reactivity. M. Richardson, C. C. Beck and D. T. Clark ................................................................. 1363