CONTENTS

NUMBER 1, JANUARY 1966

Mechanisms of γ-Globulin Synthesis. Saroj Tawde, Matthew D. Scharff and Jonathan W. Uhr. 1
Esterase, Peptidase, and the Enhancement of Guinea Pig Complement. Kenneth Amiraian and James D. Purcell. 8
Role of Interferon during Viremia. II. Protective Action of Circulating Interferon. Samuel Baron, Charles E. Buckler, Robert M. Friedman and Richard V. McClosey. 17
Alteration of the Specificity of Lectin by Chemical Modification. II. Shoji Matsubara and William C. Boyd. 25
The Allergic Response to Stinging Insects: Biochemical and Immunologic Studies on Bee Venom and Other Bee Body Preparations. Sidney Shulman, Fred Bigelsen, Raymond Lang and Carl Arbesman. 29
Pathogenesis of Venezuelan Equine Encephalomyelitis Virus. II. Infection in Young Adult Mice. William D. Kundin. 49
Preparations of Saliva Inhibiting Reovirus Hemagglutination. A. Martin Lerner, Elizabeth Jane Bailey and Marvin Kofender. 59
Specific Proteins in Serum of Total-Body Irradiated Humans. A. J. Luzzio, B. I. Friedman, J. G. Kereiakes and E. L. Saenger. 64
Clearance of Salmonella typhimurium in Mice and Immunity to Mouse Typhoid: A Comparison of the Activities of Hyperimmune Rabbit γ-Globulin and Porter's Fragment I Obtained by Papain Hydrolysis. J. W. Shands, Jr., H. Stalder and E. Suter. 68
Viruria in Herpes Simplex Infection of Mice. Irwin Schultz and Franklin A. Neva. 74
Studies on the Mechanism of the Cytolytic Effect of Sensitized Lymphocytes. Werner Rosenau and Henry D. Moon. 80
Strain ES4 Avian Leukosis Virus: Titration and Immunologic Characterization. Linda Lucas, Dorothy Beard, A. J. Langlois and J. W. Beard. 85
The Stability of Neutralization of Poliovirus by Native Antibody and Enzymatically Derived Fragments. Robert Keller. 96
Structural Characteristics of Red Cell Autoantibodies. M. Elaine Eyster, Ralph L. Nachman, William N. Christenson and Ralph L. Engle, Jr. 107
Arthus Type Inflammation with Rabbit γM Antibody. Tomio Tada and Kimishige Ishizaka. 112
Further Studies on the Mechanism of Antibody-Complement Induced Hemolysis: Specificity of Complement. J. G. Scott, R. I. Weed and S. N. Swisher. 119
Immunizing and Toxic Properties of Particulate Antigens from Two Immunogenic Type of Pasteurella multocida of Avian Origin. Kenneth L. Hedleston, Paul A. Rebers and Alfred E. Ritchie. 124
Heterogeneity of Antibody Producing Cells and Antibody as a Result of Environmental Alterations in Tissue Culture. Roy Patterson, Irena M. Suzsko and Mary F. Orr. 139
Influence of Corticosteroid Therapy on Serum Complement, Agglutinins, Free-Boundary Electrophoresis, Total Protein and Blood Counts in Dogs with Staphylococcal Bacteremia. Aldona L. Balch, Mark H. Lepper and Valentia T. Lolans. 149
A Comparison of Some Commonly Used Methods for Detecting Antibodies to Bovine Albumin in Human Serum. Percy Minden, Robert T. Reid and Richard S. Farr. 180
The Immunologic Competence of Mouse Thymus Cells Measured by the Graft vs. Host Spleen Assay. Henry Sosin, Henry Hilgard and Carlos Martinez .................................. 189


The Relation between Isolated Human Amyloid Fibrils and Human γ-Globulin and Its Subunits. Edgar S. Catheart and Alan S. Cohen. 239

Studies on Antigenic Composition of Amyloid. F. Milgrom, R. Kasukawa and E. Calkins. 245

Immunofluorescent Studies on Rubella-Infected Tissue Cultures and Human Tissues. Wilna A. Woods, Richard T. Johnson, Daniel D. Hostetler, Martha L. Lepow and Frederick C. Robbins. 253


Adoptive Tolerance Transferred by Bone Marrow, Spleen, Lymph Node or Thymus Cells. Bertie F. Argyris. 273

Vaccination against Human Leprosy Bacillus Infections of Mice: Protein by BCG Given during the Inoculation Period. Charles C. Shepard. 279

Difference in Mechanism of Viral Neutralization under in Vitro and in Vivo Conditions. Natalie E. Cremer, Edwin H. Lennette, Shirley J. Hagens and Frances Y. Fujimoto. 284

Absence of Agglutinin Formation in Spleen Cell Cultures from Immunologically Tolerant Mice. Herman Friedman. 289

The Effect of the Scorbetic State on Tuberculin Hypersensitivity in the Guinea Pig. I. Passive Transfer of Tuberculin Hypersensitivity. Burton Zweiman, William F. Schoenwetter and Eugene A. Hildreth. 296

Hemagglutination-inhibiting Antibody Responses in Human Infections with Group B Coxsackie-viruses. Nathalie J. Schmidt, Edwin H. Lennette and Juanita Dennis. 311

The Induction of a Hyporesponsive State to Hemocyanin. William O. Weigle. 319

Weight Estimates of Rabbit Anti-Human Albumin Based on Antigen-Binding and Precipitin Analyses: Specific Hemagglutinating Activities of 7 S and 19 S Components. Abraham G. Osler, James J. Mulligan, Jr. and Eugene Rodriguez. 324


Delayed Skin Reactivity to Carbohydrate and Protein Fractions of Mycobacterium bovis (BCG) Culture Filtrate in the Absence and Presence of Serum Antibody. H. Baer and S. D. Chaparas. 333

A Hemagglutination Test and a Specific Depolymerase for Studying Immunologic Paralysis in Mice. Marcus S. Brooke. 358

Studies on the Induction, Specificity, Prevention and Breaking of Immunologic Paralysis and Immunity to Pneumococcal Polysaccharide. Marcus S. Brooke. 364
The Preparation of Nucleotide-Protein Conjugates: Carbodiimides as Coupling Agents. Mark J. Halloran and Charles W. Parker ........................................................ 373
The Production of Antibodies to Mononucleotides, Oligonucleotides and DNA. Mark J. Halloran and Charles W. Parker ........................................................ 379
The Isolation and Characterization of a Ninth Component of Hemolytic Complement, C‘3f. Kozo Inoue and Robert A. Nelson, Jr ........................................................... 386
Heterogeneity of Nonspecific Forces in the Precipitation Reaction. Gregory W. Siskind. ........................................................................... 401
The Effect of Hydrocortisone on Immune Lysis of Cells Induced by Cytotoxic Antibody and Complement in Vitro. J. F. Jennings .......................................................... 409
Complement-Mediated Hemolysis in Agar Gel. Felix Milgrom and Ulana Loza .................. 415
Early Antibody Responses of Mice Given a Single Injection of Emulsified Influenza Virus Vaccine. Byron S. Berlin .......................................................... 424
Biologic Properties of 19 S and 7 S Mouse Isoantibodies Directed against Isoantigens of the H-2 System. Goran Moller .......................................................... 430
Immunoglobulin Patterns of Antibodies against Brucella in Man and Animals. P. C. Wilkinson. ........................................................................... 457
Suppression of Rabbit Lymph Node Cells by Rabbit Anti-Leucocyte Serum Demonstrated in Vitro by the Antibody Plaque Test. Susanna Harris and T. N. Harris. ........................................................................... 478
Heterogeneity of Bovine Antibodies Produced against Bovine Viral Diarrhea (BVD) Viruses and against a Soluble Antigen of BVD Produced in Cell Cultures. Albert L. Ferencius. ........................................................................... 488
Antibody Formation, Latency and Leukemia: Infection with Moloney Virus. Natalie E. Cremer, Dee O. N. Taylor and Shirley J. Hagens. ........................................................... 495
Nasal Rejection of Experimentally Inoculated Staphylococcus aureus: Evidence for an Immune Reaction in Man. N. Joel Ehrenkranz. ........................................................... 499
Further Studies on Acquired Resistance to Murine Cryptococcosis: Enhancing Effect on Bordetella pertussis. Irving Abrahams. ........................................................... 525
Studies on Organ Specificity. XVII. Autoantigens of Rabbit Kidney. Eduardo Centeno, Sidney Shulman, Felix Milgrom, Ernest Witebsky and Floyd Skelton. ........................................................................... 530
The Antigens of Vesicular Stomatitis Virus. I. Separation and Immunogenicity of Three Complement-Fixing Components. F. Brown, B. Cartwright and June D. Almeida. ........................................................................... 537
Immunologic Unresponsiveness in the Adult Guinea Pig. II. The Kinetics of Unresponsiveness. Harold F. Dvorak and Martin H. Flax. ........................................................... 546
The Interactions of the Erythrocytes of Various Species with Agglutinins of Abrus precatorius Linn. A. Hameed Khan, Bilquis Gul and M. Ataur Rahman. ........................................................................... 554
Announcement. ........................................................................... 558

Kinetics of the Transformation of Gram-Negative Rods to Spheroplasts and Ghosts by Serum. Starkey D. Davis, Diethard Gemsa and Ralph J. Wedgwood. ........................................................................... 570
A Cold Agglutinin of the IgA Class. C. Douglas Angevine, Burton R. Andersen and Eugene V. Barnett. ........................................................................... 578
Influenza Virus Subunit Vaccines: Immunogenicity and Lack of Toxicity for Rabbits of Ether- and Detergent-Disrupted Virus. R. G. Webster and W. G. Laver ............. 596
The Production of Congenital Malformations Using Tissue Antisera. V. Fluorescent Localization of Teratogenic Antisera in the Maternal and Fetal Tissue of the Rat. Victor Slotnick and Robert L. Brent .............................................. 606
Immunogenicity of Insolubilized Bovine Serum Albumin. Arthur A. Hirata and Dieter H. Sussdorff .......................................................... 611
The Effect of Hydrostatic Pressure on the Rate of Inactivation of Cypridina Luciferase by Specific Antibody. Frederick I. Tsuji, David L. Davis and David H. Donald ...................... 614
Heterogeneity in the Complementation of Polypeptide Subunits of a Purified Antibody Isolated from an Individual Rabbit. Richard Hong and Alfred Nisonoff .......... 622
Enterovirus Hemagglutination: Inhibition by Aldoses and a Possible Mechanism. A. Martin Lerner, Lawrence D. Gelb, James R. Tillotson, Mary M. Carruthers and Elizabeth J. Bailey .......................................................... 629
Antigenic Determinants of Human βC and β0 Globulins. Clark D. West, Neil C. Davis, Judith Forrstial, John Herbst and Roger Spitzer ............. 650
The Epidemiology of a Herpes Virus Infection of New World Monkeys. A. W. Holmes, James A. Devine, Edward Nowakowski and Friedrich Deinhardt .......... 668
The Effect of the Scorbutive State on Tuberculin Hypersensitivity in the Guinea Pig. II. In Vitro Mitotic Response of Lymphocytes. Burton Zweiman, Richard W. Beadine and Eugene A. Hildreth ................................. 672
Use of Sarcoma 180/FG to Prepare Hyperimmune Aseitic Fluid in the Mouse. Alan C. Sartorelli, David S. Fischer and Wilbur G. Downs ................................................... 676
Catabolism of γ-G-Globulin with Reduced Interchain Disulfide Bonds in Rabbits. George L. Cohen and Mart Mannik .................................................. 683
Studies on Japanese B Encephalitis Virus Vaccines from Tissue Culture. VI. Development of a Hamster Kidney Tissue Culture Inactivated Vaccine for Man. (1) Obtaining Maximum Titers of Virus Using an Attenuated Strain of OCT-541. Medhat A. Darwish and William McDr. Hammon .......................................................... 691
Immunologic Response to the Nitro-Olefins. Alan S. Josephson ................................................. 699
Benzylicpenicilloyl-Specific Serum Antibodies to Penicillin in Man. II. Sensitivity of the Hemagglutination Assay Method, Molecular Classes of the Antibodies Detected, and Antibody Titers of Randomly Selected Patients. Bernard B. Levine, Michael J. Fellner, Vera Levytska, Edward C. Franklin and Norman Alisberg ...................................................... 719
Mitosis in Mouse Peritoneal Macrophages. Ian J. Forbes .......................................................... 734
7Sγ1 and 7Sγ2 Antibody Response in the Mouse. I. Influence of Strain, Antigen and Adjuvant. John E. Coe ................................................. 744

NUMBER 5, MAY 1966

Comparisons of Antibodies Reacting with DNA. I. Systemic Lupus Erythematosus Sera and Rabbit Antibodies Induced by DNA-Methylated Bovine Serum Albumin Complexes. B. David Stollar and Ann L. Sandberg ................................................. 755
Comparisons of Antibodies Reacting with DNA. II. Rabbit Antibodies Induced by Nucleoside-Protein Conjugates. Ann L. Sandberg and B. David Stollar ..................... 764
Hydroxylamine as an Inactivating Agent for Foot-and-Mouth Disease Virus. O. N. Fellowes .... 772
Immunofluorescent Detection of Antibody to Lymphocytic Choriomeningitis Virus in Man. 
Sophia M. Cohen, Irene A. Triandaphilli, James L. Barlow and John Hotechin.................. 777
Quantitative Semi-Micro Hemagglutination. A Sensitive Assay Dependent upon Cellular Dis-
sociation and Migration in Capillary Tubes. Charles D. Severson and John S. Thompson... 785
Serum Protein Alterations Induced by Listeria monocytogenes Infections. C. P. Sword........ 790
Immunochemical Studies on Dextrans. IV. Further Characterization of the Determinant Groups
on Various Dextran Involved in Their Reactions with the Homologous Human Antidex-
trans. Mitsuo Torii, Elvin A. Kabat and H. Weigel ....................................... 797
Studies on Japanese B Encephalitis Virus Vaccines from Tissue Culture. VI. Development of a
Hamster Kidney Tissue Culture Inactivated Vaccine for Man. (2) The Characteristics of In-
activation of an Attenuated Strain of OCT-541. Medhat A. Darwish and William McD. 
Hammon .................................................................................. 806
Preparation and Evaluation of Antigens for Use in the Serologic Diagnosis of Human Hydatid
Preparation and Evaluation of Antigens for Use in the Serologic Diagnosis of Human Hydatid
Disease. II. Isolation and Characterization from Extracts of Cysts of Echinococcus multilocularis of Serologically Reactive Elements Found in Hydatid Fluid of Echinococcus granulosus.
Lois Norman, Irving G. Kagan and Dorothy S. Allain ..................................... 822
Alteration of the Specificity of Lectin by Chemical Modification. III. Phenylazobenzoylation of
Lima Bean and Sophora japonica Lectins. Shoji Matsubara and William C. Boyd .......... 829
Immunologic Tolerance Induced by a Combination of Chloramphenicol and 6-Mercaptopurine.
A. Cruchaud .......................................................... 832
Atypical Antigenic Properties of a γA Myeloma Protein. C. K. Osterland and H. Chaplin, Jr... 842
The Adjuvant Action of Endotoxin in Thymectomized Mice. Priscilla A. Campbell, David T.
Rowlands, Jr., Michael J. Harrington and Phyllis D. Kind .................................... 849
The Specificity of pH and Ionic Strength Effects on the Kinetics of the Rh(D)-Anti-Rh(D) System. Arthur E. Barnes ................................................................ 854
Production of Antibody against Bradykinin: Demonstration of Specificity by Complement Fixa-
tion and Radio-Immunosassay. Jocelyn Spragg, K. Frank Austen and Edgar Haber .......... 865
Effect of Interferon Treatment on Interferon Production. Robert M. Friedman................ 872
Studies on Japanese B Encephalitis Virus Vaccines from Tissue Culture. VI. Development of a
Hamster Kidney Tissue Culture Inactivated Vaccine for Man. (3) Potency Testing of an 
Attenuated Strain of OCT-541. Medhat A. Darwish and William McD. Hammon ........ 878
Serologic Relationships between β-Lysins of Different Species. Audris Matheson, Robert S.
Jensen and David M. Donaldson ........................................................................ 885
Agar Gel Diffusion Method for the Study of Antigenic Components of Mumps Virus. Raul R.
Cudrado .......................................................... 892
A Specific Anti-B Lectin for Routine Diagnostic Purposes. Aparna Chattoraj and William C.
Boyd ........................................................................ 898
Enhanced Immunologic Sensitization of Mice by the Simultaneous Injection of Antigen and 
Specific Antiserum. II. Effect of Varying the Antigen-Antibody Ratio and the Amount of 
Immune Complex Injected. Sherie Leaver Morrison and Geronimo Terres .................. 901
Studies on Synthetic Polypeptide Antigens. XV. The Immunochemical Properties of Ferrocenyl-
poly Glu-Lys-Tyr (No. 2) Conjugates. T. J. Gill, III and L. T. Mann, Jr. ..................... 906
Forssman Antigen and Antibody: Preparation of Water Soluble Antigen and Measurement of
Antibody Concentration by Precipitin Analysis by C1a Fixation and by Hemolytic Activity.
Herbert J. Rapp and Tibor Borsos ..................................................................... 913
The Formation in Vitro of Cold Auto-Hemagglutinins with Anti-I Specificity. R. van Furth and
Martina Dieselloff-Duilk ............................................................................... 920
Synthesis of Proteins by Human Leukocytes in Vitro, II. Chemical Characterisation. K. J.
Turner and I. J. Forbes .............................................................................. 926
Fluorescent Antibody, Complement Fixation Method for Detection of Dengue Viruses in Mice.
γ-Globulin and Antibody Formation in Vitro. V. The Secondary Response Made by Splenic White
Desensitization Studies of Delayed Hypersensitivity: With Special Reference to the Possible Role of High-Affinity Antibodies. Arthur M. Silverstein and Felix Borek .................. 953
Serologic Response in a Marine Worm, Sipunculus nudus. Frederik B. Bang ........................................ 960
Delayed Hypersensitivity to Herpes Simplex Virus in the Guinea Pig. Robert N. Lausch, Jerry S. Swyers and Herbert E. Kaufman ....................................................... 981
Mitogenic Activity of Bacterial Fractions in Lymphocyte Cultures. I. Purified Protein Derivative and Polysaccharides of Tuberculin. Dorothy H. Heilman and William McFarland ...... 988
Phagocytosis by Guinea Pig Splenic Cells of Escherichia coli and Protein-Coated Bentonite Particles Labeled with Iodine. Robert R. Carpenter ........................................ 992
Complement Fixation for Antigens on a Picogram Level. Blake W. Moore and Vernon J. Perez ... 1000
Protective Effect of Elevated Temperature on Mice Infected with Coe Virus. Gerald E. Underwood, Carolyn A. Baker and Sheldon D. Weed .............................................. 1006
Biosynthesis of Intrinsically Labeled Antibodies in Vitro. Frank F. Richards, Charles T. Ambruso and Edgar Haber ................................................................. 1013
Sequential Synthesis of Two 7 S Lysins by Rats Challenged with Mouse Sarcoma-180 Tumor Cells. J. W. Coffey and Hans J. Hansen .................................................................... 1021
Tolerance to Bovine γ-Globulin in Adult Guinea Pigs. J. Wayne Streilein and E. A. Hildreth ................................................................................................. 1027
Studies on Organ Specificity. XVIII. Immunologic and Biophysical Characterization of Canine Prostatic Fluid. Carlos Yantorno, Sidney Shulman, Maurice J. Gonder, Ward A. Soanes and Ernest Witebsky ................................................................. 1035