CONTENTS

NUMBER 1, JANUARY 1959

Growth Characteristics of Adenoviruses. I. Production and Release of Complement Fixing Antigen and Infectious Virus. Melvin Lieberman and Murray Friedman ........................................ 1
Antigenicity of the Inhibitor of Influenza Virus Strain A/Asia/57. V. M. Zhdanov, V. P. Hamburg and G. J. Svet-Moldavsky ................................................................. 9
The Metabolism of Some Antigen-Antibody Complexes in the Rabbit. Harry Walter and Herbert Zipper ......................................................................................... 12
Studies on the Transfer of Lymph Node Cells. XIII. Effect of X-irradiation on Lymph Node Cells Incubated 

in Vitro with Shigella-Trypsin Filtrate. T. N. Harris, Susanna Harris and Emanuel Tulskey .......................................................... 26
Sensitivity of Pertussis Inoculated Mice to Endotoxin. Leon S. Kind ........................................ 32
Formation of Bacterial Protoplasts by Serum Components. Louis H. Muschel, Warren F. Carey and L. S. Baron ........................................................................ 38
Concerning the Mechanism of Complement Action. IV. The Properties of Activated First Component of Guinea Pig Complement. Elmer L. Becker .................. 43
Immunity Afforded by Specifically Absorbed, Unabsorbed and Combinations of Salmonella Antisera. Rose Lieberman, Harold Earle, Norman Ikari and Norman B. McCullough ............ 52
Depression on Normal Serum Bactericidal Activity by Nitrogen Mustard. David M. Donaldson and Morgan L. Miller .......................................................... 69

NUMBER 2, FEBRUARY 1959

The Effects of Proteolytic Enzymes on Agglutination by Bacterial Antibodies of Lipopolysaccharide Modified Erythrocytes. E. Neter, E. Cohen, O. Westphal and O. Lüderitz .................. 85
Persistence of Passively Administered Homologous and Heterologous Antibody in the Guinea Pig. Marion H. Chandler, Leon T. Rosenberg and Edward E. Fischel .............. 103
Hemagglutinins in Extracts of Israeli Plants. II. The Chemical Nature of the Active Substance in Datura metel. U. Bachrach, D. Berechayahu and J. Gurevitch .................. 116
Some Considerations in Agar Column Diffusion Analyses. William G. Glenn ......................... 120
The Clearance of Antigen Antibody Complexes from the Blood by the Reticulo-endothelial System. B. Benacerraf, M. Sebestyen and N. S. Cooper ........................................ 131
Acute and Protracted Anaphylactic Shock in Guinea Pigs after Subcutaneous Eliciting Injection of Antigen. Sanford H. Stone .................................................. 138
Characteristics of the Toxoplasma Hemagglutination Test Antigen. Milford N. Lunde and Leon Jacobs ................................................................. 146
Stickiness of Erythrocytes Caused by Certain Agglutinins. William C. Boyd and Marjorie H. McMaster ................................................................. 151
A Quantitative Photometric Method for Studying the Reaction between Cypridina luciferase and Specific Antibody. Frederick I. Tsuji and David L. Davis .................. 153
Study on the Growth of Rickettsiae. IV. Effect of Chloramphenicol and Several Metabolic Inhibitors on the Multiplication of *Rickettsia tsutsugamushi* in Tissue Culture Cells. Hope E. Hopps, Elizabeth B. Jackson, Joseph X. Danauskas and Joseph E. Smadel

NUMBER 3, MARCH 1959

The Production of Precipitating Antibody in Chickens to a Substance Present in the Fluids of Nonecretors of Blood Groups A, B and O. Harold Baer, Ingeborg Naylor, Natalie Gibbel and Richard E. Rosenfield

Studies on Ragweed Pollen. IV. Isolation and Characterization of an Allergenic Fraction from Ragweed Pollen. A. H. Sehon and M. Richter

The Demonstration of a Common Antigen in Reiter's Treponeme and Virulent *Treponema pallidum*. George R. Cannefax and Warfield Garson

The Similar Specificity of the Combining Sites of an Individual Antibody Molecule. Alfred Nisonoff, Marvin H. Winkler and David Pressman

A Study of Relapse *Plasmodium berghei* Infections Isolated from White Mice. Herbert W. Cox

The Competitive Effect of Normal Serum Proteins from Various Animal Species on Antibody Fixation in Passive Cutaneous Anaphylaxis in the Guinea Pig. Guido Bortoli, Bernard N. Halpern and Rubén Binaghi

Rift Valley Fever Virus in the One-day-old Chick Embryo. Minoru Matumoto, Yasuo Saburi and Ichiro Nishi

Combination of Antigenic Traits of Type 1 and Type 2 Poliovirus. Katherine Sprunt, Winifred M. Redman and Hattie E. Alexander

The Effects of Thiamine Deficiency on Some Physiologic Factors, Phagocytosis and Susceptibility to Infection. Kenneth Wertman and Margaret Groh

The Duration of Responsiveness of Lymph Node Cells Transferred to Adult Homologous Recipients. Frank J. Dixon, William O. Weigle and Maria P. Deichmiller

The Alteration of Bacterial Endotoxins by Human and Rabbit Serum. John E. Stauth and Arthur G. Johnson

Studies on Cytotropism in Animal Viruses. I. Growth of Influenza Virus in Lung Cells Derived from Hatched Chicks and Chick Embryos. Robert B. Stewart and Herbert R. Morgan

SA Virus—A New Member of the Myxovirus Group. Edwin W. Schultz and Karl Habel

NUMBER 4, APRIL 1959

Adaptation of the Antiglobulin Test for Use with Tannic Acid Treated Erythrocytes. Kenneth P. Mathews

Immune Hemolysis at 0°. I. Introduction: The Role of Amboceptor and Complement. David L. McVikar and Gertrude R. Weinfeld

Effects of a Nonspecific Stimulation on Tissue Radiosensitivity During the Course of Antibody Production. Dieter Strauch, Hans-Stephen Stender and Horat Winter

The Fate of Killed, Radioiodinated *Brucella abortus* Injected into Mice. Dov Sulitzeanu

Inhibition of the Bactericidal Activity of the Properdin System by Zymosan and Other Properdin Binding Agents. Alastair C. Wardlaw and Louis Pillemer

Behavior of Intravenously Administered *131* Diphtheria Toxin in the Guinea Pig. S. P. Masouredis

Antigenic Studies on Elastase. Barbara C. McIvor and Henry D. Moon

Studies on the Fate of Antigens *in Vitro*. I. The Effect of Specific Antibody on the Fate of *141* Trace Labeled Human Serum Albumin *in Vitro* in the Presence of Guinea Pig Monocytes. Ernst Sorkin and Stephen V. Boyden


Immunochemical Studies on Blood Groups. XXX. Studies on the Cross Reactivity of Untreated and Partially Hydrolyzed Blood Group A, B and O(H) Substances with Type XIV Antipneumococcal Horse Sera. Peter Z. Allen and Elvin A. Kabat

Fluorescent Antibody Methods in the Differentiation of Murine and Epidemic Typhus Sera; Specificity Changes Resulting from Previous Immunization. R. A. Goldwasser and C. C. Shepard
CONTENTS
NUMBER 5, MAY 1959

Toxin Production and Virulence of Inaba and Ogawa Vibrios. A. Mukherji.......................... 381
Blood Group Studies on the Antigenic Structure of Human Red Cells and Its Relation to the So-called Secretor and Nonsecretor with Special Reference to Its Heredity. Shokichi Ueno, Shigetaka Matsusawa, Shinji Kitsamura and Heizaemon Mishima........................................ 385
Antigens Associated with the Toxin of the Gravis Type of Corynebacterium diphtheriae. Sara E. Brannam, C. W. Hiatt, Aaron D. Cooper and Donald B. Riggs...................... 397
Allergic Encephalomyelitis. The Extraction of Highly Active Fractions from Bovine Spinal Cord. Murray L. Lipton and Alex J. Steigman .................................................... 409
Studies on the Adjuvant Action of Bacterial Endotoxins on Antibody Formation. II. Antibody Formation in Cortisone-Treated Rabbits. Peter A. Ward and Arthur G. Johnson 428
Application of Agar-Gel Diffusion Analysis to a Study of the Antigenic Structure of Inactivated Vaccines Prepared from the Virus of Foot-and-Mouth Disease. F. Brown and Joan Crick........ 444
The Immunologic Competence of Chickens' Skin. R. E. Billingham and Willys K. Silvers 448
Notes on the Mathematics of the Antigen-Antibody Double Diffusion Technique. Joseph Engelberg................................................................. 467
Serologic Cross Reactions among Leptospirae Observed with Sera from Animals Infected with Leptospira pomona. R. W. Lang and E. V. Morse 471
Fractionation of Short-Ragweed Pollen Extracts on Diethylaminoethyl-Cellulose. Kenneth C. Robbins, Roy A. Hecht, Samuel J. Taub and Jane Shields.............................. 477

NUMBER 6, JUNE 1959

Precipitin Production in Chickens. XIX. The Components of Chicken Antiserum Involved in the Precipitin Reaction. Jay Banovitz and Harold R. Wolfe........................................... 489
Passive Anaphylaxis in the Guinea Pig and Its Inhibition by an Extraneous Antigen-Antibody Reaction. Jacob J. Pruzansky, Samuel M. Feinberg and Alonzo Kennibrew.............. 497
Starch-Gel Immunoelectrophoresis. M. D. Poulik.................................................................. 502
The Antibody Response of Lymph Node Cells Transferred to Tolerant Recipients. William O. Weigle and Frank J. Dixon ................................................................. 516
Immunity against a Transplantable Ascites Tumor of Spontaneous Origin in an Inbred Rat Strain. Herman Goldner, Arthur E. Bogden and Paul M. Aptekman........................................ 520
The Reversibility of the Reaction between Rabbit Antibody and Tobacco Mosaic Virus. Irving Rappaport........................................................................... 526
Thermal Differentiation of the Adenovirus Complement Fixing Antigens. Murray Friedman and Patricia de Berry................................................................. 535
Action of Anticellular Sera on Virus Infections. II. Influence on Heterologous Tissue Cultures. Lise Quersin-Thiry...................................................................................... 542
The Effectiveness of Tuberculog-Lipid as an Adjuvant in Eliciting Allergic Encephalomyelitis and Aspermatogenesis. Jules Freund and Sanford H. Stone.......................................................... 560
Quantitative Immunohematologic Studies of Hemagglutination. II. Assay of the Agglutinogen A. Mary B. Gibbs and Joseph H. Akeroyd...................................................... 577
Studies of Immune Factors Occurring in Sera of Chickens against the Crichtidia Stage of Trypanosoma Cruzi. Lionel G. Warren and Tibor Borsus.................................................. 585