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 Tulsiky ............................................................................. 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 of 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. Luderitz ............ 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. Berechlyahu and J. Gurevitch ................................. 116

Some Considerations in Agar Column Diffusion Analyses. William G. Glenn ......................................................... 120

Immunologic Studies on Fertility and Sterility. II. Effects of Treatment of Semen with Antibodies on Fertility in Rabbits. C. A. Kiddly, W. H. Stone and L. E. Casida ......................................................... 125

The Clearance of Antigen Antibody Complexes from the Blood by the Reticulo-endothelial System. B. Benacerraf, M. Sebestyén 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

Sickness of Erythrocytes Caused by Certain Agglutinins. William C. Boyd and Marjorie H. McMaster ..................................................................................... 151

A Quantitative Photometric Method for Studying the Reaction between Cypridina luciferae 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.............. 172

The Production of Precipitating Antibody in Chickens to a Substance Present in the Fluids of Nonsecretors of Blood Groups A, B and O. Harold Baer, Ingeborg Naylor, Natalie Gibbel and Richard E. Rosenfield ......................................................... 183

Studies on Ragweed Pollen. IV. Isolation and Characterization of an Allergenic Fraction from Ragweed Pollen. A. H. Sehon and M. Richter ......................................................... 190

The Demonstration of a Common Antigen in Reiter's Treponeme and Virulent *Treponema pallidum*. George R. Cannefax and Warfield Garson .......................................... 198

The Similar Specificity of the Combining Sites of an Individual Antibody Molecule. Alfred Nisonoff, Marvin H. Winker and David Pressman ..................................................... 201

A Study of Relapse *Plasmodium berghei* Infections Isolated from White Mice. Herbert W. Cox. 209

The Competitive Effect of Normal Serum Proteins from Various Animal Species on Antibody Fixation in Passive Cutaneous Anaphylaxis in the Guinea Pig. Guido Biozzi, Bernard N. Halpern and Rubén Binaghi ................................................................. 215

Rift Valley Fever Virus in the One-day-old Chick Embryo. Minoru Matumoto, Yasuo Saburi and Ichiro Nishi ................................................................. 219

Characterization of Complexes which Contain Diphtheria Toxin and Human Nonprecipitating Antitoxin. W. J. Kuhns, S. P. Masouredis and L. Swabey ...................................... 226

Combination of Antigenic Traits of Type 1 and Type 2 Poliovirus. Katherine Sprunt, Winifred M. Redman and Hattie E. Alexander ................................................................. 232

The Effects of Thiamine Deficiency on Some Physiologic Factors, Phagocytosis and Susceptibility to Infection. Kenneth Wertman and Margaret Groh .................. 241

The Duration of Responsiveness of Lymph Node Cells Transferred to Adult Homologous Recipients. Frank J. Dixon, William O. Weigel and Maria P. Deichmiller .... 248

The Alteration of Bacterial Endotoxins by Human and Rabbit Serum. John E. Staub and Arthur G. Johnson ................................................................. 252

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 .... 264

SA Virus—A New Member of the Myxovirus Group. Edwin W. Schultz and Karl Habel .... 274

Adaptation of the Antiglobulin Test for Use with Tannic Acid Treated Erythrocytes. Kenneth P. Mathews ................................................................. 279

Immune Hemolysis at 0°. I. Introduction: The Role of Amboceptor and Complement. David L. McVikar and Gertrude R. Weinfield ......................................................... 290

Effects of a Nonspecific Stimulation on Tissue Radiosensitivity During the Course of Antibody Production. Dieter Strauch, Hans-Stephen Stender and Horat Winter .... 298

The Fate of Killed, Radiiodinated *Brucella abortus* Injected into Mice. Dov Sulitzeanu .... 304

Inhibition of the Bactericidal Activity of the Properdin System by Zymosan and Other Properdin Binding Agents. Alastair C. Wardlaw and Louis Pillemer .................. 313

Behavior of Intravenously Administered 1st Diphtheria Toxin in the Guinea Pig. S. P. Masouredis ................................................................. 319

Antigenic Studies on Elastase. Barbara C. McIvor and Henry D. Moon ................................................................. 328

Studies on the Fate of Antigens in Vitro. I. The Effect of Specific Antibody on the Fate of 1*"*Trace Labeled Human Serum Albumin in Vitro in the Presence of Guinea Pig Monocytes. Ernst Sorkin and Stephen V. Boyden ................................. 332


Immunochemical Studies on Blood Groups. XXIII. 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 ................................. 358

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 ................................. 373
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 Matsuzawa, Shinnji Kitsmura and Heizaemon Mishima .......................... 385
Antigens Associated with the Toxin of the Gravis Type of Corynebacterium diphtheriae. Sara
E. Branham, C. W. Hiatt, Aaron D. Cooper and Donald B. Riggs ........................ 397
Studies on the Adjuvant Action of Bacterial Endotoxins on Antibody Formation. I. Time Limi-
tation of Enhancing Effect and Restoration of Antibody Formation in X-Irradiated Rabbits.
Phyllis Kind and Arthur G. Johnson .................................................... 415
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
Studies of Blood Group Antibodies. J. Fraction of Anti-A and Anti-B Isohemagglutinins by Anion-
Cation Cellulose Exchange Chromatography. Neva M. Abelson and Arnold J. Rawson ..... 435
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 Willya K. Silvers ... 448
The Properdin System and Immunity. VIII. Studies on the Purification and Properties of the
Third Component of Human Complement. Florence R. Arday, Louis Pileme and Irwin
H. Lepow .................................................................................. 458
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
Precipitin Production in Chickens. XVIII. Physical Chemical Studies on Complexes of Bovine
Serum Albumin and its Chicken Antibodies. Jay Banovitz, S. J. Singer and Harold R. Wolfe . 481
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 Kenniebrew ............... 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
A Study of the Effect of γ-Irradiation versus Thermal Processing on the Antigenic Response of
Milk Proteins Using the Schultz-Dale Technique. Robert O. Linder, T. Michael Shaw and
Herman F. Kraybill .................................................................................. 553
The Effectiveness of Tuberculoglycolipid as an Adjuvant in Eliciting Allergic Encephalomye-
litis and Aspermatogenesis. Jules Freund and Sanford H. Stone ................................. 560
Quantitative Immunohematologic Studies of Hemagglutination. I. Assay of the Isoagglutinin
Anti-A. Mary B. Gibbs and Joseph H. Akeroyd ...................................................... 568
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 Trypansomo-
soma Cruzi. Lionel G. Warren and Tibor Borsus ..................................................... 585

Downloaded from http://www.jimmunol.org/ by guest on October 23, 2017