CONTENTS

NUMBER 1, JANUARY 1956


Quantitative Studies on the Bactericidal Actions of Serum and Complement. II. Some Implications for the Mechanism of the Bactericidal Reaction. Louis H. Muschel and Henry P. Treffers

Quantitative Studies on the Bactericidal Actions of Serum and Complement. III. Observations on Sera Obtained after T. A. B. Vaccination or during Typhoid Fever. Louis H. Muschel and Henry P. Treffers

Fractions of Pig Complement. III. An Inhibitor of Active Complement. Myron A. Leon, Otto J. Plescia and Michael Heidelberger

Studies on Antigenicity of Inactivated Influenza Virus. Jacob Fong


The Production of Antibody by Partially Hepatectomized Rats. W. Paul Havens, Jr., Mary Ellen Schlosser and Jean Klatkeko

Virus Yield per Cell in Monkey Kidney Cultures Inoculated with Different Strains of Poliomyelitis Virus. J. S. Youngner

Differential Phagocytosis of Normal Trypsinized and Virus-Treated Human and Rabbit Erythrocytes by Macrophages in Tissue Culture. D. Shelton Mabry, Joe A. Bass, Matt C. Dodd, John H. Wallace and Claude-Starr Wright

Opsonic Factors in Normal and Immune Sera in the Differential Phagocytosis of Normal, Trypsinized and Virus-Treated Human and Rabbit Erythrocytes by Macrophages in Tissue Culture. D. Shelton Mabry, John H. Wallace, Matt C. Dodd and Claude-Starr Wright

Pneumococcal Antigenic Polysaccharide Substances from Human Tissues. Lloyd D. Felton, Benjamin Prescott, Gladys Kauffmann and Barbara Ottinger

The Incidence of Antigen J in Cattle and the Production of Anti-J by Isoimmunization. Robert A. Elliott and L. C. Ferguson

The Effect of Cortisone on Isohemagglutinin Production in Mice. Nathan Kaliss, Gustavo Hoecker and Bradley F. Bryant

NUMBER 2, FEBRUARY, 1956

Antistaphylocoagulase in Experimental Staphylococcal Infections. W. C. Boake

The Antigenicity of Heterophile Tissues, Studies in Rabbits and Chickens. Murray Friedman and John Yeatman


Enhanced Production of Antibodies by Local Irradiation. II. Measurement of Local Antibodies. John B. Graham and Sidney Leskowits

The Demonstration of an Antibody against Complement. Albert P. McKeel and W. S. Jeter

Organ Specificity of 131I Labeled Rabbit Kidney Eluates in Rats and Rabbits. Irving L. Spar, William F. Bale, Dolores E. Wolfe and Ruth L. Goodland

Neuropathic Effect of Newcastle Disease Virus in Mice and Modification of Host Response by Receptor Destroying Enzyme, Viral Interference, and Xerosin. Vincent Groupé and Robert M. Dougherty

Arthus Reaction in the Mouse and the Rat after Intralabial Injection of Antigens. Jules Freund and Sanford H. Stone


The Timing of Antigen Injection Relative to Whole Body X-Irradiation and the Development of Circulating Antibody and the Splenic Histologic Reaction in the Rat. Frank W. Fitch, Robert W. Wissler, Mariano LaVia and Patricia Barkert

Quantitative Determination of Residual Virus on Red Cells by Direct Infectivity Titrations. Alfred S. Evans

Susceptibility to Infection as a Function of Postirradiation Time Following Oral Challenge. Eugene H. Perkins, David M. Donaldson and Stanley Marcus
CONTENTS [VOL. 76

NUMBER 3, MARCH, 1956

A Soluble Antigen of Phase I Hemophilus Pertussis. I. Mouse Protection Test of Filtrate or Supernatant of Cultures in a Medium Without Soluble Starch or Carbon Particles. Yoshio Kuwajima, Masamiki Masui, Asao Asano and Tochitaka Matsui ........................................... 175
In Vivo Studies on Precipitin Production by the Rabbit Spleen. Kingsley M. Stevens and Philip A. Riley, Jr. .................................................. 181
Some Considerations of the Antigen Dose-Antibody Response Relationship. Kingsley M. Stevens. 187
The Influence of Immunization and Total Body X-Irradiation on Intracellular Digestion by Peritoneal Phagocytes. David M. Donaldson, Stanley Marcus, Ko Ko Gyi and Eugene H. Perkins. 192
The Development of the Phage-Inactivating Properties of Serum During the Course of Specific Immunization of an Animal: Reversible and Irreversible Inactivation. Niels K. Jerne and Perla Avegno .................. 200
The Presence in Normal Serum of Specific Antibody Against Bacteriophage T4 and Its Increase During the Earlier Stages of Immunization. Niels K. Jerne. ........................................... 209
Antibody Formation after Injection of Heterologous Immune Globulin. Frank L. Adler ................. 217
Quantitative Titration of Vaccinia Virus on the Chorioallantoic Membrane. John R. Overman and Igor Tamm ............................................. 228
Transmission of West Nile (B956 Strain) and Semliki Forest Virus (MBB26146-M-40474-958 Strain) to Suckling Hamsters During Lactation. Reginald L. Reagan, Frances S. Yancey, Sing Chen Chang and A. L. Brueckner .................................. 243
The Antitoxin Response of Schick-Negative Rheumatic and Non-Rheumatic Subjects to Diphtheria Toxoid. Robert W. Quinn ............................................. 246

NUMBER 4, APRIL, 1956

Incorporation of Glycine-2-C14 into Homologous Antibody by Rabbit Tissue Slices. Albert S. Keston and Bernard Katchen .................................................. 253
Isofixation Curves as a Method of Standardizing Quantitative Complement-Fixation Tests. José Oliveira de Almeida ............................................. 259
Temperature and Host Cell Factors in the Growth of Influenza Virus (PR8 Strain) in Avian Tissues in Vitro. James M. Colville, James M. Dunbar and Herbert R. Morgan ............................................. 264
The Preparation of a Soluble Immunizing Antigen from Q-Fever Rickettsiae. John S. Colter, Raymond A. Brown, Harris H. Bird and Herald R. Cox ............................................. 270
Mechanism of the Teratogenic Action of Newcastle Disease Virus in the Chick Embryo. Alice Polk Williamson, Russell J. Blattner and Lydia Simonsen ............................................. 275
Virus Adsorption and Plaque Formation in Monolayer Cultures of Trypsin-Dispersed Monkey Kidney. J. S. Youngner ............................................. 288
Antigenic Studies on the Psittacosis-Lymphogranuloma Venereum Group of Viruses. II. Characterization of Complement-Fixing Antigens Extracted with Sodium Lauryl Sulfate. Albert A. Benedict and Edith O'Brien ............................................. 293
Infection of One-Day-Old Fertile Hen's Egg with Herpes Simplex Virus. Kamesaburo Yoshino ............................................. 301
The Effects of Aging, and the Modifications of These Effects, on the Immunity of Mosquitoes to Malarial Infection. Levon A. Terzian, N. Stahler and F. Irreverre ............................................. 308
Growth Characteristics and Cytopathogenic Effects of Influenza A and B in Cultures of Human Embryo Tissues. William J. Mogabgab, Georgie I. Simpson and Irving J. Green ............................................. 314
Response of Ferrets to Mumps Virus. Irving Gordon, Khoshed Pavri and Sophia M. Cohen ............................................. 328

NUMBER 5, MAY, 1956

Studies on the Antigenicity of Modified Fluid Gelatin. Paul H. Maurer and H. Lebovitz ............................................. 335
The Serology of Newcastle Virus Infection. I. The Reaction Between Various Sera and the Virus. F. B. Bang and M. Foard ............................................. 342
The Serology of Newcastle Virus Infection. II. The Antigenic Relationships of Newcastle Virus. F. B. Bang and M. Foard ............................................. 348
The Serology of Newcastle Virus Infection. III. Prevalence of Antibody Against Newcastle in Individuals CloselyExposed to the Virus and in the Absence of Conjunctivitis. F. B. Bang and M. Foard ............................................................................. 352


Enhancement of Immunization Response by Phosphorylated Hesperidin. J. N. Moss, J. M. Beiler and G. J. Martin .................................................................................................................. 363

Leptospiral Antigens for Use in Complement Fixation. Boiling of the Cultures and Acetone Treatment. Alexander L. Terzian ............................................................... 366


Studies on the Relationship of Potassium to Influenza Virus Multiplication. Alvin S. Levine, Phyllis H. Bond, A. R. Scala and Monroe D. Eaton ................................................................. 386

Investigation of the Tetanus Toxin from Two Different Strains of Clostridium tetani. John F. Largier ................................................................................... 393

Inhibition of Blood-Group Agglutininas by Substances Occurring in Plants. Georg F. Springer .................................................................................................................. 399

Studies on Organ Specificity. IV. Production of Rabbit Thyroid Antibodies in the Rabbit. Ernest Witebsky and Noel R. Rose .................................................................................. 408

Studies on Organ Specificity. V. Changes in the Thyroid Glands of Rabbits Following Active Immunization with Rabbit Thyroid Extracts. Noel R. Rose and Ernest Witebsky .......... 417

Kinetics of Human Complement. II. Separation of the Reaction between Human Complement and Sensitized Cells into Two Steps. Myron A. Leon ........................................................................... 428

Serologic Relationship of Meningococcal Strains in Norway. Kaare Jyssum .......................................................................................................................... 433

A Quantitative Study of the Passive Arthus Reaction in the Rabbit Eye. Byron H. Waksman and S. J. Bullington ........................................................................................................ 441

Non-specific Viral Inactivating Substance (VIS) in Human and Mammalian Sera. Natural Antagonists to the Inactivator of Newcastle Disease Virus and Observations on the Nature of the Union between the Inactivator and Virus. David T. Karzon .................................................................................................................. 454
