CONTENTS

NUMBER 1, JANUARY, 1953

A Simple Method for Obtaining Highly Potent Tetanus Toxin. Walter Koch and Deborah Kaplan. 1

Standardization of Cobra (Naja Flava) Venom Using the Graded Response Method. P. Agerholm Christensen and D. J. Finney. 7

The Production of Antibody by Patients with Acute Viral Hepatitis. Peter L. Eichman, Ruth W. Miller and W. Paul Havens, Jr. 21

Evaluation of Prolonged Antibiotic Therapy in Mice with Chronic Brucella Infection Due to Brucella melitensis. James M. Shaffer, Carrell J. Kucera and Wesley W. Spink. 31

The Relation Between the Infectivity and the Hemagglutinin of Murine Encephalomyelitis Virus (GDVII). Marion C. Morris. 39

Virus Growth in Tissue Culture Fibroblasts. I. Influenza A and Herpes Simplex Viruses. Cyril S. Stulberg and Ruth Schapira. 51

Antibody Production in Inbred Strains of Mice. Mary Alexander Fink and Virginia A. Quinn. 61

Studies on the Bactericidal Reaction. I. Bactericidal Action of Normal Sera Against a Strain of Salmonella typhosa. Frank L. Adler. 69

II. Inhibition by Antibody, and Antibody Requirements of the Reaction. Frank L. Adler. 79

In vitro Action of Mustards on the Infective and Toxic Components of Influenza A (PR8) Virus. Jacob Fong and Enrique Bernal. 89

In vitro Action of Sulfur Mustard and Chloroethylamine Derivatives upon Antigenicity of Influenza A (PR8) Virus. Jacob Fong and Enrique Bernal. 97

Studies with Shigella dysenteriae (Shiga). IV. Immunological Reactions in Monkeys to the Toxins in Isolated Intestinal Pouches. Sara E. Branham, Gail M. Dack and Donald B. Riggs. 103

A study of the Relation of Antibiotics, Vitamins and Hormones to Immunity to Infection. Levon A. Terzian, N. Stahler and Helma Miller. 115

The Immunological Relationship between Human and Bovine Serum Albumin. L. R. Melcher, S. P. Masouredis and R. Reed. 125

NUMBER 2, FEBRUARY, 1953

Antibody Formation in vitro by Haemopoietic Organs after Subcutaneous and Intravenous Immunization. G. J. Thorbecke and F. J. Keuning. 129

The Effect of Complement in Rabbit Serum on the Quantitative Precipitin Reaction. I. Paul H. Maurer and David W. Talmage. 135


Natural Pathogenicity of Mumps Virus for Suckling Hamsters on Intracerebral Inoculation. Lawrence Kilham and John R. Overman. 147

Cutaneous Hypersensitivity in Brucellosis. I. Characterization of an Antigen for Detection of Cutaneous Hypersensitivity in Brucellosis. Albert A. Benedict and Sanford S. Elberg. 152

II. Chromatographic Studies on the Skin-Test Antigen. Albert A. Benedict and Sanford S. Elberg. 165

Precision of Potency Assay of Alum-Precipitated Tetanus Toxoid in Mice. Johannes Ipsen, Jr. 171

Antigens in Scarlatinal Erythrogenic Toxin Demonstrable by the Oudin Technic. Robert K. Jennings. 181

Formation of the Particles of Influenza Virus. Ralph W. G. Wyckoff. 187

Hemagglutinins among Higher Fungi. Alan W. Bernheimer and Mary Elizabeth Farkas. 197

NUMBER 3, MARCH, 1953


Serological Studies with Vibrio Metaschnikovi. E. Staten Wynne, Cora L. Gott, Donald A. Mehl and James O. Norman. 207
A Serologically-Active Erythrocyte-Sensitizing Substance from Typhus Rickettsiae.

I. Isolation and Titration. Shih-man Chang ............................................ 212

Effect of Thiosemicarbazones and Dichlorophenoxy Thiouracil on Multiplication of a Recently Isolated Strain of Variola-Vaccinia Virus in the Brain of the Mouse. S. A. Minton, Jr., J. E. Officer and R. L. Thompson ..................................................... 222

Effect of Heterocyclic and Other Thiosemicarbazones on Vaccinia Infection in the Mouse. R. L. Thompson, S. A. Minton, Jr., J. E. Officer and G. H. Hitchings ................................................................ 229


Fractional Dilution Procedure for Precise Titration of Hemagglutinating Viruses and Hemagglutination-Inhibiting Antibodies. Frank L. Horsfall, Jr. and Igor Tamm .......................................................... 253

Quantitative Studies of Cross Reactions Between Shigella flexneri Types 1a, 1b, and 3. Samuel B. Formal and Edgar E. Baker ................................................................... 260

Immunization of Mice Against Histoplasma capsulatum. S. B. Salvin ............................................ 267

The Hemagglutinin of St. Louis Encephalitis Virus.

I. Recovery of Stable Hemagglutinin from the Brains of Infected Mice. Robert M. Chanock and Albert B. Sabin ..................................................... 271
II. Physico-Chemical Properties and Nature of its Reaction with Erythrocytes. Robert M. Chanock and Albert B. Sabin ................................................................ 286
III. Properties of Normal Inhibitors and Specific Antibody; Use of Hemagglutination-Inhibition for Diagnosis of Infection. Robert M. Chanock and Albert B. Sabin ................................................................ 302

A Note on the Use of the Antigen Excess Zone to Reveal the Existence of Certain Types of Cross Reactions in Unidentified Mixtures of Antigens. Melvin Cohn ................................................................................. 317

Antigen-Antibody Precipitates in Solid Medium with Influenza Virus. Keith E. Jensen and Thomas Francis, Jr. ................................................................................. 321

The Efficacy of the Intracutaneous Route of Infection and the Susceptibility of the Hartley Strain of Guinea Pigs in Experimental Allergic Encephalitis. Murray M. Lipton and Jules Freund.. 326

Specific White Cell Lysis Produced by Combination of Rabbit Antiserum to Purified Protein (Ovalbumin, Bovine Gamma Globulin) with Homologous Antigen. The Role of Non-Precipitating Antibody. Byron H. Waksman and Donald Gaulitz..................................................... 331

The Comparative Retention of Antigen in the Skin of Immune and Normal Rabbits as Determined with Egg Albumin Labelled with Radioactive Iodine. Leonhard Korngold, Grant L. Stahly, Matt C. Dodd and William G. Myers ................................................................................. 345

The Stability of Chick Embryo Yellow Fever Vaccine During Storage. Richard G. Hahn and John C. Bugher ................................................................................. 352

The Origin of Fecal Antibody and Its Relationship to Immunization with Adjuvant. Marian Elliott Koshland ................................................................................. 359

The Effect of High Intensity Electron Bursts on Antibodies. Frederick B. Traub, Arno Brasch and Wolfgang Huber ................................................................................. 366

The Molecular Weight of an Antigen-Antibody Complex. Elmer L. Becker ................................................................................. 372


Some Effects of Formalin on the Serological Activity of Crustacean and Mammalian Sera. Charles A. Leone ................................................................................. 386


Characteristics of Antibiotic-Producing Strains of the Ocular Bacterial Flora. Seymour P. Halpert, Lois Swick and Constance Sonn ................................................................................. 400

The Altered Reactivity of Mice After Immunization with Hemophilus pertussis Vaccine. Leon S. Kind ..................................................... 411
1953

CONTENTS

Relation of the Incubation Period and the Secondary Immune Response to Lasting Immunity to Infectious Diseases. Colin M. MacLeod ................................................... 421
Bio-Assay of Four Tetanus Toxoids (Aluminum Precipitated) in Mice, Guinea Pigs and Humans. Johannes Ipsen, Jr. ......................................................................... 426

NUMBER 5, MAY, 1953

The Effect of the Presence of Complement in Rabbit Serum on the Quantitative Precipitin Reaction. II. Effect on Antigen and Antibody Precipitation. Paul H. Maurer and David W. Talmage ................................................................................... 435
Experimental Hypersensitivity. The Effect of Adrenoeorticotropic Hormone, Cortisone and Adrenalectomy on the Serological and Histological Responses in the Rabbit Following Injections of Foreign Proteins. Frederic C. Moll and Clinton Van Zandt Hawn ............. 441
The Effect of Cortisone on Local Antibody Formation. Sheldon P. Hayes ........................................... 450
Effects of X-Irradiation and Adrenalectomy on Phagocytic Activity. Don W. Esplin, Stanley Marcus and David M. Donaldson .......................................................... 454
A Toxic Substance Associated with the Rickettsias of the Spotted Fever Group. E. John Bell and Edgar G. Pickens ........................................................................ 461
Growth Curves of Coxsackie Viruses in Mice, Including the Temporal Development of Complement Fixing Antigens. Guillermo Contreras and Joseph L. Melnick .............................................. 473
Complement Fixing Antibodies Against Coxsackie Viruses in Mice. Guillermo Contreras and Joseph L. Melnick ................................................................. 484
Antibody Production and Tuberculin Sensitivity in Individuals with a History of Rheumatic Fever. Robert W. Quinn, C. V. Seastone and Helen A. Dickie ...................................... 493

NUMBER 6, JUNE, 1953

A Consideration of the Components Concerned in the Conglutinating Activities of Certain Components. Christine E. Rice ................................................................ 497
A Serological Study of Some Helminth Relations. Henry Vogel ......................................................... 503
Immunological Studies of Egg White Proteins. V. The Cross-Reactions of Egg White Proteins of Various Species. L. R. Wetter, Melvin Cohn and H. F. Deutsch ......................................................... 507
Dextran—An Antigen in Man. Elvin A. Kabat and Deborah Berg ........................................................ 514
The Separation of Alpha Toxin (Lecithinase) from Filtrates of Clostridium welchii. Florence B. Roth and Louis Pillemer ........................................................................ 533
An Analysis of the Difference Between a Destructive and a Vaccine Strain of NDV (Newcastle Disease Virus) in the Chick Embryo. Ch'ien Liu, M.D. and Frederik B. Bang, M.D. ........... 538