CONTENTS

NUMBER 1, JANUARY, 1952

Inhibition of the Growth of Viruses in the Chick Embryo by Aromatic Diamidines. Monroe D. Eaton, Charlotte G. Levenson and Maude Perry ................................. 1
Protease Activation in Immune Reactions. Walton B. Geiger ................................. 11
Immunochemical Studies on Blood Groups. XII. Preparation of Blood Group Substances from Bovine Stomach Linings and a Comparison of their Chemical and Immunochemical Properties with those of Blood Group Substances from other Species. Sam M. Beiser and Elvin A. Kabat ....................................... 19
Studies on Conglutinin. I. Its Role in Erythrocytic Agglutination in Relation to the Application of the Lattice Theory. John A. Flick and Aida L. Villafane .............................. 41
Paradoxical Effect of Congo Red on the Toxicity of Streptolysin S for Mice. Kirsten Rosendal and Alan W. Bernheimer ............................................. 53
The Effect of Human Serum upon the Agglutination of Enzyme-Treated Erythrocytes. Robert E. Hoyt and Helen Zwicker ..................................... 61
Hemagglutination by Tularemia Antisera: Further Observations on Agglutination of Polysaccharide-Treated Erythrocytes and its Inhibition by Polysaccharide. George G. Wright and Richard J. Feinberg ........................................... 65
The Fate in Rabbits of Intravenously Injected 125I Iodoalbumin. Felix Haurowitz and Charles F. Crampton ...................................................... 73
The Susceptibility of Irradiated Mice to Infection as a Function of Post-Irradiation Time. I. L. Shechmeister, V. P. Bond and M. N. Swift ......................................... 87
The Effect of Trypsin on Hemagglutination by Murine Encephalomyelitis Virus (GDVII). Marion C. Morris ................................................... 97
Immunization of Laboratory Workers with Purified Trivalent Equine Encephalomyelitis Vaccine. Fred D. Maurer, Kenneth L. Kuttler and Robert H. Yager .... 109

NUMBER 2, FEBRUARY, 1952

Analysis of Immunity in Experimental Tsutsugamushi Disease. Tsuguo Kuwata ...... 115
In Vivo and In Vitro Studies of Serological Specificity Among Viruses of the Psittacosis-Lymphogranuloma Venereum Group. M. R. Hilleman, D. A Haig and R. J. Helmol ................................. 121
Studies on Immunization Against Plague. II. The Complement-Fixation Test. T. H. Chen, S. F. Quan and K. F. Meyer ............................................. 147
The Cellular Transfer in Humans of Delayed Cutaneous Reactivity to Hemolytic Streptococci. H. Sherwood Lawrence ........................................... 159
On the Chromatographic Behavior of the T Coliphages in Paper Strips. Charles C. Shepard ............................................................... 179
The Interechangeability of the Complement Components of Different Animal Species. Christine E. Rice and Paul Boulanger ............................................. 197
Antibody Response of Human Subjects to Epidemic Typhus Vaccine Three to Eight Years after Previous Immunization. Edward S. Murray, Avis Ofstrock and John C. Snyder ................................. 207

NUMBER 3, MARCH, 1952

Precipitin Production in Chickens. VII. The Relation Between Circulating Antibody and Anaphylactie Shock. Takaehi Makinodan, Harold R. Wolfe, Morris Goodman and Royal Ruth ........................................... 219
The Effect of Total Body X Irradiation on the Susceptibility of Mice to Influenza A Virus Infection. Ernest Beutler and Horace M. Gezon ........................................... 227
Studies of Antibody Distribution in the Serum Proteins of Several Rh Antisera. John R. Cann, Raymond A. Brown, John G. Kirkwood, Phillip Sturgeon and Donald W. Clarke ............................................ 243
Metabolic Studies of Rickettsiae. II. Studies on the Pathway of Glutamate Oxidation by Purified Suspensions of Rickettsia mooseri. Charles L. Wiseman, Jr., Fred E. Hahn, Elizabeth B. Jackson, F. Marilyn Bozeman and Joseph E. Smadel ........ 251
Studies on Acute Disseminated Eryphalomyelitis Produced Experimentally in Rhesus Monkeys. Elvin A. Kabat, Abner Wolf and Ada E. Bezer ....................... 265
Studies on a "Complete" and an "Incomplete" Rh Antiserum with cDe/cde and -D/-D- Cells. I. The Native Sera. Phillip Sturgeon ........................................... 277
Studies on a "Complete" and an "Incomplete" Rh Antiserum with cDe/cde and -D/-D- Cells. II. Fractions of the "Incomplete Serum". Phillip Sturgeon and Raymond A. Brown ........................................... 287
Complement Fixation Tests with Homologous and Heterologous Types of Coxsackie Virus in Man. Lisbeth M. Kraft and Joseph L. Melnick ......................... 297
Intranuclear Inclusion Bodies in Cultures of Human Tissue Inoculated with Varicella Vesicle Fluid. Thomas H. Weller and Marguerite B. Stoddard .................... 311
Studies on the Mode of Action of Aromatic Diamidines on Influenza and Mumps Virus in Tissue Culture. Monroe D. Eaton, Maude E. Perry, Charlotte G. Levenson and Ilia M. Gocke .................................................. 321

NUMBER 4, APRIL, 1952

The Interaction of Erythrocytes and Antibodies with Synthetic Polymers and Some Other Substances. Winifred T. Frazer and Melvin Calvin ....................... 335
A Study of Infections Caused by Mumps and Newcastle Disease Viruses. I. Specific and Non-specific Serologic Relations. Herbert A. Wenner, Marian H. Jenson and Anne Monley .................................................. 343
A Study of Infections Caused by Mumps and Newcastle Disease Viruses. II. Some Properties of Specific and Non-specific Serum Hemagglutination Inhibitor Components. Herbert A. Wenner, Anne Monley and Marian H. Jenson ............... 357
The Response to the Intracutaneous Inoculation of BCG as an Index of Native Resistance to Tuberculosis. Max B. Lurie, Peter Zappasodi, Eugenia Cardona-Lynch and Arthur M. Dannenberg, Jr ................................. 369
The Effect of ACTH and Cortisone on the Concentration of Circulating Diphtheria Antitoxin. W. Paul Havens, Jr., James M. Shaffer and Charles J. Hopke, Jr ....... 389
Blood Group Activity and Composition of Polysaccharides from Pancreatins. Ethel Verney and Aaron H. Stock ................................................................. 401
The Use of Chicken Antiserum in the Immunochemical Studies of Edestin. J. Munoz and Elmer L. Becker ................................................................. 405
The Tuberculin Reaction. V. The Antigenicity of Chloroform Soluble Tuberculo- protein Wax. Quentin Myrvik and Russell S. Weiser .................................. 413
The Effect of a Malaria Infection on the Titer of Complement and its Components in Ducks. R. BarclayMcGhee ................................................................. 421
The Homogeneity of Purified Diphtheria Toxins and Toxoids as Investigated by the Semisolid Precipitin Technic. Harry E. Bowen ........................................ 429
Studies on Certain Viruses Isolated in the Tropics of Africa and South America. Immunological Reactions as Determined by Cross-Complement-Fixation Tests. J. Austin Kerr ................................................................. 461
CONTENTS


NUMBER 5, MAY, 1952

The Growth of Mouse Encephalomyelitis Virus (Theiler's FA Strain) in Embryonated Eggs. Robert B. Lawson .............................................................. 495

Studies of Toxin of Clostridium botulinum Type D. Daniel A. Boroff, Marcel Raynaud and André R. Prévot ................................................................. 503

Rh Antigens of Human and Monkey Blood. John Murray ......................................................... 513

The Effect of Certain Chemical Compounds on the Multiplication of T2 Bacteriophage. Jerald G. Wooley, Marie K. Murphy, Howard W. Bond and Theodore D. Perrine ................................................................. 523

Toxic Manifestations in Rabbits and Mice Associated with the Virus of Western Equine Encephalomyelitis. Lyle B. Fastier ............................................. 531

Individual Variation in the Hemagglutinin Content of Yellowfin Tuna and Skipjack Bloods. John E. Cushing ................................................................. 543

Postnatal Immunity in Mouse Encephalomyelitis. Donald J. Dean ........................................... 549

Vaccination Against Paratuberculosis (Johne's Disease). Björn Sigurdsson .................................. 559


Stimulating Effect of Tuberculin Upon Production of Circulating Antibodies in Guinea Pigs Infected with Tubercle Bacilli. Stephen V. Boyden and W. Emanuel Suter ................. 577


NUMBER 6, JUNE, 1952

Inoculation of Cynomolgus Monkeys with Coxsackie Virus Alone, Combined, or with Poliomyelitis Virus. Beatrice F. Howitt and Velma J. Nichols ................................................. 599


The Effect of Chemical Substances in Mice Infected with St. Louis Encephalitis, PR8 Strain of Influenza, or the Lansing Strain of Poliomyelitis Virus. Jerald G. Wooley, Howard W. Bond and Theodore D. Perrine ................................................. 621

Studies on Hemagglutination by Columbia-SK Virus. Beni Horvath and Claus W. Jungeblut ................................................................. 627

Studies on Herpes Simplex Virus. III. The Neutralization of Egg-Adapted Herpes Virus by Human Sera in ovo. Ernest Jawetz and Virginia R. Coleman ................................................................. 645

Studies on Herpes Simplex Virus. IV. The Level of Neutralizing Antibodies in Human Sera. Ernest Jawetz, M. F. Allende and Virginia R. Coleman ................................................................. 655

Evaluation of Serological Methods for Demonstrating Antibody Responses to Group A Coxsackie (Herpangina) Viruses. Edward A. Beeman and Robert J. Huebner ................................................................. 663

Parallel Studies of Complement and Blood Coagulation. VII. The Effect of Ethionine. Christine E. Rice, Paul Boulanger, P. J. G. Plummer and E. Annau ................................................................. 673

Differences in the Capacity of Human Serums to Neutralize Herpes Simplex Virus. Harry M. Rose ................................................................. 687

Radiosensitive and Radioreistant Phases in the Antibody Response. Frank J. Dixon, David W. Talmage and Paul H. Maurer ................................................................. 693