CONTENTS

NUMBER 1, JANUARY, 1957

Serial Determinations of Serum Glycoproteins Following Antigen Injection into Previously Immunized Animals. Henry E. Welmer, Jean Redlich-Moshin, Frances A. Quinn and Eric L. Nelson. 1

Antigen-Antibody Reactions in Agar. III. Rate of Change of Band Migration with Antigen Concentration. J. C. Neff and Elmer L. Becker. 5

Immunologic Differences Between the 19 S and 7 S Components of Normal Human γ-Globulin. E. C. Franklin and H. G. Kunkel. 11

Quantitative Studies of Lipid-Soluble Tissue Antigens as Exemplified by the Wassermann Antigen-Antibody System. I. Estimation of the Wassermann Antibody in Absolute Weight Units. Abraham G. Osler and Eleanor A. Knipp. 19

Quantitative Studies of Lipid-Soluble Tissue Antigens as Exemplified by the Wassermann Antigen-Antibody System. II. Comparative Studies with Mammalian and Plant Tissue Phospholipids. Abraham G. Osler and Eleanor A. Knipp. 30


Comparison of Antibody Responses Associated with the Transfer of Rabbit Lymph-Node, Peritoneal Exudate and Thymus Cells. Frank J. Dixon, William O. Weigle and James C. Roberts. 56

Behavior of Monkeys After Inoculation of Virus Derived from Patients with Measles and Propagated in Tissue Culture Together with Observations on Spontaneous Infections of These Animals by an Agent Exhibiting Similar Antigenic Properties. Thomas C. Peebles, Kevin McCarthy, John F. Enders and Ann Holloway. 63

NUMBER 2, FEBRUARY, 1957

Localizing Properties of Anti-Placenta Serum. David Pressman and Leonhard Korngold. 75

The Cytotoxic Activity of Rabbit Immune Globulin Prepared from Tissue Cultures of Human Skin and Whole Human Placenta. C. Andrew Bassett, Dan H. Campbell, Virginia J. Evans and Wilton R. Earle. 79

Intracellular Localization of Tobacco Mosaic Virus in Mouse Liver. John O. Erickson, Thomas J. Hensley, Max Fields and Raymond L. Libby. 94

Antiviral Activity of Dicarbonyls and Related Compounds in Embryonated Eggs. William F. McLimans, G. E. Underwood, E. A. Slater, E. V. Davis and R. A. Siem. 104

The Influence of Colostrum on Antibody Response in Baby Pigs. Alvin B. Hoerlein. 112


Effects of Roentgen Radiation and Cortisone on Susceptibility of Mice to Candida albicans. F. J. Roth, Jr., Jack Friedman and J. T. Syverton. 122

Morphologic Characteristics of Plaques Produced on Monkey Kidney Monolayer Cultures by Enteric Viruses (Poliomyelitis, Coxsackie and Echo Groups). G. D. Hsiung and Joseph L. Melnick. 128

Comparative Susceptibility of Kidney Cells from Different Monkey Species to Enteric Viruses (Poliomyelitis, Coxsackie and Echo Groups). G. D. Hsiung and Joseph L. Melnick. 137

NUMBER 3, MARCH, 1957


Aspects of the Immune Hemolytic Reaction. II. Effect of Composition of C' on Concentration Dependence in Immune Hemolysis. O. J. Plescia, K. Amiraian and M. Heidelberger. 151

In vitro Bactericidal Activity of Blood for Pasteurella tularensis. William G. Stanziale. 156

Microscopic Characteristics of Colonies of Shigella flexneri 2a and 2b and their Relation to Antigenic Composition, Mouse Virulence and Immunogenicity. Merlin L. Cooper, Helen M. Keller and Edward W. Walters. 158

The Effect of the Antigen’s Molecular Weight on the Curvature of the Precipitin Line in the Ouchterlony Technic. Leonhard Korngold and Gerda van Leeuwen. 172
The Quantitative Precipitin Reaction of Type 19 M Protein Antigen of Group A Streptococci and Antistreptococcal Rabbit Sera. Willard C. Schmidt ........................................ 178

Studies of Anti-Horse Crystalbumin Sera. III. The Heterologous Reactions with Human Serum Albumin and Bovine Serum Albumin. G. R. E. Naylor and M. E. Adair ........................................ 185

The Number of Allantoic Cells in the Chick Embryo. H. J. F. Cairns and S. Fasekas de St. Groth ........................................ 191

Antibody Formation after Injection of Heterologous Immune Globulin. II. Competition of Antigens. Frank L. Adler ........................................ 201

Hemagglutination with Herpes Simplex Virus. L. Vernon Scott, Frances G. Felton and Jack A. Barney ......................................................... 211


Hemagglutinins in Extracts of Israeli Plants. U. Bachrach, J. Gurevitch and D. Zaitschek ........................................ 229

The Behavior of Influenza Viruses in Various Tissue Culture Systems. Irving J. Green, Melvin Lieberman and William J. Mogabgab ........................................ 233


The Antibody-Antigen Reaction. An Hypothesis to Account for the Presence of Uncombined Antigenic Sites in the Presence of Excess Antibody. Irving Rappaport ........................................ 246

The Kinetics of Antibody Inactivation of Tobacco Mosaic Virus. Irving Rappaport ........................................ 256


Immunization Studies on Listeriosis in Mice. John W. Osebold and Mary T. Sawyer ........................................ 262

An Indirect Hemagglutination Test for Hydatid Disease. Garabed A. Garabedian, Robert M. Matossian and Aida Y. Djanian ........................................ 269

Influence of Normal Animal Sera on Influenza Viruses in Cultures of Trapsin-Dispersed Monkey Kidney Cells. Claudia Henry and J. S. Youngner ........................................ 273

Thermal Inactivation Studies with Different Strains of Poliovirus. J. S. Youngner ........................................ 282

Observations on a Qualitative Difference Between the Antibody of Primary and Secondary Response. W. D. Foster ........................................ 291

The Preparation and Properties of Purified Anti-Hapten Antibody. Fred Karush and Robert Marks ........................................ 296


The Early Phase of the Antibody Response. John M. McKenna and Kingsley M. Stevens ........................................ 311

The Measurement of the Response of Immunized Mice to Infection with Mycobacterium Tuberculosis var. mucinivorans. Guy P. Youmans and Anne S. Youmans ........................................ 318

Studies with Measles Virus. I. Propagation in Different Tissue Culture Systems. Gisela Ruekle ........................................ 330

Studies with Measles Virus. II. Isolation of Virus and Immunologic Studies in Persons Who Have Had the Natural Disease. Gisela Ruekle and Kenneth D. Rogers ........................................ 341

Serologic Comparisons with Lines of Influenza Virus Isolated and Serially Transferred in Different Experimental Hosts. Keith E. Jensen, Elva Minuse and Thomas Francis, Jr. ........................................ 356

Comparative Measurements of Antigenic Differences among Human and Swine Influenza Viruses. Keith E. Jensen and Ward D. Peterson, Jr. ........................................ 365

Immunologic Significance of Antigenic Differences among Strains of Influenza A Isolated during the Same Epidemic. Keith E. Jensen ........................................ 373

Indirect Hemagglutination Studies on Salmonellosis of Chickens. John McNeill Sieburth ........................................ 380

Homologous and Heterologous Resistance in Mice Given Bacterial Endotoxins. Robert S. Abernathy ........................................ 387
Integration of Human Serum and Serum Fraction Diffusion Patterns. A Study of Zonal Characteristics and Complex Reactions. William G. Glenn and Anna C. Garner .......................... 395
Precipitin Production in Chickens. XV. The Effect of Aging of the Antiserum on Precipitate Formation. Nazareth Gengozian and Harold R. Wolfe ............................................ 401
Interaction between Internally Labeled Complement and Specific Precipitates. Nathan Penn, Felix Haurowitz and Mutahhar Yenson ..................................................... 409
Studies on the Hemagglutinin of Infectious Canine Hepatitis Virus. Lyle B. Fastier ... 413
Cross Reactions of Polyglucoses in Antipneumococcal Sera. III. Reactions in Horse Sera. Michael Heidelberger, Hans Jahrmärker, Bertil Björklund and John Adams ........... 419
Cross Reactions of Polyglucoses in Antipneumococcal Sera. IV. Precipitation in Rabbit Antisera to Type IX and Type XII Pneumococcus. Michael Heidelberger, Hans Jahrmärker and Felix Cordoba .......................................................... 427
The Purification of Poliomyelitis Virus as Studied by Complement Fixation. Manfred M. Mayer, Herbert J. Rapp, Bernard Roizman, S. Wayne Klein, Keith M. Cowan and David Lukens .... 435
Reactivity of Influenza A and B Viruses Propagated in Cultures of Human Embryo Tissues and in the Chick Embryo. George I. Simpson and William J. Mogabgab ................. 456
Demonstration of Antigenic Relationship between Mumps Virus and Hemagglutinating Virus of Japan. Joseph L. DeMeio and Duard L. Walker ............................................ 465
A Study of Experimental Encephalomyelitis Employing Mammalian and Nonmammalian Nervous Tissues. Philip Y. Paterson ......................................................... 472
Effective Passive Immunization of Mice Twelve Days after Intracerebral Inoculation of Type 2 Poliovirus. C. A. Evans, Velma C. Chambers, Susumu Hotta and E. M. Wood ............ 476