CONTENTS

NUMBER 3, MARCH, 1954

Jacques Jacob Bronfenbrenner (1883-1953): An Appreciation .................................................. 195
The Effects of Vitamin Deficiencies on Some Physiological Factors of Importance in Resistance to
Infection. Kenneth Wertman, Lee W. Smith and William M. O'Leary ........................................... 196
Serological Aspects of the Suppression of Normal Bactericidal Action of Rabbit Serum Following
Whole Body X-Irradiation. D. M. Donaldson and Stanley Marcus ............................................. 203
Heterohemoantibodies in Inbred Strains of Mice.
I. Natural Agglutinins for Sheep and Chicken Red Cells. Kurt Stern and Israel Davidsohn. 209
II. Immune Agglutinins and Hemolysins for Sheep and Chicken Red Cells. Israel Davidsohn
and Kurt Stern ...................................................................... 216
Tissue Culture Studies of Venezuelan Equine Encephalomyelitis Virus. I. Propagation in Human
Uterine Tissue. D. Carleton Gajdusek, Ralph O. Anslow, Elizabeth J. Hubbell and Robert H.
Yager ..................................................................................... 224
The Use of RDE to Improve the Sensitivity of the Hemagglutination-Inhibition Test for the Sero-
logic Diagnosis of Influenza. W. S. Jordan, Jr. and R. O. Oseasohn ............................................. 229
Studies on the Removal of the Encephalitogenic Factor From Rabies Vaccine. G. A. Hottle and
J. H. Peers ................................................................................ 236

NUMBER 4, APRIL, 1954

Inherent Immunizability to Tetanus Toxoid, Based on Studies in Pure Inbred Mice. Johannes
Ipsen, Jr. .................................................................................. 243
Neutralizing Antibodies Against Certain Viruses in the Sera of Residents of India. K. C. Smith-
burn, J. A. Kerr and P. B. Gatne ............................................. 248
Factors Affecting The Efficiency of Combined Prophylactics. I. Effect of Diphtheria Toxoid and
Pertussis Vaccine on Tetanus Toxoid. Leo Levine and Joseph L. Stone ......................................... 258
Studies on Immunity in Anthrax. III. Elaboration of Protective Antigen in a Chemically-Defined,
Non-Protein Medium. G. G. Wright, M. A. Hedberg and J. B. Stein ............................................ 263
Distribution of Sensitizing Antibody in Human Serum Proteins Fractionated by Electrophoresis-
Convection. J. R. Cann and Mary H. Loveless ............................................. 270
Studies on Immunization Against Plague. VII. A Serologic Comparison of Virulent and Avirulent
Strains with Observations on the Structure of the Bacterial Cells and Its Relationship to In-
fection and Immunity. T. H. Chen and K. F. Meyer ................................................................. 282
The Effects of Vital Dyes Upon Experimental Foot and Mouth Virus Infection of Guinea Pigs.
Giacinto Ciaccio, Giuseppe Gasparini and N. Ercoli ................................................................. 299
Cytopathogenic Agents Isolated From Patients During an Unusual Epidemic Exanthem. Franklin
A. Neva and John F. Enders ................................................................................................. 307
Isolation of a Cytopathogenic Agent From an Infant With a Disease in Certain Respects Resem-
bling Roseola Infantum. F. A. Neva and J. F. Enders ............................................................... 315
Studies on the Hemolytic Activity of Newcastle Disease Virus (NDV). Allan Granoff and Werner
Henle .................................................................................. 322
Studies on the Interaction of the Large and Small Hemagglutinating Components of Newcastle
Disease Virus With Red Cells. Allan Granoff and Werner Henle .......................................... 329
Correction ..................................................................................... 340

NUMBER 5, MAY, 1954

Infectivity Titrations of the Viruses of Western Equine Encephalomyelitis and Newcastle Disease
by Tissue Culture Methods. Lyle B. Fastier ................................................................. 341
Growth of Neurotropic Viruses in Extraneural Tissues. VI. Absence of In Vivo Multiplication of
Poliomyelitis Virus. Types I and II, After Intratesticular Inoculation of Monkeys and Other
Laboratory Animals. C. A. Evans, Pamela H. Byatt, Velma C. Chambers and Wayne M.
Smith .................................................................................. 348
Growth of Neurotropic Viruses in Extraneural Tissues. VII. Cultivation of MM and Western Equine
Encephalitis Viruses in Cultures of Rhesus Testicular Tissue. W. M. Smith and C. A. Evans. 353
Micromethods For the Study of Proteins and Antibodies. I. Procedure and General Applications of
Hemagglutination and Hemagglutination-Inhibition Reactions with Tannic Acid and Protein-
Treated Red Blood Cells. Abram B. Stavitsky ................................................................. 360
Mieromethods For the Study of Proteins and Antibodies. II. Specific Applications of Hemagglutination and Hemagglutination-Inhibition Reactions with Tannic Acid and Protein-Treated Red Blood Cells. Abram B. Stavitsky ..................................................... 368
Antigenic Relationships Among Certain Arthropod-Borne Viruses as Revealed by Neutralization Tests. K. C. Smithburn ................................................................... 376
The Presence of H Antigen in Escherichia coli K Suspensions. Joyce Wright and Regina Villanueva 389
A Factor of Complement Inactivated by Histamine or Ethylenediamine. Helene P. Brumfield... 393
Mannitol Negative Varieties of Shigella flexneri Serotypes. W. H. Ewing ........................ 404
Rapid Double Diffusion Precipitin Analysis. Robert K. Jennings and Frances Malone .......... 411
Increased Susceptibility of Mice to Anaphylactic Shock Following Cobalt-60 Gamma Radiation. Richard D. Stoner and Wm. M. Hale ....................................................... 419
Separation of Hemagglutination Inhibitors for GDVII and Influenza Viruses in Normal Allantoic Fluid and Human Urine. Igor Tamm and David A. J. Tyrrell .............................. 424

The Effect of a Synthetic Lysine Polypeptide upon the Velocity of Precipitation of Tobacco Mosaic Virus by Its Antiserum. M. A. Stahmann and R. E. F. Matthews .................. 435
Precipitin Production in Chickens. XII. The Effects of Variation in Ionic Species and Concentration on Precipitate Formation. Morris Goodman, Harold R. Wolfe and Richard Goldberg ...... 440
Anti-Virus Antibody Studies Following Induced Infection of Man with West Nile, Ilhéus and Other Viruses. Chester M. Southam and Alice E. Moore .............................................. 446
On the Kinetics of Neutralization of Bacteriophage T2 by Specific Antiserum. John R. Cann and Eugene W. Clark .......................................................... 463
The Use of the Chick in Titration of Diphtheria Antitoxin. Sara E. Branham and Marion F. Wormald .......................................................... 478
The Inequality of Potential in Influenza Virus for Adaptation to Mice. Fred M. Davenport... 485
A Sheep Erythrocyte Lysin Found in Guinea Pig Serum. Helene P. Brumfield and John D. Ross.. 489
Separation of Inhibitors of Hemagglutination and Specific Antibodies for Influenza Viruses by Starch Zone Electrophoresis. David A. J. Tyrrell .................................................. 494
Studies on Chick-Embryo-Adapted Rabies Virus. VII. Immunological Responses of Animals to Vaccination with High Egg Passage Flury Strain. Hilary Koprowski and Jack Black .... 503
Kinetic Studies on Immune Hemolysis. III. Description of a Terminal Process Which Follows the Ca++ and Mg++ Reaction Steps in the Action of Complement on Sensitized Erythrocytes. Manfred M. Mayer and Lawrence Levine .......................................................... 511
Kinetic Studies on Immune Hemolysis. IV. Rate Determination of the Mg++ and Terminal Reaction Steps. Manfred M. Mayer and Lawrence Levine .................................................. 516
Index .......................................................................................... 531