

## CONTENTS

### NUMBER 1, SEPTEMBER, 1949

Quantitative Studies on the Origin and Characteristics of Streptomycin-fast Variants of <i>Klebsiella pneumoniae</i> . M. Meads and Nancy M. Haslam.....	1
The Effect of Age upon Susceptibility to Infection with Influenza Virus. Seymour S. Kalter.....	17
Pathogenesis of Tetanus. IV. Pathogenesis of Local Tetanus in the Dog and the Cat. Ulrich Friedemann and Frederick B. Traub.....	23
Host Growth and its Relation to Influenzal Virus Infection. Seymour S. Kalter.....	29
Antihemagglutinating and Neutralizing Factors Against Newcastle Disease Virus (NDV) Occurring in Sera of Patients Convalescent from Mumps. Lawrence Kilham, Erwin Jungherr, and Roy E. Luginbuhl.....	37
The Occurrence of Antibodies for <i>pneumococcus</i> Type II in the Serum of Normal Rabbits. Joaquin Munoz and Frances E. Holford.....	51
The Immunologic Reactivity of Bovine Serum Albumin Labelled with Trace-amounts of Radioactive Iodine ( $I^{131}$ ). Herman N. Eisen and Albert S. Keston.....	71
Multiplication of Pneumonia Virus of Mice (PVM) in the Rabbit Lung and the Demonstration of a Hemagglutinating Component in Lung Suspensions from Normal Animals. Fred M. Davenport.....	81
Purification, pH Stability and Sedimentation Properties of the T <sub>7</sub> Bacteriophage of <i>Escherichia coli</i> . G. P. Kerby, R. A. Gowdy, E. S. Dillon, M. L. Dillon, T. Z. Csáky, D. G. Sharp, and J. W. Beard.....	93
Studies on the Chemotherapy of Virus Infections. I. General Anesthetics and Other Drugs Ineffective Against Experimental Virus Infections in Mice. Morris Schaffer, Francis F. Silver, and Chin Chao Pi.....	109

### NUMBER 2, OCTOBER, 1949

Studies on Pathogenesis and Immunity in Tularemia. I. The Pathogenesis of Tularemia in the White Rat. Cora M. Downs, L. Buchele and Eleanor P. Edgar.....	117
Studies on Pathogenesis and Immunity in Tularemia. II. Immune Response of the White Rat to <i>Bacterium tularensis</i> . L. Buchele and Cora M. Downs.....	135
Studies on Pathogenesis and Immunity in Tularemia. III. Immunogenic Properties for the White Mouse of Various Strains of <i>Bacterium tularensis</i> . Cora M. Downs and J. M. Woodward.....	147
A Study of Fowl Pox Virus Titration on the Chorio-Allantois by the Poek Counting Technique. D. B. W. Reid, J. F. Crawley and A. J. Rhodes.....	165
Studies on the Antigenicity of Cytochrome C. E. L. Becker and J. Munoz.....	173
A Method for Purifying Diphtheria Toxoid and Combining it with Protamine. V. Ross.....	183
Biophysical Studies of Blood Plasma Proteins. XI. Immunological and Electrophoretic Studies of Immune Chicken Serum. H. F. Deutsch, J. C. Nichol and M. Cohn.....	195
Studies on Local Antibody Formation in the Nervous System of Paralyzed, Poliomyelitis Convalescent Monkeys. A. B. Sabin and A. J. Steigman.....	211

### NUMBER 3, NOVEMBER, 1949

Chemical and Immunological Properties of Diphtheria Toxoid Purified by Ammonium Sulfate Fractionation. Leo Levine, Louise Wyman and Geoffrey Edsall.....	219
The Measurement of Neutralizing Antibodies to Streptococcal Hyaluronidase by a Turbidimetric Method. Susanna Harris and T. N. Harris.....	233
Turbidimetric Measurement of Streptococcal Anti-Hyaluronidase in the Sera of Patients with Streptococcal Infection and Rheumatic Fever. T. N. Harris and Susanna Harris.....	249

Inhibitory Effect of Human Saliva on Hemagglutination by Influenza Virus A (PR8 strain) and the Swine Influenza Virus. J. H. Seltam, Frank Lanni, and J. W. Beard . . . . .	261
Studies on the Inactivation of Influenza and Newcastle Disease Viruses by a Specific Lipid Fraction of Normal Animal Sera. John P. Utz . . . . .	273
Specific Serological Reactions which Follow Naturally Acquired Mumps. Alfred L. Florman and Joseph H. Kutch . . . . .	281
A Quantitative Study of the Diphtheria Toxin-Antoxin Reaction in the Sera of Various Species Including Man. Melvin Cohn and A. M. Pappenheimer, Jr., . . . . .	291
Immunization of Laboratory Workers with Purified Venezuelan Equine Encephalomyelitis Vaccine. Raymond Randall, Fred D. Maurer and Joseph E. Smadel . . . . .	313
The Dispersion of P <sup>32</sup> and Other Tracers Injected into Embryonated Egg. R. M. Taylor and A. C. Saenz . . . . .	319
The Effect of Influenza Virus Infection upon the Dispersion of P <sup>32</sup> in Embryonated Eggs. A. C. Saenz and R. M. Taylor . . . . .	331
The Failure of Merodicein to Modify Influenza Virus Infections. Thomas Francis, Jr. and Kari Penttinen . . . . .	337

## NUMBER 4, DECEMBER, 1949

Mouse-pox (Infectious Ectromelia of Mice): A Review. Frank Fenner . . . . .	341
The Zone of Localization of Antibodies. IV. The <i>in vivo</i> Disposition of Anti-Mouse-Kidney Serum and Anti-Mouse-Plasma Serum as Determined by Radioactive Tracers. David Pressman . . . . .	375
Loss of Hemolytic-Complement Activity and of Granulocytes Following Reinjection of an Antigen into the Rabbit. A. B. Stavitsky, R. Stavitsky and E. E. Ecker . . . . .	389
A Comparison of the Von Krogh Formula (Logistic Function) and the Method of Probits as Applied to Hemolysis by Complement. Byron H. Waksman . . . . .	409
The Quantitative Estimation of Serum Albumin in Human Body Fluids by Direct Titration with Specific Horse Antiserum. David Gitlin, Charles S. Davidson and Leslie H. Wetterlow . . . . .	415
The Antigenicity of Collagen. Byron H. Waksman and Harold L. Mason . . . . .	427
Tumor-Immunity Induced in Rats by Subcutaneous Injection of Tumor Extract. Paul Myron Aptekman, Margaret Reed Lewis and Helen Dean King . . . . .	435
Serological Reactions in Rheumatoid Arthritis. I. Factors Affecting the Agglutination of Sensitized Sheep Erythrocytes in Rheumatoid-Arthritis Serum. Robert M. Pike, S. Edward Sulkin and Howard C. Coggeshall . . . . .	441
Serological Reactions in Rheumatoid Arthritis. II. Concerning the Nature of the Factor in Rheumatoid-Arthritis Serum Responsible for Increased Agglutination of sensitized Sheep Erythrocytes. Robert M. Pike, S. Edward Sulkin and Howard C. Coggeshall . . . . .	447
Studies in Dysentery Vaccination. VIII. Comparative Response and Persistence of Immunity in Mice Vaccinated Intraabdominally or by Gavage with <i>Shigella sonnei</i> . Merlin L. Cooper, Helen M. Keller and Agnes M. Hart . . . . .	465
Immunization of Guinea Pigs with a Soluble Antigen Obtained from <i>Brucella abortus</i> Carl L. Larson . . . . .	471
<b>Index</b> . . . . .	479