CONTENTS

NUMBER 1, JANUARY, 1943
Neutralization Tests with Fractions of Poliomyelitis Antiserum (Horse). John A. Toomey, Charles F. McKhann and Kathleen Fahey .................................................. 1
Preparation and Use of Rb Testing Sera. Fred W. Gallagher and Lloyd R. Jones... 9

NUMBER 2, FEBRUARY, 1943
Antibody Response to Hemoglobin Adsorbed on Aluminum Hydroxide. Frances E. Holford, J. B. Ludden and William H. Stevens ........................................... 47
Studies on Precipitin-Production and Anaphylactic Sensitization in Guinea-Pigs. Harold R. Cohen and Milton M. Mosko ......................................................... 59
Individual Specificity of Human Serum. R. W. Cumley and M. R. Irwin ............. 63
Studies on the Toxins of Shigella dysenteriae (Shiga). L. Olitzky, J. Bendersky and P. K. Koch .......................................................... 71
Allergy and Immunity in Tuberculosis. I. Immunization and Reinfection of Guinea-Pigs with Homologous Variants of the Human Tubercle Bacillus H37. Morris Steiner and Bernard Zuger ........................................ 83
Allergy and Immunity in Tuberculosis. II. Relationship of Tuberculin Cutaneous Reactivity to Experimental Infection in the Guinea-Pig. Bernard Zuger and Morris Steiner .......................................................... 91

NUMBER 3, MARCH, 1943
A Toxic Ocular Reaction. I. New Property of Schwartzman Toxins. Corrado Ayo .. 113
A Toxic Ocular Reaction. II. On the Nature of the Reaction. Corrado Ayo ........... 127
Influence of Benzene-Poisoning upon Streptococcal Infections in Rabbits. I. Benzene-Poisoning and Natural Resistance to Intracutaneous Streptococcal Infection. R. J. Schnitzer and I. G. Goddard ............................................. 133
Influence of Benzene-Poisoning upon Streptococcal Infections in Rabbits. II. Benzene-Poisoning and Active and Passive Immunity to Intracutaneous Streptococcal Infection. R. J. Schnitzer .................................................. 143
The Effect of Alcohol Intoxication upon Acquired Resistance to Pneumococcal Infection in Rabbits. Clarence C. Lushbaugh ................................................. 151
Demonstration of the Efficacy of Vaccination against Influenza Type A by Experimental Infection of Human Beings. Werner Henle, Gertrude Henle and Joseph Stokes, Jr .......................................................... 163

NUMBER 4, APRIL, 1943
A Comparison of the Collodion-Particle Technic with Other Methods of Measuring Antibody. Francis C. Lowell ................................................... 177
Complement Fixation for Lymphogranuloma Venereum and for Psittacosis with Frei Reactions among Pneumonia Patients. Sonnia Levine, Ernest C. Holder and Jesse G. M. Bullowa .......................................................... 183
Factors Influencing the Development of Resistance in Escherichia coli to the Sulfonamides. Jerome S. Harris and Henry I. Kohn ........................................... 189
Histologic Studies of Reactions to Intracutaneous Tests in Allergy of Infection in Humans. Frances Pascher, Marion B. Sulzberger and David L. Satenstein .... 195

Comparative Quantitative Studies of Guinea-Pig and Rabbit Anti-Hemocyanin Precipitates. Guy P. Youmans and Charlotte A. Colwell .............................................. 217

Phenomenon of Local Skin-Reactivity (Schwartzman) to Organisms of the Brucella Group. Bowman Wise and Grace P. Kerby ................................................................ 225

Studies on Antibody-Antigen Mixtures. II. The Effect on Normal Living Excised Tissue and Its Dependence on the Presence of Free Antibody in the Mixture. Anna M. Kulka .......................................................... 235

Type 6 Pneumococcal Antibodies in Anti-Hemophilus influenzae Horse Serum. Erwin Neter ................................................................................................. 239

A Case of Spurious Linkage, as Claimed for the Classical Blood Groups and Allergy. Felix Bernstein, Herbert L. Borison and Sidney Finkel ........................................... 245

Specific Precipitation. V. Irreversible Systems. A. D. Hershey ................................................................. 249

Persistence of Leptospira Antibodies in the Circulating Blood of Patients Recovered One to Over Twenty Years from Weil's Disease. A. Packehanian and Nylah Tom ............................................................. 263

Quantitative Methods in the Study of the Phage-Antiphage Reaction. A. D. Hershey, G. Kalmanson and J. Bronfenbrenner .................................................. 267

Quantitative Relationships in the Phage-Antiphage Reaction: Unity and Homogeneity of the Reactants. A. D. Hershey, G. Kalmanson and J. Bronfenbrenner .................................................. 281

Immunizing Potency in Man of a Purified Antigenic Material Isolated from *Escherichia typhosa*. Herbert R. Morgan, Grant O. Favorite and J. Arthur Hornoff ......................... 301

A Comparison of the Antigenic Properties of Staphylococcal Vaccine, Staphylococcal Toxoid, and the Two in Combination. Samuel Etris .................................................. 309

Staphylococcal Vaccine-Toxoid Combined in Human Immunization. Frederic B. Faust and Samuel Etris ......................................................................................... 315

The Complementary Activity of Mouse-Serum. Gordon C. Brown ......................................................... 319

Antigenic Properties of Mouse-Tissues. Gordon C. Brown ................................................................. 325

The Biological Assay of Tetanus-Toxoid. L. Greenberg, C. A. Morrell and J. Gibbard .................. 333

Effect of Temperature of Inactivation of Human, Rabbit, and Guinea-Pig Serum upon the Hemolytic Activity of Complement. Elizabeth L. Hazen .............................................. 341

The Immunochemistry of Allergens. II. Antigenic Studies by the Dale Method of the Electrophoretic Fractionation Products of the Protein-Carbohydrate Fraction, CS-1A, from Cottonseed. E. J. Coulson, Joseph R. Spies and Henry Stevens ......................................................... 347

The Immunochemistry of Allergens. III. Anaphylactogenic Potency of the Electrophoretic Fractionation Products of CS-1A from Cottonseed. E. J. Coulson and Joseph R. Spies ......................................................................................... 367

The Immunochemistry of Allergens. IV. Effect of Dilute Acid on Anaphylactogenic Activity, Specificity, and Reagin-Neutralization Capacity of Cottonseed Allergenic Fractions. E. J. Coulson and Joseph R. Spies ......................................................... 377

Evaluation of the Antigenicity of Tetanal Toxoid. Walter L. Koerber ......................................................... 381

Cross Protection between Heterologous Agglutigenic Types of Beta Hemolytic Streptococci of Group A. II. An Immunogenic Group of Four Types. Alice C. Evans ......................................................................................... 399

The Use of Mice in the Testing of Antigenic Power of Tetanal Toxoid. Walter L. Koerber and Gertrude E. Mook ................................................................. 411

Studies of Antipneumococcal Serum. IV. Maximally Reactive Proportions of Antigen and Antiserum in Precipitation and Complement-Fixation. Christine E. Rice ......................................................... 427

Review: The State of the Salmonella Problem. S. Bornstein ................................................................................................. 439

Index ......................................................................................................................................................... 497