CONTENTS

NUMBER 1, JULY 1955

Hypersensitivity in Mice with Experimental Histoplasmosis. S. B. Salvin ...................... 1
Electron Microscopically Revealed Structural Elements of Bacterium tularense and Their in Vitro and in Vivo Role in Immunologic Reactions. Charles C. Shepard, Edgar Ribi and Carl Larson 7
A Study of Antigens Active in the Tannic Acid Hemagglutination Test Present in Filtrates of Culture of Mycobacterium tuberculosis. Stephen V. Boyden and Ernst Sorkin 15
A Study of Antigens Active in the Middlebrook-Dubos Hemagglutination Test Present in Filtrates of Culture of Mycobacterium tuberculosis. Ernst Sorkin and Stephen V. Boyden 22
Studies on Herpes Simplex Virus. VII. Immunological Comparison of Strains of Herpes Simplex. E. Jawetz, V. R. Coleman and E. R. Merrill 28
Prevention of Virus Interference by 2,5-Dimethylbenzimidazole. David A. J. Tyrrell and Igor Tamm 43
Purification and Some Properties of Clostridium welchii Type A Theta Toxin. Florence B. Roth and Louis Pillemer 50
Resistance of Mice with Experimental Histoplasmosis to Infection with Ricketttsia typhi. S. B. Salvin and E. J. Bell 57
Studies on the Mechanism of Inactivation of Human Complement by Plasmin and by Antigen-Antibody Aggregates. II. Demonstration of Two Distinct Reaction Stages in Complement Fixation. Irwin H. Lepow and Louis Pillemer 63
Serologic Evidence of American Experience with Newborn Pneumonitis Virus (Type Sendai). Keith E. Jensen, Elva Minuse and W. Wilbur Ackermann 71
Murray Valley Encephalitis Virus: Its Serological Relationship to the Japanese-West Nile-St. Louis Encephalitis Group of Viruses. William L. Pond, Sudie B. Russ, Nancy G. Rogers and Joseph E. Smadel 78

NUMBER 2, AUGUST 1955

An Investigation of Some of the Factors Determining the Decrease in Complement Activity in Anaphylactic Shock. Christine E. Rice 85
Immunological Properties of a Form of Non-Precipitating Diphtheria Antitoxin Which Does Not Sensitize Human Skin. Studies of Its Relation to the Inhibition Reaction. William J. Kuhns. 105
Studies on the Transfer of Lymph Node Cells. VI. Transfer of Cells Incubated in Vitro with Shigella-Treated Rabbit Serum. T. N. Harris, Susanna Harris and Miriam B. Farber 112
Antigenicity of β-Propiolactone-Inactivated Virus Vaccines. Gerald A. LoGrippo and Frank W. Hartman 123
Studies on Immunity in Anthrax. VI. Immunizing Activity of Protective Antigen against Various Strains of Bacillus anthracis. Sidney Auerbach and George G. Wright 129
Growth of Mouse Eencephalomyelitis Virus in Murine Nervous Tissue Tumors. Harold E. Pearson and Dorothy L. Lagerborg 134
Kinetic Studies of Complement Fixation. I. A Method. Abraham G. Osler and Betsy M. Hill 137
Kinetic Studies of Complement Fixation. II. The Role of the Aggregating Capacity of Antibody and Its Heterogeneity. Betsy M. Hill and Abraham G. Osler 146
Differentiation and Purification of Influenza Viruses by Adsorption on Aluminum Phosphohate. Herbert K. Miller and R. Walter Schlesinger 155
Further Studies on the Behavior of Mumps Virus in Maitland Type of Tissue Cultures. Barbara K. Watson and F. Sargent Cheever 161
Annoucement: Laboratory Refresher Training Courses 166

NUMBER 3, SEPTEMBER 1955

Inhibition of the Local Shwartzman Reaction by Dicumarol. S. Spanoudis, F. Eichbaum and G. Rosenfeld 167
CONTENTS

Vol. 75

Immunochemical Studies on Blood Groups. XVI. Quantitative Precipitin Reaction of Blood Group
B Substances with Human Anti-B Produced by Isoimmunization of Pregnancy. Sidney Lesko-
wick and Elvin A. Kabat ................................. 171

Poliovirus Antibodies in Human Gamma Globulin. Edward M. Opton, Daizo Nagaki and
Joseph L. Melnick .................................................. 178

The Growth and Cytotoxicity of Vesicular Stomatitis Virus in Tissue Culture. H. L. Bach-
rach, J. J. Callis and W. R. Hess .............................. 186

The Effect of Ficin on the Agglutination of Human Red Blood Cells. Takashi Makinodan and
Nicholas T. Maclsa ................................. 192

A Study of an Unusual Hemagglutinin in a Pooled Human Serum. Takashi Makinodan and
Nicholas T. Maclsa ........................................ 197

In Vivo Uptake of Isotope-Tagged Tuberculin by Leukocytes. Roy E. Ritts, Jr. and Cutting B.
Favour .......................................................... 209

In Vitro Production of Diphtheria Antitoxin by Tissues of Immunized Animals. I. Procedure and
Evidence for General Nature of Phenomenon. Abram B. Stavitsky ......................... 214

Susceptibility of the Pigeon (Columba livia) to Infection with Western Equine Encephalomyelitis
Virus. I. Blood Virus Levels Following Subcutaneous Inoculation. William Kaplan, John F.
Winn and Dan F. Palmer ........................................ 225

Studies on a Skin Test for Western Equine Encephalitis. Preliminary Evaluation in Man. Henry
R. Shinefield, W. Allen Longshore, Jr. and Edwin H. Lennette .............................. 227

The Slope Assay for Measurement of Lethal Potency of Meningo-Pneumonitis Virus in the Chick
Embryo. T. Timothy Crocker and Blair M. Bennett ........................................ 239

Poliovirus and Other Antibody Patterns in Natives of Tahiti and Raiatea. Dorothy M. Horst-
m ann and Lisbeth M. Kraft ........................................ 249

Number 4, October 1955

Use of Diphtheria Toxin and Toxoid in the Study of Immediate and Delayed Hypersensitivity in
Man. A. M. Pappenheimer, Jr. ........................................ 259

The Role of Serum Proteins in Gel-Precipitin Patterns of Pasteurella pestis. J. P. Ransom, S. F.
Quan, G. Omi and M. D. Hoggan ............................ 265

Studies on Organ Specificity. I. The Serological Specificity of Thyroid Extracts. Ernest Witebsky,
Noel R. Rose and Sidney Shulman ......................... 269

Studies on Organ Specificity. II. Serological Interrelationships Among Thyroid Extracts of Various
Species. Noel R. Rose and Ernest Witebsky ................. 282

Studies on Organ Specificity. III. Ultra centrifugal and Electrophoretic Examinations of Thyroid
Extracts. Sidney Shulman, Noel R. Rose and Ernest Witebsky .............................. 291

Factors Affecting the Efficiency of the Aluminum Adjuvant in Diphtheria and Tetanus Toxoids.
Leo Levine, Joseph L. Stone and Louise Wyman ................. 301

The Use of Hyperimmune Antiserum Concentrates in Experimental Western Equine Encephalo-
myelitis. Carl J. De Boer, Arthur E. Cadle and Shirley R. Walters ................. 308

The Fate in Rats of Internally and Externally Labelled Heterologous Proteins. Wallace Friedberg,
Harry Walter and Felix Haurowitz ......................... 315

The Effect of Whole Body X-Irradiation of Mice on Immunity to Tetanus Toxoid. I. The Effective-
ness of Pre- and Post-Irradiation Injections of Tetanus Toxoid with Respect to the Develop-
ment of Immunity. Myron S. Silverman and Paul H. Chin ......................... 321

Multiplicity Reactivation of Influenza Virus. H. J. F. Cairns ................................. 326

Absence of Neutralizing Antibodies Against Western Equine Encephalomyelitis in Sera of Children
with Epilepsy. Carl P. Bernet, Gerald D. La Veck and John F. Winn ......................... 330

Number 5, November 1955

Studies on the Cellular Transfer of Tuberculin Sensitivity in the Guinea Pig. M. N. Metaxas and
M. Metaxas-Buehler ........................................ 333

Immunologic Studies with Fractions of Virulent Treponema pallidum. I. Preparation of an Antigen
by Deoxycholate Extraction and Its Use in Complement Fixation. Joseph Portnoy and
Harold J. Magnuson ........................................ 348
A Comparative Study of Type 2 Poliomyelitis Viruses. I. Biologic Characters Relating to Sixteen Type 2 Strains. Herbert A. Wenner and Paul Kamitsuka ........................................ 356
Studies on Egg White and Its Constituents by Immunochemical Techniques in Gelified Media: Specific Precipitation by Double Diffusion and Immunoelectrophoretic Analysis. Marie Kaminski ................................................................................. 367
The Interaction of Meningopneumonitis Virus and Krebs 2 Carcinoma. I. Inhibition of the Tumor by the Virus—Quantitative Determination. Alan Bernstein and M. Michael Sigel ............. 377
The Interaction on Meningopneumonitis Virus and Krebs 2 Carcinoma. II. Inhibition of Virus by Tumor. M. Michael Sigel, Alan Bernstein and Lila P. Pope.................................. 386
Studies of Antibodies to Strains of Influenza Virus in Persons of Different Ages in Sera Collected in a Postepidemic Period. A. V. Hennessy, F. M. Davenport and T. Francis, Jr. ................ 401
Virus Proliferation in the Mouse. I. Growth Curves of Influenza (Mouse-Adapated PR 8) and Theiler's Mouse Encephalomyelitis (GD VII) Viruses. Seymour S. Kalter, Gerald Berg, James E. Prier, Kurt-Alphonse Jochheim and John M. McKenna. ................................. 410

Number 6, December 1955
The Metabolic Fate of Isotopically Labelled Proteins, Azoproteins and Azohaptens. Felix Haurowitz, Herbert H. Reller and Harry Walter .................................................. 417
The Reactions Between Normal Human Red Cells and Antiglobulin (Coombs) Serum. F. Stratton and Alan Richardson Jones ............................................................ 423
Suppression of Influenza Viral Pneumonia in Mice by the Non-Specific Action of Xerosin. Harold S. Ginsberg ................................................................................ 430
The Recovery of Tetanus Antitoxin from Toxin-Antitoxin Precipitates. A. E. Bolyn and M. Moskowitz ................................................................................. 441
Separation of Tetanus Antitoxin Dissociated from a Toxin-Antitoxin Precipitate. A. E. Bolyn and M. Moskowitz ................................................................................. 450
Experimental Allergic Encephalomyelitis after the Excision of the Injection Site of Antigen-Adjuvant Emulsion. Jules Freund and Murray M. Lipton ..................... 454
Interpretation of the Ouchterlony Precipitin Test. M. W. Wilson and B. H. Pringle ............ 460
The Hemagglutinins of Semliki Forest and Bunyamwera Viruses, Their Demonstration and Use. D. H. Clarke and M. Theiler ............................................................... 470
Cytopathogenic Effects of Antiserum to Human Malignant Epithelial Cells (Strain HeLa) on HeLa Cell Culture. Isabel Morgan Mountain ................................. 478