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 with Rickettsia 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, Studie 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 Encephalomyelitis 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 Phosphate. 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

Announcement: 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

iii
Immunochemical Studies on Blood Groups. XVI. Quantitative Precipitin Reaction of Blood Group B Substances with Human Anti-B Produced by Isoimmunization of Pregnancy. Sidney Leskowitwitz and Elvin A. Kabat ................................................................. 171
Poliovirus Antibodies in Human Gamma Globulin. Edward M. Opton, Daizo Nagaki and Joseph L. Melnick ........................................................................................................... 178
The Effect of Ficin on the Hemagglutination of Human Red Blood Cells. Takashi Makinodan and Nicholas T. Macris ........................................................................ 192
A Study of an Unusual Hemagglutinin in a Pooled Human Serum. Takashi Makinodan and Nicholas T. Macris ........................................................................ 197
Antibody Production by Thymus and Peyer's Patches. Intraocular Transplants. Richard D. Stoner and William M. Hale ......................................................................................... 203
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
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. Horstmann 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. Ultracentrifugal 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 Encephalomyelitis. Carl J. De Boer, Arthur E. Cadilek 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 Effectiveness of Pre- and Post-Irradiation Injections of Tetanus Toxoid with Respect to the Development 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-Buchler ...................................................................................................... 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 of Meningopneumonitis Virus and Krebs 2 Carcinoma. II. Inhibition of Virus by Tumor. M. Michael Sigel, Alan Bernstein and Lila P. Pope ........................................... 386

An Evaluation of the Roller-Tube Tissue Culture for the Isolation of Poliomyelitis Viruses from Feces. Sidney Kibirick, John F. Enders and Frederick C. Robbins .............................. 391

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 Jocheim and John M. McKenna ........................................ 410

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