CONTENTS

NUMBER 1, JANUARY 1955

The Immunologist and the Evil Spirits. Thomas P. Magill .......................................................... 1
Studies on Antibacterial Factors in Mammalian Tissues and Fluids. I. A Serum Bactericidin for Bacillus subtilis. Quentin N. Myrvik and Russell S. Weiser .................................................... 9
Studies on the Mechanism of the Immunological Paralysis Induced in Mice by Pneumococcal Polysaccharides. Lloyd D. Felton, Gladys Kaufmann, Benjamin Prescott and Barbara Ottinger. .... 17
The Effects of PABA Derivatives on the Multiplication of Typhus Rickettsiae. Donald Greiff, Hugh B. Donahoe, Masahiro Chiga and Henry Pinkerton ........................................ 32
Adaptation of Influenza Virus to Mice. II. Changes in the Growth Curve of an A Prime Strain of Influenza Virus. B. A. Briody and William A. Cassel .................................................. 37
Adaptation of Influenza Virus to Mice. III. Development of Resistance to β-Inhibitor. B. A. Briody, William A. Cassel and Mary A. Medill ............................................................. 41
Tissue Tropism of a Strain of Influenza A Virus in Ferrets. John Y. Sugg and Daizo Nagaki ........ 46
Quantitative Complement Fixation in Syphilis as a Statistically Controlled Assay. Otto G. Bier, M. Siqueira and R. S. Furlanetto .......................................................... 51
The Influence of Cortisone on Experimental Viral Infection. I. Prolongation of Survival Time and Suppression of Inflammation in Chick Embryos Infected with Influenza B Virus. Edwin D. Kilbourne ........................................................................................................ 57
Strain-Specificity in Tissue Antigens of Mice. Frank L. Adler ........................................................ 63
The Isolation and Characterization of Heat-Resistant Mutants of the Najarlan Strain of NDV. Elise Cahn Goldman and Robert P. Hanson ......................................................... 101
Inactivation of Tobacco Mosaic Virus by Rabbit Antiserum. Irving Rappaport and Albert Siegel. 106
Development of Immunity in Mice after Vaccination with Inactivated Poliomyelitis Virus. Ulrich Kriech ...................................................................................................................... 117
Studies on Pneumococcal Polysaccharide. II. Mechanism Involved in Production of “Immunological Paralysis” by Type I Pneumococcal Polysaccharide. Orton K. Stark .................. 130
The Influence of X-Irradiation on the Passive Transfer of Tuberculin Hypersensitivity in the Guinea Pig. Martin M. Cummings, Paul C. Hudgens, Robert A. Patnode and Solomon R. Bersack ........................................................................................................ 142
Studies of Rickettsial Toxins. II. Altered Vascular Physiology in Rickettsial Toxemia of Mice. L. W. Wattenberg, B. L. Elisberg, C. L. Wisseman, Jr. and J. E. Smadel ......................... 147
Immunoelectrophoretic Studies on Serum Proteins. I. The Antigens of Human Serum. Curtis A. Williams, Jr. and Pierre Grabar .......................................................... 158
The Viral Range in Vitro of a Malignant Human Epithelial Cell (Strain HeLa, Gey). IV. The Cytopathogenicity of C Viruses. Richard L. Crowell and Jerome T. Syvertson ................. 169

NUMBER 2, FEBRUARY 1955

Antigenic Studies of Virus- and Trypsin-Treated Erythrocytes. John H. Wallace, Matt C. Dodd and Claude-Starr Wright ........................................................................................................ 89
Passive Cellular Transfer of Hypersensitivity to Serum Antigens in Rabbits. Mary M. Tremaine and W. S. Jeter ........................................................................................................... 96
The Isolation and Characterization of Heat-Resistant Mutants of the Najarlan Strain of NDV. Elise Cahn Goldman and Robert P. Hanson ......................................................... 101
Inactivation of Tobacco Mosaic Virus by Rabbit Antiserum. Irving Rappaport and Albert Siegel. 106
Development of Immunity in Mice after Vaccination with Inactivated Poliomyelitis Virus. Ulrich Kriech ...................................................................................................................... 117
Studies on Pneumococcal Polysaccharide. II. Mechanism Involved in Production of “Immunological Paralysis” by Type I Pneumococcal Polysaccharide. Orton K. Stark .................. 130
The Influence of X-Irradiation on the Passive Transfer of Tuberculin Hypersensitivity in the Guinea Pig. Martin M. Cummings, Paul C. Hudgens, Robert A. Patnode and Solomon R. Bersack ........................................................................................................ 142
Studies of Rickettsial Toxins. II. Altered Vascular Physiology in Rickettsial Toxemia of Mice. L. W. Wattenberg, B. L. Elisberg, C. L. Wisseman, Jr. and J. E. Smadel ......................... 147
Immunoelectrophoretic Studies on Serum Proteins. I. The Antigens of Human Serum. Curtis A. Williams, Jr. and Pierre Grabar .......................................................... 158
The Viral Range in Vitro of a Malignant Human Epithelial Cell (Strain HeLa, Gey). IV. The Cytopathogenicity of C Viruses. Richard L. Crowell and Jerome T. Syvertson ................. 169
NUMBER 3, MARCH 1955


Immunologic Activity of Pneumococcal Polysaccharide Fixed in the Tissues of the Mouse. Frank J. Dixon, Paul H. Maurer and William O. Weigle .................................................. 188


Quantitative Studies in Hemagglutination. II. Effect of Certain Variables Upon the Isohemagglutinin Assay. M. H. Wilkie and E. L. Becker ..................................................... 199

Pneumococcal Antigenic Polysaccharide Substances from Animal Tissues. Lloyd D. Felton, Benjamin Prescott, Gladys Kauffmann and Barbara Ottinger ........................................ 205

Resistance to Reinfecion in Experimental Histoplasmosis. S. B. Salvin ........................................... 214

An Agglutination Test for Bovine Q Fever Performed on Milk Samples. Lauri Luoto and Donald M. Mason .................................................................................. 222

Genetic Control of Serological Specificity in Bacteriophage. Andrew R. Fodor and Mark H. Adams .......................................................................................... 228


Comparative Effects of Infection and of Immunization on Serum Glycoprotein Concentrations. Henry E. Weimer, Jean Redlich-Moshin and Eric L. Nelson ......................... 243

Modification of the Neurotoxic Effect of Influenza Virus in Mice by Xerosin. Vincent Groupé and Ernest C. Herrmann, Jr. ......................................................... 249

NUMBER 4, APRIL 1955

Donald Thomas Fraser (1888-1954) .................................................................................................. 255

Effects of Antisera on Tyrosinase in Glomerella Extracts. Ray D. Owen and Clement L. Markert ... 257

Antibody Production by Spleen in Vitro. I. Influence of Cortisone and Other Chemicals. Isabel Morgan Mountain .......................................................... 270

Antibody Production by Spleen in Vitro. II. Correlation of Weight of Rabbit, Weight of Spleen, and Level of Antibody Produced in Vitro. Isabel Morgan Mountain .................................................. 278

Effect of Oxytetracycline (Terramycin) on Agglutinin Titers in Guinea Pigs with Experimental Brucellosis. Charles M. Carpenter, Eric L. Nelson, Sidney J. Klein, Bruce E. Rawlings, Ruth A. Boak and Henry E. Weimer ......................................................... 281

An Immunogenic Antigen of Low Toxicity Derived from Shigella sonnei. Richard B. Johnson .................. 286

New Tissue Culture Systems for Influenza, Newcastle Disease and Vaccinia Viruses. David A. J. Tyrrell .................................................................................................. 293

Micromethods for the Study of Proteins and Antibodies. III. Procedure and Applications of Hemagglutination and Hemagglutination-Inhibition Reactions with Bis-Diazotized Benzidine and Protein-Conjugated Red Blood Cells. Abram B. Stavitsky and Edward R. Arquilla ..... 306

The Preparation and Properties of Fractions of Pig Complement. II. Myron A. Leon, Otto J. Plescia and Michael Heidelberger ................................................................. 313

Studies on the Transfer of Lymph Node Cells. V. Transfer of Cells Incubated in Vitro with Suspensions of Shigella paradysenteriae. Susanna Harris and T. N. Harris ........................................................................ 318

NUMBER 5, MAY 1955

Distribution of “Blocking” Antibody in Human Serum Proteins Fractionated by Electrophoresis-Convection. Mary Hewitt Loveless and John R. Cann ........................................ 329


Studies of Bacterium tularens Antigens. I. The Isolation, Purification, and Biologic Activity of Antigen Preparations from Bacterium tularens. Richard A. Ormsbee, J. Frederick Bell and Carl L. Larson .................................................................................................. 351

Studies on Bacterium tularens Antigens. II. Chemical and Physical Characteristics of Protective Antigen Preparations. Richard A. Ormsbee and Carl L. Larson .................................................. 359

Studies with Influenza Virus B of Recent Human Origin. I. Adaptation to the Mouse Lung. Nada Ledinko and Beverley Perry ......................................................... 371
Studies with Influenza Virus B of Recent Human Origin. II. Genetic Interaction with Mil Strain
of Influenza B Virus. Nada Ledinko ....................................................... 380

Fall in Rectal Temperature as an Indication of Anaphylactic Shock in the Mouse. Leon S. Kind. 387

Number 6, June 1955

The Interaction of Serum with Erythrocytes Modified by Newcastle Disease Virus. Alfred S.
Evans ................................................................. 391

Immunoelectrophoretic Studies on Serum Proteins. II. Immune Sera: Antibody Distribution.
Curtis A. Williams, Jr. and Pierre Grabar ................................................ 397

Immunoelectrophoretic Studies on Serum Proteins. III. Human Gamma Globulin. Curtis
A. Williams, Jr. and Pierre Grabar ..................................................... 404

The Interaction of Bwamba Virus with Homologous Immune Serum. Francis L. Black and
Delphine H. Clarke ............................................................. 411

Specificity of the Secondary Response to Protein Antigens. Frank J. Dixon and Paul H. Maurer. 418

Blood Group Factors in the Rabbit. Carl Cohen ........................................ 432

Influenza Virus Infection of Transplanted Tumors. II. The Relation of Host Immunity to Virus
Action. Robert R. Wagner ......................................................... 439

Influenza Virus Infection of Transplanted Tumors. III. Effect of Passive Immunization on Infec-
tions of the Ehrlich Ascites Tumor. Robert R. Wagner ................................ 446

Studies on the O Antigen of Salmonella typhosa. I. Purification of the Antigen. Marion E. Webster,
Jerome F. Sagin, Maurice Landy and Arthur G. Johnson ............................ 455

Studies on the O Antigen of Salmonella typhosa. II. Immunological Properties of the Purified Anti-
gen. Maurice Landy, Arthur G. Johnson, Marion E. Webster and Jerome F. Sagin .... 466

Effect of Estrogen and Cortisone on Immune Hemosantibodies in Mice of Inbred Strains. Kurt
Stern and Israel Davidsohn .......................................................... 479

Incidence of Antibodies to Salmonellae among the Population of the Bronx, N. Y. A. J. Weil and
Ivan Saphra ................................................................. 485

Antibodies to Shigellae in Normal Human Sera. Demonstration of Components of the Group Antigen
of Shigella flexneri as the Antigens Involved. A. J. Weil and J. Felsen .............. 488

Role of Host Defenses in Systemic Klebsiella pneumoniae Infection: Effect of Antibiotics in Normal
and X-Irradiated Mice. Stanley Marcus, David M. Donaldson and Don W. Esplin .... 494

Mechanical Apparatus for Washing Tissue Cultures in Tubes. M. R. Hilleman and R. O. Taylor.... 498

Studies on Immunization Against Plague. X. Specific Precipitation of Pasteurella pestis Antigens
and Antibodies in Gels. T. H. Chen and K. F. Meyer ............................... 501