

CONTENTS

NUMBER 1, JULY, 1952

Studies on the Purification of Diphtherial Toxin. Irwin H. Lepow and Louis Pillemer..	1
Quantitative Studies on the Antigen-Antibody Reaction by the Monolayer Technique.	
I. Number and Distribution of Haptenic Groups in Antigens and Thickness of Adsorbed Antibody Layer. Tomio Ogata, Taro Tachibana, Kan Suzuki, Kiyoshige Fukuda, and Seizaburo Yamaoka.....	13
The Hemagglutination Test for Rheumatoid Arthritis. I. An Immunological Analysis of the Factors Involved in the Reaction. George Heller, Abraham S. Jacobson, Maxwell H. Kolodny, and Roslyn L. Schuman.....	27
The Effect of Ultraviolet Irradiation on the Reactivity of Antibody. I. Some Observations on the Quantitative Precipitin Reaction and Passive Anaphylaxis. Robert Hanan.....	41
The Influence of Adrenal Cortical Extract on Immunological Phenomena <i>in vivo</i> . I. Antigen-Antibody Reactions as Indicated by Hypocomplementemia, Granulocytopenia and Reduction of Circulating Antibody. A. B. Stavitsky.....	63
Studies on the Chemical Inhibition of T2r+ Bacteriophage. Anne R. Bourke, Mary Louise Robbins, and Paul K. Smith	75
Endotoxin in Pathogenic Fungi. S. B. Salvin.....	89
Suppression of the Shwartzman Phenomenon by Adrenocorticotrophic Hormone and Cortisone: Quantitative Aspects. Stanley Marcus and David M. Donaldson.....	101
Immunological Studies of Egg White Proteins. II. Resolution of the Quantitative Precipitin Reaction between Chicken Egg White and Rabbit Anti Egg-White Serum in Terms of the Reactions of Purified Egg White Proteins. L. R. Wetter, M. Cohn, and H. F. Deutsch.....	109

NUMBER 2, AUGUST, 1952

The Antigen-Antibody Reaction. I. The Influence of Sodium Chloride Concentration on the Quantitative Precipitin Reaction. Frederick Aladjem and Miriam Lieberman	117
The Antigen-Antibody Reaction. II. Sodium Uptake by the Antigen-Antibody Precipitate. Miriam Lieberman and Frederick Aladjem.....	131
Studies on Vi Antigen. II. Purification of Vi Antigen from <i>Escherichia coli</i> 5396/38. Marion E. Webster, Maurice Landy, and Monroe E. Freeman.....	135
Studies on Vi Antigen. III. Immunological Properties of Purified Vi Antigen Derived from <i>Escherichia coli</i> 5396/38. Maurice Landy and Marion E. Webster	143
Quantitative Aspects of Influenza Virus Multiplication.	
I. Production of "Incomplete" Virus. H. J. F. Cairns and Margaret Edney	155
II. Heterologous Interference. S. Fazekas de St. Groth and Margaret Edney.....	160
III. Average Liberation Time. H. J. F. Cairns.....	168
IV. Definition of Constants and General Discussion. S. Fazekas de St. Groth and H. J. F. Cairns	173
Electron Microscopic Counting of Elementary Bodies of the Virus of Meningo-Pneumonitis. H. Timothy Crocker and Blair M. Bennett.....	183
Hemolysis with Complement of Intact Azo-Erythrocytes Sensitized with Antisera Homologous to the Attached Azo-Grouping. Arthur M. Silverstein and Frank Maltaner.....	197
Influence of Preservatives, of Heat, and of Irradiation on Mouse Protective Activity and Detoxification of Pertussis Vaccine. Margaret Pittman.....	201
The Effect of ACTH and Cortisone on the Quantitative Precipitin Reaction. Saul Malkiel and Betty Jean Hargis.....	217
Neutralizing Antibodies against Certain Recently Isolated Viruses in the Sera of Human Beings Residing in East Africa. K. C. Smithburn.....	223
Serologic and Dermal Reactions in Guinea Pigs Injected Intradermally with <i>Brucella</i> Antigens. Charles M. Carpenter, Ruth A. Boak, and Carl J. DeBoer.....	235

NUMBER 3, SEPTEMBER, 1952

Amboceptor Titration as a Statistically Controlled Assay. O. G. Bier, M. Siqueira and R. S. Furlanetto.....	241
Interaction of Protein Antigens and Antibodies.	
I. Inhibition Studies with the Egg Albumin-Anti-Egg Albumin System. W. J. Kleinschmidt and P. D. Boyer.....	247
II. Dissociation Studies with Egg Albumin-Anti-Egg Albumin Precipitates. W. J. Kleinschmidt and P. D. Boyer.....	257
III. Dissociation Studies with Diphtheria Toxoid-Antitoxin Precipitates. E. W. Turner and P. D. Boyer.....	265
The Effect of Environmental Temperature on the Immune Response of Mice to Tetanus Toxoid. Johannes Ipsen, Jr.....	273
Effect of Multiple Injections of Antigen upon the Specificity of Antisera. Charles A. Leone.....	285
Immunochemical Studies on the Specific Polysaccharide of Type II Pneumococcus. Sam B. Beiser, Elvin A. Kabat, and Joseph M. Schor.....	297
An Immunologic Study of the Iron-Binding Protein. B. V. Jager and C. J. Gubler.....	311
Anti-A Haemagglutinins in Seeds. G. W. G. Bird.....	319
Effect of Glucose on the Growth of Influenza Virus in Deembryonated Eggs and Tissue Cultures. Joan B. Daniels, Monroe D. Eaton, and Maude E. Perry.....	321
The Influence of Cortisone on the Passive Transfer of Tuberculin Hypersensitivity in the Guinea Pig. Martin M. Cummings and Paul C. Hudgins.....	331
Experimental Studies on Trichomoniasis. II. Immunity to Reinfection in <i>T. vaginalis</i> Infections of Mice. D. Richards Kelly and R. J. Schnitzer.....	337
Comparison of the Antigenic Patterns of Influenza A Virus Strains Determined by <i>in ovo</i> Neutralization and Hemagglutination-Inhibition. Maurice R. Hilleman and Frank L. Horsfall, Jr.....	343
Use of Antigen-Antibody Reactions in Agar to Follow the Progress of Fractionation of Antigenic Mixtures: Application to Purification of Staphylococcal Enterotoxin. M. J. Surgalla, M. S. Bergdoll, and G. M. Dack.....	357
A Method for Removing Complement <i>in vivo</i> and Its Rate of Return. Gerard Seltzer, Samuel Baron, and Joseph Fusco.....	367

NUMBER 4, OCTOBER, 1952

Properties of Scarlet Fever Toxin of the NY5 Strain. Aaron H. Stock and Ethel Verney.....	373
Experiments with Teschen Disease (Virus Encephalomyelitis of Swine). Dorothy M. Horstmann.....	379
Identification of Coxsackie Viruses by Immunological Methods and Their Classification into 16 Antigenically Distinct Types. Guillermo Contreras, Vohammie H. Barnett, and Joseph L. Melnick.....	395
Studies on Reactions of Incomplete Rh Antibodies with Enzyme Treated Rh Positive Red Cells. Helen Zwicker, Lucille Giordano, and Robert E. Hoyt.....	415
Precipitin Production in Chickens. VIII. A Comparison of the Effect of Salt Concentration on Precipitate Formation of Pheasant, Owl, and Chicken Antisera. Morris Goodman and Harold R. Wolfe.....	423
A Cysteine-Activated Proteinase of <i>Clostridium histolyticum</i> . Irwin H. Lepow, Sidney Katz, Jack Pensky, and Louis Pilheimer.....	435
The Influence of Chemicals on the Propagation of Poliomyelitis Virus in Tissue Culture. Gordon C. Brown.....	441
The Role of Heat-Stable Antigen in Serological Identification of Proteolytic Clostridia. James W. Mandia.....	451
Deposition of Small Doses of Injected Antigen in Rabbits. Charles F. Crampton and Felix Hauroowitz.....	457
Toxicity of NDV for Mouse Lungs. Fred M. Davenport.....	461

NUMBER 5, NOVEMBER, 1952

Immunochemical Studies with Beta-Galactosidase and Structurally Related Proteins of <i>Escherichia coli</i> . Melvin Cohn and Anna Marie Torriani.....	471
California Encephalitis Virus, a Newly Described Agent.	
II. Isolations and Attempts to Identify and Characterize the Agent. William McD. Hammon, William C. Reeves, and Gladys Sather.....	493
III. Mosquito Infection and Transmission. William C. Reeves and, William McD. Hammon.....	511
Studies on the Immunization of White Mice against Infections with <i>Bacterium tularensis</i> .	
J. Frederick Bell, Carl L. Larson, W. C. Wicht and Sara S. Ritter.....	515
Immunochemical Studies on Tobacco Mosaic Virus.	
VII. The Quantitative Precipitin Reaction with Equine Antiserum. Saul Mal- kiel.....	525
VIII. The Specificity of Chemically-Altered Virus. Saul Malkiel.....	533
Stability of Sensitizing and Blocking Antibodies in Allergic Serum following Ultra- violet Irradiation. Mary Hewitt Loveless.....	539
Purification Studies on Lansing Poliomyelitis Virus: pH Stability, CNS Extraction and Butanol Purification Experiments. H. L. Bachrach and C. E. Schwerdt.....	551
A Procedure Which Eliminates Nonspecific Inhibitor from Human Serum but Does Not Affect Specific Antibodies against Influenza Viruses. David A. J. Tyrrell and Frank L. Horsfall, Jr.....	563
Four New Provisional Serotypes of Shigella. W. H. Ewing and M. C. Huks.....	575

NUMBER 6, DECEMBER, 1952

Uptake of Labeled Antigens by the Mitochondria of Mouse Liver. Max Fields and Raymond L. Libby.....	581
Studies on Immunization against Plague. IV. The Method of the Hemagglutination Test and Some Observations on the Antigen. T. H. Chen.....	587
Involvement of a Complement-like Factor in the Activation of Blood Protease. Wal- ton B. Geiger.....	597
Electrophoretic Studies on Hyperimmune Rabbit Sera for Neurotropic Viruses. Carl J. DeBoer, James van der Scheer, Gilbert Richmond, Edna Hazz, and Herald R. Cox.....	605
The Role of Tubercle Bacilli in Adjuvant Emulsions on Antibody Production to Egg Albumin. Edward E. Fischel, Elvin A. Kabat, Herbert C. Stoerk, and Ada E. Bezer.....	611
Inhibition of the Shwartzman Reaction by Pyrogenic Substances. Ivan L. Bennett, Jr., and Leighton E. Cluff.....	619
The Quantitative Determination of the Extent of Despeciation of Modified Equine Antitoxin. Leo Levine, Louise Wyman, Bei-Loo Chen, and Julia Murphy.....	627
General Preface to Studies on the Cultivation of Poliomyelitis Viruses in Tissue Cul- ture. John F. Enders.....	639
Studies on the Cultivation of Poliomyelitis Viruses in Tissue Culture.	
I. The Propagation of Poliomyelitis Viruses in Suspended Cell Cultures of Vari- ous Human Tissues. Thomas H. Weller, John F. Enders, Frederick C. Robbins, and Marguerite B. Stoddard.....	645
II. The Propagation of the Poliomyelitis Viruses in Roller-tube Cultures of Vari- ous Human Tissues. Frederick C. Robbins, Thomas H. Weller, and John F. Enders.....	673