This information is current as of September 25, 2017.

**Subscription**  
Information about subscribing to *The Journal of Immunology* is online at:  
http://jimmunol.org/subscription

**Permissions**  
Submit copyright permission requests at:  
http://www.aai.org/About/Publications/JI/copyright.html

**Email Alerts**  
Receive free email-alerts when new articles cite this article. Sign up at:  
http://jimmunol.org/alerts

*The Journal of Immunology* is published twice each month by  
The American Association of Immunologists, Inc.,  
1451 Rockville Pike, Suite 650, Rockville, MD 20852  
All rights reserved.  
Print ISSN: 0022-1767 Online ISSN: 1550-6606.
CONTENTS

NUMBER 1, JANUARY, 1951

The Failure of Hyaluronidase to Influence Growth of PR8 Virus in Chick Embryos. Lyle B. Fastier .......................................................... 1

The Influenza Virus Receptor and Blood Group Antigens of Human Erythrocyte Stromata. Calderon Howe ............................................. 9


Studies on the Use of Enzyme-Treated Red Cells in Tests for Rh Sensitization. Alexander S. Wiener and Lillian Katz ................................. 51

A Study of the Reaction Between Human Serum Albumin and Its Homologous Equine Antibody Through the Medium of Light Scattering. David Gitlin and Harold Edelhoch ......................................................... 67

The Light-Scattering Properties of an Antigen-Antibody Reaction. Richard J. Goldberg and Dan H. Campbell ........................................ 79

The Inhibition of GDVII Virus Haemagglutination by Normal Tissue Extracts. Lyle B. Fastier ................................................................. 87


Mixed Infection with Bacterial Virus T5 and Its Heat Stable Mutant. Mark H. Adams ................................................................. 131

NUMBER 2, FEBRUARY, 1951

Fractionation of Rh Antiserum by Electrophoresis-Convection. John R. Cann, Raymond A. Brown, D. Carleton Gajdusek, John G. Kirkwood and Phillip Sturgeon .......................... 137

Antigenic Potency in Man of the Specific Polysaccharides of Types I and V Pneumococcus and their Products of Alkaline Degradation. Michael Heidelberger, Colin M. MacLeod and Marie M. DiLapi .............................................. 145

Nontoxic Influenza Virus. Albert P. McKee ............................................... 151

The Egg-White Inhibitor of Influenza Virus Hemagglutination. IV. Production of Modified (Weak) Inhibitor by Influenza Viruses: An Interpretation of Virus-Induced Changes in the Character of the Inhibition Curve. Frank Lanni, Yvonne Théry Lanni and J. W. Beard ........................................ 169


The Egg-White Inhibitor of Influenza Virus Hemagglutination. VII. Inhibitor Gradient for Influenza Viruses. Yvonne Théry Lanni, Frank Lanni and J. W. Beard ............................... 213

Precipitin Production in Chickens. VI. The Effect of Varying Concentrations of NaCl on Precipitate Formation. Morris Goodman, Harold R. Wolfe and stata Norton ........................................ 225

Chemical Inhibition of the Growth of the Virus of Influenza in Embryonated Eggs. A. F. Rasmussen, Jr. and Julia C. Stokes ..................................... 237

Studies on Thermostable Antigens Extracted from Bacterium tularense and from Tissues of Animals Dead of Tularemia. Carl L. Larson .............................................................................. 249

Mazzini Cardiolipin Microflocculation Test for Syphilis. L. Y. Mazzini ......................................................... 261

Immunologic Comparison of Different Laboratory Lines of the Lansing Strain of Poliomyelitis Virus. Byron L. Bennett and Jonas E. Salk ......................................................... 277
Evidence for Dissociation of Titer of Infectious and Antigenic Activity in a Preparation of the Lansing Strain of Poliomyelitis Virus. Jonas E. Salk and Byron L. Bennett ................................................................. 283

Origin of Naturally Occurring Hemagglutinins and Hemolysins: A Review. Alexander S. Wiener .................................................................. 287

NUMBER 3, MARCH, 1951

Specificity of Radio-Iodinated (I\textsuperscript{131}) Immune Globulin as Determined by Quantitative Precipitin Reactions. S. P. Masouredis, L. R. Melcher and D. C. Koblick ............... 297

The Influence of Polymorphonuclear Leukocytes and Macrophages on Antibody Production. Theodore E. Walsh and Catherine A. Smith ................................................................. 303

Antitoxin Response to Repeated (Daily) Doses of Diphtheria Toxoid. E. Carlinfanti. 311

The Antibody Response to Mumps Vaccine as Evaluated by the Complement Fixation and Serum-Virus Neutralization tests. Anson Hoyt, Thomas M. Eby, Peryl Ashton and M. V. Veldee ......................................................................... 317

The Production of Potent Anti-Human Globulin (Coombs Reagent) in Rabbits Immunized with Serum Adjuvant Mixtures. Charles P. Emerson, William Franklin and Francis C. Lowell ................................................................. 323


Mouse Encephalomyelitis. Immunologic Studies of a Non-Infected Colony. Donald J. Dean ........................................................................ 347

Evidence of Resistance to Tumor Graft in Early Stages of Induced Oncolysis. Paul Myron Aptekman and Margaret Reed Lewis ................................................................. 361

Factors Involved in Haemagglutination by the GDVII Strain of Murine Encephalomyelitis Virus. Lyle B. Fastier ........................................................................ 365

The Influence of ACTH and Cortisone on Histamine and Anaphylactic Shock in the Guinea Pig. Saul Malkiel ........................................................................ 379


Agglutinating Antibodies in Serum and Feces. William L. Barksdale and Akira Ghoda ........................................................................ 395

Book Review: The Nature of the Bacterial Surface. A. M. Pappenheimer, Jr ............... 403

NUMBER 4, APRIL, 1951

The Effect of FA and Lansing Viruses on the Cholinesterase Activity of Brain and Spinal Cord Homogenates. J. Maxwell Little and Robert B. Lawson ................................................................. 405


Tuberculin Type Sensitivity to Spinal Cord Antigen in Rabbits with Isoallergic Encephalomyelitis. Byron H. Waksman and L. Raymond Morrison ................................................................. 421

Experimental Determination of the Hypersensitive Diathesis in Man. William P. Creger, Sun Hak Choy and Lowell A. Rantz ........................................................................ 445

Experimental Hypersensitivity in the Rabbit. Disappearance Rates of Native and Labelled Heterologous Proteins from the Serum after Intravenous Injection. David Gitlin, Harrison Latta, William H. Batchelor and Charles A. Janeway ................................................................. 451


Mixed Infection of a Bacterium with Coli-Dysentery Phage T5 and a Serologically Related Salmonella Phage. Mark H. Adams ........................................................................ 477

Book Review: The Production of Antibodies. Felix Haurowitz ................................................................. 485

NUMBER 5, MAY, 1951

The Serological Identification of Cultures of *Clostridium sporogenes*. James W. Mandia and D. W. Bruner .......................... 497

A Hemolysis Inhibition Test for the Detection of Antibodies to Newcastle Disease Virus. M. Jeanne Kahnke ........................................... 507

Field Trial of *Shigella flexneri* III Vaccine. VI. Mouse Protective Studies. L. A. Barnes, Merlin L. Cooper, E. A. Jerome, R. C. Durant and A. B. Smith .......................... 515

Effect of X Rays upon Hemolysin Production in the Rat. Henry I. Kohn ............................................. 525


Studies on the Prevention of Mumps. II. The Effect of Skin Testing upon Antibody Level and Resistance. Gertrude Henle, Jane S. Burgoon, Winslow J. Bashe, Jr., Carrol F. Burgoon, Joseph Stokes, Jr. and Werner Henle .................... 551

Studies on the Prevention of Mumps. III. The Effect of Subcutaneous Injection of Inactivated Mumps Virus Vaccines. Gertrude Henle, Winslow J. Bashe, Jr., Jane S. Burgoon, Carrol F. Burgoon, George R. Hunt, Jr. and Werner Henle ................................................................. 561


Experimental Human Salmonellosis. II. Immunity Studies Following Experimental Illness with *Salmonella meleagridis* and *Salmonella anatum*. Norman B. McCulloch and C. Wesley Eisele ................................................................. 595

The Nature of the Combining Sites of Antibodies. The Specific Protection of the Combining Site by Hapten During Iodination. David Pressman and L. A. Sternberger .......................... 609

The Effects of Cortisone and ACTH on Toxins of Rickettsiae and *Salmonella typhosa*. Elizabeth B. Jackson and Joseph E. Smadel ................................................................. 621

Studies on the Fractionation of *Hemophilus Pertussis* Extracts. Robert B. Pennell and Elizabeth H. Thiele ................................................................. 627

Experimental Hypersensitivity in the Rabbit. Blood and Tissue Concentrations of Foreign Proteins Labeled with Radioactive Iodine and Injected Intravenously. Harrison Latta ................................................................. 635

Improved Methods for Determining Antistreptolysin S. John J. Robinson .......................... 653

The Nonantigenicity of Streptolysin S. John J. Robinson ................................................................. 661


The Effect of Environmental Temperature on the Reaction of Mice to Tetanus Toxin. Johannes Ipson, Jr. ................................................................. 687


The Tuberculin Reaction in Relation to the Local Reaction to BCG Vaccine in Initially Vaccinated and in Previously Vaccinated Persons. Joseph D. Aronson and Marie McGettigan ................................................................. 715

A Mathematical Theory of Immune Hemolysis. Robert A. Alberty and Robert L. Baldwin .................. 725

Statistical Methods in Immunology. H. C. Batson ................................................................. 737