CONTENTS

NUMBER 1, JANUARY 1961

A Biologic Comparison of Two Strains of Herpesvirus hominis. T. F. McN. Scott, D. L. McLeod and T. Tokunaru ................................................................................................................................. 1

Mortality Patterns and Antibody Response in Chicks Inoculated with Eastern Equine Encephalomyelitis Virus. Robert J. Byrne and Mary Louise Robbins ........................................... 13

Precipitins against Pasteurella pestis in Normal and Antibacterial Sera. Daniel M. Eisler and Eleanor von Metz .......................................................................................... 17

Dissociation of Infective Poliomyelitis Virus from Neutralizing Antibody by Fluorocarbon. Albert Ketler, Yorio Hinuma and Klaus Hummeler .................................................. 22

Immunization of Mice with Viable Coccidioides immitis. D. Pappagianis, H. B. Levine, C. E. Smith, R. J. Berman and G. S. Kobayashi ................................................................. 28

Specific Anion Effects with Antibenzoate Antibody. David Pressman, Alfred Nisonoff and Gerald Radzimski ........................................................................................................ 35

Studies on Hemagglutination with Herpes Simplex Virus. II. The Factors Involved in the Technique. Frances G. Felton and L. Vernon Scott ............................................................. 42

Changes in Immunity and Antitoxin Level Immediately after Secondary Stimulus with Tetanus Toxid in Rabbits. Johannes Ipaen ..................................................................... 50


Antigenic Relationships between Polymorphic and Monomorphic Strains of the Brucel Group Trypanosomes. R. S. Desowitz ..................................................................................... 69

The Effect of Zymosan on the Phagocytosis of Foreign Erythrocytes. John L. Cutler ............................................................................................................................... 73

In Vivo Detection of Ferritin in the Normal Guinea Pig by Passive Cutaneous Anaphylaxis. Zoltan Ovary and Aaron Janoff .................................................................................. 79

Fractionation of the Antigens from Dwarf Ragweed Pollen. A. R. Goldfarb and O. H. Callaghan ......................................................................................................................... 83

Studies on the Mechanism of Action of Emulsified Vaccines. Robert W. McKinney and Fred M. Davenport ........................................................................................................... 91

Antibody Synthesis in Relation to Levels of Humoral and Cell-fixed Antibodies in Rabbits. Ernest Sorkin, Joan M. Rhodes and Stephen V. Botden .................................................................. 101

NUMBER 2, FEBRUARY 1961

Transplantation of Antibody-Forming Cells in Lethally Irradiated Mice. N. Gengosian, T. Makinodan and I. C. Shekarchy ................................................................................................... 113

Species-Specific Antigens from the Cell Walls of the Agents of Meningopneumonitis and Feline Pneumonitis. Howard M. Jenkins, Martin R. Ross and James W. Moulder ....................................................................................... 123

Studies on Pulmonary Alveolar Macrophages from the Normal Rabbit: A Technique to Procure Them in a High State of Purity. Quentin N. Myrvik, Eva Soto Leake and Bruce Fairiss ....................................................................................................................... 128

Lysozyme Content of Alveolar and Peritoneal Macrophages from the Rabbit. Quentin N. Myrvik, Eva Soto Leake and Bruce Fairiss ......................................................................................... 133


Studies on the Immunologic Mechanism of Anaphylaxis. II. Sensitizing and Combining Capacity in Vivo of Fractions Separated from Papain Digests of Antihapten Antibody. Zoltan Ovary and Fred Karush ..................................................................................................................... 146


Immunologic Properties of Weak Histocompatibility Genes. Charles F. McKhann and James H. Berrian .................................................................................................................. 170

Isologous and Homologous Lymphoid Transplants. I. The Transfer of Tuberculin Hypersensitivity in Inbred Guinea Pigs. Joseph A. Bauer, Jr. and Sanford H. Stone ........................................ 177
Studies on the Combining Sites of the Protein Antigen Silk Fibroin. I. Characterization of the Fibroin-Rabbit Antifibroin System. John J. Cebra ......................................... 190
Studies on the Combining Sites of the Protein Antigen Silk Fibroin. II. Isolation and Characterization of Peptides from Chymotryptic Hydrolysate of Silk Fibroin (Bombyx mori). John J. Cebra .......................................................... 197
Studies on the Combining Sites of the Protein Antigen Silk Fibroin. III. Inhibition of the Silk Fibroin-Antifibroin System by Peptides Derived from the Antigen. John J. Cebra .............................. 205
Restoration of Serum Bactericidal Activity and Prevention of Its Loss in X-irradiated Mice. Lottie Kornfeld and C. Phillip Miller ........................................................................ 215
Biological Activity of Aggregated γ-Globulin. III. Production of Arthus-like Reactions. Kimishige Ishizaka, Teruko Ishizaka and Takao Sugahara ........................................ 220
Immune Mechanisms in Homotransplantation. II. Quantitative Assay of the Immunologic Activity of Lymphoid Cells Stimulated by Tumor Homographs. Henry J. Winn ............ 228

An Adenovirus Vaccine Potency Test. Howard Tint and Joseph Stone ............................... 253
The Effects of Anti-Cornea and Anti-Heart Serum on Cultured Cells of Rabbit Cornea and Other Tissues. G. Ehrlich and S.P. Halbert .................................................. 267
The Multiplication of Foot-and-Mouth Disease Virus in Trypsinized Calf Kidney and Tongue Cells and Its Use as Immunizing and Complement-Fixing Antigens. Carl J. de Boer and Howard L. Bachrach ........................................ 282
Studies on the Role of Serotonin and Mast Cells in Anaphylaxis of the Mouse Produced with Soluble Antigen-antibody Complexes. Seikichi Tokuda and Russell S. Weiser .................. 292
Circulating Antibody and Anaphylaxis in Mice. Richard Rothberg and David W. Talmage ......... 302
Passive Transfer of Bone Marrow Homotransplantation Immunity with Specific Antisera. Richard M. Garver and Leonard J. Cole .............................................. 307
Reduction of the Anaphylaxis Enhancing and Adjuvant Effects of Bordetella Pertussis by a Prior Injection of B. Pertussis. Leon S. Kind and Suzanne K. Roffler ............................. 324
Autoradiographic Observations of Plasma Cell Formation. John C. Schooley ......................... 331
The Mechanism of Particulate Carrier Reactions. I. Adsorption of Human γ-Globulin to Poly-styrene Latex Particles. Irwin Oreskes and Jacques M. Singer ........................................ 338
Antigenic Activity of Various Tissues in Transplantation Immunity. Charles F. McKhann and James H. Berrian .................................................................................. 345

Enhanced Immunological Sensitization of Mice by the Simultaneous Injection of Antigen and Specific Antiserum. I. Effect of Varying the Amount of Antigen Used Relative to the Antiserum. Geroneimo Terres and William Wolins .................................................. 361
Effect of Antiserum and Antibiotics on Persistent Infection of HeLa Cells with Meningopneumonitis Virus. G. J. Galasso and A. P. Manire .................................................. 382
Inhibition of Immune Phagocytosis of Diplococcus pneumoniae by Human Neutrophiles with Antibody against Complement. W. S. Jeter, Albert P. McKee and Rachel J. Mason ................................................................. 386
Studies of Lymphocytic Choriomeningitis in Mice. I. The Relationship between Age at Inoculation and Outcome of Infection. John Hotchin and Heribert Weigand ................. 392
Studies of Lymphocytic Choriomeningitis in Mice. II. A Comparison of the Immune Status of Newborn and Adult Mice Surviving Inoculation. Heribert Weigand and John Hotchin ........ 401
Delayed Corneal Hypersensitivity in Guinea Pigs following Homotransplantation of Skin. Robert F. Smith and Russell S. Weiser ............................................................. 407
The Persistent Production of Small Quantities of Infectious Newcastle Disease Virus in Grossly Unaltered L and U2 Strain Cells. Earl J. Mason and Nathan Kaufman 413
Significance of the Blocking Antibody in Experimental Brucellosis. Harry Glenchur, Horace H. Zimmeman and Wendell H. Hall .......................................................... 421
A Precipitation Reaction between Human Serum and a Soluble Tissue Component. Thomas B. Tomasi ................................................................. 427
Properties of Specifically Purified Kidney Localizing Antikidney Antibody. Yasuo Yagi and David Pressman ........................................................................... 431
In Vitro Formation of 7S and 19S γ-Globulins by Tissues from Normal Subjects and Patients with Rheumatoid Arthritis. Howard I. Levene, Edward C. Franklin and G. Jeanette Thorbecke 440
Experimental Allergic Encephalomyelitis in the Chicken. Murray M. Lipton and Alex J. Steigman 445
Retention of Rabbit Antibody Activity during Acetylation. David Pressman, Peter Stelos and Allan Grossberg ................................................................. 452
Studies on Immunity in Anthrax. VIII. Relationship of Complement-Fixing Activity to Protective Activity of Culture Filtrates. Virginia G. McGann, Roebert L. Stearman and George G. Wright ................................................................. 458
Immunological Studies on African Swine Fever Virus. I. Elimination of the Procomplementary Activity of Swine Serum with Formalin. Keith M. Cowan 465

NUMBER 5, MAY 1961

Immune-Adherence with Leptospira Antigens. II. Studies on Hyperimmune, Convalescent and Normal Sera. William D. Linscott ................................................................. 480
Nature of the Active Site of Antibenzozate Antibodies: Further Evidence for the Presence of Tyrosine. David Pressman, Alfred Nisonoff, Gerald Radzimaki and Anita Shaw 489
The in Vivo Production of Penicillinase by Hemolytic Staphylococcus aureus. Peter Dineen 496
Effect of Eperythrozoon coccoides upon Lymphocytic Choriomeningitis in Mice. John Seamer, A. W. Gledhill, James L. Barlow and John Hotchin 512
Platelet Agglutination by immune Complexes and Its Possible Role in Hypersensitivity. Maria Siqueira and Robert A. Nelson, Jr. 516
Cellular Factors in Resistance to Acute Bacterial Infection. Fred Miya, Stanley Marcus and Eugene H. Perkins 526
Agglutinin Response, a Function of Cell Number. Eugene H. Perkins, M. A. Robinson and T. Makinodan ................................................................. 533
The Vi Antigens of the Enterobacteriaceae. V. Serologic Differences of Vi Antigens Revealed by Deacetylation. Roberta E. Whiteside and Eugene E. Baker 538
Enhancement of the Mouse Virulence of a Non-Vi Variant of Salmonella typhosa by Vi Antigen. Sidney Gaines, Joseph G. Tully and William D. Tigger 543
Certain Biological Characteristics of Adenovirus Types 5, 6, 7 and 14. Floyd W. Denny, Jr., and Harold S. Ginsberg ................................................................. 567
Studies on Hemagglutinins in California Wild Flower Seeds. Laura Brilliantine and Nancy K. Allen ................................................................. 575
Agar Precipitation Reactions between Human Serum Albumin and Hemoglobin in Human Tissue Extracts. Richard S. Metzgar and James T. Grace, Jr. 578

Biological Activity of Soluble Antigen-Antibody Complexes. VI. Complexes in Equivalence and in Excess Antibody. Kimishige Ishizaka, Teruko Ishizaka and Takao Sugahara .......................... 590

Lowered Resistance to Influenza Infection of Mice following Immunization with Mercurial Inactivated Influenza Virus. K. Ogasawara, M. Aida and I. Nagata ........................................... 599

An Investigation into the Use of 6-Mercaptopurine to Induce Immunological Tolerance. Kong-oo Goh, Daniel G. Miller and Henry D. Diamond .............................................. 606

Studies on Rickettsial Toxins. V. Dissimilarity between the Action of Rickettsial Mouse Lethal Toxin and Bacterial Endotoxin in Mice. Charles L. Wisseman, Jr., Lawrence Pazourk, Anthony Boccuti, Herbert James and Michael B. A. Oldstone ........................................... 613

Permeability Changes Produced in Mice by Bordetella pertussis. J. Munoz ........................................... 618

Effects of Pneumococcus Capsular Polysaccharides on the Degradation of Rabbit Antibodies in Mice. David Gitlin, Fernando Mönckeberg and Charles A. Janeway ........................................... 627

Plaque Formation with Echo Virus Types 15 to 24. John Maisel and Carlo Moscovici ........................................... 635

A New Model to Study Hematopoietic Transplantation Antigens. Franco Celada and T. Makinodan ........................................... 638

A Sensitive and Accurate Plate Assay for Poliovirus Neutralizing Antibody. Avril M. Burt and P. D. Cooper ........................................... 646

Effect of Humoral Factors on in Vitro Phagocytic and Cytotoxic Activities of Normal and "Immune" Phagocytes. Fred Miya and Stanley Marcus ........................................... 652

A Mortality Enhancing Extract Isolated from Listeria monocytogenes. Sidney J. Silverman, Lynn Elwell and Donald A. Kautter ........................................... 669

Complement Fixation and Ionic Strength. Lawrence Levine, Eleanor Wasserman and Stanley Mills ........................................... 675

Development and Application of New Parental Adjuvants. V. Comparative Potencies of Influenza Vaccines Emulsified in Various Oils. Allen F. Woodhour, Keith E. Jenson and Joel Warren ........................................... 681

The Immunologic Response of Rabbits to Homologous and Heterologous Corneal and Uveal Tissue. Waldon B. Wacker and Matt C. Dodd ........................................... 690