Contents

CELLULAR IMMUNOLOGY

T. M. Rogoff and P. E. Lipsky 1920 Characterization of Isolated Guinea Pig Kupffer Cells: Accessory Cell Function in Mitogen-Induced T Lymphocyte Activation
B. Andersson, A-C. Skoglund, and A. Rosen 1936 Functional Characterization of Mouse T Lymphocytes with IgM-Fc Receptors. I. Studies on ADCC and Helper Cell Function
J. J. Woodruff and R. A. Rasmussen 2369 In Vitro Adherence of Lymphocytes to Unfixed and Fixed High Endothelial Cells of Lymph Nodes
J. Yodoi and K. Ishizaka 2004 Lymphocytes Bearing Receptors for IgE. III. Transition of FcyR(+) Cells to Fc(+) Cells by IgE
E. A. Grimm and B. Bonavida 2026 Studies on the Induction and Expression of T Cell-Mediated Immunity. IX. Activation of Alloimmune Memory Lymphocytes into Specific Secondary CTL by Syngeneic NAGO-Oxidized Stimulator Cells
D. W. Knutson, A. Kijlstra, and L. A. van Es 2040 The Kinetics for Binding and Catabolism of Aggregated IgG by Rat Peritoneal Macrophages
G. Higgins and Y. S. Choi 2068 Avian Antigen-Binding Cells. I. Characterization of Antigen-Binding T Cells from Bursectomized Chickens by Autoradiography
G. Higgins, C. McDermott, and Y. S. Choi 2076 Avian Antigen-Binding Cells. II. Enrichment of Antigen-Binding B and T Cells
M. L. Cohn and D. W. Scott 2083 Functional Differentiation of T Cell Precursors. I. Parameters of Carrier-Specific Tolerance in Murine Helper T Cell Precursors
G. M. K. Humphries 2126 Specific Stimulation and Suppression of a Primary in Vitro Plaque-Forming Cell Response by Monovalent Lipid Haptens in Fluid Liposomal Membranes
B. A. Woda, J. Yguerabide, and J. D. Feldman 2161 Mobility and Density of AgB, "Ia," and Fc Receptors on the Surface of Lymphocytes from Young and Old Rats
W. Newman, B. Diamond, P. Florenberg, M. D. Scharff, and B. R. Bloom 2292 Response of a Continuous Macrophage-Like Cell Line to MIF
W. F. Doe and P. M. Henson 2304 Macrophage Stimulation by Bacterial Lipopolysaccharides. III. Selective Unresponsiveness of C3H/HeJ Macrophages to the Lipid A Differentiation Signal
K. W. Pyke, M. Papiernik, and J.-F. Bach 2316 Postnatal Development of T Cells. II. In Vitro Migratory Properties
M. A. Cooley and A.-M. Schmitt-Verhulst 2328 Specific Helper T Cells Permit Differentiation of Thymic Anti-Self-Trinitrophenyl Cytotoxic Precursor Cells
D. G. Hanson, N. M. Vaz, L. C. S. Maia, and J. M. Lynch 2337 Inhibition of Specific Immune Responses by Feeding Protein Antigens. III. Evidence Against Maintenance of Tolerance to Ovalbumin by Orally Induced Antibodies
S. D. Miller and D. G. Hanson 2344 Inhibition of Specific Immune Responses by Feeding Protein Antigens. IV. Evidence for Tolerance and Specific Active Suppression of Cell-Mediated Immune Responses to Ovalbumin
**CLINICAL IMMUNOLOGY**

J. P. Manzella and N. J. Roberts, Jr. 1940 Human Macrophage and Lymphocyte Responses to Mitogen Stimulation after Exposure to Influenza Virus, Ascorbic Acid, and Hyperthermia


T. C. Shope and J. Kaplan 2150 Inhibition of the in Vitro Outgrowth of Epstein-Barr Virus-Infected Lymphocytes by T₉ Lymphocytes

G. E. Rodey, L. K. Luehrman, and D. W. Thomas 2250 In Vitro Primary Immunization of Human Peripheral Blood Lymphocytes to KLH: Evidence for HLA-D Region Restriction

T. A. Koppi, A. E. Maluish, and W. J. Halliday 2255 The Cellular Mechanism of Leukocyte Adherence Inhibition

P. Katz and A. S. Fauci 2270 Autologous and Allogeneic Intercellular Interactions: Modulation by Adherent Cells, Irradiation, and in Vitro and in Vivo Corticosteroids

B. L. Hempstead, C. W. Parker, and A. Kulczycki, Jr. 2289 Characterization of the IgE Receptor Isolated from Human Basophils

D. D. Wood 2395 Purification and Properties of Human B Cell-Activating Factor

D. D. Wood 2400 Mechanism of Action of Human B Cell-Activating Factor. I. Comparison of the Plaque-Stimulating Activity with Thymocyte-Stimulating Activity

**IMMUNOCHEMISTRY**

N. Haeffner-Cavaillon, M. Klein, and K. J. Dorrington 1905 Studies on the Fcγ Receptor of the Murine Macrophage-Like Cell Line P388D₁, I. The Binding of Homologous and Heterologous Immunoglobulin G

N. Haeffner-Cavaillon, K. J. Dorrington, and M. Klein 1914 Studies on the Fcγ Receptor of the Murine Macrophage-Like Cell Line P388D₁, II. Binding of Human IgG Subclass Proteins and Their Proteolytic Fragments

K. P. Kato, T. J. Wang, and W. J. Esselman 1977 Radiolabeling and Isolation of Thy-1 Active Glycolipids from Murine Brain and Lymphoma Cell Lines

T. Kinoshita, K. Hong, and K. Inoue 1989 C₉ Hemolytic Activity of the Soluble C5b-9 Complex of Guinea Pig Complement, Analogous to Human SC5b-9

E. Severinson Gronowicz, C. Doss, F. Assisi, E. S. Vitetta, R. L. Coffman, and S. Strober 2049 Surface Ig Isotypes on Cells Responding to Lipopolysaccharide by IgM and IgG Secretion

E. Severinson Gronowicz, C. Doss, and J. Schröder 2057 Activation to IgG Secretion by Lipopolysaccharide Requires Several Proliferation Cycles

S. I. Schlager 2108 Specific ¹²⁵I-Hodination of Cell Surface Lipids: Plasma Membrane Alterations Induced during Humoral Immune Attack

J. C. Mathison and R. J. Ulevitch 2133 The Clearance, Tissue Distribution, and Cellular Localization of Intravenously Injected Lipopolysaccharide in Rabbits

J. G. P. Sissons, N. R. Cooper, and M. B. A. Oldstone 2144 Alternative Complement Pathway-Mediated Lysis of Measles Virus Infected Cells: Induction by IgG Antibody Bound to Individual Viral Glycoproteins and Comparative Efficacy of F(ab′)₂ and Fab′ Fragments

L. Dieminger, D. R. Schultz, and P. I. Arnold 2201 Activation of the Classical Complement Pathway in Human Serum by a Small Oligosaccharide

P. A. Liberti, R. D. Baillie, K. F. Milligan, and D. M. Bausch 2212 On the Interaction of Rabbit C₁q with Sheep and Rabbit Immune Complexes

M. R. Daha and L. A. van Es 2261 Isolation of the Fourth Component (C₄) of Rat Complement


Continued on page 4
Continued from page 3

H. Nagura, P. K. Nakane, and W. R. Brown
F. Patel and J. O. Minta
J. O. Minta, B.-Y. Ngan, and A. S. D. Pang
J. N. Goldman, S. Bangalore, and M. B. Goldman

2359 Translocation of Dimeric IgA through Neoplastic Colon Cells in Vitro
2408 Biosynthesis of a Single Chain Pro-C5 by Normal Mouse Liver mRNA: Analysis of the Molecular Basis of C5 Deficiency in AKR/J Mice
2415 Purification and Characterization of a Single Chain Precursor C3-Protein (Pro-C3) from Normal Human Plasma
2421 Activation of Murine Complement by Cobra Venom Factor in the Presence of EDTA

IMMUNOGENETICS AND TRANSPLANTATION

O. Vainio and A. Toivanen
D. H. Sachs, J. S. Arn, and T. H. Hansen
K. Yokomuro and A. S. Rosenthal
H. Ishikawa and R. W. Dutton
J. L. Claflin, J. Wolfe, and V. J. Ruppert
O. Lassila, J. Eskola, and P. Toivanen
J. C. Roder
J. C. Roder, M.-L. Lohmann-Matthes, W. Domzig, and H. Wigzell
H. T. Cheung and G. Sundharadas
C. S. Pavia and D. P. Stites
P. H. Bick and D. C. Shreffler
D. W. Drell, G. A. Carlson, and T. G. Wegmann

1960 Maturation of Bursal Stem Cells within Allogeneic or Syngeneic Bursal Microenvironment: Acquisition of Postbursal Maturity
1965 Two New Recombinant H-2 Haplotypes, One of Which Juxtaposes K\(^{\text{a}}\) and I\(^{\text{a}}\) Alleles
2019 Genetically Restricted Immune Responses in Guinea Pigs Primed in Vivo with Antigen-Bearing Macrophages
2034 Young F\(_1\) Mice Spontaneously Generate Cytotoxic T Cells against Parental Targets
2088 Structural Evidence for Recombination at the IgH (H Chain) Complex Locus in BAB 14 Mice
2091 Prebursal Stem Cells in the Intraembryonic Mesenchyme of the Chick Embryo at 7 Days of Incubation
2168 The Beige Mutation in the Mouse. I. A Stem Cell Predetermined Impairment in Natural Killer Cell Function
2174 The Beige Mutation in the Mouse. II. Selectivity of the Natural Killer (NK) Cell Defect
2189 Production of Chemotactic Activity in Mixed Leukocyte Cultures: Maximum Effect Caused by H-21 Region Disparity
2194 Humoral and Cellular Regulation of Alloimmunity in Pregnancy
2298 Selective Effects of Anti-la Serum and Complement Treatment upon Polyclonal B Lymphocyte Responses to Dextran Sulfate and Lipopolysaccharide
2319 Presence of Circulating Anti-H-2 Antibody and Cell-Mediated Precursors in Successful DBA/2J-Plus-(DBA/2J x C3H/HeJ)F\(_1\) Parabiosed Mice

IMMUNOPATHOLOGY

C. A. Brown, K. Carey, and R. B. Colvin
J. W. Kazura, C. Gandola, H. R. Rodman, and A. A. F. Mahmoud
Z. Lando, D. Teitelbaum, and R. Arnon
E. G. Neilson and S. M. Phillips
E. G. Neilson and S. M. Phillips
L. Simchowitz and I. Spilberg

2102 Inhibition of Autoimmune Tubulointerstitial Nephritis in Guinea Pigs by Heterologous Antisera Containing Anti-idiotypic Antibodies
2114 Deficient Production of the Lymphokine Eosinophil Stimulation Promoter in Chemically Induced and Mutation Diabetes Mellitus in Mice
2156 Effect of Cyclophosphamide on Suppressor Cell Activity in Mice Unresponsive to EAE
2182 B Lymphocyte Determinants in Immunoglobulin A Nephropathy
2373 Cell-Mediated Immunity in Interstitial Nephritis. I. T Lymphocyte Systems in Nephritic Guinea Pigs: The Natural History and Diversity of the Immune Response
2381 Cell-Mediated Immunity in Interstitial Nephritis. II. T Lymphocyte Effector Mechanisms in Nephritic Guinea Pigs: Analysis of the Renotropic Migration and Cytotoxic Response
2428 Chemotactic Factor-Induced Generation of Superoxide Radicals by Human Neutrophils: Evidence for the Role of Sodium.

Continued on page 5
TUMOR IMMUNOLOGY


A. K. Bhan, V. Kumar, and M. Bennett 1952 Differential Growth of Allogeneic Bone Marrow and Leukemia Cells in Irradiated Guinea Pigs

M. Wolcott, J. W. Pickering, and J. L. Williams 1985 Inhibition of Growth of ASL-1w Murine Leukemia Cells by Anti-thymus Leukemia Antigen (TL) Serum in the Absence of Complement


L. M. Pelus and R. S. Bockman 2118 Increased Prostaglandin Synthesis by Macrophages from Tumor-Bearing Mice

G. Mavligit, Y. Ishii, Y. Patt, and W. Wong 2185 Local Xenogeneic Graft-vs-Host Reaction: A Practical Assessment of T Cell Function among Cancer Patients

G. Hewlett, H.-G. Opitz, H. D. Flad, and H. D. Schlumberger 2265 Macrophages/Monocytes Require Cell-to-Cell Contact in Order to Regulate the Growth of a Murine Lymphoma Cell Line

J. C. Lee and J. N. Ihle 2351 Mechanisms of C-Type Viral Leukemogenesis. I. Correlation of in Vitro Lymphocyte Blastoegenesis to Viremia and Leukemia

C. R. Simrell and P. A. Klein 2386 Antibody Responses of Tumor-Bearing Mice to Their Own Tumors Captured and Perpetuated as Hybridomas

VIRAL AND MICROBIAL IMMUNOLOGY

B. F. Haynes, R. T. Schooley, C. R. Payling-Wright, J. E. Grouse, R. Dolin, and S. Fauci 2095 Emergence of Suppressor Cells of Immunoglobulin Synthesis during Acute Epstein-Barr Virus-Induced Infectious Mononucleosis

M. Capron, G. Torpier, and A. Capron 2220 In Vitro Killing of S. mansoni Schistosomula by Eosinophils from Infected Rats: Role of Cytophilic Antibodies

S. L. Shore, T. L. Cromeans, and B. Norrild 2239 Early Damage of Herpes-Infected Cells by Antibody-Dependent Cellular Cytotoxicity: Relative Roles of Virus-Specified Cell Surface Antigens and Input Virus

T. C. Quinn and D. J. Wyler 2245 Mechanisms of Action of Hyperimmune Serum in Mediating Protective Immunity to Rodent Malaria (Plasmodium berghei)

COMMUNICATIONS

J. Michaelson, K. Artzt, D. Bennett, J. Caldwell, and J. K. Heath 2436 A Cell Surface Antigen, TER, Expressed by Embryos and Germ Cells

M. E. Frankel, R. B. Effros, P. C. Doherty, and W. U. Gerhard 2438 A Monoclonal Antibody to Viral Glycoprotein Blocks Virus-Immune Effector T Cells Operating at H-2D<sup>+</sup> but Not at H2K<sup>+</sup>

In Memoriam 2441

Announcements 2442

Erratum 2444

Author Index 2445