Contents

CELLULAR IMMUNOLOGY

D. A. Clark and M. R. McDermott  1267  Active Suppression of Host-vs-Graft Reaction in Pregnant Mice. III. Developmental Kinetics, Properties, and Mechanism of Induction of Suppressor Cells during First Pregnancy

P.-F. Piguet and P. Vassalli  1304  Collaboration between Histoincompatible T and B Lymphocytes: Preferential Induction in Vivo of Antibodies to Antigens Borne by Foreign T Cells

P. J. Morrissey, H. S. Boswell, I. Scher, and A. Singer  1345  Role of Accessory Cells in B Cell Activation. IV. Ia+ Accessory Cells Are Required for the in Vitro Generation of Thymic Independent Type 2 Antibody Responses to Polysaccharide Antigens

L. D. Butler, S. D. Miller, and H. N. Claman  1383  Unresponsiveness in Hapten-Specific Cytotoxic T Lymphocytes. I. Characteristics of Tolerance Induction in Adult Mice


S. R. Targan  1424  The Dual Interaction of Prostaglandin E2 (PGE2) and Interferon (IFN) on NK Lytic Activation: Enhanced Capacity of Effector-Target Lytic Interactions (Recycling) and Blockage of Pre-NK Cell Recruitment

E. M. Levy, V. Kuman, and M. Bennett  1428  Natural Killer Activity and Suppressor Cells in Irradiated Mice Repopulated with a Mixture of Cells from Normal and 36Sr-Treated Donors

B. M. Susskind and R. B. Faanes  1465  Effects of y-Irradiation on Lymphocyte Subpopulations Participating in the Development of the Cytotoxic T Lymphocyte Response

D. E. Mosier  1490  Primary in Vitro Antibody Responses by Purified Murine B Lymphocytes in Serum-Free Defined Medium

T. A. Luger, B. M. Stadler, S. I. Katz, and J. J. Oppenheim  1493  Epidermal Cell (Keratinocyte)-Derived Thymocyte-Activating Factor (ETAF)

W. W. Freirnuth and G. Cudkowicz  1504  Requirement of Adherent/Phagocytic Cells for the Induction of F1 Anti-parent Cell-Mediated Lympholysis. I. Parental Adherent Splenocytes Serve as Stimulators

D. G. Hanson  1518  Ontogeny of Orally Induced Tolerance to Soluble Proteins in Mice. I. Priming and Tolerance in Newborns

A. Kelso  1563  Absorption of Normal Lymphocytes on Allogeneic Spleen Monolayers: Depletion of Alloreactivity Is Due to Inhibition of CTL Induction by Released Monolayer Cells

F. A. H. Rice and M.-J. Koo  1601  Effect of Leucogeneol on Recovery from Immunosuppression by Anti-lymphocyte Globulins

P. S. Pillai and D. W. Scott  1603  Hapten-Specific Murine Colony-Forming B Cells. II. Delineation of a Tolerogen-Sensitive Subpopulation of Colony-Forming B Cells

L. K. Gordon and C. W. Parker  1634  A Microfluorometric Assay for the Measurement of de Novo DNA Synthesis in Individual Cells

J. C. Cambier, W. L. Havran, T. Fernández de Albornoz, and R. B. Corley  1685  Identification of a Brain b-Positive, Secretory Cell from Hematopoietic Tissues

CLINICAL IMMUNOLOGY

D. Kozbor and J. C. Roder  1275  Requirements for the Establishment of High-Titered Human Monoclonal Antibodies against Tetanus Toxoid Using the Epstein-Barr Virus Technique

Lê thi Bich-Thuy, C. Samarut, J. Brochier, and J.-P. Revillard  1299  Suppression of the Late Stages of Mitogen-Induced Human B Cell Differentiation by Fcγ Receptors (FcγR) Released from Polymorphonuclear Neutrophils

S. Romagnani, M. G. Giudizi, R. Giagiotti, F. Almerigogna, E. Maggi, G. Del Prete, and M. Ricci  1307  Surface Immunoglobulins Are Involved in the Interaction of Protein A with Human B Cells and in the Triggering of B Cell Proliferation Induced by Protein A-Containing Staphylococcus aureus

Continued on page 4
Continued from page 3

A. Yachie, T. Miyawaki, T. Nagao, T. Yokoi, M. Mukai, N. Uwadana, and N. Taniguchi
M. C. Pike and R. Snyderman
T. Yasaka, N. M. Mantlich, L. A. Boxer, and R. L. Baehner
P. Hokland and K. Berg
G. R. Munske, E. R. Pandolfino, and J. A. Magnuson
S. Kumagai, A. D. Steinberg, and I. Green

1314 Regulation of B Cell Differentiation by T Cell Subsets Defined with Monoclonal OKT4 and OKT8 Antibodies in Human Cord Blood
1444 Transmethylation Reactions Are Required for Initial Morphologic and Biochemical Responses of Human Monocytes to Chemoattractants
1515 Functions of Human Monocyte and Lymphocyte Subsets Obtained by Countercurrent Centrifugal Elution: Differing Functional Capacities of Human Monocyte Subsets
1585 Interferon Enhances the Antibody-Dependent Cellular Cytotoxicity (ADCC) of Human Polymorphonuclear Leukocytes
1607 A Comparison of the Interactions of the Mitogenic and Nonmitogenic Lima Bean Lectins with Human Lymphocytes
1643 Immune Responses to Hapten-Modified Self and Their Regulation in Normal Individuals and Patients with SLE

IMMUNOLOGY

D. S. Hummell, R. W. Berninger, A. Tomasz, and J. A. Winklestein
M. Berger, T. A. Gaither, C. H. Hammer, and M. M. Frank
M. A. Arnaout, J. Melamed, B. F. Tack, and H. R. Colten
C. L. Sidman
E. Kubota, H. Ishikawa, and K. Salto
L. A. Potempa, J. N. Siegel, and H. Gewurz
C. J. Lobb and L. W. Clem
A. Llaube, C. Le Borgne de Kaouel, F. M. Kouriisky, B. Malissen, Y. Manuel, and A. R. Sanderson
P. A. Bleicher and N. Cohen
R. G. Hoover, B. K. Dieckgraefe, and R. G. Lynch
K. L. McGuire and E. S. Vitetta
S. Kessler, H. J. Kim, and I. Scher

1287 The Fixation of C3b to Pneumococcal Cell Wall Polymers as a Result of Activation of the Alternative Complement Pathway
1329 Lack of Binding of Human C3, in Its Native State, to C3b Receptors
1348 Characterization of the Human Complement (C3b) Receptor with a Fluid Phase C3b Dimer
1450 A C1-Inhibitor-Complex Assay (INCA): A Method to Detect C1 Activation in Vitro and in Vivo
1454 Lymphocyte Surface Receptors and Albumin
1498 Evidence for a Cloned Hybridoma (HO-13-4-9) Producing 2 Kinds of Antibody Molecules Different in Specificity, One Directed to Thy 1.2 Gene Products and the Other to Antigen on a Subpopulation of Thy 1.1 Thymocytes
1509 Binding Reactivity of C-Reactive Protein for Polycations. II. Modulatory Effects of Calcium and Phosphocholine
1525 The Metabolic Relationships of the Immunoglobulins in Fish Serum, Cutaneous Mucus, and Bile
1542 An Antigenic Determinant of Human 2-Microglobulin Masked by the Association with HLA Heavy Chains at the Cell Surface: Analysis Using Monoclonal Antibodies
1549 Monoclonal Anti-IgM Can Separate T Cell from B Cell Proliferative Responses in the Frog, Xenopus laevis
1560 T Cells with Fc Receptors for IgA: Induction of α Cells in Vivo and in Vitro by Purified IgA
1652 A Mitogenic Lactose-Binding Lectin from the Sponge Geodia cydonium
1670 κ/λ Shifts Do Not Occur during Maturation of Murine B Cells
1674 Surface Membrane κ and λ Light Chain Expression on Spleen Cells of Neonatal and Maturing Normal and Immune-Defective CBA/N Mice: The κ:λ Ratio is Constant
1714 Recognition of MOPC-460 Variable Region Determinants by Polyclonally Distributed Triggering Receptors on B Lymphocytes

IMMUNOCHEMISTRY

R. G. Berninger, A. Winkleman, and J. A. Winklestein
M. Berger, T. A. Gaither, C. H. Hammer, and M. M. Frank
M. A. Arnaout, J. Melamed, B. F. Tack, and H. R. Colten
C. L. Sidman
E. Kubota, H. Ishikawa, and K. Salto
L. A. Potempa, J. N. Siegel, and H. Gewurz
C. J. Lobb and L. W. Clem
A. Llaube, C. Le Borgne de Kaouel, F. M. Kouriisky, B. Malissen, Y. Manuel, and A. R. Sanderson
P. A. Bleicher and N. Cohen
R. G. Hoover, B. K. Dieckgraefe, and R. G. Lynch
K. L. McGuire and E. S. Vitetta
S. Kessler, H. J. Kim, and I. Scher

1287 The Fixation of C3b to Pneumococcal Cell Wall Polymers as a Result of Activation of the Alternative Complement Pathway
1329 Lack of Binding of Human C3, in Its Native State, to C3b Receptors
1348 Characterization of the Human Complement (C3b) Receptor with a Fluid Phase C3b Dimer
1450 A C1-Inhibitor-Complex Assay (INCA): A Method to Detect C1 Activation in Vitro and in Vivo
1454 Lymphocyte Surface Receptors and Albumin
1498 Evidence for a Cloned Hybridoma (HO-13-4-9) Producing 2 Kinds of Antibody Molecules Different in Specificity, One Directed to Thy 1.2 Gene Products and the Other to Antigen on a Subpopulation of Thy 1.1 Thymocytes
1509 Binding Reactivity of C-Reactive Protein for Polycations. II. Modulatory Effects of Calcium and Phosphocholine
1525 The Metabolic Relationships of the Immunoglobulins in Fish Serum, Cutaneous Mucus, and Bile
1542 An Antigenic Determinant of Human 2-Microglobulin Masked by the Association with HLA Heavy Chains at the Cell Surface: Analysis Using Monoclonal Antibodies
1549 Monoclonal Anti-IgM Can Separate T Cell from B Cell Proliferative Responses in the Frog, Xenopus laevis
1560 T Cells with Fc Receptors for IgA: Induction of α Cells in Vivo and in Vitro by Purified IgA
1652 A Mitogenic Lactose-Binding Lectin from the Sponge Geodia cydonium
1670 κ/λ Shifts Do Not Occur during Maturation of Murine B Cells
1674 Surface Membrane κ and λ Light Chain Expression on Spleen Cells of Neonatal and Maturing Normal and Immune-Defective CBA/N Mice: The κ:λ Ratio is Constant
1714 Recognition of MOPC-460 Variable Region Determinants by Polyclonally Distributed Triggering Receptors on B Lymphocytes

IMMUNOCHEMISTRY

G. Chaouat and G. A. Volein
D. A. Shackelford, L. A. Lampson, and J. L. Strominger
T. Maki, R. Gottschalk, M. L. Wood, and A. P. Monaco
W. L. Elklns and M. M. Quant

1335 Regulatory T Cells in Pregnancy. IV. Genetic Characteristics and Mode of Action of Early MLR Suppressive T Cell Subpopulations
1403 Analysis of HLA-DR Antigens by Using Monoclonal Antibodies: Recognition of Conformational Differences in Biosynthetic Intermediates
1433 Specific Unresponsiveness to Skin Allografts in Anti-lymphocyte Serum-Treated, Marrow-Injected Mice: Participation of Donor Marrow-Derived Suppressor T Cells
1459 Regulatory Effect of H2-D Region Antigens in the Graft-vs-Host Response: F1 Hybrid Resistance to Alloreactive T Cells

Continued on page 5
Continued from page 4

A. Benammar and P.-A. Cazenave
M. Rose and S. E. Cullen
S. E. Cullen, C. S. Kindle, D. C. Shreffler, and C. Cowing
N. L. Letvin, B. Benacerraf, and R. N. Germain
N. Shinohara, M. Taniguchi, and M. Kojima
Z. K. Balas
J. J. Kenny, G. Guelde, J. L. Clafflin, and I. Scher
T. H. Stanton, S. Carbon, and M. Maynard
M. L. Plunkett, C. S. David, and J. H. Freed

IMMUNOPATHOLOGY

J. P. W. van der Veen, A. G. Rollink, and E. Gleichmann
Y. Morita and R. P. Siragianian
T. G. Cotter, P. Spears, and P. M. Henson
Y. Ogawa, Y. Takai, Y. Kawahara, S. Kimura, and Y. Nishizuka
Y. Ku, A. Kishimoto, Y. Takai, Y. Ogawa, S. Kimura, and Y. Nishizuka
H. L. Oertel and M. Kaliner
C. B. Pettinelli and D. E. McFarlin
C. R. Polley, L. D. Bacon, and N. R. Rose
M. D. Livezey, R. S. Sundick, and N. R. Rose
S. T. Holgate, C. M. Winslow, R. A. Lewis, and K. F. Austen
J. Yodol, M. Hirashima, B. R. Bloom, and K. Ishizaka
R. V. Maier and R. J. Ulevitch
G. Stingl, L. A. Gaze-Stingl, W. Aberer, and K. Wolff

TUMOR IMMUNOLOGY

D. E. Kern, S. Gillia, M. Okada, and C. S. Henney
M. O. de Landazuri, M. López-Botet, T. Timonen, J. R. Ortaldo, and R. B. Herberman
E. J. Hancock, D. G. Kilburn, and J. G. Levy

An 8th Rabbit b Allotype (b92) Detected by a Genetic Study
A Variant a-Chain in an la Molecule from the I-A Subregion of the Mouse Major Histocompatibility Complex: A Possible Intrageneric Recombination
Differential Glycosylation of Murine B Cell and Spleen Adherent Cell la Antigens
Plaque-Forming Cell Responses to Trinitrophenyl (TNP)-L-Glutamic Acid50-L-Alanine50-L-Tyrosine10 (GAT) in Microcultures Are Not Under Conventional Ir Gene Control
Mouse Alloantibodies Capable of Blocking Cytotoxic T Cell Function. III. Studies of the Mechanism of Blocking of CML by Anti-Lyt-2 Antibodies
Limitations of Recognition of Modified-Self by Alloantigen-Activated Cytotoxic T Lymphocytes
Altered Idiotypic Response to Phosphocholine in Mice Bearing an X-Linked Immune Defect
Recognition of Alternate Alleles and Mapping of the Qa1 Locus
Biochemical Evidence for Trans Complementation of Structural Genes in the Expression of I-E Antigens in F, Hybrids
Diseases Caused by Reactions of T Lymphocytes to Incompatible Structures of the Major Histocompatibility Complex. III. Autocantibodies to Thymocytes
Inhibition of IgE-Mediated Histamine Release from Rat Basophilic Leukemia Cells and Rat Mast Cells by inhibitors of Transmethylation
A Monoclonal Antibody Inhibiting Human Neutrophil Chemotaxis and Degranulation
A New Possible Regulatory System for Protein Phosphorylation in Human Peripheral Lymphocytes. I. Characterization of a Calcium-Activated, Phospholipid-Dependent Protein Kinase
A New Possible Regulatory System for Protein Phosphorylation in Human Peripheral Lymphocytes. II. Possible Relation to Phosphatidylinositol Turnover Induced by Mitogens
The Biologic Activity of Mast Cell Granules. III. Purification of Inflammatory Factors of Anaphylaxis (IF-A) Responsible for Causing Late-Phase Reactions
Adoptive Transfer of Experimental Allergic Encephalomyelitis in SJL/J Mice after in Vitro Activation of Lymph Node Cells by Myelin Basic Protein: Requirement for Lyt 1+ 2- T Lymphocytes
Spontaneous Autoimmune Thyroiditis in Chickens. I. Effects of Bursal Reconstitution
Spontaneous Autoimmune Thyroiditis in Chickens. II. Evidence for Autoresponsive Thymocytes
Effects of Prostaglandin D2 and Theophylline on Rat Serosal Mast Cells: Discordance between Increased Cellular Levels of Cyclic AMP and Activation of Cyclic AMP-Dependent Protein Kinase
Interferon Induces Peripheral Lymphadenopathy in Mice
Formation of IgE-Binding Factors by Rat T Lymphocytes. I. Induction of IgE-Binding Factors by Poly I:C and Interferon
The Induction of a Unique Procoagulant Activity in Rabbit Hepatic Macrophages by Bacterial Lipopolysaccharides
Antigen Presentation by Murine Epidermal Langerhans Cells and Its Alteration by Ultraviolet B Light
The Role of Interleukin-2 (IL-2) in the Differentiation of Cytotoxic T Cells: The Effect of Monoclonal Anti-IL-2 Antibody and Absorption with IL-2 Dependent T Cell Lines
Human Large Granular Lymphocytes: Spontaneous and Interferon-Boostered NK Activity against Adherent and Nonadherent Tumor Cell Lines
Helper Cells Active in the Generation of Cytotoxicity to a Syngeneic Tumor

Continued on page 6
Continued from page 5

R. Sitia, A. Rubartelli, and U. Hammerling 1388 Expression of 2 Immunoglobulin Isotypes, IgM and IgA, with Identical Idiotype in the B Cell Lymphoma 1.29
M. Potter and J. S. Wax 1591 Genetics of Susceptibility to Pristane-Induced Plasmacytomas in BALB/cAn: Reduced Susceptibility in BALB/cJ with a Brief Description of Pristane-Induced Arthritis
T. A. Hamilton and M. Fishman 1702 Characterization of the Recognition of Target Cells Sensitive or Resistant to Cytolysis by Activated Rat Peritoneal Macrophages

VIRAL AND MICROBIAL IMMUNOLOGY

S. Kohl, L. S. Loo, and L. K. Pickering 1273 Protection of Neonatal Mice against Herpes Simplex Viral Infection by Human Antibody and Leukocytes from Adult, but Not Neonatal Humans
R. C. Goldman, D. White, and L. Leive 1290 Identification of Outer Membrane Proteins, Including Known Lymphocyte Mitogens, as the Endotoxin Protein of Escherichia coli 0111
G. S. Bixler, Jr. and J. Boose 1294 Adherent Spleen Cells from Mice Acutely Infected with Cytomegalovirus Suppress the Primary Antibody Response in Vitro
D. H. Schwartz and P. C. Doherty 1411 Virus-Immune and Alloreactive Response Characteristics of Thymocytes and Spleen Cells from Young Mice
R. D. Pearson and R. T. Steigbigel 1438 Phagocytosis and Killing of the Protozoan Lueshmia donovani by Human Polymorphonuclear Leukocytes
M. A. Ouaissi, C. Auriault, F. Santoro, and A. Capron 1556 Interaction between Schistosoma mansoni and the Complement System: Role of IgG Fc Peptides in the Activation of the Classical Pathway by Schistosomula
B. M. Greene, H. R. Taylor, and M. Aikawa 1611 Cellular Killing of Microfiliariae of Onchocerca volvulus: Eosinophil and Neutrophil-Mediated Immune Serum-Dependent Destruction
C.-J. Lee and K. Koizumi 1619 Immunoechemical Relations between Pneumococcal Group 19 and Kiebsiella Capsular Polysaccharides
R. Hussain, R. G. Hamilton, V. Kumaraswami, N. F. Adkinson, Jr., and E. A. Ottesen 1623 IgE Responses in Human Filariasis. I. Quantitation of Filaria-Specific IgE
J. C. Guckian, G. D. Christensen, J. E. Schweinle, and D. P. Fine 1659 Opsonization of Pneumococci. I. Heat- Labile Serum Activity Other Than Complement Is Required for Killing by Human Polymorphonuclear Leukocytes
J. C. Guckian, T. Cavallo, and D. P. Fine 1666 Opsonization of Pneumococci. II. Metabolic Effects of a „Third” Human Serum Activity That Mediates Intracellular Killing
D. Rubin, H. L. Weiner, B. N. Fields, and M. I. Greene 1697 Immunologic Tolerance after Oral Administration of Reovirus: Requirement for Two Viral Gene Products for Tolerance Induction

COMMUNICATION

I. J. Fidler 1719 The in Situ Induction of Tumoricidal Activity in Alveolar Macrophages by Liposomes Containing Muramyl Dipeptide Is a Thymus-Independent Process
R. A. Goldstein 1721 Notice of Results of a Meeting of the Allergen Standardization Subcommittee of the International Union of Immunologic Societies (IUIS)
Announcements 1722
Author Index 1725