Contents

CELLULAR IMMUNOLOGY


A. A. Freitas, B. Rocha, L. Forni, and A. Coutinho

H. Nariuchi and T. Kakiuchi

S. Shimizu, R. T. Smith, M. A. Norcross, and V. C. Maino

C. L. Gezcy and P. A. Meyer

R. Palacios

S. N. Vogel, L. L. Weodon, R. N. Moore, and D. L. Rosenstreich

M. G. Scher, E. R. Unanue, and D. I. Beller

E. C. Lattime, S. Gillis, G. Pecoraro, and O. Stutman

49 Biologic Activity of an Idiotype-Bearing Suppressor T Cell Factor Produced by a Long-Term T Cell Hybridoma

54 Population Dynamics of B Lymphocytes and Their Precursors: Demonstration of High Turnover in the Central and Peripheral Lymphoid Organs

161 Antibody Responses to Various T-Independent Antigens of B Cells with or without C3 Receptors and Adherent Cell Requirement for These Responses

296 Mechanisms Controlling TCGF Production by Cloned Sublines of EL-4 azg' in Response to Stimulation by Anti-Thy-1 Antibody

331 Leukocyte Procoagulant Activity in Man: An in Vitro Correlate of Delayed-Type Hypersensitivity

337 Concanaavalin A Triggers T Lymphocytes by Directly Interacting with Their Receptors for Activation

380 Correction of Defective Macrophage Differentiation in C3H/HeJ Mice by an Interferon-Like Molecule

501 Regulation of Macrophage Populations. III. The Immunologic Induction of Exudates Rich in Ia-Bearing Macrophages Is a Radiosensitive Process

480 Ia-Dependent Interleukin 2 Production in Syngeneic Cellular Interactions

CLINICAL IMMUNOLOGY

T. Miyawaki, A. Yachie, T. Nagaoi, M. Mukai, T. Yokoi, N. Uwadana, and N. Taniguchi

G. Corte, M. C. Mingari, A. Moretta, G. Damiani, L. Moretta, and A. Bargellesi

A. Moretta, G. Corte, M. C. Mingari, and L. Moretta

N. A. Brown and G. Miller

H. Spits, H. Ijssel, C. Terhorst, and J. E. de Vries

M. F. Lipscomb, C. R. Lyons, R. M. O’Hara, Jr., and J. Stein-Streilein

J. R. Neefe, J. E. Sullivan, and R. J. Hartzman


S. Kumagai, B. Sredni, S. House, A. D. Steinberg, and I. Green

R. I. Fox, S. Fong, N. Sabharwal, S. A. Carstens, P. C. Kung, and J. H. Vaughan

11 Expression Ability of Ia Antigens on T Cell Subsets Defined by Monoclonal Antibodies on Pokeweed Mitogen Stimulation in Early Human Life

16 Human T Cell Subpopulations Defined by a Monoclonal Antibody. I. A Small Subset Is Responsible for Proliferation to Allogeneic Cells or to Soluble Antigens and for Helper Activity for B Cell Differentiation

20 Human T Cell Subpopulations Defined by a Monoclonal Antibody. II. Evidence for Cell Cooperation in the Response to Alloantigens and Generation of Cytolytic Cells

24 Immunoglobulin Expression by Human B Lymphocytes Clonally Transformed by Epstein Barr Virus

95 Establishment of Human T Lymphocyte Clones Highly Cytotoxic for an EBV-Transformed B Cell Line in Serum-Free Medium: Isolation of Clones That Differ in Phenotype and Specificity

111 The Antigen-Induced Selective Recruitment of Specific T Lymphocytes to the Lung

227 Clonal Analysis of Restriction Antigens for Human TNP-Specific Cytotoxic T Lymphocytes

223 Antigen-Specific Human T Lymphocyte Clones: Induction, Antigen Specificity, and MHC Restriction of Influenza Virus-Immunized Clones

258 Defective Regulation of B Lymphocyte Colony Formation in Patients with Systemic Lupus Erythematosus

351 Synovial Fluid Lymphocytes Differ from Peripheral Blood Lymphocytes in Patients with Rheumatoid Arthritis

Continued on page 4
Continued from page 3


A. D. Hess, P. J. Tutschka, Z. Pu, and G. W. Santos 360 Effect of Cyclosporin A on Human Lymphocyte Responses in Vitro. IV. Production of T Cell Stimulatory Growth Factors and Development of Responsiveness to These Growth Factors in CsA-Treated Primary MLR Cultures

R. H. Stevens, E. Benveniste, and E. Pineda 398 The Selective Role of Membrane IgG in the Antigen-Induced Inhibition of Human in Vitro Antibody Synthesis

R. H. Weisbart, A. J. Lusis, G. Chan, R. Billig, R. F. Ashman, and D. W. Golde 457 Neutrophil Migration Inhibition Factor from T Lymphocytes (NIF-T): Selective Removal of Biologic Activity by Human Peripheral Blood Neutrophils, Myelocytic Leukemia Cells, and Differentiated HL-60 Cells


M. G. Beale, G. S. Nash, M. J. Bertovich, and R. P. MacDermott 486 Similar Disturbances in B Cell Activity and Regulatory T Cell Function in Henoch-Schönlein Purpura and Systemic Lupus Erythematosus

H. H. Shen, O. Irigoyen, S. M. Friedman, and L. Chess 501 Characterization of the Alloactivated E+ Ia+ Cell Capable of Stimulating in Mixed Lymphocyte Culture

IMMUNOCHEMISTRY

L. J. Partridge, J. Lowe, D. L. Hardie, N. R. Ling, and R. Jefferies 1 Immunogenic and Antigenic Epitopes of Immunoglobulins. II. Antigenic Differences between Secreted and Membrane IgG Demonstrated Using Monoclonal Antibodies

R. Smeenk, G. van der Leijl, and L. Aarden 73 Avidity of Antibodies to dsDNA: Comparison of IFT on Crithidia luciliae, Farr Assay, and PEG Assay

I. Clark-Lewis and J. W. Schrader 168 Biochemical Characterization of Regulatory Factors Derived from T Cell Hybridomas and Spleen Cells. I. Separation of T Cell Growth Factor and T Cell Replacing Factor from Granulocyte-Macrophage Colony-Stimulating Factor

I. Clark-Lewis and J. W. Schrader 175 Biochemical Characterization of Regulatory Factors Derived from T Cell Hybridomas and Spleen Cells. II. Evidence for Glycosylation of T Cell Factor, T Cell Replacing Factor, and Granulocyte-Macrophage Colony-Stimulating Factor

V. F. H. Chu, W. L. Marsh, and I. Gigli 181 Chido and Rogers Antigenic Determinant on the Fourth Component of Human Complement

J. D. Lambris and G. D. Ross 186 Assay of Membrane Complement Receptors (CR1 and CR2) with C3b- and C3d-Coated Fluorescent Microspheres

T. Tadakuma, T. Yasuda, H. Tamauchi, K. Saito, T. Tsumita, and S. C. Kinsky 206 Effect of Lipid A Incorporation on Characterization of Liposomal Model Membranes as Thymus-Independent Type 1 or Type 2 Immunogens

M. Letarte and J. Falk 217 Biochemical and Immunologic Heterogeneity of IgG Glycoproteins Isolated from a Chronic Lymphocytic Leukemia

J. Yodoi, M. Hirashima, and K. Ishizaka 289 Regulatory Role of IgE-Binding Factors from Rat T Lymphocytes. V. The Carbohydrate Moieties in IgE-Potentiating Factors and IgE-Suppressive Factors


S. J. Smith-Gill, A. C. Wilson, M. Potter, E. M. Prager, R. J. Feldmann, and C. R. Mainhart 314 Mapping the Antigenic Epitope for a Monoclonal Antibody against Lysozyme

P. Hammer and L. A. Steiner 343 Specificity and Heterocliticity of Rabbit Antisera to the 2,4-Dinitrophenyl Determinant

J. E. McClure, N. Lameris, D. W. Wara, and A. L. Goldstein 368 Immunochemical Studies on Thymosin: Radi oimmunoassay of Thymosin α1

A. van Aghoven and C. Terhorst 426 Further Biochemical Characterization of the Human Thymocyte Differentiation Antigen T6

D. F. Keren, S. E. Kern, D. H. Bauer, P. J. Scott, and P. Porter 475 Direct Demonstration in Intestinal Secretions of an Iga Memory Response to Orally Administered Shigella flexneri Antigens

IMMUNOGENETICS AND TRANSPLANTATION

M. B. Goldman, C. Cohen, K. Stronaki, S. Bangalore, and J. N. Goldman 43 Genetic Control of C6 Polymorphism and C6 Deficiency in Rabbits

M. Reddehase, W. Suessmuth, C. Moyers, W. Falk, and W. Drooge 61 Interleukin 2 Is Not Sufficient As Helper Component for the Activation of Cytotoxic T Lymphocytes but Synergizes with a Late Helper Effect That Is Provided by Irradiated I-Region-Incompatible Stimulator Cells

T. R. Mosmann and B. M. Longenecker 100 The High Background Immune Reactivity of Mice to Polymorphic Determinants on Xenogeneic Erythrocytes: Theoretical and Practical Implications

Continued on page 5
Continued from page 4

F. M. Brodsky and P. Parham 129 Monomeric Anti-HLA-A,B,C Monoclonal Antibodies Detecting Molecular Subunits and Combinatorial Determinants

M. J. Staruch and D. D. Wood 15 Genetic Influences on the Adjuvanticity of Muramyl Dipeptide in Vivo

I. Lowy, R. Apted, and E. Mozes 190 Analysis of the Fine Antigenic Specificity of the (T,G)-A–L Specific Helper T Cell Continuous Line E-9M(+) 

M. Seto, T. Takahashi, M. Tanimoto, and Y. Nishizuka 201 Production of Monoclonal Antibodies against MM Antigen: The Serologic Identification of MM Antigen with Ly-6.2 Allotagant

M-S. Tsui, R. Storb, P. Weiden, E. Santos, K. J. Kopecky, and E. D. Thomas 239 Sequential Studies of Cell Inhibition of Host Fibroblasts in 51 Patients Given HLA-Identical Marrow Grafts

S. Pan, P. J. Wettstein, and B. B. Knowles 243 H-2Kg Mutations Limit the CTL Response to SV40 TASA

B. L. Hamilton and R. Parkman 376 Kinetics of the Anti-recipient Cytotoxic Cell Response of Mice with Minor Histocompatibility Antigen Host-vs-Host Disease

J. D. Kemp, J. S. Cowdery, A. D. Steinberg, and R. K. Gershon 388 Genetic Control of Autoimmune Disease: Interactions between xid and lpr

H. W. Kunz, T. J. Gill Ill, and D. N. Misra 402 The Identification and Mapping of a Second Class I Locus in the Major Histocompatibility Complex of the Rat

J. L. Press, J. Haber, and H. H. Wortis 441 The H-2 Haplotype of a Thymus Graft Influences the Ir Gene Regulated IgG3, IgG1, IgG2b, and IgG2a Anti-(T,G)-A–L Antibody Responses of High-Responder F1, nude Mice

A. Gilman-Sachs, K. H. Roux, W. J. Hornig, and S. Dray 451 Characterization of Additional Rabbit IgM Allotypes and the Effect of Suppression a VH Locus Allotypes on the Expression of n Ca Locus Allotypes

L. D’Hoostelaere and M. Potter 492 Genetics of the α 1,6-Dextran Response: Expression of the QUPC52 Idiotype in Different Inbred and Congenic Strains of Mice

J. Sharon, L. D’Hoostelaere, M. Potter, E. A. Kabat, and S. L. Morrison 498 A Cross-Reactive Idiotype, QUPC52 idx, Present on Most but Not All Anti-α(1 → 6) Dextran-Specific IgM and IgA Hybridoma Antibodies with Combining Sites of Different Sizes

R. Germain, S. Mayer, and M. Mescher 506 Role of I-Region Gene Products in T Cell Activation. I. Stimulation of T Lymphocyte Proliferative Responses by Subcellular Membrane Preparations Containing Ia Allotagants

IMMUNOPATHOLOGY

G. Camussi, C. Tetta, M. Deregibus, F. Bussolino, G. Segoloni, and A. Vercellone 86 Platelet-Activating Factor (PAF) in Experimentally-Induced Rabbit Acute Serum Sickness: Role of Basophil-Derived PAF in Immune Complex Deposition

J. Bray and D. B. Drachman 105 Binding Affinities of Anti-acetylcholine Receptor Autoantibodies in Myasthenia Gravis


R. P. Schleimer, E. Gillespie, R. Dautia, and L. M. Lichtenstein 136 Release of Histamine from Human Leukocytes Stimulated with the Tumor-Promoting Phorbol Diesters. II. Interaction with Other Stimuli

G. Starkebaum, R. A. H. Jimenez, and W. P. Arend 141 Effect of Immune Complexes on Human Neutrophil Phagocytic Function

R. B. Fritz and A. E. Dejardine 247 Idiotypes of Lewis Rat Antibodies to Encephalitogenic Peptides of Guinea Pig Myelin Basic Protein: in Vitro and in Vivo Studies

J. A. Wolos and J. B. Smith 269 Helper Cells in the Autoaggressive Mixed Lymphocyte Reaction. II. Age-Related Helper Defect for Generation of TNP-Self Cytotoxic Cells in NZB Mice

J. W. Murphy and J. W. Moorhead 276 Regulation of Cell-Mediated Immunity in Cryptococcosis. I. Induction of Specific Afferent T Suppressor Cells by Cryptococcal Antigen

R. S. Beach, M. E. Gershwin, and L. S. Hurley 308 Nutritional Factors and Autoimmunity. II. Prolongation of Survival in Zinc-Deprived NZB/W Mice


C. W. Parker 393 Pharmacologic Modulation of Release of Arachidonic Acid from Human Mononuclear Cells and Lymphocytes by Mitogenic Lectins

F. Fish and M. Ziff 409 The in Vitro and in Vivo Induction of Anti-Double-Stranded DNA Antibodies in Normal and Autoimmune Mice

P. G. Ramsey, T. Martin, E. Chi, and S. J. Klebanoff 415 Arming of Mononuclear Phagocytes by Eosinophil Peroxidase Bound to Staphylococcus aureus

I. N. Montgomery and H. C. Rauch 421 Experimental Allergic Encephalomyelitis (EAE) in Mice: Primary Control of EAE Susceptibility Is Outside the H-2 Complex

D. R. Shaw and F. M. Griffin, Jr. 433 Thioglycolate-Elicited Mouse Peritoneal Macrophages Are Less Efficient Than Resident Macrophages in Antibody-Dependent Cell-Mediated Cytolysis

Continued on page 6
Continued from page 5

MICROBIAL IMMUNOLOGY

B. L. Doughty and S. M. Phillips 30 Delayed Hypersensitivity Granuloma Formation around Schistosoma mansoni Eggs in Vitro. I. Definition of the Model

B. L. Doughty and S. M. Phillips 37 Delayed Hypersensitivity Granuloma Formation and Modulation around Schistosoma mansoni Eggs in Vitro. II. Regulatory T Cell Subsets


L. M. Rose, M. Goldman, and P-H. Lambert 79 Simultaneous Induction of an Idiotype, Corresponding Anti-Idiotypic Antibodies, and Immune Complexes during African Trypanosomiasis in Mice


D. L. Emery, W. I. Morrison, G. Buscher, and R. T. Nelson 195 Generation of Cell-Mediated Cytotoxicity to Theileria Parva (East Coast Fever) after Inoculation of Cattle with Parasitized Lymphoblasts

J. W. Barnwell, R. J. Howard, and L. H. Miller 224 Altered Expression of Plasmodium knowlesi Variant Antigen on the Erythrocyte Membrane in Splenectomized Rhesus Monkeys

D. A. Zarling, J. A. Miskimen, D. P. Fan, E. K. Fujimoto, and P. K. Smith 251 Association of Sendai Virion Envelope and a Mouse Surface Membrane Polypeptide on Newly Infected Cells: Lack of Association with H-2K/D or Alteration of Viral Immunogenicity

G. I. Byrne and C. L. Faubion 469 Lymphokine-Mediated Microbistatic Mechanisms Restrict Chlamydia psittaci Growth in Macrophages

TUMOR IMMUNOLOGY

G. Steele, Jr., P. J. Harte, A. A. Rayner, J. M. Corson, J. Madara, A. E. Munroe, V. P. King, and R. E. Wilson 7 The Effect of Adjuvant Immunotherapy on Tumor Recurrence after Segmental Resection of Carcinogen-Induced Wistar/Furth Primary Bowel Adenocarcinomas

M-C. Dokhelar, U. Testa, W. Vainchenker, Y. Finale, C. Tetaud, P. Salem, and T. Turaz 211 NK Cell Sensitivity of the Leukemic K 562 Cells; Effect of Sodium Butyrate and Hemin Induction

D. R. Lannin, S. Yu, and C. F. McKhann 263 H-2 Restriction of the T Cell Response to Chemically Induced Tumors: Evidence from F₁ → Parent Chimeras

S. E. Loveless, S. R. Wellhausen, D. L. Boros, and G. H. Heppner 284 Tumoricidal Macrophages Isolated from Liver Granulomas of Schistosoma mansoni-Infected Mice

COMMUNICATION

J. D. Tamerius, M. K. Pangburn, and H. J. Müller-Eberhard 512 Selective Inhibition of Functional Sites of Cell-Bound C3b by Hybridoma-Derived Antibodies

F. Kierszenbaum, S. J. Ackerman, and G. J. Gleich 515 Inhibition of Antibody-Dependent Eosinophil-Mediated Cytotoxicity by Heparin

LETTERS TO THE EDITOR

E. L. Jeska and D. T. Bout 518
P. J. Baker 518

Announcements 520

Errata 522

Author Index 523