

Contents

COMMUNICATION

- | | | |
|--|------|---|
| C. R. Scheid, R. O. Webster, P. M. Henson, and S. R. Findlay | 1997 | Direct Effect of Complement Factor C5a on the Contractile State of Isolated Smooth Muscle Cells |
| M. A. Parker and L. W. Schierman | 2000 | Suppression of Humoral Immunity in Chickens Prevents Transient Paralysis Caused by a Herpesvirus |
| D. Y. M. Leung, E. T. Chu, N. Wood, S. Grady, R. Meade, and R. S. Geha | 2002 | Immunoregulatory T Cell Abnormalities in Mucocutaneous Lymph Node Syndrome |
| D. Bellgrau and M. Zoller | 2005 | Cytotoxic T Lymphocyte Responses to Spontaneous Tumors: Immunogenicity Dependent on the Recognition of Processed Tumor Antigens |
| G. Schuler, J. Aübock, and J. Linert | 2008 | Enrichment of Epidermal Langerhans Cells by Immunoabsorption to <i>Staphylococcus aureus</i> Cells |
| J. L. Pace, S. W. Russell, B. A. Torres, H. M. Johnson, and P. W. Gray | 2011 | Recombinant Mouse γ Interferon Induces the Priming Step in Macrophage Activation for Tumor Cell Killing |

CELLULAR IMMUNOLOGY

- | | | |
|---|------|--|
| S. Ono, L. J. Yaffe, J. L. Ryan, and A. Singer | 2014 | Functional Heterogeneity of the Lyb5 ⁺ B Cell Subpopulation: Mutant <i>xid</i> B Cells and Normal Lyb5 ⁺ B Cells Differ in Their Responsiveness to Phenol-Extracted Lipopolysaccharide |
| T. Saito-Taki and M. Nakano | 2022 | Suppression of Lipopolysaccharide-Induced Polyclonal B Cell Activation of Murine Spleen with Heat-Aggregated Murine Immunoglobulin G |
| T. Hamano and R. Asofsky | 2027 | Functional Studies on B Cell Hybridomas with B Cell Surface Antigens. I. Effects of Anti-immunoglobulin Antibodies on Proliferation and Differentiation |
| B. Subbarao and D. E. Mosier | 2033 | Induction of B Lymphocyte Proliferation by Monoclonal Anti-Lyb 2 Antibody |
| S. Jalkanen, K. Granfors, M. Jalkanen, and P. Toivanen | 2038 | Immune Capacity of the Chicken Bursectomized at 60 Hr of Incubation: Surface Immunoglobulin and B-L (Ia-like) Antigen-Bearing Cells |
| M. G. Goodman and W. O. Weigle | 2042 | T Cell-Replacing Activity of C8-Derivatized Guanine Ribonucleosides |
| M. F. Good, A. W. Boyd, and G. J. V. Nossal | 2046 | Analysis of True Anti-hapten Cytotoxic Clones in Limit Dilution Microcultures after Correction for "Anti-self" Activity: Precursor Frequencies, Ly-2 and Thy-1 Phenotype, Specificity, and Statistical Methods |
| A. K. Kimura and H. Wigzel | 2056 | Development and Function of Cytotoxic T Lymphocytes (CTL). I. <i>In Vivo</i> Maturation of CTL Precursors in the Absence of Detectable Proliferation Results as a Normal Consequence of Alloimmunization |
| R. P. Bucy and J. A. Kapp | 2062 | <i>Ir</i> Gene Control of Immune Responses to Insulins. II. Phenotypic Differences in T Cell Activity among Nonresponder Strains of Mice |
| A. B. Peck, R. T. Smith, and M. R. Jadas | 2067 | Heterogeneity of an Anti-H-2 I-A Response as Determined by Cloned T Cell Reactivity |
| P. J. Jensen | 2071 | The Involvement of Antigen-Presenting Cells and Suppressor Cells in the Ultraviolet Radiation-Induced Inhibition of Secondary Cytotoxic T Cell Sensitization |
| M. M. Chan, N. Tada, S. Kimura, M. K. Hoffmann, R. A. Miller, O. Stutman, and U. Hammerling | 2075 | Characterization of T Lymphocyte Subsets With Monoclonal Antibodies: Discovery of a Distinct Marker, Ly-m22, of T Suppressor Cells |
| W. R. Thomas, G. Morahan, and J. F. A. P. Miller | 2079 | Induction of Suppressor T Cells by Monoclonal Anti-idiotypic Antibody in Strains of Mice Not Expressing the Idiotype in Hyperimmune Serum |

Continued on page 4

Continued from page 3

R. E. Cone, R. W. Rosenstein, J. Tite, W. Ptak, and R. K. Gershon	2083	Heterologous Antisera to LYT-1 ⁺ , 2 ⁻ -Derived Antigen-Binding Factor Detect a Subfactor of an Antigen-Specific Suppressor Factor and Cell Surface Proteins on LYT-1 ⁺ , 2 ⁻ and LYT-1 ⁻ , 2 ⁺ T Cells
P. Marrack, B. Skidmore, and J. W. Kappler	2088	Binding of Antigen-Specific, H-2-Restricted T Cell Hybridomas to Antigen-Pulsed Adherent Cell Monolayers
M. J. Bykowsky and R. D. Stout	2093	Cell Interactions in the Induction of Lymphocyte Proliferative Responses: Requirement of Macrophages and aFcR _γ ⁺ T Lymphocytes in the Induction of aFcR _γ ⁻ Lymphocyte Proliferation
R. D. Granstein, W. L. Morison, and M. L. Kripe	2099	The Role of Suppressor Cells in the Induction of Murine Photoallergic Contact Dermatitis and in Its Suppression by Prior UVB Irradiation
M. A. Lett-Brown, E. B. Mitchell, and P. W. Askenase	2104	Sensitization of Circulating Basophils in Guinea Pig Recipients of Passive Transfer of Cutaneous Basophil Hypersensitivity (CBH) with Immune Serum: Antigen-Specific Histamine Release <i>in Vitro</i>
L. A. Cogburn and B. Glick	2109	Functional Lymphocytes in the Chicken Pineal Gland
J. Braun	2113	Spontaneous <i>in Vitro</i> Occurrence and Long-Term Culture of Murine B Lymphoblast Cell Lines

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

A. W. Kusnecov, M. Sivy, M. G. King, A. J. Husband, A. W. Cripps, and R. L. Clancy	2117	Behaviorally Conditioned Suppression of the Immune Response by Antilymphocyte Serum
M. L. Vetter, H. Gewurz, B. Hansen, K. James, and L. L. Baum	2121	Effects of C-Reactive Protein on Human Lymphocyte Responsiveness
S. F. Slovin, R. T. Schooley, and D. A. Thorley-Lawson	2127	Analysis of Cellular Immune Response to EBV by Using Cloned T Cell Lines
B. Perussia, S. Starr, S. Abraham, V. Fanning, and G. Trinchieri	2133	Human Natural Killer Cells Analyzed by B73.1, A Monoclonal Antibody Blocking Fc Receptor Functions. I. Characterization of the Lymphocyte Subset Reactive with B73.1
B. Perussia, O. Acuto, C. Terhorst, J. Faust, R. Lazarus, V. Fanning, and G. Trinchieri	2142	Human Natural Killer Cells Analyzed by B73.1, A Monoclonal Antibody Blocking Fc Receptor Functions. II. Studies of B73.1 Antibody-Antigen Interaction on the Lymphocyte Membrane
T. Si and T. L. Whiteside	2149	Tissue Distribution of Human NK Cells Studied with Anti-Leu-7 Monoclonal Antibody
D. G. Mayernik, A. Ul-Haq, and J. J. Rinehart	2156	Differentiation-Associated Alteration in Human Monocyte-Macrophage Accessory Cell Function
C. L. Park, R. S. Balderas, T. M. Fieser, J. H. Slack, G. J. Prud'homme, F. J. Dixon, and A. N. Theofilopoulos	2161	Isotypic Profiles and Other Fine Characteristics of Immune Responses to Exogenous Thymus-Dependent and -Independent Antigens by Mice with Lupus Syndromes
A. Naji, W. K. Silvers, H. Kimura, D. Bellgrau, J. F. Markmann, and C. F. Barker	2168	Analytical and Functional Studies on the T Cells of Untreated and Immunologically Tolerant Diabetes-Prone BB Rats
M. Zanetti and C. B. Wilson	2173	Characterization of Anti-Tubular Basement Membrane Antibodies in Rats
R. B. Fritz and C.-H. J. Chou	2180	Epitopes of Peptide 43-88 of Guinea Pig Myelin Basic Protein: Localization with Monoclonal Antibodies
C.-H. J. Chou, R. Shapira, and R. B. Fritz	2183	Encephalitogenic Activity of the Small Form of Mouse Myelin Basic Protein in the SJL/J Mouse
B. Fleischer and H. W. Kreth	2187	Clonal Analysis of HLA-Restricted Virus-Specific Cytotoxic T Lymphocytes from Cerebrospinal Fluid in Mumps Meningitis

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

M. J. Staruch and D. D. Wood	2191	The Adjuvanticity of Interleukin 1 <i>in Vivo</i>
D. L. Coleman, R. K. Root, and J. L. Ryan	2195	Enhancement of Macrophage Fc-Dependent Phagocytosis by Resident Thymocytes: Effect of a Unique Heat-Stable Lymphokine
M. A. Palladino, G. E. Ranges, M. P. Scheid, and H. F. Oettgen	2200	Suppression of T Cell Cytotoxicity by Nude Mouse Spleen Cells: Reversal of Monosaccharides and Interleukin 2
J. H. Donohue and S. A. Rosenberg	2203	The Fate of Interleukin 2 after <i>in Vivo</i> Administration
D. D. Eardley	2209	Cloned T Cells with "Co-helper" Activity. I. Biologic Activities of the Clone

Continued on page 5

W. Falk, D. N. Männel, and W. Droge	2214	Activation of Cytotoxic T Lymphocytes Requires at Least Two Spleen Cell-Derived Helper Factors Besides Interleukin 2
K. Nakanishi, M. Howard, A. Muraguchi, J. Farrar, K. Takatsu, T. Hamaoka, and W. E. Paul	2219	Soluble Factors Involved in B Cell Differentiation: Identification of Two Distinct T Cell-Replacing Factors (TRF)
P.-A. Guerne, P.-F. Piguet, and P. Vassali	2225	Positively Selected Lyt-2 ⁺ and Lyt-2 ⁻ Mouse T Lymphocytes Are Comparable, after Con A Stimulation, in Release of IL 2 and of Lymphokines Acting on B Cells, Macrophages, and Mast Cells, but Differ in Interferon Production
B. S. Conta, M. B. Powell, and N. H. Ruddle	2231	Production of Lymphotoxin, IFN- γ and IFN- α , β by Murine T Cell Lines and Clones
R. Korngold, K. J. Blank, and D. M. Murasko	2236	Effect of Interferon on Thoracic Duct Lymphocyte Output: Induction with Either Poly I:Poly C or Vaccinia Virus
T. L. Delovitch, K. Kaufman, and R. M. Gorczyński	2241	<i>In Vitro</i> Analysis of Allogeneic Lymphocyte Interaction. VI. <i>I-J</i> -Restricted Self-Reactive and Alloreactive Components of Allogeneic Effect Factor (AEF) are Distinct <i>I-J</i> ⁻ Molecules That Interact with <i>I-J</i> ⁺ T Cells and Antigen-Presenting Cells
J. S. Bromberg, T. L. Delovitch, K. Kaufman, and M. I. Greene	2250	<i>In Vivo</i> Analysis of Allogeneic Lymphocyte Interaction: Activation of Suppressor T Cells by an <i>I-J</i> -Restricted Allogeneic Effect Factor (AEF)
B. D.-M. Chen, H.-S. Lin, and S. Hsu	2256	Lipopolysaccharide Inhibits the Binding of Colony-Stimulating Factor (CSF-1) to Murine Peritoneal Exudate Macrophages
C. G. Orosz, D. C. Roopenian, and F. H. Bach	2261	Phorbol Myristate Acetate and <i>in Vitro</i> T Lymphocyte Function. II. Influence of PMA and Supernatants from PMA-Treated P388D ₁ Cells on the Proliferation of Cloned T Cells
A. A. Wadee, D. Mendelsohn, and A. R. Rabson	2266	Characterization of a Suppressor Cell-Activating Factor (SCAF) Released by Adherent Cells Treated with <i>M. tuberculosis</i>
A. A. Wadee and A. R. Rabson	2271	Binding of Phosphatidylethanolamine and Phosphatidylinositol to OKT8 ⁺ Lymphocytes Activates Suppressor Cell Activity

IMMUNOCHEMISTRY

J. M. Kupinski, M. L. Plunkett, and J. H. Freed	2277	Assignment of Antigenic Determinants to Separated I-A ^k Chains
P. L. Witte and J. W. Streilein	2282	Monoclonal Antibodies to Hamster Class II MHC Molecules Distinguish T and B Cells
L. H. Glimcher, T. Hamano, R. Asofsky, D. H. Sachs, M. Pierres, L. E. Samelson, S. O. Sharrow, and W. E. Paul	2287	IA Mutant Functional Antigen-Presenting Cell Lines
J. Caraux, B. Chichehian, B. Serrou, and W. O. Weigle	2295	Human Soluble Fc γ -Binding Material. I. Immunochemical Properties of the Material Produced by the T Cell Line KE37
C. Wagener, B. R. Clark, K. J. Rickard, and J. E. Shively	2302	Monoclonal Antibodies for Carcinoembryonic Antigen and Related Antigens as a Model System: Determination of Affinities and Specificities of Monoclonal Antibodies by Using Biotin-Labeled Antibodies and Avidin as Precipitating Agent in a Solution Phase Immunoassay
C. Wagener, Y. H. Joy Yang, F. G. Crawford, and J. E. Shively	2308	Monoclonal Antibodies for Carcinoembryonic Antigen and Related Antigens as a Model System: A Systematic Approach for the Determination of Epitope Specificities of Monoclonal Antibodies

IMMUNOPHARMACOLOGY

J. G. Bender, L. C. McPhail, and D. E. Van Epps	2316	Exposure of Human Neutrophils to Chemotactic Factors Potentiates Activation of the Respiratory Burst Enzyme
K. Cheung, A. C. Archibald, and M. F. Robinson	2324	The Origin of Chemiluminescence Produced by Neutrophils Stimulated by Opsonized Zymosan
D. MacGlashan, Jr. and L. M. Lichtenstein	2330	Studies of Antigen Binding on Human Basophils. I. Antigen Binding and Functional Consequences
D. MacGlashan, Jr., M. Mogowski, and L. M. Lichtenstein	2337	Studies of Antigen Binding on Human Basophils. II. Continued Expression of Antigen-Specific IgE during Antigen-Induced Desensitization
M. Dy and B. Lebel	2343	Skin Allografts Generate an Enhanced Production of Histamine and Histamine-Producing Cell-Stimulating Factor (HCSF) by Spleen Cells in Response to T Cell Mitogens

- | | | |
|--|------|--|
| F. P. van de Wijngaert, L. H. P. M. Rademakers, H.-J. Schuurman, R. A. deWeger, and L. Kater | 2348 | Identification in <i>in Situ</i> Localization of the "Thymic Nurse Cell" in Man |
| M. Maier, J. Spragg, and L. B. Schwartz | 2352 | Inactivation of Human High Molecular Weight Kininogen by Human Mast Cell Tryptase |
| T. Ishizaka, D. H. Conrad, E. S. Schulman, A. R. Sterk, and K. Ishizaka | 2357 | Biochemical Analysis of Initial Triggering Events of IgE-Mediated Histamine Release from Human Lung Mast Cells |

MICROBIAL IMMUNOLOGY

- | | | |
|--|------|--|
| W. J. Britt and B. Chesebro | 2363 | Use of Monoclonal Anti-gp70 Antibodies to Mimic the Effects of the Rfv-3 Gene in Mice with Friend Virus-Induced Leukemia |
| A. Tax, D. Ewert, and L. A. Manson | 2368 | An Antigen Cross-Reactive with gp52 of Mammary Tumor Virus is Expressed on a B Cell Subpopulation of Mice |
| M. A. Wainberg, S. Vydellingum, and Richard G. Margoless | 2372 | Viral Inhibition of Lymphocyte Mitogenesis: Interference with the Synthesis of Functionally Active T Cell Growth Factor (TCGF) Activity and Reversal of Inhibition by the Addition of Same |
| W. Gerhard, C. Hackett, and F. Melchers | 2379 | The Recognition Specificity of a Murine Helper T Cell for Hemagglutinin of Influenza Virus A/PR/8/34 |
| M. A. N. Wabuke-Bunoti and D. P. Fan | 2386 | Isolation and Characterization of a CNBr Cleavage Peptide of Influenza Viral Hemagglutinin Stimulatory for Mouse Cytolytic T Lymphocytes |
| E. DeMaeyer and J. de Maeyer-Guignard | 2392 | Delayed Hypersensitivity to Newcastle Disease Virus in High and Low Interferon-Producing Mice |
| A. L. Cunningham and T. C. Merigan | 2397 | γ Interferon Production Appears to Predict Time of Recurrences of Herpes Labialis |
| R. L. Deem, F. A. Doughty, and B. L. Beaman | 2401 | Immunologically Specific Direct T Lymphocyte-Mediated Killing of <i>Nocardia asteroides</i> |
| L. H. Kasper, J. H. Crabb, and E. R. Pfefferkorn | 2407 | Purification of a Major Membrane Protein of <i>Toxoplasma gondii</i> by Immunoabsorption with a Monoclonal Antibody |
| M. E. Sunday, M. J. Staderker, J. A. Wright, I. Aoki, and M. E. Dorf | 2413 | Induction of Immune Responses by Schistosome Granuloma Macrophages |

MOLECULAR GENETICS

- | | | |
|---|------|---|
| M. J. Rogers, L. R. Gooding, D. H. Margulies, and G. A. Evans | 2418 | Analysis of a Defect in the H-2 Genes of SV40-Transformed C3H Fibroblasts That Do Not Express H-2K ^b |
| P. Basta, H. Kubagawa, J. F. Kearney, and D. E. Briles | 2423 | Ten Percent of Normal B Cells and Plasma Cells Share a V _H Determinant(s) (J606-GAC) with a Distinct Subset of Murine V _H III Plasmacytomas |
| I. Nakamura, K. Nakano, and G. Cudkowicz | 2429 | Target Determinants for F ₁ Hybrid Anti-parental H-2d Cell-Mediated Lympholysis: Self Antigens Controlled by the D End |
| M. Stanislawski and J. Pene | 2434 | A Common V _H Marker Relating BALB/c α 1-3 Dextran-Binding and A/J <i>p</i> -Azophenylarsonate-Binding Antibody Families |

TUMOR IMMUNOLOGY

- | | | |
|---|------|---|
| D. B. Watson, G. F. Burns, and I. R. Mackay | 2442 | <i>In Vitro</i> Growth of B Lymphocytes Infiltrating Human Melanoma Tissue by Transformation with EBV: Evidence for Secretion of Anti-melanoma Antibodies by Some Transformed Cells |
| B. Ehlin-Henriksson, E. A. Clark, V. Jonsson, and G. Klein | 2448 | Studies on the B-Lymphoblast Antigen No. 1 (BB-1) on a Series of Burkitt Lymphoma Lines Differing in the Expression of the EBV/C3 Receptor Complex |
| L. Weiss, S. Morecki, E. S. Vitetta, and S. Slavin | 2452 | Suppression and Elimination of BCL ₁ Leukemia by Allogeneic Bone Marrow Transplantation |
| S. Carrel, A. Schmidt-Kessen, J.-P. Mach, D. Heumann, and C. Girardet | 2456 | Expression of Common Acute Lymphoblastic Leukemia Antigen (Calla) on Human Malignant Melanoma Cell Lines |

R. D. Wortzel, J. L. Urban, C. Phillips, F. W. Fitch, and H. Schreiber	2461	Independent Immunodominant and Immunorecessive Tumor-Specific Antigens on a Malignant Tumor: Antigenic Dissection with Cytolytic T Cell Clones
L. Laroche, M. Papiernik, and J.-F. Bach	2467	Sezary Syndrome. I. Specific Skin-Directed Migration of Peripheral Blood Lymphocytes
L. A. Lampson, C. A. Fisher, and J. P. Whelan	2471	Striking Paucity of HLA-A, B, C and b2-Microglobulin on Human Neuroblastoma Cell Lines
S. C. Wright, M. L. Weitzen, R. Kahle, G. A. Granger, and B. Bonavida	2479	Studies on the Mechanism of Natural Killer Cytotoxicity. II. Coculture of Human PBL with NK-Sensitive or Resistant Cell Lines Stimulates Release of Natural Killer Cytotoxic Factors (NKCF) Selectively Cytotoxic to NK-Sensitive Target Cells
B. Schacter, M. M. Lederman, M. J. LeVine, and J. J. Ellner	2484	Ultraviolet Radiation Inhibits Human Natural Killer Activity and Lymphocyte Proliferation
Announcements	2488	
Author Index	2490	