Contents

COMMUNICATION

C. R. Scheid, R. O. Webster, P. M. Henson, and S. R. Findlay
M. A. Parker and L. W. Schierman
D. Bellgrau and M. Zoller
G. Schuler, J. Aubock, and J. Linert
J. L. Pace, S. W. Russell, B. A. Torres, H. M. Johnson, and P. W. Gray

1997 Direct Effect of Complement Factor C5a on the Contractile State of Isolated Smooth Muscle Cells
2000 Suppression of Humoral Immunity in Chickens Prevents Transient Paralysis Caused by a Herpesvirus
2002 Immunoregulatory T Cell Abnormalities in Mucocutaneous Lymph Node Syndrome
2005 Cytotoxic T Lymphocyte Responses to Spontaneous Tumors: Immunogenicity Dependent on the Recognition of Processed Tumor Antigens

CELLULAR IMMUNOLOGY

S. Ono, L. J. Yaffe, J. L. Ryan, and A. Singer
T. Saito-Taki and M. Nakano
T. Hamano and R. Asofsky
B. Subbarao and D. E. Mosier
S. Jalkanen, K. Granfors, M. Jal- kanen, and P. Toivanen
M. G. Goodman and W. O. Weigle
M. F. Good, A. W. Boyd, and G. J. V. Nossal
A. K. Kimura and H. Wigzel
R. P. Bucy and J. A. Kapp
A. B. Peck, R. T. Smith, and M. R. Jadus
P. J. Jensen
M. M. Chan, N. Tada, S. Kimura, M. K. Hoffmann, R. A. Miller, O. Stutman, and U. Hammerling
W. R. Thomas, G. Morahan, and J. F. A. P. Miller

2014 Functional Heterogeneity of the Lyb5⁺ B Cell Subpopulation: Mutant xid B Cells and Normal Lyb5⁺ B Cells Differ in Their Responsiveness to Phenol-Extracted Lipopolysaccharide
2022 Suppression of Lipopolysaccharide-Induced Polyclonal B Cell Activation of Murine Spleen with Heat-Aggregated Murine Immunoglobulin G
2027 Functional Studies on B Cell Hybridomas with B Cell Surface Antigens. I. Effects of Anti-immunoglobulin Antibodies on Proliferation and Differentiation
2033 Induction of B Lymphocyte Proliferation by Monoclonal Anti-Lyb 2 Antibody
2038 Immune Capacity of the Chicken Bursa at 60 Hr of Incubation: Surface Immunoglobulin and B-L (la-like) Antigen-Bearing Cells
2042 T Cell-Replacing Activity of C8-Derivatized Guanine Ribonucleosides
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
2056 Development and Function of Cytotoxic T Lymphocytes (CTL). I. In Vivo Maturation of CTL Precursors in the Absence of Detectable Proliferation Results as a Normal Consequence of Alloimmunization
2062 Ir Gene Control of Immune Responses to Insulins. II. Phenotypic Differences in T Cell Activity among Nonresponder Strains of Mice
2067 Heterogeneity of an Anti-H-2-I-A Response as Determined by Cloned T Cell Reactivity
2071 The Involvement of Antigen-Presenting Cells and Suppressor Cells in the Ultraviolet Radiation-Induced Inhibition of Secondary Cytotoxic T Cell Sensitization
2075 Characterization of T Lymphocyte Subsets With Monoclonal Antibodies: Discovery of a Distinct Marker, Ly-m22, of T Suppressor Cells
2079 Induction of Suppressor T Cells by Monoclonal Anti-idiotype Antibody in Strains of Mice Not Expressing the Idiotype in Hyperimmune Serum

Continued on page 4
Continued from page 3


A. W. Kusnecov, M. Sivyer, M. G. King, and L. L. Clancy

M. L. Vetter, H. Gewurz, B. Hansen, K. J. James, and L. L. Baum

S. F. Slovin, R. T. Schooley, and D. A. Thorley-Lawson

B. Perussia, S. Starr, S. Abraham, V. Fanning, and G. Trinchieri

B. Perussia, O. Acuto, C. Terhorst, J. Faust, R. Lazurus, V. Fanning, and G. Trinchieri

T. Si and T. L. Whiteside

D. G. Mayernik, A. U-Haqq, and J. J. Rinehart


M. Zanetti and C. B. Wilson

R. B. Fritz and C.-H. J. Chou


B. Fleischer and H. W. Kreth

Heterologous Antiserum 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

Binding of Antigen-Specific, H-2-Restricted T Cell Hybridomas to Antigen-Pulsed Adherent Cell Monolayers

Cell Interactions in the Induction of Lymphocyte Proliferative Responses: Requirement of Macrophages and aFcR, T Lymphocytes in the Induction of aFcR, T Lymphocyte Proliferation

The Role of Suppressor Cells in the Induction of Murine Phototoallergic Contact Dermatitis and in Its Suppression by Prior UVB Irradiation

Sensitization of Circulating Basophils in Guinea Pig Recipients of Passive Transfer of Cutaneous Basophil Hypersensitivity (CBH) with Immune Serum: Antigen-Specific Histamine Release in Vitro

Functional Lymphocytes in the Chicken Pineal Gland

Spontaneous Proliferation of Functional Lymphocytes in the Chicken Pineal Gland

Continued from page 5
Continued from page 4

W. Falk, D. N. Mannel, and W. Droge 2214 Activation of Cytotoxic T Lymphocytes Requires at Least Two Spleen Cell-Derived Helper Factors Besides Interleukin 2


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


J. S. Bromberg, T. L. Delovitch, K. Kaufman, and M. I. Greene 2250 In Vivo Analysis of Allogeneic Lymphocyte Interaction: Activation of Suppressor T Cells by an I-J-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 in Vitro T Lymphocyte Function. II. Influence of PMA and Supernatants from PMA-Treated P388D1 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 M. tuberculosis

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+ Chains

P. L. Witte and J. W. Streilein 2282 Monoclonal Antibodies to Hamster Class II MHC Molecules Distinguish T and B Cells


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


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., 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

Continued on page 6
<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>F. P. van de Wijngaert, L. H. P. M. Rademakers, H.-J. Schuurman, R. A. de Weger, and L. Kater</td>
<td>2348</td>
<td>Identification in in Situ Localization of the &quot;Thymic Nurse Cell&quot; in Man</td>
</tr>
<tr>
<td>M. Maier, J. Spragg, and L. B. Schwartz</td>
<td>2352</td>
<td>Inactivation of Human High Molecular Weight Kininogen by Human Mast Cell Tryptase</td>
</tr>
<tr>
<td>W. J. Britt and B. Chesebro</td>
<td>2363</td>
<td>Use of Monoclonal Anti-gp70 Antibodies to Mimic the Effects of the Rfv-3 Gene in Mice with Friend Virus-Induced Leukemia</td>
</tr>
<tr>
<td>A. Tax, D. Ewert, and L. A. Manson</td>
<td>2368</td>
<td>An Antigen Cross-Reactive with gp52 of Mammary Tumor Virus is Expressed on a B Cell Subpopulation of Mice</td>
</tr>
<tr>
<td>M. A. Wainberg, S. Vydelingum, and Richard G. Margolese</td>
<td>2372</td>
<td>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</td>
</tr>
<tr>
<td>W. Gerhard, C. Hackett, and F. Melchers</td>
<td>2379</td>
<td>The Recognition Specificity of a Murine Helper T Cell for Hemagglutinin of Influenza Virus A/PR/8/34</td>
</tr>
<tr>
<td>M. A. N. Wabuke-Bunoti and D. P. Fan</td>
<td>2386</td>
<td>Isolation and Characterization of a CNBr Cleavage Peptide of Influenza Viral Hemagglutinin Stimulatory for Mouse Cytolytic T Lymphocytes</td>
</tr>
<tr>
<td>A. L. Cunningham and T. C. Merigan</td>
<td>2392</td>
<td>Delayed Hypersensitivity to Newcastle Disease Virus in High and Low Interferon-Producing Mice</td>
</tr>
<tr>
<td>R. L. Deem, F. A. Doughty, and B. L. Beaman</td>
<td>2401</td>
<td>Immunologically Specific Direct T Lymphocyte-Mediated Killing of Nocardia asteroides</td>
</tr>
<tr>
<td>L. H. Kasper, J. H. Crabb, and E. R. Pfefferkorn</td>
<td>2407</td>
<td>Purification of a Major Membrane Protein of Toxoplasma gondii by Immunabsorption with a Monoclonal Antibody</td>
</tr>
<tr>
<td>M. E. Sunday, M. J. Stadecker, J. A. Wright, I. Aoki, and M. E. Dorf</td>
<td>2413</td>
<td>Induction of Immune Responses by Schistosome Granuloma Macrophages</td>
</tr>
<tr>
<td>P. Basta, H. Kubagawa, J. F. Kearney, and D. E. Briles</td>
<td>2423</td>
<td>Ten Percent of Normal B Cells and Plasma Cells Share a V, Determinant(s) (J606-GAC) with a Distinct Subset of Murine V,III Plasmacytomas</td>
</tr>
<tr>
<td>I. Nakamura, K. Nakano, and G. Cudkovicz</td>
<td>2429</td>
<td>Target Determinants for F, Hybrid Anti-parental H-2d Cell-Mediated Lympholysis: Self Antigens Controlled by the D End</td>
</tr>
<tr>
<td>M. Stanislawski and J. Pene</td>
<td>2434</td>
<td>A Common VH Marker Relating BALB/c α1-3 Dextran-Binding and A/J p-Azophenylarsenate-Binding Antibody Families</td>
</tr>
<tr>
<td>L. Weiss, S. Morecki, E. S. Vitetta, and S. Slavin</td>
<td>2452</td>
<td>Suppression and Elimination of BCL1 Leukemia by Allogeneic Bone Marrow Transplantation</td>
</tr>
<tr>
<td>S. Carrel, A. Schmidt-Kessen, J-P. Mach, D. Humann, and C. Girardet</td>
<td>2456</td>
<td>Expression of Common Acute Lymphoblastic Leukemia Antigen (Calla) on Human Malignant Melanoma Cell Lines</td>
</tr>
</tbody>
</table>

Continued on page 7
Continued from page 6

L. Laroche, M. Papiernik, and J.-F. Bach
L. A. Lampson, C. A. Fisher, and J. P. Whelan
S. C. Wright, M. L. Weitzen, R. Kahle, G. A. Granger, and B. Bonavida
B. Schacter, M. M. Lederman, M. J. LeVine, and J. J. Ellner

2461 Independent Immunodominant and Immunorecessive Tumor-Specific Antigens on a Malignant Tumor: Antigenic Dissection with Cytolytic T Cell Clones

2467 Sezary Syndrome. I. Specific Skin-Directed Migration of Peripheral Blood Lymphocytes

2471 Striking Paucity of HLA-A, B, C and b2-Microglobulin on Human Neuroblastoma Cell Lines

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

2484 Ultraviolet Radiation Inhibits Human Natural Killer Activity and Lymphocyte Proliferation

Announcements 2488

Author Index 2490