Contents

COMMUNICATIONS

2165 Phorbol Ester Increases the Level of Interleukin 2 mRNA in Mitogen-Stimulated Human Lymphocytes

2168 Evaluation of Linkage of the Human C3b/C4b Receptor to HLA

D. M. Knowles II, B. Tohidjian, C. Marboe, V. D'Agati, M. Grimes, and L. Chess
2170 Monoclonal Anti-Human Monocyte Antibodies OKM1 and OKM5 Possess Distinctive Tissue Distributions Including Differential Reactivity with Vascular Endothelium

E. Beckmann and D. Levitt
2174 Phosphorylcholine on Streptococcus pneumoniae R36a is Responsible for In Vitro Polyclonal Antibody Secretion by Human Peripheral Blood Lymphocytes

C. C. Fox, A. M. Dvorak, D. W. MacGlashan, Jr., and L. M. Lichtenstein
2177 Histamine-Containing Cells in Human Peritoneal Fluid

A. M. Krensky, E. Robbins, T. A. Springer, and S. J. Burakoff
2180 LFA-1, LFA-2, and LFA-3 Antigens Are Involved in CTL-Target Conjugation

B. A. Woda, M. L. McFadden, R. M. Welsh, and Kathleen M. Bain
2183 Separation and Isolation of Rat Natural Killer (NK) Cells from T Cells with Monoclonal Antibodies

CELLULAR IMMUNOLOGY

V. Duprez, R. Maziarz, O. Weinberger, and S. J. Burakoff
2185 Thymectomized, Irradiated, and Bone Marrow-Reconstituted Chimeras Have Normal Cytolytic T Lymphocyte Precursors but a Defect in Lymphokine Production

A. S. Perelson, C. A. Macken, E. A. Grimm, L. S. Roos, and B. Bonavida
2190 Mechanism of Cell-Mediated Cytotoxicity at the Single Cell Level. VIII. Kinetics of Lysis of Target Cells Bound by More Than One Cytotoxic T Lymphocyte

A. Singer, A. M. Kruisbeck, and P. M. Andrysiak
2199 T Cell-Accessory Cell Interactions that Initiate Allospecific Cytotoxic T Lymphocyte Responses: Existence of IA-Restricted and IA-Unrestricted Cellular Interaction Pathways

R. D. Granstein, A. Tominaga, S. B. Mize, J. A. Parrish, and M. I. Greene
2210 Molecular Signals in Antigen Presentation. II. Activation of Cytolytic Cells In Vitro after Ultraviolet Radiation or Combined Gamma and Ultraviolet Radiation Treatment of Antigen-Presenting Cells

H. Ishikawa, E. Kubota, and K. Saito
2218 Modulation of F1 Cytotoxic Potentials by GvHR: Role and Mode of Action of Non-MHC Genes that Determine the Hybrid Resistance to GvHR-Associated Suppression of F1 Cytotoxic Potential

R. E. Gress and R. J. Hodes
2226 Generation of the Alloreactive T Cell Repertoire: K Region Homology between H-2K B Cell Precursors and T Cell Maturation Environment Is Required for the Generation of the KbmG-Specific Cytotoxic T Cell Repertoire

I. Vucak, A. Juretić, D. Vidočić, Z. A. Nagy, and Jan Klein
2232 Qa-like Genes Defined by CTL Analysis of B10.W Lines

C. Clayberger, R. H. DeKruyff, and H. Cantor
2237 Immunoregulatory Activities of Autoreactive T Cells: An I-A-Specific T Cell Clone Mediates both Help and Suppression of Antibody Responses

Continued on page 4
Continued from page 3

N. Cerf-Bensussan, A. Quaroni, J. T. Kurnick, and A. K. Bhan
B. A. Malynn and H. H. Wortis
P. J. Fink, I. L. Weissman, H. S. Kaplan, and B. A. Kyewski
R. P. Phipps, P. S. Pillai, and D. W. Scott
W. T. Shearer, C. G. Green, P. Patel, and J. J. Langone
T. A. Hamilton, J. E. Weie, and D. 0. Adams
N. E. Goeken
G. C. Koo, J. R. Peppard, and W. H. Mark
J-P Kolb, G. Chaouat, and D. Chassoux

CLINICAL IMMUNOLOGY•IMMUNOPATHOLOGY

D. C. Linch, L. M. Nadler, E. A. Luther, and J. M. Lipton
J. M. Williams, R. Loertscher, T. Cotner, M. Reddish, H. M. Shapiro, C. B. Carpentier, J. L. Strominger, and T. B. Strom
A. Bernard, V. Gay-Bellille, M. Amiot, B. Caillou, P. Charbord, and L. Boumsell
C-F Calvo, L. Boumsell, J-P Kolb, B. Laffy, A. Bernard, and A. Senik
K. B. Elkon and L. Culhan
B. J. Shenker and J. M. Dierienzo
P. Allavena and J. R. Ortaldo
D. A. Horwitz, A. C. Bakke, W. Abo, and K. Nishiya
B. J. Luft and J. S. Remington
T. Abe, T. Takeuchi, M. Kiyo-taki, J. Koide, O. Hosono, M. Homma, T. Otake, and S. Kano
D. Santoli, E. C. Defreitas, M. Sandberg-Wollheim, M. K. Francis, and H. Koprowski

2244 Intraepithelial Lymphocytes Modulate la-Expression by Intestinal Epithelial Cells
2253 Role of Antigen-Specific B Cells in the Induction of SRBC-Specific T Cell Proliferation
2259 Interleukin 2 Administered In Vivo Induces the Growth of Cultured T Cells In Vivo
2266 The Immunocompetence of Murine Stromal Cell-Associated Thymocytes
2273 Conversion of a Tolerogenic to an Immunogenic Signal by P388AD.2 Cells, A Lymphoid Dendritic Cell-Like Tumor Line
2279 IgG-Protein A Complexes Modulate Thymidine Incorporation into DNA of Antibody and Complement-Stimulated Cells
2285 Expression of the Transferrin Receptor in Murine Peritoneal Macrophages Is Modulated in the Different Stages of Activation
2291 Human Suppressor Cell Induction In Vitro: Preferential Activation by Class I MHIC Antigen
2300 Natural Killer Cells Generated from Bone Marrow Culture
2305 Immunoactive Products of Placenta. IV. Suppression of Natural Killing Activity

2311 The Effect of Deoxyguanosine on Human Lymphocyte Function. I. Analysis of the Interference with Lymphocyte Proliferation In Vitro
2318 The Effect of Deoxyguanosine on Human Lymphocyte Function. II. Analysis of the Interference with B Lymphocyte Differentiation In Vitro
2324 Discordant Expression of Human la-Like Antigens on Hematopoietic Progenitor Cells
2330 Dual Parameter Flow Cytometric Analysis of DNA Content, Activation Antigen Expression, and T Cell Subset Proliferation in the Human Mixed Lymphocyte Reaction
2338 A Novel Human Leukocyte Differentiation Antigen: Monoclonal Antibody Anti-D44 Defines a 28 Kd Molecule Present on Immature Hematologic Cells and a Subpopulation of Mature T Cells
2345 Preferential Elimination of NK and CTL Functions by Anti-D44 Monoclonal Antibody
2350 Partial Immunocchemical Characterization of the Ro and La Proteins Using Antibodies from Patients with the SICCA Syndrome and Lupus Erythematosus
2357 Suppression of Human Peripheral Bloody Lymphocytes by Fusobacterium nucleatum
2363 Characteristics of Human NK Clones: Target Specificity and Phenotype
2370 Monocyte and NK Cell Cytotoxic Activity in Human Adherent Cell Preparations: Discriminating Effects of Interferon and Lactoferrin
2375 Effect of Pregnancy on Augmentation of Natural Killer Cell Activity by Corynebacterium parvum and Toxoplasma gondii
2381 Anti-Idiotypic Antibodies in a Patient with Monoclonal Rheumatoid Factor after Pneumococcal Bacteremia
2386 Phenotypic and Functional Characterization of T Cell Clones Derived from the Cerebrospinal Fluid of Multiple Sclerosis Patients

Continued on page 5
Continued from page 4

R. A. Sobel, B. W. Blanchette, A. K. Bhan, and R. B. Colvin
R. A. Sobel, B. W. Blanchette, A. K. Bhan, and R. B. Colvin
F. P. Noonan, C. Bucana, D. N. Sauder, and E. C. De Fabo
K. W. Wegmann and D. J. Hirnichs

H. E. D. Fertsch and H. Maeda, R. Hirata, M. Okumura
A. H. Helin and T. R. J. F. Harris, J. Chin, M. D. Wallach
H. Osawa and T. Diamantstein
M. H. Mansour and E. L. Cooper
F. P. Noonan, C. Bucana, D. N. Sauder, and E. C. De Fabo

The Immunopathology of Experimental Allergic Encephalomyelitis. I. Quantitative Analysis of Inflammatory Cells In Situ
The Immunopathology of Experimental Allergic Encephalomyelitis. II. Endothelial Cell IL-1 Increases prior to Inflammatory Cell Infiltration
Mechanism of Systemic Immune Suppression by UV Irradiation In Vivo. II. The UV Effects on Number and Morphology of Epidermal Langerhans Cells and the UV-Induced Suppression of Contact Hypersensitivity Have Different Wavelength Dependencies
Recipient Contributions to Serial Passive Transfer of Experimental Allergic Encephalomyelitis

CYTOKINES-MEDIATORS-REGULATORY MOLECULES

E. D. Ball, P. M. Guyre, J. M. Glynn, W. F. C. Rigby, and M. W. Fanger
H. W. Schnaper, C. W. Pierce, and T. M. Aune
D. Fertsch and S. N. Vogel
Y. Ito, M. Tsurudome, A. Yamada, and M. Hishiyama
H. Osawa and T. Diamantstein
R. W. Dutton, G. D. Wetzel, and S. L. Swain
H. Helin and T. S. Edgington
D. Wallach
A. E. Postlethwaite, G. N. Smith, C. L. Mainardi, J. M. Seyer, and A. H. Kang

Modulation of Class I HLA Antigens on HL-60 Promyelocytic Leukemia Cells by Serum-Free Medium: Re-induction by γ-IFN and 1,25-dihydroxyvitamin D3 (Calcitriol)
Identification and Initial Characterization of Concanavalin A- and Interferon-Induced Human Suppressor Factors: Evidence for a Human Equivalent of Murine Soluble Immune Response Suppressor (SIRS)
Recombinant Interferons Increase Macrophage Fc Receptor Capacity
Interferon Induction in Mouse Spleen Cells by Mitogenic and Nonmitogenic Lectins
A Rat Monoclonal Antibody that Binds Specifically to Mouse T Lymphoblasts and Inhibits IL 2 Receptor Functions: A Putative Anti-IL-2 Receptor Antibody
Partial Purification and Characterization of a BCGFII from EL4 Culture Supernatants
A Distinct “Slew” Cellular Pathway Involving Soluble Mediators for the T Cell-Induced Suppression of Monocyte Tissue Factor Activity in an Allogeneic Immune Response
Preparations of Lymphotixin Induce Resistance to Their Own Cytotoxic Effect
Lymphocyte Modulation of Fibroblast Function In Vitro: Stimulation and Inhibition of Collagen Production by Different Effector Molecules

IMMUNOCHEMISTRY

H. Maeda, R. Hirata, M. Okumura, A. Thompson, and H. Tohyama
S-T. Ju, S. H. Pincus, J. Kunar, and M. E. Dorf
P. D. Zalewski, L. Valente, and I. J. Forbes
D. Khayat, Z. Dux, R. Anavi, Y. Shlomo, I. P. Witz, and M. Ran
J. F. Harris, J. Chin, M. A. S. Jewett, M. Kennedy, and R. M. Gorczyński
S. J. Ralph and M. V. Berridge
M. H. Mansour and E. L. Cooper
D. L. Ewert, M. S. Munchus, C.-L. H. Chen, and M. D. Cooper
Y. Takata, N. Tamura, and T. Fujita
M. R. Daha, A. M. Deelder, and L. A. van Es
C. M. Farber, L. F. Liebes, D. R. Kanganis, and R. Silber

Two-Dimensional Gel Analysis of a Second Family of Class II Molecules by Polymorphic HLA-DR4.5 and w9 Monoclonal Antibodies
Immunoselection of B Cell Hybridomas with Anti-Idiotypic Antisera to Study the Role of Heavy and Light Chains for Idiotype Expression and Antibody Activity
A Phosphatidylyethanolamine-Containing Complex on Human B Cells that Mediates Rosette Formation with Mouse Erythrocytes
Circulating Cell-free Fcγ2b/γ1 Receptor in Normal Mouse Serum: Its Detection and Specificity
Monoclonal Antibodies against SSEA-1 Antigen: Binding Properties and Inhibition of Human Natural Killer Cell Activity against Target Cells Bearing SSEA-1 Antigen
Expression of Antigens of the 'T200' Family of Glycoproteins on Hemopoietic Stem Cells: Evidence that Thymocyte Cell Lineage Antigens Are Represented on 'T200' Purification and Characterization of Rana pipiens Brain Thy-i Glycoprotein
Analysis of Structural Properties and Cellular Distribution of Avian la Antigen by Using Monoclonal Antibody to Monomorphic Determinants Interaction of C3 with Antigen-Antibody Complexes in the Process of Solubilization of Immune Precipitates
Stabilization of the Amplification Convertase of Complement by Monoclonal Antibodies Directed against Human Factor B
Human B Lymphocytes Show Greater Susceptibility to H2O2 Toxicity than T Lymphocytes

Continued on page 6
### IMMUNOPHARMACOLOGY

<table>
<thead>
<tr>
<th>Authors</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. M. Senior and E. J. Campbell</td>
<td>2547</td>
<td>Cathepsin G in Human Mononuclear Phagocytes: Comparisons between Monocytes and U937 Monocyte-Like Cells</td>
</tr>
<tr>
<td>K. Mehta, M. P. Murtaugh, R. L. Juliano, and P. J. A. Davies</td>
<td>2552</td>
<td>Phagocytosis Inhibits the Expression of Tissue Transglutaminase in Mouse Peritoneal Macrophages</td>
</tr>
<tr>
<td>E. Lotzova, C. A. Savary, A. Khan, and D. A. Stringfellow</td>
<td>2566</td>
<td>Stimulation of Natural Killer Cell Cytotoxicity in Two Random-Bred Strains of Athymic Rats by Interferon-Induced Pyrimidinone</td>
</tr>
<tr>
<td>B. Schlick, K. F. Austen, and L. B. Schwartz</td>
<td>2571</td>
<td>Activation of Rat Serosal Mast Cells by Chymase, an Endogenous Secretory Granule Protease</td>
</tr>
</tbody>
</table>

### MICROBIAL IMMUNOLOGY

<table>
<thead>
<tr>
<th>Authors</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>M. Kawakami, I. Ihara, S. Ihara, A. Suzuki, and K. Fukui</td>
<td>2578</td>
<td>A Group of Bactericidal Factors Conserved by Vertebrates for more than 300 Million Years</td>
</tr>
<tr>
<td>M. Vaara, P. Viljanen, T. Vaara, and P. H. Makela</td>
<td>2582</td>
<td>An Outer Membrane-Disorganizing Peptide PMBN Sensitizes E. Coli Strains to Serum Bactericidal Action</td>
</tr>
<tr>
<td>T. N. Kirkland and E. J. Ziegler</td>
<td>2590</td>
<td>An Immunoprotective Monoclonal Antibody to Lipopolysaccharide Inhibition of Growth of Histoplasma capsulatum by Lymphokine-Stimulated Macrophages</td>
</tr>
<tr>
<td>B. Wu-Hsieh and D. H. Howard</td>
<td>2593</td>
<td>Functional Angiotensin II Receptors on Macrophages from Isolated Liver Granulomas of Murine Schistosoma mansoni</td>
</tr>
<tr>
<td>J. V. Weinstock and J. T. Kasab</td>
<td>2603</td>
<td>Monocyte Suppression of Antigen-Specific Lymphocyte Responses in Diffuse Cutaneous Leishmaniasis Patients from the Dominican Republic</td>
</tr>
<tr>
<td>V. C. W. Tsang, K. Hancock, S. E. Maddison, A. L. Beatty, and D. M. Moss</td>
<td>2607</td>
<td>Demonstration of Species-Specific and Cross-Reactive Components of the Adult Microsomal Antigens from Schistosoma mansoni and S. japonicum (MAMA and JAMA)</td>
</tr>
<tr>
<td>M. Sakamoto, S. Ida, and T. Takishima</td>
<td>2614</td>
<td>Effect of Influenza Virus Infection on Allergic Sensitization to Aerosolized Ovalbumin in Mice</td>
</tr>
<tr>
<td>R. S. Fujinami, E. Norrby, and M. B. A. Oldstone</td>
<td>2618</td>
<td>Antigenic Modulation Induced by Monoclonal Antibodies: Antibodies to Measles Virus Hemagglutinin Alters Expression of Other Viral Polypeptides in Infected Cells</td>
</tr>
<tr>
<td>C. Orvell</td>
<td>2622</td>
<td>The Reactions of Monoclonal Antibodies with Structural Proteins of Mumps Virus</td>
</tr>
</tbody>
</table>

### MOLECULAR GENETICS

<table>
<thead>
<tr>
<th>Authors</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. L. Scott and M. Potter</td>
<td>2630</td>
<td>Polymorphism of CA Genes and Units of Duplication in the Genus Mus</td>
</tr>
<tr>
<td>C. L. Scott and M. Potter</td>
<td>2638</td>
<td>Variations in V Lambda Genes in the Genus Mus</td>
</tr>
</tbody>
</table>

### TUMOR IMMUNOLOGY

<table>
<thead>
<tr>
<th>Authors</th>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. A. Yetter and H. C. Morse III</td>
<td>2644</td>
<td>Cell Surface Antigen Phenotypes of MCF-Induced Thymic Lymphomas in AKR Mice</td>
</tr>
<tr>
<td>G. N. Callahan</td>
<td>2649</td>
<td>Soluble Factors Produced during an Immune Response Regulate Ia Antigen Expression by Murine Adenocarcinoma and Fibrosarcoma Cells</td>
</tr>
<tr>
<td>W. R. Green</td>
<td>2658</td>
<td>Genetic Control of the Induction of Cytolytic T Lymphocyte Responses to AKR/Gross Viral Leukemias. I. H-2-Encoded Dominant Gene Control</td>
</tr>
<tr>
<td>W. R. Green</td>
<td>2665</td>
<td>Genetic Control of the Induction of Cytolytic T Lymphocyte Responses to AKR/Gross Viral Leukemias. II. Negative Control by the Fv-1 Locus in AKR Mice of Responder H-2b Haplotype</td>
</tr>
<tr>
<td>R. I. Fisher, S. E. Bates, F. Bostick-Brunton, N. Tuteja, and V. Diehl</td>
<td>2672</td>
<td>Neoplastic Cells Obtained from Hodgkin's Disease Function as Accessory Cells for Mitogen-Induced Human T Cell Proliferative Responses</td>
</tr>
</tbody>
</table>