CELLULAR IMMUNOLOGY

T. E. Fehniger, O. Martinez-Maza, S. Kanowith-Klein, and R. F. Ashman
568 Analysis of Antigen-Binding Cell Surface Ig Profiles and Ig-Secreting Cells in Mice Carrying the Nu Allele: Immune Regulation Abnormality in Heterozygous Nu/+ Mice

585 Cellular Origin and Interactions Involved in γ-Interferon Production Induced by OKT3 Monoclonal Antibody

M. L. Thoman, and W. O. Weigle
590 Preliminary Chemical and Biologic Characterization of (Fc)TRF: an Fc Fragment-Induced T Cell-Replacing Factor

R. Ceredig, and H. Robson MacDonald
614 Phenotypic and Functional Properties of Murine Thymocytes. II. Quantitation of Host- and Donor-Derived Cytolytic T Lymphocyte Precursors in Regenerating Radiation Bone Marrow Chimeras

Y. Baine, and G. J. Thorbecke
639 Induction and Persistence of Local B Cell Memory in Mice

S. C. Gilman, J. S. Rosenberg, and J. D. Feldman
644 T Lymphocytes of Young and Aged Rats. II. Functional Defects and the Role of Interleukin-2

J. S. Rosenberg, and J. D. Feldman
651 Activation of Rat B Lymphocytes. I. Characterization of Anti-immunoglobulin Responses and Isotype Density of Rat B Cells

J. S. Rosenberg, S. C. Gilman, and J. D. Feldman
656 Activation of Rat B Lymphocytes. II. Functional and Structural Changes in “Aged” Rat B Lymphocytes

Y. Miki, H. Kishi, A. Muraguchi, S. Kishimoto, Y. Yamamura, and T. Kishimoto
675 The Requirement for Esterase Activation in T Cell Replacing Factor (TRF)-Induced IgG Production in a Human B Blastosid Cell Line

S. L. Kaattari, and M. B. Rittenberg
720 Concanavalin A Supernatant Recruits Antigen-Insensitive IgG Memory B Lymphocyte Precursors into an Antigen-Sensitive Precursor Pool

E. Larsson
742 Functional Heterogeneity of Helper T Cells: Two Distinct Helper T Cells Are Required for the Production of T Cell Growth Factor

M. Gullberg, and E-L. Larsson
746 Studies on Induction and Effector Functions of Concanavalin A-Induced Suppressor Cells That Limit TCGF Production

R. C. Bleakley, C. Havelle, and V. Paetkau
758 Cellular and Molecular Properties of an Antigen-Specific Cytotoxic T Lymphocyte Line

I. Lowy, M. Joskowicz, and J. Theze
768 Characterization of Suppressor Cells Regulating in Vitro Expression of IgG2A and IgG2B Antibodies

M. Kramer, and U. Koszinowski
784 T Cell-Specific Suppressor Factor(s) with Regulatory Influence on Interleukin 2 Production and Function

M. Beckwith, and S. S. Rich
791 Suppressor-Target Interaction in Alloantigen-Induced Responses: Induction of a Second Cell in the Suppressive Pathway

P. J. Conlon, C. S. Henney, and S. Gillis
797 Cytokine-Dependent Thymocyte Responses: Characterization of IL 1 and IL 2 Target Subpopulations and Mechanism of Action

R. I. Zuberi, and A. Altman
817 Helper Factor Production in Murine Secondary Syngeneic Mixed Leukocyte Reactions

S. K. Stevens, I. L. Weissman, and E. C. Butcher
844 Differences in the Migration of B and T Lymphocytes: Organ-Selective Localization in Vivo and the Role of Lymphocyte-Endothelial Cell Recognition

M. Miyama-Inaba, T. Suzuki, Y. Paku, and T. Masuda
882 Feedback Regulation of Immune Responses by Immune Complexes; Possible Involvement of a Suppressive Lymphokine by FcRγ-Bearing B Cells

J. Yodoi, M. Adachi, and T. Masuda
888 Induction of FcRγ on Murine Lymphocytes by IgA in Vitro

D. H. Raulet, T. Hünig, and D. C. Parker
908 T Cells Produce TRF in Response to Con A and Factors in T Cell Hybridoma Supernatants

Continued on page 4
Inability of Newborns' or Pregnant Women's Monocytes to Suppress Pikeweed Mitogen-Induced Responses

Lyosomal Enzyme Release from Human Monocytes in Response to Particulate Stimuli

T Cell-Mediated Immunoregulation of Epstein Barr Virus- (EBV) Induced B Lymphocyte Activation in EBV-Seropositive and EBV-Seronegative Individuals

Dextran-Sulfate: A Mitogen for Human T Lymphocytes

Relationship between IL 2 Synthesis and the Proliferative Response to PHA in Different Primary Immunodeficiencies

Immunoglobulin Production in Human Mixed Lymphocyte Cultures: Implications for Co-cultures of Cells from Patients and Healthy Donors

Effect of Interferons on Protein Synthesis in Human Lymphocytes: Enhanced Synthesis of Eight Specific Peptides in T Cells and Activation-Dependent Inhibition of Overall Protein Synthesis

Cellular Interactions of Human T Cell Subsets Defined by Monoclonal Antibodies in Regulating B Cell Differentiation: A Comparative Study in Nocardia Water-Soluble Mitogen- and Pokeweed Mitogen-Stimulated Culture Systems

Tissue Origins of Human Polymeric and Monomeric IgA

A Monoclonal IgMk Macroglobulin with Specificity for Lacto-N-tetraose in a Patient with Bronchogenic Carcinoma

Clonotypes of Anti-Phosphocholine Antibodies Induced with Proteus morganii (Potter). II. Heterogeneity, Class, and Idiotypic Analyses of the Repertoires in BALB/c and A/J HeJ Mice

Guinea Pig Erythrocytes, after Their Contact with Influenza Virus, Acquire the Ability to Activate the Human Alternative Complement Pathway Through Virus-Induced Desialation of the Cells

New Immunoglobulin IgG Allotypes and Haplotypes Found in Wild Mice with Monoclonal Anti-Allotope Antibodies

Analysis of Immunoglobulin mRNA in Murine Myeloma Cell Variants Defective in Immunologic Memory to Phosphorylcholine. II. PC-KLH Induces Two Antibody Populations That Dominate Different Isotypes

The Effect of Specific Antibody on Antibody-Independent Interactions between Membrane-Bound and Secreted IgA Contain Structurally Different α-Chains

Mechanism of Enhanced Complement-Dependent Cytotoxicity of Papain-Treated Lymphocytes: Evidence for Increased Stability of Classical Pathway C3 Convertase

Monoclonal Anti-deoxyribonucleic Antibodies. I. Isotype and Specificity Studies

Continued on page 5
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Idiotypic Analysis of Hybridoma Antibodies to Branched Synthetic Polymer (Tyr, Glu)-Ala-Lys: Idiotypic Relationship with Antibodies to Linear Random Polymer (Glu₃₀, Ala₃₀, Tyr₁₅)</td>
<td>545</td>
</tr>
<tr>
<td>Preferential Response Patterns of Cytotoxic T Lymphocytes Specific for Fluorescein Isothiocyanate-(FITC) Modified Autologous Cells</td>
<td>551</td>
</tr>
<tr>
<td>Expression of T Cell Differentiation Antigens and la on Rat Cytotoxic T Lymphocytes</td>
<td>580</td>
</tr>
<tr>
<td>Immune Response to Phosphorylocholine. I. Characterization of Hybridoma Anti-TEPC15 Antibodies</td>
<td>595</td>
</tr>
<tr>
<td>Genetic Control of Eosinophilia in Mice Gene(s) Expressed in Bone Marrow-Derived Cells Control High Responsiveness</td>
<td>691</td>
</tr>
<tr>
<td>Genetic Control of the Immune Response to Myoglobins. VI. Distinct Ir Genes for Different Myoglobins: Complementing Genes in I-A and H-2D for Equine Myoglobin</td>
<td>737</td>
</tr>
<tr>
<td>Clonal Analysis of B and T Cell Responses to la Antigens. III. Characterization of 12 Xenogeneic Anti-idiotypic Antisera to A.TH-Derived Anti-I-A⁺ and Anti-I-E⁺ Monoclonal Antibodies</td>
<td>751</td>
</tr>
<tr>
<td>Lack of a Macrophage Defect in Presentation of Antigens under Ir Gene Control</td>
<td>780</td>
</tr>
<tr>
<td>Expression of the Major Cross-Reactive Idiotype in a Primary Anti-Azobenzene-sonate Response</td>
<td>802</td>
</tr>
<tr>
<td>Detection of at Least Two Distinct Mouse I-E Antigen Molecules by the Use of a Monoclonal Antibody</td>
<td>807</td>
</tr>
<tr>
<td>Hapten-Coupled Monoclonal Anti-I-A Antibodies Provide a First Signal for the Induction of Suppression</td>
<td>834</td>
</tr>
<tr>
<td>Bone Marrow Transplantation across Major Histocompatibility Barriers in Mice. III. Treatment of Donor Grafts with Monoclonal Antibodies Directed against Lyt Determinants</td>
<td>871</td>
</tr>
<tr>
<td>Recognition of Gₓ-Linked Minor Histocompatibility Antigens by H-2-Restricted Cytotoxic T Lymphocytes from C57BL/6-Gₓ Mice: An Approach to Mapping the Genes Controlling Gₓ</td>
<td>920</td>
</tr>
<tr>
<td>TNF-Modified Syngeneic Cells Enhance Immunoregulatory T Cell Activities Similar to Allogeneic Effects</td>
<td>926</td>
</tr>
<tr>
<td>Identification of Human CML Targets. HLA-B Locus (B12) Antigen Variants Defined by CTL Generated between B Locus-Identical (B12) Responder-Stimulator Pairs</td>
<td>949</td>
</tr>
</tbody>
</table>

**IMMUNOPATHOLOGY**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunosuppressive Effects of Mouse Seminal Plasma Components in Vivo and in Vitro</td>
<td>535</td>
</tr>
<tr>
<td>Endotoxin (LPS) Stimulates in Vitro Migration of Macrophages from LPS-Resistant Mice but Not from LPS-Sensitive Mice</td>
<td>608</td>
</tr>
<tr>
<td>Suppression of Acute Experimental Allergic Encephalomyelitis in Guinea Pigs by Prior Transfer of Suboptimal Numbers of EAE-Effector Cells: Induction of Chronic EAE in Whole Tissue-Sensitized Guinea Pigs</td>
<td>635</td>
</tr>
<tr>
<td>Anti-DNA Autoantibodies in (NZB × NZW)F₁ Mice Are Clonally Heterogeneous, but the Majority Share a Common Idiotypic Type</td>
<td>668</td>
</tr>
<tr>
<td>Antigen-Specific Suppression of Type II Collagen-Induced Arthritis by Collagen-Coupled Spleen Cells</td>
<td>717</td>
</tr>
<tr>
<td>Characterization of the Secretory Activity of Leukotriene B₂ toward Rabbit Neutrophils</td>
<td>811</td>
</tr>
<tr>
<td>Abnormal Anti-Epstein Barr Virus Antibodies in Carriers of the X-linked Lymphoproliferative Syndrome and in Females at Risk</td>
<td>904</td>
</tr>
<tr>
<td>Transfer of Allergic Encephalomyelitis with Spleen Cells from Donors Sensitized with Myelin Basic Protein in Incomplete Freund's Adjuvant</td>
<td>932</td>
</tr>
</tbody>
</table>

Continued on page 6
M. P. Fletcher, B. E. Seligmann, and J. I. Gallin
W. A. Marasco, H. J. Showell, R. J. Freer, and E. L. Becker

Correlation of Human Neutrophil Secretion, Chemoattractant Receptor Mobilization, and Enhanced Functional Capacity

Anti-f Met-Leu-Phe: Similarities in Fine Specificity with the Formyl Peptide Chemotaxis Receptor of the Neutrophil

Anti-idiotype as Antibody against the Formyl Peptide Chemotaxis Receptor of the Neutrophil

MICROBIAL IMMUNOLOGY

D. M. Bentley, and R. E. Morris
N. Isakov, M. Feldman, and S. Segal
M. A. Fletcher, K. E. Caldwell, Z. A. Latif, M. Cayer, and A. Claflin

T Cell Subsets Required for Protection against Age-Dependent Polioencephalomyelitis of C58 Mice

Interaction of Specific and Innate Factors of Immunity: IgA Enhances the Antimicrobial Effect of the Lactoperoxidase System against Streptococcus mutans

The Mechanism of Modulation of Humoral Immune Responses after Infection of Mice with Lactic Dehydrogenase Virus

Imunochemical Studies of Infectious Mononucleosis. VIII. A Glyoprotein from Sheep Erythrocytes with Sialic Acid-Dependent Receptor Properties

TUMOR IMMUNOLOGY

A. Circolo, R. Bianchi, B. Nardelli, P. Rivosecchi-Merletti, and E. Bonmassar
E. Yefenof, Y. Azar, P. Eidelszein, and S. Z. Ben-Sasson
M. I. Greene, L. L. Perry, E. Kinney-Thomas, and T. L. Benjamin
D. Collavo, F. Ronchese, P. Zanovello, G. Biasi, and L. Chieco-Bianchi
T. Yokochi, R. D. Holly, and E. A. Clark
E. B. Walker, L. L. Lanier, and Noel L. Warner
S. M. Friedman, G. S. Thompson, J. P. Halper, and D. M. Knowles
R. C. Seeger, Y. L. Danon, S. A. Rayner, and F. Hoover

Mouse Brain: An Immunologically Privileged Site for Natural Resistance against Lymphoma Cells

Immortalization of Antigen Specific, Helper T Cell Lines by Transformation with the Radiation Leukemia Virus (RadLV)

Specific Thymus-Derived (T) Cell Recognition of Papova Virus-Transformed Cells

T Cell Tolerance in Moloney-Murine Leukemia Virus (M-MuLV) Carrier Mice: Low Cytotoxic T Lymphocyte Precursor Frequency and Absence of Suppressor T Cells in Carrier Mice with Moloney-Murine Sarcoma (M-MSV)-Induced Tumors

B Lymphoblast Antigen (BB-1) Expressed on Epstein-Barr Virus-Activated B Cell Blasts, B Lymphoblastoid Cell Lines, and Burkitt’s Lymphomas

Characterization and Functional Properties of Tumor Cell Lines in Accessory Cell Replacement Assays

Normal and Malignant Human Myelocytic and Monocytic Cells Identified by Monoclonal Antibodies

Rat NK Cells Active against Lymphoma and Sarcoma Tumor Cells Are Probably Identical

OT-CLL: A Human T Cell Chronic Lymphocytic Leukemia That Produces IL 2 in High Titer

Definition of a Thy-1 Determinant on Human Neuroblastoma, Glioma, Sarcoma, and Teratoma Cells with a Monoclonal Antibody

LETTER TO THE EDITOR

Unsigned letter
I. N. Montgomery, C. Brovall, and B. Schacter

Analysis of X-linked Gene Data” and “Reply”

Announcements

Author Index

598
1000