This information is current as of June 7, 2017.

125 (6)

J Immunol 1980; 125:2363-2825;
http://www.jimmunol.org/content/125/6.citation

Subscription  Information about subscribing to The Journal of Immunology is online at: http://jimmunol.org/subscription

Permissions  Submit copyright permission requests at: http://www.aai.org/About/Publications/JI/copyright.html

Email Alerts  Receive free email-alerts when new articles cite this article. Sign up at: http://jimmunol.org/alerts
## Contents

### CELLULAR IMMUNOLOGY

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>M. H. Dietz, M.-S. Sy, M. I. Greene, A. Nisonoff, B. Benacerraf, and R. N. German</td>
<td>2374</td>
</tr>
<tr>
<td>J. T. C. Li and D. W. Scott</td>
<td>2380</td>
</tr>
<tr>
<td>J. T. C. Li and D. W. Scott</td>
<td>2385</td>
</tr>
<tr>
<td>C.-Y. Lawn and S. Leskowitz</td>
<td>2416</td>
</tr>
<tr>
<td>H. A. Stafford and M. W. Fanger</td>
<td>2461</td>
</tr>
<tr>
<td>E. L. Morgan and W. O. Weigle</td>
<td>2467</td>
</tr>
<tr>
<td>R. Dziarski</td>
<td>2478</td>
</tr>
<tr>
<td>R. Sasaki, F. J. Bollum, and I. Goldschneider</td>
<td>2501</td>
</tr>
<tr>
<td>L. S. Manning and M. J. Permely</td>
<td>2508</td>
</tr>
<tr>
<td>P. I. Nadler, R. J. Klingenstein, L. K. Richman, and G. B. Ahmann</td>
<td>2521</td>
</tr>
<tr>
<td>A. Kunkl and G. G. B. Klaus</td>
<td>2526</td>
</tr>
<tr>
<td>H. Wagner, C. Hardt, R. Bartlett, M. Rollinghoff, and K. Pfizenmaier</td>
<td>2532</td>
</tr>
<tr>
<td>S. Gillis, M. Scheld, and J. Watson</td>
<td>2570</td>
</tr>
<tr>
<td>D. Mochizuki, J. Watson, and S. Gillis</td>
<td>2579</td>
</tr>
<tr>
<td>A. D. Befus, N. Johnston, G. A. Leslie, and J. Bienenstock</td>
<td>2626</td>
</tr>
<tr>
<td>K. Takatsu, K. Tanaka, A. Tominaga, Y. Kumahara, and T. Hamacka</td>
<td>2646</td>
</tr>
<tr>
<td>M. Sarmiento, A. L. Glasebrook, and F. W. Fitch</td>
<td>2665</td>
</tr>
<tr>
<td>R. A. Kendall and S. Targan</td>
<td>2770</td>
</tr>
<tr>
<td>L. Varesio, H. T. Holden, and D. Taramelli</td>
<td>2810</td>
</tr>
</tbody>
</table>

Antigen and Receptor-Driven Regulatory Mechanisms. VI. Demonstration of Cross-Reactive Idiotype Determinants on Azobenzenearsonate-Specific Antigen-Binding Suppressor T Cells Producing Soluble Suppressor Factor(s)

Role of Self Carriers in the Immune Response and Tolerance. VI. Induction and Reversal of TNP-Modified Self Unresponsiveness in Vitro

Role of Self Carriers in the Immune Response and Tolerance. VII. Importance of H-2 Antigens in the in Vitro Induction of Tolerance and Suppression to Hapten-Modified Self

Hapten-Specific T Cell Response to Azobenzenearsonate-N-Acetyl-L-Tyrosine in the Lewis Rat. I. Induction and Suppression of Delayed-Type Hypersensitivity and in Vitro Proliferative Responses

Receptors for IgA on Rabbit Lymphocytes. I. Distribution, Specificity, and Modulation

Polyclonal Activation of Murine B Lymphocytes by Fc Fragments. III. Characterization of the Defect in the Ability of the C3H/HeJ Mouse to Respond to Fc Fragments

Polyclonal Activation of Immunoglobulin Secretion in B Lymphocytes induced by Staphylococcal Peptidoglycan

Transient Populations of Terminal Transferase Positive (TdT+) Cells in Juvenile Rats and Mice

Cellular Determinants of Mammary Cell-Mediated Immunity in the Rat. I. The Migration of Radioisotopically Labeled T Lymphocytes

The Murine Kupffer Cell. II. Accessory Cell Function in in Vitro Primary Antibody Responses, Mitogen-Induced Proliferation, and Stimulation of Mixed Lymphocyte Responses.

Selective Effects of Cyclosporin A on Functional B Cell Subsets in the Mouse

Intrathymic Differentiation of Cytotoxic T Lymphocyte (CTL) Precursors. I. The CTL Immunocompetence of Peanut Agglutinin-Positive (Cortical) and Negative (Medullary) Lyt 123 Thymocytes

Thymoma Production of T Cell Growth Factor (Interleukin 2)

Biochemical and Biologic Characterization of Lymphocyte Regulatory Molecules. III. The Isolation and Phenotypic Characterization of Interleukin-2 Producing T Cell Lymphomas

Biochemical and Biologic Characterization of Lymphocyte Regulatory Molecules. IV. Purification of Interleukin 2 from a Murine T Cell Lymphoma

Gut-Associated Lymphoid Tissue in the Chicken. I. Morphology, Ontogeny, and Some Functional Characteristics of Peyer’s Patches

Antigen-Induced T Cell-Replacing Factor (TRF). III. Establishment of T Cell Hybrid Clone Continuously Producing TRF and Functional Analysis of Released TRF

IgG or IgM Monoclonal Antibodies Reactive with Different Determinants on the Molecular Complex Bearing Lyt 2 Antigen Block T Cell-Mediated Cytolysis in the Absence of Complement

The Dual Effect of Prostaglandin (PGE2) and Ethanol on the Natural Killer Cytolytic Process: Effector Activation and NK Cell-Target Cell Conjugate Lytic Inhibition

Mechanism of Lymphocyte Activation. II. Requirements for Macronuclear Synthesis in the Production of Lymphokines

Continued on page 4
Continued from page 3

CLINICAL IMMUNOLOGY


M. Berger, C. H. Kirkpatrick, Paul K. Goldsmith, and J. I. Gallin


V. Raso and T. Griffin

T. Kuritani, T. Kishimoto, A. Muraguchi, and Y. Yamamura

A. Muraguchi, T. Kishimoto, T. Kuritani, and Y. Yamamura

W. H. Greene, L. Colclough, A. Anton, and R. K. Root

D. Bobak and R. Whisler

D. Tartof, I. J. Check, A. Matutis, R. L. Hunter, and F. W. Fitch

Functional Analysis of Human T Cell Subsets Defined by Monoclonal Antibodies. I. Collaborative T-T Interactions in the Immunoregulation of B Cell Differentiation

IgE Antibodies to Staphylococcus aureus and Candida albicans in Patients with the Syndrome of Hyper-IgM with Immunoglobulin E and Recurrent Infections

Alteration of T and Null Lymphocyte Frequencies in the Peripheral Blood of Hyman Opiate Addicts: In Vivo Evidence for Opiate Receptor Sites on T Lymphocytes

Specific Cytotoxicity of a Human Immunoglobulin-Directed Fab'-Ricin A Chain Conjugate

In Vitro Immune Response of Human Peripheral Lymphocytes. VI. Distribution and Characterization of Precursors for PHA- and Protein A-Induced Colony-Forming B Cells

In Vitro Immune Response of Human Peripheral Lymphocytes. VII. Effect of Anti-μ and Anti-δ Antibodies on B Colony Formation and Detection of Abnormal B Cells in Patients with Juvenile Rheumatoid Arthritis

Lectin-Dependent Neutrophil-Mediated Cytotoxicity against Chicken Erythrocytes: A Model of Non-Myeloperoxidase-Mediated Oxygen-Dependent Killing by Human Neutrophils

Human B Lymphocyte Colony Responses. I. General Characteristics and Modulation by Monocytes

Studies on Stimulation of Cell-Mediated Cytotoxicity by Skin Test Antigens. I. Candida Antigen Stimulation of Cell-Mediated Cytotoxicity in Vitro Correlated with the Skin Test Response to Candida Antigen in Vivo

IMMUNOCHEMISTRY

H. R. Petty, D. G. Hafeman, and H. M. McConnell

S. Kai, T. Fujita, I. Gigli, and V. Nussenzweig

K. R. Williams and J. L. Clafin

T. Momoi, H. Wiegandt, R. Arndt, and H.-G. Thiele

P. Erb, A. C. Stern, Ş. Ş. Alkan, S. Studer, E. Zoumbou, and R. H. Gisler

U. Wahn, T. Peters, Jr., and R. P. Siragangan

P. J. Sims and P. K. Lauf

N. Sakaguchi, T. Kishimoto, H. Kikutani, T. Watanabe, N. Yoshida, A. Shimizu, Y. Yamawaki-Katsaoka, T. Honjo, and Y. Yamamura

T. V. Shankey and L. W. Clem

Specific Antibody-Dependent Phagocytosis of Lipid Vesicles by RAW264 Macrophages Results in the Loss of Cell Surface Fc but Not C3b Receptor Activity

Mouse C3b/C4b Inactivator: Purification and Properties

Clonotypes of Anti-phosphocholine Antibodies Induced with Proteus morganii (Potter) I. Structural and Idiotypic Similarities in a Diverse Repertoire

Gangliotetraosyl-Ceramide, the Rat T Lymphocyte-Macrophage-Associated Antigen: Chemical Detection and Cellular Distribution

Characterization of Accessory Cells Required for Helper T Cell Induction in Vitro: Evidence for a Phagocytic, Fc-Receptor, and la-Bearing Cell Type

Studies on the Allergenic Significance and Structure of Rat Serum Albumin

Analysis of Solute Diffusion across the C5b-9 Membrane Lesion of Complement: Evidence That Individual C5b-9 Complexes Do Not Function as Discrete, Uniform Pores

Induction and Regulation of Immunoglobulin Expression in a Murine Pre-B Cell Line, 70Z/3. I. Cell Cycle-Associated Induction of slgM Expression and δ-Chain Synthesis in 70Z/3 Cells by LPS-Stimulation

Phylogeny of Immunoglobulin Structure and Function. IX. Intramolecular Heterogeneity of Shark 19S IgM Antibodies to the Dinitrophenyl Hapten

Continued on page 5
Continued from page 4

<table>
<thead>
<tr>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. L. Anderson and G. N. Abraham</td>
<td>2735</td>
</tr>
<tr>
<td>F. Tron, D. Charron, J.-F. Bach, and N. Talal</td>
<td>2805</td>
</tr>
<tr>
<td>M. D. P. Boyle, A. P. Gee, M. Okada, and T. Borsos</td>
<td>2818</td>
</tr>
</tbody>
</table>

### Immunogenetics and Transplantation

<table>
<thead>
<tr>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. Wolfe and J. L. Claflin</td>
<td>2397</td>
</tr>
<tr>
<td>B. Arden, E. K. Wakeland, and J. Klein</td>
<td>2424</td>
</tr>
<tr>
<td>K. Ozato, T. H. Hansen, and D. H. Sachs</td>
<td>2473</td>
</tr>
<tr>
<td>J. Fung and H. Köhler</td>
<td>2489</td>
</tr>
<tr>
<td>W. Newman, D. Pious, and P. Gladstone</td>
<td>2515</td>
</tr>
<tr>
<td>F. Indiveri, B. S. Wilson, C. Russo, V. Quaranta, M. A. Pellegrino, and S. Perrone</td>
<td>2643</td>
</tr>
<tr>
<td>V. L. Woods, Jr., S. W. Kessler, F. D. Finkelman, R. Lieberman, I. Scher, and W. E. Paul</td>
<td>2673</td>
</tr>
<tr>
<td>V. L. Woods, Jr., I. Scher, R. Lieberman, W. Paul</td>
<td>2708</td>
</tr>
<tr>
<td>D. Meruelo, A. Paolino, N. Flieger, and M. Offer</td>
<td>2713</td>
</tr>
<tr>
<td>F. C. Grumet, D. J. Charron, B. M. Fendly, R. Levy, and D. B. Ness</td>
<td>2785</td>
</tr>
</tbody>
</table>

### Immunopathology

<table>
<thead>
<tr>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>M. Hurme, B. E. Bång, and M. Sihvola</td>
<td>2484</td>
</tr>
<tr>
<td>M. W. Miller, G. M. Shearer, and P. W. J. McAdam</td>
<td>2559</td>
</tr>
<tr>
<td>J. C. Fantone, S. L. Kunkel, P. A. Ward, and R. B. Zurier</td>
<td>2591</td>
</tr>
<tr>
<td>S. J. Betz, G. Z. Lothner, and P. M. Henson</td>
<td>2749</td>
</tr>
<tr>
<td>S. J. Betz and P. M. Henson</td>
<td>2756</td>
</tr>
<tr>
<td>R. D. Diamond, F. Oppenheim, Y. Nakagawa, R. Krzesicki, and C. C. Haedenschild</td>
<td>2797</td>
</tr>
</tbody>
</table>

Clonal Nature of the Immune Response to Phosphocholine. IX. Heterogeneity among Antibodies Bearing M511 Idiotypic Determinants

Structural Comparisons of Serologically Indistinguishable H-2K-Encoded Antigens from Inbred and Wild Mice

Monoclonal Antibodies to Mouse MHC Antigens. II. Antibodies to the H-2L<sup>a</sup> Antigen, the Product of a Third Polymorphic Locus of the Mouse Major Histocompatibility Complex

Mechanism of Neonatal Idiotype Suppression. II. Alterations in the T Cell Compartment Suppress the Maturation of B Cell Precursors

HLA Variants of Human Lymphoblastoid Cell Lines as Targets for Cytotoxic T Cells: Analysis of CTL Reactivity against 2 HLA-DR Variants

Q<sub>a</sub>-I-Associated Antigens. III. Distribution of Q<sub>a</sub>-I Region Antigens on Lymphoid Subpopulations

T Cell Lines with Dual Specificity for Strong Mls and H-2 Determinants

Ia-Like Antigens on Human T Lymphocytes: Relationship to Other Surface Markers, Role in Mixed Lymphocyte Reactions, and Structural Profile

IgD Allotypic Determinants. I. Determinants Expressed on Murine IgD of the a Allotype

IgD Allotypic Determinants. II. Determinants Expressed on IgD of Mice of the b, e, and o Igh-C Haplotypes

Definition of a New T Lymphocyte Cell Surface Antigen, Ly 11.2

Functional Properties of Ly 11.2: A Role for These Cells in Leukemia?

HLA-DR Epitope Region Definition by Use of Monoclonal Antibody Probes

Generation of H-2-Restricted Cytotoxic T Cells by Ultraviolet Light-Treated Trinitrophenyl-Modified Syngeneic Cells: Increased Requirement for Adherent Cells

Loss of Ia-Bearing Splenic Adherent Cells after Whole Body Ultraviolet Irradiation

Suppression of T Cell-Mediated Cytotoxic Responses by Spleen Cells from Mice Rendered Pre-amyloid by a Single Injection of Complete Freund’s Adjuvant and Mycobacterium butyricum

Suppression of Prostaglandin E<sub>1</sub> of Vascular Permeability Induced by Vasoactive Inflammatory Mediators

Generation and Release of Platelet-Activating Factor (PAF) from Prepared Preparations of Rabbit Basophils; Failure of Human Basophils to Release PAF

Production and Release of Platelet-Activating Factor (PAF); Dissociation from Degranulation and Superoxide Production in the Human Neutrophil

Properties of a Product of Candida albicans Hyphae and Pseudohyphae That Inhibits Contact between the Fungi and Human Neutrophils in Vitro

Continued on page 6
TUMOR IMMUNOLOGY


K. Takatsu, T. Hamaoka, A. Tominaga, and Y. Kanamasa 2367 Augmented Induction of Tumor-Specific Resistance by Priming with Mycobacterium tuberculosis (Tbc) and Subsequent Immunization with PPD-Coupled Syngeneic Tumor Cells

J. Fan, A. Ahmed, and B. Bonavida 2444 Studies on the Induction and Expression of T Cell-Mediated Immunity. X. Inhibition by Lyt 2,3 Antiserum of Cytotoxic T Lymphocyte-Mediated Antigen-Specific and Nonspecific Cytotoxicity: Evidence for the Blocking of the Binding between T Lymphocytes and Target Cells and Not the Post-binding Cytolytic Steps

S. Sooe and I. J. Difier 2454 Synergistic Activation by Lymphokines and Muramyl Dipeptide of Tumoricidal Properties in Rat Alveolar Macrophages

W. R. Green 2584 H-2-Restricted Cytolytic T Lymphocytes Specific for a Subclass of AKR Endogenous Leukemia Virus-Induced Tumors: Correlation of Tumor Cell Susceptibility with Expression of the Gross Cell Surface Antigen

M. E. Neville 2604 Human Killer Cells and Natural Killer Cells: Distinct Subpopulations of Fc Receptor-Bearing Lymphocytes

P. Minden, H. L. Mathews, and P. J. Kelleher 2685 Suppression of the Line-10 Guinea Pig Hepatocarcinoma by Antigens Related to Both Mycobacterium bovis (BCG) and the Tumor

C.-C. Ting, D. Rodrigues, and J.-X. Hong 2742 Characterization of the Responding Populations for the Generation of Proliferative Response to Syngeneic Meth A Tumor in BALB/c Mice: Requirement of T and B Cell Collaboration

VIRAL AND MICROBIAL IMMUNOLOGY


A. Fontana and H. L. Weiner 2660 Interaction of Reovirus with Cell Surface Receptors. II. Generation of Suppressor T Cells by the Hemagglutinin of Reovirus Type 3

C. McLaren and B. Pope 2679 Macrophage Dependency of in Vitro B Cell Response to Influenza Virus Antigens


COMMUNICATION

D. M. Knowles, II and J. P. Halper 2823 Human Medullary and Cortical Thymocytes are Distinguishable According to the Presence or Absence of Cytochemically Demonstrable Acid a-Naphthyl Acetate Esterase (ANAE) Activity

Announcements 2826
Author Index 2830
Ad Hoc Reviewers 2832
Author Index to Volume 125 2834
Subject Index to Volume 125 2841