



119 (3)

J Immunol 1977; 119:789-1192; ;
<http://www.jimmunol.org/content/119/3.citation>

This information is current as
of October 26, 2021.

Why *The JI*? [Submit online.](#)

- **Rapid Reviews! 30 days*** from submission to initial decision
- **No Triage!** Every submission reviewed by practicing scientists
- **Fast Publication!** 4 weeks from acceptance to publication

**average*

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>

The Journal of Immunology is published twice each month by
The American Association of Immunologists, Inc.,
1451 Rockville Pike, Suite 650, Rockville, MD 20852
All rights reserved.
Print ISSN: 0022-1767 Online ISSN: 1550-6606.



Contents

CELLULAR IMMUNOLOGY

- | | | |
|--|------|---|
| L. W. Klassen, R. S. Krakauer, and A. D. Steinberg | 830 | Selective Loss of Suppressor Cell Function in New Zealand Mice Induced by NTA |
| S. Frank, S. Spector, A. Nowotny, and H. Friedman | 855 | Immunocyte Stimulation <i>in Vitro</i> by Nontoxic Bacterial Lipopolysaccharide Derivatives |
| E. R. Unanue and J.-M. Kiely | 925 | Synthesis and Secretion of a Mitogenic Protein by Macrophages: Description of a Superinduction Phenomenon |
| R. J. Hodes, L. M. Nadler, and K. S. Hathcock | 961 | Regulatory Mechanisms in Cell-Mediated Immune Responses. III. Antigen-Specific and Nonspecific Suppressor Activities Generated during MLC |
| A. Yaron, E. K. Dunham, P. P. Stashenko, A. Campos-Neto, H. Levine, and S. F. Schlossman | 968 | Immune Ascites in the Guinea Pig: Specificity of Cells and Antibody in an Induced Peritoneal Exudate |
| E. J. Moticka | 987 | The Presence of Immunoregulatory Cells in Chicken Thymus: Function in B and T Cell Responses |
| M. Venkataraman, M. Aldo-Benson, Y. Borel, and D. W. Scott | 1006 | Persistence of Antigen-Binding Cells with Surface Tolerogen: Isologous <i>versus</i> Heterologous Immunoglobulin Carriers |
| D. H. Zimmerman, S. Gregory, and M. Kern | 1018 | Differentiation of Lymphoid Cells: The Preferential Binding of the Lipid A Moiety of Lipopolysaccharide to B Lymphocyte Populations |
| D. L. Nelson, D. H. Sachs, and H. B. Dickler | 1034 | Antibody-Dependent Cellular Cytotoxicity Effector Cells Lack Ia Antigens |
| E. A. Grimm and B. Bonavida | 1041 | Studies on the Induction and Expression of T Cell-Mediated Immunity. VI. Heterogeneity of Lytic Efficiency Exhibited by Isolated Cytotoxic T Lymphocytes Prepared from Highly Enriched Populations of Effector-Target Conjugates |
| G. Corradin, H. M. Etlinger, and J. M. Chiller | 1048 | Lymphocyte Specificity to Protein Antigens. I. Characterization of the Antigen Induced <i>in Vitro</i> T Cell-Dependent Proliferative Response with Lymph Node Cells from Primed Mice |
| M. Davis-Miller and R. L. Bratcher | 1115 | Altered Humoral Immune Response to Sheep Red Blood Cells by Sheep Erythrocyte-Soluble Hemolysate |
| N. H. Sigal | 1129 | The Frequency of <i>p</i> -Azophenylarsonate and Dimethylaminonaphthalene-Sulfonyl-Specific B Cells in Neonatal and Adult BALB/c Mice |
| U. C. I. Persson, L. L. G. Hammarström, and C. I. E. Smith | 1138 | Macrophages Are Required for the Dextran-Sulfate Induced Activation of B Lymphocytes |
| R. B. Markham, P. W. Stashak, B. Prescott, D. F. Amsbaugh, and P. J. Baker | 1159 | Sensitivity of Amplifier T Cells Involved in the Antibody Response to Type III Pneumococcal Polysaccharide to Anti-lymphocyte Serum |
| R. B. Markham, N. D. Reed, P. W. Stashak, B. Prescott, D. F. Amsbaugh, and P. J. Baker | 1163 | Effect of Concanavalin A on Lymphocyte Interactions Involved in the Antibody Response to Type III Pneumococcal Polysaccharide. II. Ability of Suppressor T Cells to Act on Both B Cells and Amplifier T Cells to Limit the Magnitude of the Antibody Response |

CLINICAL IMMUNOLOGY

- | | | |
|---|------|--|
| E. Pearlstein, I. Turesson, L. Tejler, and A. O. Grubb | 824 | Expression of Protein HC on the Plasma Membrane of Different Human Cell Types |
| B. Charpentier, R. D. Guttmann, J. Shuster, and P. Gold | 897 | Augmentation of Proliferation of Human Mixed Lymphocyte Culture by Human α -Fetoprotein |
| J. D. Stobo | 918 | Immunosuppression in Man: Suppression by Macrophages Can Be Mediated by Interactions with Regulatory T Cells |
| M. Akizuki, M. J. Boehm-Truitt, S. S. Kassan, A. D. Steinberg, and T. M. Chused | 932 | Purification of an Acidic Nuclear Protein Antigen and Demonstration of Its Antibodies in Subsets of Patients with Sicca Syndrome |
| A. R. E. Anwar and A. B. Kay | 976 | Membrane Receptors for IgG and Complement (C4, C3b, and C3d on Human Eosinophils and Neutrophils and Their Relation to Eosinophilia |
| H. K. Ziegler and C. S. Henney | 1010 | Studies on the Cytotoxic Activity of Human Lymphocytes. II. Interactions between IgG and Fc Receptors Leading to Inhibition of K Cell Function |

E. L. Alexander and S. K. Sanders	1084	F(ab') ₂ Reagents Are Not Required if Goat, Rather than Rabbit, Antibodies Are Used to Detect Human Surface Immunoglobulin
A. Astaldi, G. C. B. Astaldi, P. Wijermans, M. Groenewoud, P. Th. A. Schellekens, and V. P. Eijssvoegel	1106	Thymosin-Induced Human Serum Factor Increasing Cyclic AMP
L. B. Olding, R. A. Murgita, and H. Wigzell	1109	Mitogen-Stimulated Lymphoid Cells from Human Newborns Suppress the Proliferation of Maternal Lymphocytes across A Cell-Impermeable Membrane
G. W. Hunninghake and A. S. Fauci	1122	Lymphocyte-Mediated Cytotoxicity against Human Allogeneic and Autologous Lymphoid Targets after Concanavalin A-Activation of Cytotoxic Effector Cells
T. Sakane and I. Green	1169	Human Suppressor T Cells Induced by Concanavalin A: Suppressor T Cells Belong to Distinctive T Cell Subclasses

IMMUNOCHEMISTRY

M. R. Daha, K. F. Austen, and D. T. Fearon	812	The Incorporation of C3 Nephritic Factor (C3NeF) into a Stabilized C3 Convertase, C3bBb(C3NeF), and Its Release after Decay of Convertase Function
J. E. Hopper and E. Brahn	847	Structural Evidence for an Unblocked V _{H1} Sub-subgroup of Human Heavy Chains
B. N. Manjula, E. B. Mushinski, and C. P. J. Glaudemans	867	The Formation of Active Hybrid Immunoglobulins from the Heavy and Light Chains of $\beta(1,6)$ D-Galactan Binding Murine Myeloma IgA's S10 and J539
T. F. Lint, C. L. Behrends, and H. Gewurz	883	Serum Lipoproteins and C567-INH Activity
W. T. Shearer and J. A. Crouch	911	Humoral Immunostimulation. VIII. Increased Incorporation of Phosphate and Turnover of Phosphatidylinositol in Cells Treated with Antibody
J. D. Capra, A. S. Tung, and A. Nisonoff	993	Structural Studies on Induced Antibodies with Defined Idiotypic Specificities. V. The Complete Amino Acid Sequence of the Light Chain Variable Regions of Anti-p-Azophenylarsenate Antibodies from A/J Mice Bearing a Cross-Reactive Idiotype
M. Klein, C. Neauport-Sautes, J. R. Ellerson, and W. H. Fridman	1077	Binding Site of Human IgG Subclasses and Their Domains for Fc Receptors of Activated Murine T Cells

IMMUNOGENETICS AND TRANSPLANTATION

W. P. Thorpe, G. A. Parker, and S. A. Rosenberg	818	Expression of Fetal Antigens by Normal Human Skin Cells Grown in Tissue Culture
C.-H. Lai and P. H. Maurer	842	Immune Responses of Inbred Guinea Pigs to the Sequential Polymer Poly(L-Tyr-L-Glu-L-Ala-Gly): Studies with the Oligomers of the Polymers
C.-H. Lai, P. H. Maurer, and E. M. Shevach	906	Immune Responses of Outbred Guinea Pigs to the Sequential Polymer Poly(L-Tyr-L-Glu-L-Ala-Gly): Association of Response to Strain 13 Histocompatibility Locus
N. K. V. Cheung, M. E. Dorf, and B. Benacerraf	901	Development of a Hemolytic Plaque Assay for Glutamic Acid, Lysine-Containing Polypeptides: Demonstration that Nonresponder Mice Produce Antibodies to These Peptides when Conjugated to an Immunogenic Carrier
J. A. Sogn, P. D. Hooke, S. M. Freedman, and T. J. Kindt	1024	Antibody Avidity and Allelic Selection for L Chain Allotypes in Rabbits Hyperimmunized with Streptococcal Vaccine
S. L. Swain and R. W. Dutton	1179	Negative Allogeneic Effects <i>in Vitro</i> . II. Mapping of Histocompatibility Differences Leading to Allosuppression

IMMUNOPATHOLOGY

H. J. Showell, P. H. Naccache, R. I. Sha'afi, and E. L. Becker	804	The Effects of Extracellular K ⁺ , Na ⁺ , and Ca ⁺⁺ on Lysosomal Enzyme Secretion from Polymorphonuclear Leukocytes
B. A. Fiedel, R. M. Simpson, and H. Gewurz	877	Effects of C-Reactive Protein on Platelet Function. III. The Role of cAMP, Contractile Elements, and Prostaglandin Metabolism in CRP-Induced Inhibition of Platelet Aggregation and Secretion
D. G. Wright and J. I. Gallin	1068	A Functional Differentiation of Human Neutrophil Granules: Generation of C5a by a Specific (Secondary) Granule Product and Inactivation of C5a by Azurophil (Primary) Granule Products
H. S. Panitch and D. E. McFarlin	1134	Experimental Allergic Encephalomyelitis: Enhancement of Cell-Mediated Transfer by Concanavalin A

Continued on page 4

TUMOR IMMUNOLOGY

- | | | |
|---|------|--|
| S. I. Schlager, S. H. Ohanian, and T. Borsos | 789 | Metabolic Requirements for Hormone-Induced Resistance to Antibody-Complement-Mediated Killing of Tumor Cells |
| B. S. Zwilling and L. B. Campolito | 838 | Destruction of Tumor Cells by BCG-Activated Alveolar Macrophages |
| J. W. Rohrer, K. Vasa, and R. G. Lynch | 861 | Myeloma Cell Immunoglobulin Expression during <i>in Vivo</i> Growth in Diffusion Chambers: Evidence for Repetitive Cycles of Differentiation |
| L. P. Ruco and M. S. Meltzer | 889 | Macrophage Activation for Tumor Cytotoxicity: Induction of Tumoricidal Macrophages by Supernatants of PPD-Stimulated Bacillus Calmette-Guérin-Immune Spleen Cell Cultures |
| H. Kano, A. Fjelde, and F. Milgrom | 945 | Paul-Bunnell Antigen in Lymphoma and Leukemia Splens |
| P. Ralph and I. Nakoinz | 950 | Antibody-Dependent Killing of Erythrocyte and Tumor Targets by Macrophage Related Cell Lines: Enhancement by PPD and LPS |
| A. J. Treves, M. Feldman, and H. S. Kaplan | 955 | <i>In Vitro</i> Sensitization of Human Lymphocytes against Histocytic Lymphoma Cell Lines: I. Primary Sensitization of Lymphocyte Subpopulations |
| H. Fuji, E. Mihich, and D. Pressman | 983 | Differential Tumor Immunogenicity of L1210 and Its Sublines. I. Effect of an Increased Antigen Density on Tumor Cell Surfaces on Primary B Cell Responses <i>in Vitro</i> |
| J. S. Haskill, L. A. Radov, J. W. Fett, and E. Parthenais | 1000 | The Antibody Response to the T1699 Murine Adenocarcinoma: Antibody Class and Subclass Heterogeneity Detected in Serum and <i>in Situ</i> |
| W. Liang and E. P. Cohen | 1054 | Activation of Specific Cellular Immunity toward Murine Leukemia in Mice Rejecting Syngeneic Somatic Hybrid Cells |
| M. Troye, P. Perlmann, G. R. Pape, H. L. Spiegelberg, I. Näslund, and A. Gidlöf | 1061 | The Use of Fab Fragments of Anti-human Immunoglobulin as Analytic Tools for Establishing the Involvement of Immunoglobulin in the Spontaneous Cytotoxicity to Cultured Tumor Cells by Lymphocytes from Patients with Bladder Carcinoma and from Healthy Donors |
| C. J. Peters and A. N. Theofilopoulos | 1089 | Antibody-Dependent Cellular Cytotoxicity against Murine Leukemia Viral Antigens: Studies with Human Lymphoblastoid Cell Lines and Human Peripheral Lymphocytes as Effector Cells Comparing Rabbit, Goat, and Mouse Antisera |
| D. E. Tracey, S. A. Wolfe, J. M. Durdik, and C. S. Henney | 1145 | BCG-Induced Murine Effector Cells. I. Cytolytic Activity in Peritoneal Exudates: An Early Response to BCG |
| S. A. Wolfe, D. E. Tracey, and C. S. Henney | 1152 | BCG-Induced Murine Effector Cells. II. Characterization of Natural Killer Cells in Peritoneal Exudates |

VIRAL AND MICROBIAL IMMUNOLOGY

- | | | |
|--|------|---|
| S.-P. Wang, K. K. Holmes, J. S. Knapp, S. Ott, and D. D. Kyzer | 795 | Immunologic Classification of <i>Neisseria gonorrhoeae</i> with Micro-immunofluorescence |
| L. Cicurel and C. M. Croce | 850 | Antibody Response to Simian Virus 40 Tumor Antigen in Nude Mice Reconstituted with T Cells |
| D. D. Porter, A. E. Larsen, and H. G. Porter | 872 | Reduced Severity of Lesions in Mink Infected Transplacentally with Aleutian Disease Virus |
| K. Pfizenmaier, H. Jung, A. Starzinski-Powitz, M. Röllinghoff, and H. Wagner | 939 | The Role of T Cells in Anti-Herpes Simplex Virus Immunity. I. Induction of Antigen-Specific Cytotoxic T Lymphocytes |
| D. D. Eardley and A. N. Jayawardena | 1029 | Suppressor Cells in Mice Infected with <i>Trypanosoma brucei</i> |
| J. Cerny, K. D. Greenwich, and R. A. Stiller | 1097 | Immunosuppression by Spleen Cells from Moloney Leukemia. III. Evidence for a Suppressor Cell That Is Not the Leukemic, Virus-Producing Cell |
| R. Clancy, W. E. Rawls, and S. Jagannath | 1102 | Appearance of Cytotoxic Cells within the Bronchus after Local Infection with Herpes Simplex Virus |

COMMUNICATION

- | | | |
|-------------------------------------|------|---|
| D. E. VanEpps and K. S. K. Tung | 1187 | Fucose-Binding <i>Lotus tetragonolobus</i> Lectin Binds to Human Polymorphonuclear Leukocytes and Induces a Chemotactic Response |
| J. Kettman, J. Klein, and J. Forman | 1189 | Immunogenetic Analysis of <i>H-2</i> Mutations. VII. Cells Responding to <i>H-2K^b</i> Gene Products Give Rise to an Allogeneic Supernatant |