



142 (9)

J Immunol 1989; 142:2971-3350; ;
<http://www.jimmunol.org/content/142/9.citation>

This information is current as
of October 19, 2019.

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

- K. Abdi, M. L. Reed, S. J. Mentzer, and S. H. Herrmann 2971 Temperature Requirements and Kinetics of T Cell Signaling: Velocity of Triggering Correlates with Functional Effects of Anti-CD3 mAb
- K. A. Denis, L. K. Timson, and O. N. Witte 2981 V_H Repertoire in Progeny of Long Term Lymphoid-Cultured Cells Used to Reconstitute Immunodeficient Mice
- S. M. Denning, J. Kurtzberg, D. S. Leslie, and B. F. Haynes 2988 Human Postnatal CD4⁻ CB8⁻ CD3⁻ Thymic T Cell Precursors Differentiate In Vitro into T Cell Receptor δ-Bearing Cells
- P. Duplay, D. Lancki, and J. P. Allison 2998 Distribution and Ontogeny of CD2 Expression by Murine T Cells
- T. H. Finkel, P. Marrack, J. W. Kappler, R. T. Kubo, and J. C. Cambier 3006 αβT Cell Receptor and CD3 Transduce Different Signals in Immature T Cells. Implications for Selection and Tolerance
- H. Groux, S. Huet, F. Aubrit, H. C. Tran, L. Boumsell, and A. Bernard 3013 A 19-kDa Human Erythrocyte Molecule H19 is Involved in Rosettes, Present on Nucleated Cells, and Required for T Cell Activation. Comparison of the Roles of H19 and LFA-3 Molecules in T Cell Activation
- B. Kahn-Perles, C. Barra, J. Jehan, D. Fourel, M. Barad, J. L. Maryanski, and F. A. LeMonnier 3021 Cytotoxic T Lymphocyte Recognition of Secreted HLA Class I Molecules
- A. Kosugi, S. O. Sharow, and G. M. Shearer 3026 Effect of Cyclosporin A on Lymphopoiesis. I. Absence of Mature T Cells in Thymus and Periphery of Bone Marrow Transplanted Mice Treated with Cyclosporin A
- A. M. Pullen, P. Marrack, and J. W. Kappler 3033 Evidence that M1s-2 Antigens which Delete V β 3⁺ T Cells are Controlled by Multiple Genes
- S. Takada, J. Koide, and E. G. Engleman 3038 Differences in Surface Phenotype between Cytolytic and Non-Cytolytic CD4⁺ T Cells. MHC Class II-Specific Cytotoxic T Lymphocytes Lack Leu 8 Antigen and Express CD2 in High Density

CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

- R. P. Bucy, C.-L. H. Chen, and M. D. Cooper 3045 Tissue Localization and CD8 Accessory Molecule Expression of T γ δ Cells in Humans
- G. S. Kansas, G. S. Wood, and M. O. Dailey 3050 A Family of Cell-Surface Glycoproteins Defined by a Putative Anti-Endothelial Cell Receptor Antibody in Man
- G. S. Kansas and M. O. Dailey 3058 Expression of Adhesion Structures during B Cell Development in Man
- L. J. Nell, C. Hulbert, and J. W. Thomas 3063 Human Insulin Autoantibody Fine Specificity and H and L Chain Use
- S. H. Pincus, K. Wehrly, and B. Chesebro 3070 Treatment of HIV Tissue Culture Infection with Monoclonal Antibody-Ricin A Chain Conjugates
- E. Raz, M. Brezis, E. Rosenmann, and D. Eilat 3076 Anti-DNA Antibodies Bind Directly to Renal Antigens and Induce Kidney Dysfunction in the Isolated Perfused Rat Kidney
- N. I. Tomosugi, S. J. Cashman, H. Hay, C. D. Pusey, D. J. Evans, A. Shaw, and A. J. Rees 3083 Modulation of Antibody-Mediated Glomerular Injury In Vivo by Bacterial Lipopolysaccharide, Tumor Necrosis Factor, and IL-1
- K. J. Weinhold, H. K. Lyerly, S. D. Stanley, A. A. Austin, T. J. Matthews, and D. P. Bolognesi 3091 HIV-1 GP120-Mediated Immune Suppression and Lymphocyte Destruction in the Absence of Viral Infection

Continued on page 4

CYTOKINES • MEDIATORS • REGULATORY MOLECULES

- D. M. Butler, T. Leizer, and J. A. Hamilton 3098 Stimulation of Human Synovial Fibroblast DNA Synthesis by Platelet-Derived Growth Factor and Fibroblast Growth Factor. Differences to the Activation of IL-1
- S. Hirohata, L. S. Davis, and P. E. Lipsky 3104 Role of IL-2 in the Generation of CD4⁺ Suppressors of Human B Cell Responsiveness
- D. Lj. Jankovic, M. Gibert, D. Baran, J. Ohara, W. E. Paul, and J. Theze 3113 Activation by IL-2, but not IL-4, Up-Regulates the Expression of the p55 Subunit of the IL-2 Receptor on IL-2 and IL-4-Dependent T Cell Lines
- J. W. Lowenthal, D. W. Ballard, H. Bogerd, E. Böhlein, and W. C. Greene 3121 Tumor Necrosis Factor- α Activation of the IL-2 Receptor- α Gene Involves the Induction of κ B-Specific DNA Binding Proteins
- S. G. Reed, D. L. Pihl, P. J. Conlon, and K. H. Grabstein 3129 IL-1 As Adjuvant. Role of T Cells in the Augmentation of Specific Antibody Production by Recombinant Human IL-1 α
- S. S. Tabibzadeh, U. Santhanam, P. B. Sehgal, and L. T. May 3134 Cytokine-Induced Production of IFN- β_2 /IL-6 by Freshly Explanted Human Endometrial Stromal Cells. Modulation by Estradiol-17 β

IMMUNOCHEMISTRY

- D. J. Birmingham and F. G. Cossio 3140 Characterization of the Baboon Erythrocyte C3b-Binding Protein
- M. Brüggemann, C. Teale, M. Clark, C. Bindon, and H. Waldmann 3145 A Matched Set of Rat/Mouse Chimeric Antibodies. Identification and Biological Properties of Rat H Chain Constant Regions μ , $\gamma 1$, $\gamma 2a$, $\gamma 2b$, $\gamma 2c$, ϵ , and α
- H. Fischer, M. Dohlsten, M. Lindvall, H.-O. Sjögren, and R. Carlsson 3151 Binding of Staphylococcal Enterotoxin A to HLA-DR on B Cell Lines
- F. R. Goñi, P. P. Chen, D. McGinnis, M. L. Arjonilla, J. Fernandez, D. Carson, A. Solomon, E. Mendez, and B. Frangione 3158 Structural and Idiotypic Characterization of the L Chains of Human IgM Autoantibodies with Different Specificities
- K. A. Joiner and J. E. Schweineke 3164 Halogenation and Proteolysis of Complement Component C3 on *Salmonella typhimurium* during Phagocytosis by Human Neutrophils

IMMUNOPHARMACOLOGY

- J.-C. Ameisen, R. Meade, and P. W. Askonas 3171 A New Interpretation of the Involvement of Serotonin in Delayed-Type Hypersensitivity. Serotonin-2 Receptor Antagonists Inhibit Contact Sensitivity by an Effect on T Cells
- B. S. Bochner, D. W. MacGlashan, Jr., G. V. Marcotte, and R. P. Schleimer 3180 IgE-Dependent Regulation of Human Basophil Adherence to Vascular Endothelium
- C. Marquez, M. L. Toribio, M. A. R. Marcos, A. de la Hera, A. Barcena, L. Pezzi, and C. Martinez-A 3187 Expression of Alkaline Phosphatase in Murine B Lymphocytes. Correlation with B Cell Differentiation into Ig Secretion
- S. Nourshargh, M. Rampart, P. G. Hellewell, P. J. Jose, J. M. Harlan, A. J. Edwards, and T. J. Williams 3193 Accumulation of ^{111}In -Neutrophils in Rabbit Skin in Allergic and Non-Allergic Inflammatory Reactions In Vivo. Inhibition by Neutrophil Pre-treatment In Vitro with a Monoclonal Antibody Recognizing the CD18 Antigen
- J. Richter, T. Andersson, and I. Olsson 3199 Effect of Tumor Necrosis Factor and Granulocyte/Macrophage Colony-Stimulating Factor on Neutrophil Degranulation

- B. D. Volpp, W. M. Nauseef, and R. A. Clark 3206 Subcellular Distribution and Membrane Association of Human Neutrophil Substrates for ADP-Ribosylation by Pertussis Toxin and Cholera Toxin
- U. Wirthmueller, A. L. De Weck, and C. A. Dehinden 3213 Platelet-Activating Factor Production in Human Neutrophils by Sequential Stimulation with Granulocyte-Macrophage Colony-Stimulating Factor and the Chemotactic Factors C5A or Formyl-Methionyl-Leucyl-Phenylalanine

MICROBIAL IMMUNOLOGY

- I. E. A. Flesch, G. Schwamberger, and S. H. E. Kaufmann 3219 Fungicidal Activity of IFN- γ -Activated Macrophages. Extracellular Killing of *Cryptococcus neoformans*
- N.-G. Ilbäck, J. Fohlman, S. Slorach, and G. Friman 3225 Effects of the Immunomodulator LS 2616 on Lymphocyte Subpopulations in Murine Coxsackievirus B3 Myocarditis
- H. Loppnow, H. Brade, I. Dürrbaum, C. A. Dinarello, S. Kusumoto, E. Th. Rietschel, and H.-D. Flad 3229 IL-1 Induction-Capacity of Defined Lipopolysaccharide Partial Structures
- S. Ragheb and D. L. Boros 3239 Characterization of Granuloma T Lymphocyte Function from *Schistosoma mansoni*-Infected Mice
- R. McLeod, P. Eisenhauer, D. Mack, C. Brown, G. Filice, and G. Spitalny 3247 Immune Responses Associated with Early Survival after Peroral Infection with *Toxoplasma gondii*
- J. V. Weinstock and A. M. Blum 3256 Tachykinin Production in Granulomas of Murine *Schistosomiasis mansoni*
- D. Zhu and R. G. Bell 3262 IL-2 Production, IL-2 Receptor Expression and IL-2 Responsiveness of Spleen and Mesenteric Lymph Node Cells from Inbred Mice Infected with *Trichinella spiralis*

MOLECULAR BIOLOGY • MOLECULAR GENETICS

- A. G. Diamond, L. E. Hood, J. C. Howard, M. Windle, and A. Winoto 3268 The Class II Genes of the Rat MHC
- M. Diedrichs and D. J. Schendel 3275 Differential Surface Expression of Class II Isotypes on Activated CD4 and CD8 Cells Correlates with Levels of Locus-Specific mRNA
- S. A. Ellis, T. Strachan, M. S. Palmer, and A. J. McMichael 3281 Complete Nucleotide Sequence of a Unique HLA Class I C Locus Product Expressed on the Human Choriocarcinoma Cell Line BeWo
- K. C. Gunter, S. G. Irving, P. F. Zipfel, U. Siebenlist, and Kathleen Kelly 3286 Cyclosporin A-Mediated Inhibition of Mitogen-Induced Gene Transcription Is Specific for the Mitogenic Stimulus and Cell Type
- N. Harindranath, E. Lamoyi, and R. G. Mage 3292 Allotypes of the Constant Region of the Rabbit T Cell Receptor β -2 Chain
- N. A. Johnson, F. Carland, J. S. Heilig, P. M. Allen, and L. H. Glimcher 3298 T Cell Receptor Gene Segment Usage in a Panel of Hen-Egg White Lysozyme (HEL)-Specific, I-A k Restricted T Helper Hybridomas
- P. Loiseau, P. Guglielmi, D. Le Paslier, E. MacIntyre, A. Gessain, J.-C. Bories, G. Fladrin, Z. Chen, and F. Sigaux 3305 Rearrangements of the T Cell Receptor δ Gene in T Acute Lymphoblastic Leukemia Cells Are Distinct for Those Occurring in B Lineage Acute Lymphoblastic Leukemia and Preferentially Involve One V δ Gene Segment
- A. M. Norment, N. Lonberg, E. Lacy, and D. R. Littman 3312 Alternatively Spliced mRNA Encodes a Secreted Form of Human CD8 α . Characterization of the Human CD8 α Gene
- Y. Shimizu and R. DeMars 3320 Production of Human Cells Expressing Individual Transferred HLA-A, -B, -C Genes Using an HLA-A, -B, -C Null Human Cell Line

TUMOR IMMUNOLOGY

T. L. Darrow, C. L. Slingluff, Jr., and H. F. Seigler	3329	The Role of HLA Class I Antigens in Recognition of Melanoma Cells by Tumor-Specific Cytotoxic T Lymphocytes: Evidence for Shared Tumor Antigens
C. Öhlen, M.-T. Bejarano, A. Grönberg, S. Torsteinsdottir, L. Franksson, H.-G. Ljung- gren, E. Klein, G. Klein, and K. Kärre	3336	Studies of Sublines Selected for Loss of HLA Expression from an EBV- Transformed Lymphoblastoid Cell Line. Changes in Sensitivity to Cyto- toxic T Cells Activated by Allostimulation and Natural Killer Cells Acti- vated by IFN or IL-2
S. Meyers, P. D. Gottlieb, and J. P. Dudley	3342	Lymphomas with Acquired Mouse Mammary Tumor Virus Proviruses Re- semble Distinct Prethymic and Intrathymic Phenotypes Defined In Vivo
Announcements	3351	
Author Index	3352	