

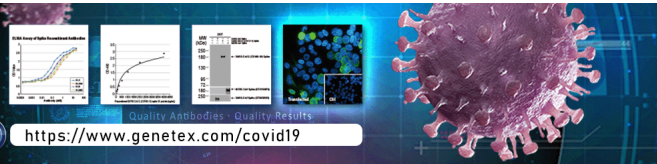


The Most Comprehensive Portfolio  
of SARS-CoV-2 Reagents

- Recombinant Antibodies
- Sandwich ELISA Pairs
- Recombinant Proteins
- FFPE Cell Pellet Blocks

LEARN MORE

<https://www.genetex.com/covid19>



142 (1)

*J Immunol* 1989; 142:1-358; ;  
<http://www.jimmunol.org/content/142/1.citation>

This information is current as  
of October 22, 2020.

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

- |  |    |   |
|--|----|---|
| P. Benaroch and G. Bordenave   | 1  | T Cell-Induced Ig Allotypic Suppression in Mice. II. Both CD4 <sup>+</sup> CD8 <sup>-</sup> and CD4 <sup>-</sup> CD8 <sup>+</sup> T Cell Subsets from Sensitized Igh <sup>a</sup> Mice are Required to Induce Suppression of Igh-1b Allotype Expression |
| P.-A. Cazenave, C. Martinez-A, and A. Coutinho   | 8  | Differential L-Chain Expression in the Antibody Responses to Phosphorylcholine of Adult Bone Marrow or Peritoneum-Derived B Lymphocytes   |
| C. V. Harding and E. R. Unanue   | 12 | Antigen Processing and Intracellular Ia: Possible Roles of Endocytosis and Protein Synthesis in Ia Function   |
| N. Lycke, A. K. Bromander, L. Ekman, U. Karlsson, and J. Holmgren  | 20 | Cellular Basis of Immunomodulation by Cholera Toxin in Vitro with Possible Association to the Adjuvant Function in Vivo   |
| S. Marusic-Galesic, T. Saito, Lucio Tentori, J. Zuniga-Pflucker, D. H. Raullet, J. P. Allison, and A. M. Kruisbeek | 28 | A Novel $\gamma\delta$ T Cell Receptor for Antigen Adds Limited Diversity to the $\gamma\delta$ Repertoire in Adult Thymus  |
| A. Sette, S. Buus, S. Colon, C. Miles and H. M. Grey   | 35 | Structural Analysis of Peptides Capable of Binding to More than One Ia Antigen  |
| J. B. Turpen and P. B. Smith   | 41 | Precursor Immigration and Thymocyte Succession during Larval Development and Metamorphosis in <i>Xenopus</i>  |
| J. Vernachio, M. Li, A. D. Donenberg, and M. J. Soloski  | 48 | Qa-2 Expression in the Adult Murine Thymus: A Unique Marker for a Mature Thymic Subset  |

## CLINICAL IMMUNOLOGY • IMMUNOPATHOLOGY

- |   |     |   |
|---|-----|---|
| D. Campana, G. Janosy, E. Coustan-Smith, P. L. Amlot, W.-T. Tian, S. Ip, and L. Wong  | 57  | The Expression of T Cell Receptor-Associated Proteins During T Cell Ontogeny in Man   |
| M. H. A. Hermans, H. Hart-suiker, and D. Opstelten  | 67  | An In Situ Study of B-Lymphocytopoiesis in Rat Bone Marrow: Topographical Arrangement of Terminal Deoxynucleotidyl Transferase-Positive Cells and Pre-B Cells                               |
| R. S. Kalish  | 74  | Non-Specifically Activated Human Peripheral Blood Mononuclear Cells are Cytotoxic for Human Keratinocytes in Vitro  |
| M. C. Miceli and O. J. Finn   | 81  | T Cell Receptor $\beta$ -Chain Selection in Human Allograft Rejection   |
| C. Straub and R. H. Zubler  | 87  | Immortalization of EBV-Infected B Cells is not Influenced by Exogenous Signals Acting on B Cell Proliferation: Effects of Mutant EL-4 Thymoma Cells and Transforming Growth Factor- $\beta$ |
| A. Vazquez, S. Mills, and A. Maizel   | 94  | Modulation of IL-2-Induced Human B Cell Proliferation in the Presence of Human 50-kDa B Cell Growth Factor and IL-4   |
| S. J. C. Warner and P. Libby  | 100 | Human Vascular Smooth Muscle Cells: Target for and Source of Tumor Necrosis Factor  |
| B. Wörmann, J. M. Anderson, J. A. Liberty, K. Gajl-Peczalska, R. D. Brunning, T. L. Silberman, D. C. Arthur, and T. W. LeBien | 110 | Establishment of a Leukemic Cell Model for Studying Human Pre-B to B Cell Differentiation   |

Continued on page 4

---

**CYTOKINES • MEDIATORS • REGULATORY MOLECULES**


---

- |  |     |   |
|--|-----|---|
| M. Baccarini, R. Schwinzer,<br>and M.-L. Lohmann-Matthes   | 118 | Effect of Human Recombinant IL-2 on Murine Macrophage Precursors: Involvement of a Receptor Distinct from the p55 (Tac) Protein                   |
| T. A. Bird and J. Saklatvala   | 126 | IL-1 and TNF Transmodulate Epidermal Growth Factor Receptors by a Protein Kinase C-Independent Mechanism  |
| G. Delespesse, M. Sarfati, and<br>R. Peleman   | 134 | Influence of Recombinant IL-4, IFN- $\alpha$ and IFN- $\gamma$ on the Production of Human IgE-Binding Factor (Soluble CD23)                       |
| F. Herrmann, S. A. Cannistra,<br>A. Lindemann, D. Blohm, A.<br>Rambaldi, R. H. Mertels-<br>mann, and J. D. Griffin | 139 | Functional Consequences of Monocyte IL-2 Receptor Expression: Induction of IL-1 $\beta$ Secretion by IFN $\gamma$ and IL-2                        |
| F. R. Jirik, T. J. Podor, T.<br>Hirano, T. Kishimoto, D. J.<br>Loskutoff, D. A. Carson, and<br>M. Lotz             | 144 | Bacterial Lipopolysaccharide and Inflammatory Mediators Augment IL-6 Secretion by Human Endothelial Cells   |
| T. Matsuda, T. Hirano, S.<br>Nagasawa, and T. Kishimoto  | 148 | Identification of $\alpha$ 2-Macroglobulin as a Carrier Protein for IL-6  |
| M. J. Myers, J. K. Pullen, N.<br>Ghildyal, E. Eustis-Turf, and<br>L. B. Schook                                     | 153 | Regulation of IL-1 and TNF- $\alpha$ Expression During the Differentiation of Bone Marrow Derived Macrophage                                      |
| D. Rennick, J. Jackson, C.<br>Moulds, F. Lee, and G. Yang  | 161 | IL-3 and Stromal Cell-Derived Factor Synergistically Stimulate the Growth of Pre-B Cell Lines Cloned From Long-Term Lymphoid Bone Marrow Cultures |
| Y. Tanaka, F. Shirakawa, S.<br>Oda, S. Eto, and U.<br>Yamashita  | 167 | Expression of IL-1 Receptors on Human Peripheral B Cells  |
| W. P. Arend, R. J. Massoni, M.<br>A. Niemann, and P. C. Giclas   | 173 | Absence of Induction of IL-1 Production in Human Monocytes by Complement Fragments  |

---

**IMMUNOCHEMISTRY**


---

- |  |     |  |
|--|-----|--|
| R. E. Esch and D. G. Klapper   | 179 | Identification and Localization of Allergenic Determinants on Grass Group I Antigens Using Monoclonal Antibodies   |
| R. C. Goldman and M. F. Miller   | 185 | Complement Attack of Altered Outer Membrane Areas Synthesized after Inhibition of the 3-Deoxy-D-Manno-Octulosonate Pathway Leads to Cell Death   |
| M. Okada and S. Utsumi   | 195 | Role for the Third Constant Domain of the IgG H Chain in Activation of Complement in the Presence of C1 Inhibitor  |
| M. K. Pangburn   | 202 | Analysis of the Natural Polymeric Forms of Human Properdin and their Functions in Complement Activation  |
| C. J. Parker, O. L. Stone, and<br>N. J. Bernshaw                                 | 208 | Characterization of the Enhanced Susceptibility of Paroxysmal Nocturnal Hemoglobinuria Erythrocytes to Complement-Mediated Hemolysis Initiated by Cobra Venom Factor   |
| O. F. Ramos, I. Algarra, G. Sar-<br>may, E. Yefenof, J. Gergely,<br>and E. Klein | 217 | Lymphocytes Stimulated by Allogeneic B Cell Lines Cleave the Third Component of Complement and Fix C3 Fragments: Their Non-Specific Lytic Capacity is Elevated Against Complement Receptor Type 2-Carrying Targets |
| D. R. Webb, G. Semenuk, K.<br>Krupen, G. S. Jendrisak, and<br>C. J. Bellone      | 224 | Purification and Analysis of an Antigen-Specific Suppressor Factor from a T Cell Hybridoma Specific for Phenyltrimethylamino Hapten  |

---

**IMMUNOPHARMACOLOGY**


---

- |  |     |   |
|--|-----|---|
| R. F. Graziano, R. J. Looney,<br>L. Shen, and M. W. Fanger | 230 | Fc $\gamma$ R-Mediated Killing by Eosinophils |
|--|-----|---|

Continued from page 4

- G. F. Labrecque, D. Holowka, and B. Baird 236 Antigen-Triggered Membrane Potential Changes in IgE-Sensitized Rat Basophilic Leukemia Cells: Evidence for a Repolarizing Response that is Important in the Stimulation of Cellular Degranulation
- J.-M. Schröder and E. Christophers 244 Secretion of Novel and Homologous Neutrophil-Activating Peptides by LPS-Stimulated Human Endothelial Cells

---

#### MICROBIAL IMMUNOLOGY

---

- I. Bourgault, A. Gomez, E. Gomard, F. Picard, and J. P. Levy 252 A Virus-Specific CD4<sup>+</sup> Cell-Mediated Cytolytic Activity Revealed by CD8<sup>+</sup> Cell Elimination Regularly Develops in Uncloned Human Antiviral Cell Lines
- L. R. Gooding, J. R. Taylor, S. M. Laster, K. Wehrly, B. Chesebro, P. M. Brickell, D. S. Latchmann, and P. W. J. Rigby 257 Evidence Against Expression of an Endogenous Murine Leukemia Virus Causing Cellular Resistance to Lysis by Activated Macrophages
- R. L. Hendricks, M. S. P. Tao, and J. C. Glorioso 263 Alterations in the Antigenic Structure of Two Major HSV-1 Glycoproteins, gC and gB, Influence Immune Regulation and Susceptibility to Murine Herpes Keratitis
- T. Mizouchi, A. W. Hügin, H. C. Morse, III, A. Singer, and R. M. L. Buller 270 Role of Lymphokine-Secreting CD8<sup>+</sup> T Cells in Cytotoxic T Lymphocyte Responses Against Vaccinia Virus

---

#### MOLECULAR BIOLOGY • MOLECULAR GENETICS

---

- N. Arai, D. Nomura, D. Villaret, R. D. Malefijt, M. Seiki, M. Yoshida, S. Minoshima, R. Fukuyama, M. Maekawa, J. Kudoh, N. Shimizu, K. Yokota, E. Abe, T. Yokota, Y. Takebe, and K. Arai 274 Complete Nucleotide Sequence of the Chromosomal Gene for Human IL-4 and Its Expression
- P. E. Barker, M. A. Shipp, L. D'Adamio, E. L. Masteller, and E. L. Reinherz 283 The Common Acute Lymphoblastic Leukemia Antigen Gene Maps to Chromosomal Region 3 (q21-q27)
- L. W. Duran, R. M. Horton, C. W. Birschbach, A. Chang-Miller, and L. R. Pease 288 Structural Relationships among the H-2 D-Regions of Murine MHC Haplotypes
- R. Hakem, P. L. Bouteiller, M. Barad, M. Trujillo, P. Mercier, J. Wietzerbin, and F. A. Lemonnier 297 IFN-Mediated Differential Regulation of the Expression of HLA-B7 and HLA-A3 Class I Genes
- H. Hayashi, P. D. Ennis, H. Ariga, R. D. Salter, P. Parham, K. Kano, and M. Takiguchi 306 HLA-B51 and HLA-Bw52 Differ by Only Two Amino Acids which Are in the Helical Region of the  $\alpha$ 1 Domain
- J. Kawai, T. Nakatsuji, A. Ando, T. Sato, K. Tsuji, and H. Inoko 312 Analysis of Gene Structure and Antigen Determinants of DR2 Antigens Using DR Gene Transfer into Mouse L Cells
- D. W. Mann, I. Stroynowski, L. Hood, and J. Forman 318 An H-2L<sup>d</sup> Hybrid Molecule with a QA-2  $\alpha$ -3 Domain and Phosphatidyl-Inositol Anchor is not Recognized by H-2L<sup>d</sup>-Specific Cytotoxic T Lymphocytes
- M. Le Meur, C. Waltzinger, P. Gerlinger, C. Benoist, and D. Mathis 323 Restricted Assembly of MHC Class II Molecules in Transgenic Mice
- J. D. Moutz and A. D. Steinberg 328 Studies of *c-myb* Gene Regulation in MRL-*1pr/1pr* Mice: Identification of a 5' *c-myb* Nuclear Protein Binding Site and High Levels of Binding Factors in Nuclear Extracts of *1pr/1pr* Lymph Node Cells
- S. O. Southern, S. L. Swain, and R. W. Dutton 336 Induction of the H-2 D Antigen During B Cell Activation

Continued on page 6

---

TUMOR IMMUNOLOGY

---

G. J. Weiner and M. S. Kaminski	343	Idiotype Variants Emerging after Anti-Idiotype Monoclonal Antibody Therapy of a Murine B Cell Lymphoma
F. Momburg, A. Ziegler, J. Harprecht, P. Möller, G. Moldenhauer, and G. J. Hammerling	352	Selective loss of HLA-A or HLA-B Antigen Expression in Colon Carcinoma
Author Index	359	
Ad Hoc Reviewers	360	