



Empower Discovery.
Increase Efficiency.



MA900 cell sorter

SONY



The Journal of
Immunology

115 (5)

J Immunol 1975; 115:1179-1468; ;
<http://www.jimmunol.org/content/115/5.citation>

This information is current as
of January 27, 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.



THE JOURNAL OF IMMUNOLOGY®

Contents for November

CELLULAR IMMUNOLOGY

Triggering Mechanism of B Lymphocytes. I. Effect of Anti-Immunoglobulin and Enhancing Soluble Factor on Differentiation and Proliferation of B Cells. TADAMITSU KISHIMOTO, TADAO MIYAKE, YOSHIO NISHIZAWA, TAKESHI WATANABE, AND YUICHI YAMAMURA.....	1179
Triggering Mechanism of B Lymphocytes. II. Induction of Ornithine Decarboxylase in B Cells by Anti-Immunoglobulin and Enhancing Soluble Factor. TAKESHI WATANABE, TADAMITSU KISHIMOTO, TADAO MIYAKE, YOSHIO NISHIZAWA, HIDEO INOUE, YOSHIRO TAKEDA, AND YUICHI YAMAMURA.....	1185
Secondary IgG Responses to Type III Pneumococcal Polysaccharide. I. Kinetics and Antigen Requirements. HELEN BRALEY-MULLEN.....	1194
The Properties of Plaque-forming Cells from Autoimmune and Normal Strains of Mice with Specificity for Auto- logous Erythrocyte Antigens. EDITH M. LORD AND RICHARD W. DUTTON.....	1199
B Lymphocyte Differentiation from Fetal Liver Stem Cells in ⁸⁹ Sr-Treated Mice. PAUL W. KINCADE, MALCOLM A. S. MOORE, ROBERT A. SCHLEGEL, AND JOHN PYE.....	1217
Receptors for IgG and Complement in Human Spleen Lymphoid Cells. Preferential Binding of Particulate Im- mune Complexes through Complement Receptors. JUAN CARLOS SCORNIK AND BENJAMIN DREWINKO.....	1223
7S Class-Restricted Hapten-Specific Paralysis by Injection of Thymus-Independent Hapten Carrier Conjugate. P. DEL GUERCIO, MARIE FRANCE POIRIER, AND NICOLE THOBIE.....	1239
Human Chorionic Gonadotropin: Effects of Crude and Purified Preparations on Lymphocyte Responses to Phytohemagglutinin and Allogeneic Stimulation. JOSEPH L. CALDWELL, DANIEL P. STITES, AND H. HUGH FUDENBERG.....	1249
The Xenogeneic Effect. I. Antigen and Mitogen-Stimulated Human Lymphocytes Produce a Non-Antigen- Specific Factor which Reconstitutes the Antibody Response of T Cell-Deficient Mouse Spleen Cells. JOHN J. FARRAR.....	1295
T Lymphocyte-Enriched Murine Peritoneal Exudate Cells: A Reliable Assay for Antigen-Induced T Lymphocyte Proliferation. RONALD H. SCHWARTZ, LULA JACKSON AND WILLIAM E. PAUL.....	1330
B Cells in the Appendix and Other Lymphoid Organs of the Rabbit: Complement Receptor Lymphocytes. CATHERINE E. CALKINS, JOAN M. CARBONI, AND BYRON H. WAKSMAN.....	1339
Immunosuppression Effected by Macrophage Surfaces. WLODZIMIERZ PTAK AND RICHARD K. GERSHON.....	1346
Effects of Migration Inhibiting Factor(s) on the <i>in Vitro</i> Detachment of Macrophages. LEONARD WEISS AND DOROTHY GLAVES.....	1362
<i>In Vivo</i> Effects of Cortisone on the B Cell Line in Chickens. V. M. RUSU AND M. D. COOPER.....	1370
Reappraisal of Lymphocyte Classification by Means of Surface Morphology. PAUL S. BAUR, GARY B. THUR- MAN, AND ALLAN L. GOLDSTEIN.....	1375
The Elaboration of Leukotactic Mediators during the Interaction between Parental-Type Lymphocytes and F ₁ Hybrid Cells. PETER A. WARD AND ALVIN VOLKMAN.....	1394
Effect on Tolerance Induction of the Mode of Attachment of the Hapten to the Carrier. ROBERT S. PALEY, SIDNEY LESKOWITZ, AND YVES BOREL.....	1409
Studies on the Mechanism of Suppression of Delayed Hypersensitivity by the Antischistosomal Compound Nirida- zole. JERRY C. DANIELS, KENNETH S. WARREN, AND JOHN R. DAVID.....	1414
<i>In Vitro</i> Immunogenicity of Trinitrophenylated Bacteriophage T4. I. Lack of Helper Cell Cooperation. JOHN J. JENNINGS, MARILYN BALTZ, AND MARVIN B. RITTENBERG.....	1432
Age-Related Changes in Cell-Mediated Immunity in BALB/c Mice. CURLA S. WALTERS AND HENRY N. CLAMAN 1438	
Studies of Thymic Factors. I. Evaluation of the Mouse Rosette Assay for Thymic Hormone. M. ERIC GERSHWIN, ALFRED D. STEINBERG, JAMES N. WOODY, AND AFTAB AHMED.....	1444
Functional Activities of Rosette Separated Human Peripheral Blood Leukocytes. JACK H. DEAN, JOHN S. SILVA, JAMES L. MCCOY, CONNIE M. LEONARD, GRACE B. CANNON, AND RONALD B. HERBERMAN.....	1449

IMMUNOCHEMISTRY

Peanut Agglutinin, a New Mitogen That Binds to Galactosyl Sites Exposed after Neuraminidase Treatment. ABRAHAM NOVOGRODSKY, REUBEN LOTAN, AMIRAM RAVID, AND NATHAN SHARON.....	1243
The Immune Adherence Receptor: Dissociation between the Expression of Erythrocyte and Mononuclear Cell C3b Receptors. IVAN K. ROTHMAN, JEFFREY A. GELFAND, ANTHONY S. FAUCI, AND MICHAEL M. FRANK..	1312
Initiation of C3 Cleavage in the Alternative Complement Pathway. DOUGLAS T. FEARON AND K. FRANK AUSTEN.....	1357
Quantitation of Mouse Immunoglobulin Allotypes by a Modified Solid-Phase Radioimmune Assay. MELVIN J. BOSMA, ROBERT M. MARKS, AND CAROL L. DE WITT.....	1381

IMMUNOGENETICS AND TRANSPLANTATION

Alloantiserum-Mediated Suppression of Ir Gene Controlled Antigen-Induced Lymphocyte Activation: Effect on Uridine and Leucine Incorporation. PHILIP D. GREENBERG AND HARRY G. BLUESTEIN.....	1206
---	------

Lymphoid Cell Subpopulation. I. Synergy between Lymph Node Cells and Thymocytes in Response to Allo-antigens and Mitogens. MICHAEL L. HOWE AND LEWIS COHEN.....	1227
Lymphoid Cell Populations. II. Characterization of Cell Populations Responsible for Synergy in the Mixed Lymphocyte Interaction. MICHAEL L. HOWE AND LEWIS COHEN.....	1233
Number of Histocompatibility Loci in Syrian Hamsters. WILLYS K. SILVERS, DAVID L. GASSER, AND MICHAEL R. MURPHY.....	1309
The Humoral Response of Mouse Spleen Cells to Two Types of Sheep Erythrocytes. I. Genetic Control of the Response to H and L SRBC. MARGARET M. MCCARTHY AND RICHARD W. DUTTON.....	1316
The Humoral Response of Mouse Spleen Cells to Two Types of Sheep Erythrocytes. II. Evidence for Gene Expression in the B Lymphocyte. MARGARET M. MCCARTHY AND RICHARD W. DUTTON.....	1322
The Humoral Response of Mouse Spleen Cells to Two Types of Sheep Erythrocytes. III. A New V _H Region Marker. MARGARET M. MCCARTHY AND RICHARD W. DUTTON.....	1327
Genetic Complementation of Histocompatibility-Linked Ir Genes in the Rat. EBERHARD GÜNTHER AND ERWIN RÜDE.....	1387
Immunosuppression of Normal Lymphoid Cells by Serum from Mice Undergoing Chronic Graft- <i>vs</i> -Host Disease. ROBERT MCMMASTER AND JULIA G. LEVY.....	1400
The Ontogeny of Murine B Lymphocytes. I. Induction of Phenotypic Conversion of Ia ⁻ to Ia ⁺ Lymphocytes. ULRICH HAMMERLING, ANN F. CHIN, JOAN ABBOTT, AND MARGRIT P. SCHEID.....	1425

IMMUNOPATHOLOGY

The Immune Response against an Encephalitogenic Fragment of Guinea Pig Basic Protein in the Lewis and Brown Norway Strains of Rat. DALE E. MCFARLIN, SHARON CHUNG-LING HSU, SUSAN B. SLEMENDA, SELENE C.-H. CHOU, AND ROBERT F. KIBLER.....	1456
Isolation of the Most Immunoreactive Antigens of <i>Echinococcus granulosus</i> from Sheep Hydatid Fluid. ROBERTO POZZUOLI, MAURO PIANTELLI, CARLO PERUCCI, EFISIO ARRU, AND PIERO MUSIANI.....	1459

TUMOR IMMUNOLOGY

Splenic Suppressor Macrophages Induced in Mice by Injection of <i>Corynebacterium parvum</i> . HOLGER KIRCHNER, HOWARD T. HOLDEN, AND RONALD B. HERBERMAN.....	1212
Anomalous Reactions of Mouse Alloantisera with Cultured Tumor Cells. I. Demonstration of Widespread Occurrence Using Reference Typing Sera. PAUL A. KLEIN.....	1254
Anomalous Reactions of Mouse Alloantisera with Cultured Tumor Cells. II. Cytotoxicity is Caused by Antibodies to Leukemia Viruses. ROBERT C. NOWINSKI AND PAUL A. KLEIN.....	1261
Immune Response to a Syngeneic Mammary Adenocarcinoma. I. Comparison of Kinetics of Tumor Cell Growth and Cytotoxic Responses in Syngeneic and Allogeneic Rats. G. WILLIAM FORTNER, O. KUPERMAN, AND Z. J. LUCAS.....	1269
Immune Response to a Syngeneic Mammary Adenocarcinoma. II. <i>In Vitro</i> Generation of Cytotoxic Lymphocytes. ODED KUPERMAN, G. WILLIAM FORTNER, AND ZOLTAN J. LUCAS.....	1277
Immune Response to a Syngeneic Mammary Adenocarcinoma. III. Development of Memory and Suppressor Functions Modulating Cellular Cytotoxicity. ODED KUPERMAN, G. WILLIAM FORTNER, AND ZOLTAN J. LUCAS.....	1282
IgM Antibody Dependent Cell-Mediated Cytotoxicity in the Moloney Sarcoma Virus System: The Involvement of T and B Lymphocytes as Effector Cells. E. W. LAMON, H. D. WHITTEN, H. M. SKURZAK, B. ANDERSSON, AND B. LIDIN.....	1288
Studies on the Induction and Expression of T Cell-Mediated Immunity. IV. Non-Overlapping Populations of Alloimmune Cytotoxic Lymphocytes with Specificity for Tumor-Associated Antigens and Transplantation Antigens. ELI KEDAR AND BENJAMIN BONAVIDA.....	1301
Cell-Mediated Immunity to Friend Virus-Induced Leukemia. I. Modification of ¹²⁵ IUdR Release Cytotoxicity Assay for Use with Suspension Target Cells. CHOU-CHIK TING, GRACE SHIU BUSHAR, DENNIS RODRIGUES, AND RONALD B. HERBERMAN.....	1351
Inhibition of Tumor Cell Proliferation: A Second Role for Suppressor Cells? DAVID W. THOMAS, DAVID W. TALMAGE, AND WALDEN K. ROBERTS.....	1366

VIRAL AND MICROBIAL IMMUNOLOGY

Production of Interferon by Immune Lymphocytes Exposed to Herpes Simplex Virus-Antibody Complexes. TAKASHI FUJIBAYASHI, JOHN J. HOOKS, AND ABNER L. NOTKINS.....	1191
DNA Release as a Direct Measure of Microbial Killing. I. Serum Bactericidal Activity. ARTHUR M. FRIEDLANDER.....	1404
The Interdomain Disulfide Bond of a Homogeneous Rabbit Pneumococcal Antibody Light Chain. A. DONNY STROSBERG, MICHAEL N. MARGOLIES, AND EDGAR HABER.....	1422

COMMUNICATIONS

Detection of Hepatitis A Viral Antigen by Radioimmunoassay. F. BLAINE HOLLINGER, DANIEL W. BRADLEY, JAMES E. MAYNARD, GORDON R. DREESMAN, AND JOSEPH L. MELNICK.....	1464
--	------

ANNOUNCEMENTS.....	1467
--------------------	------