

Innovative, Intuitive, Flexible.

Luminex Flow Cytometry Solutions
with **Guava**® and **Amnis**® Systems

[Learn More >](#)



Luminex
complexity simplified.



123 (2)

J Immunol 1979; 123:507-958; ;
<http://www.jimmunol.org/content/123/2.citation>

This information is current as
of December 4, 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

A. E. Postlethwaite and A. H. Kang	561	Latent Lymphokines: Isolation of Guinea Pig Latent Lymphocyte-Derived Chemotactic Factor for Monocytes: Its Activation by Trypsin and a Soluble Factor from Macrophages
M. J. Stadecker and E. R. Unanue	568	The Regulation of Thymidine Secretion by Macrophages
A. C. Stern, P. Erb, and R. H. Gisler	612	Ia-Bearing Bone Marrow-Cultured Macrophages Induce Antigen-Specific Helper T Cells for Antibody Synthesis
G. Fernandes, F. Carandente, E. Halberg, F. Halberg, and R. A. Good	622	Circadian Rhythm in Activity of Lympholytic Natural Killer Cells from Spleens of Fischer Rats
A. Kijlstra, L. A. van Es, and M. R. Daha	640	Effects of C $\bar{1}$ on the Size of Soluble Immune Aggregates and on Their Processing by Macrophages
F. UytdeHaag, C. J. Heijnen, K. H. Pot, and R. E. Ballieux	646	T-T Interactions in the Induction of Antigen-Specific Human Suppressor T Lymphocytes <i>in Vitro</i>
F. M. McCorkle, R. S. Stinson, I. Olah, and B. Glick	667	The Chicken's Femoral-Lymph Nodules: T and B Cells and the Immune Response
S. M. Hinchman and J. R. Battisto	688	IgG-Recruiting Component (GRC): B Cell-Derived Signal for IgG Antibody Synthesis
J. E. Layton, B. L. Pike, F. L. Battye, and G. J. V. Nossal	702	Cloning of B Cells Positive or Negative for Surface IgD. I. Triggering and Tolerance in T-Independent Systems
J. E. Layton, J. M. Teale, and G. J. V. Nossal	709	Cloning of B Cells Positive or Negative for Surface IgD. II. Triggering and Tolerance in the T-Dependent Splenic Focus Assay
G. A. Truitt, D. K. Dennison, R. R. Rich, and S. S. Rich	745	Interaction between T Cells and Non-T Cells in Suppression of Cytotoxic Lymphocyte Responses
R. Auerbach and Y. A. Sidky	751	Nature of the Stimulus Leading to Lymphocyte-Induced Angiogenesis
D. W. Thomas, S. K. Meltz, and G. D. Wilner	759	Nature of T Lymphocyte Recognition of Macrophage-Associated Antigens. I. Response of Guinea Pig T Cells to Human Fibrinopeptide B
M. Hansson, K. Kärre, R. Kiesling, J. Roder, B. Andersson, and P. Häyry	765	Natural NK-Cell Targets in the Mouse Thymus: Characteristics of the Sensitive Cell Population
K. Shortman and P. Golstein	833	Target Cell Recognition by Cytolytic T Cells: Different Requirements for the Formation of Strong Conjugates or for Proceeding to Lysis
D. E. Tracey	840	The Requirement for Macrophages in the Augmentation of Natural Killer Cell Activity by BCG
A. H. Greenberg and P. M. Lydyard	861	Observations of IgG1 Anti-DNP Hybridoma-Mediated ADCC and the Failure of Three IgM Anti-DNP Hybridomas to Mediate ADCC
M. Suemura and K. Ishizaka	918	Potential of IgE Response <i>in Vitro</i> by T Cells from Rats Infected with <i>Nippostrongylus brasiliensis</i>
D. C. Parker, J. J. Fothergill, and D. C. Wadsworth	931	B Lymphocyte Activation by Insoluble Anti-immunoglobulin: Induction of Immunoglobulin Secretion by a T Cell-Dependent Soluble Factor

CLINICAL IMMUNOLOGY

T. Ishizaka, A. R. Sterk, and K. Ishizaka	578	Demonstration of Fc γ Receptors on Human Basophil Granulocytes
T. Sakane and I. Green	584	Specificity and Suppressor Function of Human T Cells Responsive to Autologous Non-T Cells
R. H. Tomar and P. A. John	590	Mononuclear Cells Contain Human Transfer Factor as Assayed Locally on the Skin of Dogs
D. O. Thueson, L. S. Speck, M. A. Lett-Brown, and J. A. Grant	626	Histamine-Releasing Activity (HRA). I. Production by Mitogen- or Antigen-Stimulated Human Mononuclear Cells
D. O. Thueson, L. S. Speck, M. A. Lett-Brown, and J. A. Grant	633	Histamine-Releasing Activity (HRA). II. Interaction with Basophils and Physicochemical Characterization
B. Perussia, G. Trinchieri, and J. C. Cerottini	681	Functional Studies of Fc Receptor-Bearing Human Lymphocytes: Effect of Treatment with Proteolytic Enzymes

M. Plaut	692	The Role of Cyclic AMP in Modulating Cytotoxic T Lymphocytes. I. <i>In Vivo</i> -Generated Cytotoxic Lymphocytes, But Not <i>In Vitro</i> -Generated Cytotoxic Lymphocytes, Are Inhibited by Cyclic AMP-Active Agents
L. G. Lum, A. V. Muchmore, N. O'Connor, W. Strober, and R. M. Blaese	714	Fc Receptors for IgA on Human B and Human Non-B, Non-T Lymphocytes
H. J. Wedner, B. Y. Chan, C. S. Parker, and C. W. Parker	725	Cyclic Nucleotide Phosphodiesterase Activity in Human Peripheral Blood Lymphocytes and Monocytes
M. Mayumi, T. Yoshida, K. Shinomiya, S-I. Nishikawa, T. Hirata, T. Izumi, and H. Mikawa	772	Effects of Concanavalin A-Induced Cells on the Proliferative Response of T Cells. I. Concanavalin A-Induced Suppressor and Amplifier Cells to the Proliferative Response of Human T Cells to Trinitrophenyl-Modified Autologous Lymphocytes
D. H. Boldt and R. D. Lyons	808	Fractionation of Human Lymphocytes with Plant Lectins. II. <i>Lens culinaris</i> Lectin and Wheat Germ Agglutinin Identify Distinct Lymphocyte Subclasses
G. R. Klimpel, C. V. Byus, D. H. Russell, and D. O. Lucas	817	Cyclic AMP-Dependent Protein Kinase Activation and the Induction of Ornithine Decarboxylase during Lymphocyte Mitogenesis
A. Dimitriu, B. F. Haynes, and A. S. Fauci	890	Activation of Human B Lymphocytes. XIV. Characterization of the Precursor of the Pokeweed Mitogen-Induced Anti-Sheep Red Blood Cell Plaque-Forming Cell

IMMUNOCHEMISTRY

J. R. Carlo, S. Ruddy, E. J. Studer, and D. H. Conrad	523	Complement Receptor Binding of C3b-Coated Cells Treated with C3b Inactivator, β 1H Globulin and Trypsin
P. H. Lesavre, T. E. Hugli, A. F. Esser, and H. J. Müller-Eberhard	529	The Alternative Pathway C3/C5 Convertase: Chemical Basis of Factor B Activation
F. L. Stassen and C. J. Beek	535	Complement-Mediated Solubilization of Immune Precipitates Prepared with Antibodies of Different Avidity
B. E. Elliott and B. J. Takács	543	Characterization of Functional Fc-Receptor Material from Human Lymphoblastoid Cell Lines. II. Serologic and Cellular Analysis
H-M. Dosch, S. Kwong, F. Tsui, B. Zimmerman, and E. Gelfand	557	Role of Surface IgM and IgD in the Functional Differentiation of Human B Lymphocytes: Effect of Papain Treatment
B. Ghebrehiwet and H. J. Müller-Eberhard	616	C3e: An Acidic Fragment of Human C3 with Leukocytosis-Inducing Activity
M. E. J. Barratt and P. Porter	676	Immunoglobulin Classes Implicated in Intestinal Disturbances of Calves Associated with Soya Protein Antigens
M. R. Daha and L. A. van Es	755	Further Evidence for the Antibody Nature of C3 Nephritic Factor (C3NeF)
R. J. Ziccardi and N. R. Cooper	788	Active Disassembly of the First Complement Component, C1, by C1 Inactivator
S. L. Morrison	793	Sequentially Derived Mutants of the Constant Region of the Heavy Chain of Murine Immunoglobulins
S-T. Ju, D. V. Cramer, and M. E. Dorf	877	Idiotypic Analysis of Anti-GAT Antibodies.V. Distribution of an Interspecies Cross-Reactive Idiotype
L. Eidels	896	IgD is Present on the Cell Surface of Murine Lymphocytes in Two Forms: δ_2L_2 and δL
G. W. Warr, D. DeLuca, and B. R. Griffin	910	Membrane Immunoglobulin is Present on Thymic and Splenic Lymphocytes of the Trout <i>Salmo gairdneri</i>
I. Zan-Bar, S. Strober, and E. S. Vitetta	925	The Relationship Between Surface Immunoglobulin Isotype and Immune Function of Murine B Lymphocytes. IV. Role of IgD-Bearing Cells in the Propagation of Immunologic Memory

IMMUNOGENETICS AND TRANSPLANTATION

K. D. Pischel and J. R. Little	551	Limited Trypsin Cleavage Distinguishes MHC and Thymus-Leukemia Antigens
J. E. Swierkosz, P. Marrack, and J. W. Kappler	654	The Role of H-2-Linked Genes in Helper T Cell Function. V. <i>I</i> -Region Control of Helper T Cell Interaction with Antigen-Presenting Macrophages
J. A. Schroer, J. K. Inman, J. W. Thomas, and A. S. Rosenthal	670	H-2-Linked <i>I</i> r Gene Control of Antibody Responses to Insulin. I. Anti-insulin Plaque-Forming Cell Primary Responses
J. W. Shonnard, B. K. Davis, D. V. Cramer, S. F. Radka, and T. J. Gill III	778	The Association of Immune Responsiveness, Mixed Lymphocyte Responses, and Ia Antigens in Natural Populations of Norway Rats
K. Tamaki, G. Stingl, M. Gullino, D. H. Sachs, and S. I. Katz	784	Ia Antigens in Mouse Skin are Predominantly Expressed on Langerhans Cells
R. K. Saxena and W. H. Adler	846	Modulation of Natural Cytotoxicity by Alloantibodies. I. Alloantisera Enhancement of Cytotoxicity of Mouse Spleen Cells Toward a Human Myeloid Cell Line

Continued on page 4

Continued from page 3

G. F. Dancey, J. Cutler, and B. D. Schwartz	870	Chemical Cross-Linking of Ia Alloantigen α - and β -Chains with Dimethyl 3'3'-Dithiobispropionimidate
G. B. Ahmann, P. I. Nadler, A. Birnkrant, and R. J. Hodes	903	T Cell Recognition in the Mixed Lymphocyte Response. I. Non-T, Radiation Resistant Splenic Adherent Cells are the Predominant Stimulators in the Murine Mixed Lymphocyte Reaction
S. Slavin and S. Strober	942	Induction of Allograft Tolerance after Total Lymphoid Irradiation (TLI): Development of Suppressor Cells of the Mixed Leukocyte Reaction (MLR)

IMMUNOPATHOLOGY

N. M. Hadler, J. K. Spitznagel, and R. J. Quinet	572	Lysosomal Enzymes in Inflammatory Synovial Effusions
D. Senitzer, W. Cafruny, R. Raeder, and E. H. Freimer	660	Autoimmune Cell-Mediated Responses: Spontaneous Responses to Syngeneic Cells in NZB/NZW F ₁ Mice
S. L. Wechsler, H. L. Weiner, and B. N. Fields	884	Immune Response in Subacute Sclerosing Panencephalitis: Reduced Antibody Response to the Matrix Protein of Measles Virus

TUMOR IMMUNOLOGY

P. D. Greenberg, M. Cheever, and A. Fefer	515	Suppression of the <i>in Vitro</i> Secondary Response to Syngeneic Tumor and of <i>in Vivo</i> Tumor Therapy with Immune Cells by Culture-Induced Suppressor Cells
P. C. Levy, G. M. Shaw, and A. F. LoBuglio	594	Human Monocyte, Lymphocyte, and Granulocyte Antibody-Dependent Cell-Mediated Cytotoxicity toward Tumor Cells. I. General Characteristics of Cytotoxicity
J. J. Mulé, F. R. Jones, I. Hellström, and K. E. Hellström	600	Selective Localization of Radiolabeled Immune Lymphocytes into Syngeneic Tumors
E. Lotzová and J. U. Gutterman	607	Effect of Glucan on Natural Killer (NK) Cells: Further Comparison between NK Cell and Bone Marrow Effector Cell Activities
B. S. Kim, W. Liang, and E. P. Cohen	733	Tumor-Specific Immunity Induced by Somatic Hybrids. I. Lack of Relationship between Immunogenicity and Tumorigenicity of Selected Hybrids
B. S. Kim	739	Tumor-Specific Immunity Induced by Somatic Hybrids. II. Elicitation of Enhanced Immunity against the Parent Plasmacytoma
C-C. Ting and D. Rodrigues	801	Reversal by Peritoneal Adherent Cells of Tumor Cell Suppression of T Cell-Mediated Immunity
F. Plata, H. R. MacDonald, and B. Shain	852	Suppressor T Cells Regulate the Cytolytic T Lymphocyte Response to Syngeneic Tumors Induced by Murine Sarcoma Virus (MSV) in the Mouse

VIRAL AND MICROBIAL

F. J. Ramalho-Pinto, S. R. Smithers, and J. H. L. Playfair	507	Carrier Effect during the Course of Experimental Schistosomiasis: Suppression of the Response to TNP-Schistosomula in Rats and Inbred Mice
A. D. O'Brien, I. Scher, G. H. Campbell, R. P. MacDermott, and S. B. Formal	720	Susceptibility of CBA/N Mice to Infection with <i>Salmonella typhimurium</i> : Influence of the X-Linked Gene Controlling B Lymphocyte Function
R. J. Russell, W. H. Burns, D. O. White, E. M. Anders, C. W. Ward, and D. C. Jackson	825	Antigenic Determinants of Influenza Virus Hemagglutinin. III. Competitive Binding of Antibodies Directed against "Common" and "Strain-Specific" Antigenic Determinants of A/Memphis/72 Hemagglutinin

COMMUNICATIONS

S. Natsuume-Sakai, J-I. Haya-kawa, S. Amano, and M. Takahashi	947	Genetic Mapping of the Locus Controlling Structural Variations of Murine C3 in the Chromosome 17
J. J. Ellner and A. A. F. Mahmoud	949	Killing of Schistosomula of <i>Schistosoma mansoni</i> by Normal Human Monocytes
F. D. Finkelman, S. W. Kessler, and I. Scher	952	Preparation of an Antibody to Mouse Serum IgD
J. F. Burdick, S. V. Jooste, and H. J. Winn	954	Variations in the Responses of Mouse Strains to Rat Xenografts
Announcements	956	
Erratum	958	
Author Index	959	