Lymphoprep
The only ready made Metrizoate based Solution for Lymphocyte Isolation according to Bøyum's original work.

NYEGAARD'S Lymphoprep available through:
ACCCURATE CHEMICAL & SCIENTIFIC CORPORATION
28 Tec Street, Hicksville, N.Y. 11801. (516) 433-4900

Other countries, contact: NYEGAARD & CO. A/S
Post Office Box 4220, Oslo 4, Norway.

Please send me:
☐ Literature on the NYEGAARD Lymphoprep
☐ Free sample of the NYEGAARD Lymphoprep

Name _____________________________
Institution _____________________________
Address _____________________________
CONTENTS

NUMBER 1, JANUARY 1977

CELLULAR IMMUNOLOGY

1 Chemical Treatment of Macrophages Increases Their Responsiveness to Migration Inhibitory Factor (MIF). Heinz G. Remold

21 Inhibition of the Mitogenic Response to Lipopolysaccharide (LPS) in Mouse Spleen Cells by Polymyxin B. Diane M. Jacobs and David C. Morrison

35 Immunologically Specific Cytolytic Activity Induced in Long-Term Mixed Leukocyte Culture Cells by Concanavalin A. David Tartof and Frank W. Fitch

43 Cytotoxic Lymphocytes Induced by Soluble Factors Derived from the Medium of Leukocyte Cultures. Shinpei Kasakura

48 Hapten-Specific IgE Antibody Responses in Mice. VII. Conversion of IgE “Non-responder” Strains to IgE “Responders” by Elimination of Suppressor T Cell Activity. Nicholas Chiorazzi, David A. Fox, and David H. Katz

180 Studies on the Mechanism of Lymphocyte-Mediated Cytolysis. VIII. The Use of Con A to Delineate a Distinctive Killer T Cell Subpopulation. Robert P. Rubens and Christopher S. Henney

71 Studies on the Mechanism of Lymphocyte-Mediated Cytolysis. IX. Relationships between Antigen Recognition and Lytic Expression in Killer T Cells. Rudolf C. Kuppers and Christopher S. Henney


88 Regulatory Factors Produced by Lymphocytes. II. Inhibition of Cellular DNA Synthesis Associated with a Factor Inhibiting DNA Polymerase α Activity. Sheng-Chung Lee and Zoltan J. Lucas

129 Ionophorous Activity and Murine B Lymphocyte Mitogens. David L. Rosenstreich and Robert Blumenthal

151 Reaginic Antibody Formation in the Mouse. IX. Enhancement of Suppressor and Helper Cell Activities of Primed Spleen Cells. Kiyoshi Takatsu and Kimishige Ishizaka

159 The Effect of Locally Injected Vasoactive Amines on the Elicitation of Delayed-Type Hypersensitivity. Anthony Schwartz, Philip W. Askenase, and Richard K. Gershon


235 Delineation and Quantitation of Human Peripheral Blood Lymphocyte Subpopulations by Electrophoretic Mobility and Role of Surface Charge in Cell to Cell Interaction. S. N. S. Hanjan, G. P. Talwar, Zeba Kidwai, and Indira Nath


270 Quantitative Immunoassay of Adenosine Deaminase in Combined Immunodeficiency Disease. Dennis A. Carson, Randall Goldblum, and J. E. Seegmiller

CLINICAL IMMUNOLOGY

12 Hereditary C5 Deficiency in Man. III. Studies of Hemostasis and Platelet Responses to Zymosan. R. T. Breckenridge, S. I. Rosenfeld, K. S. Graff, and J. P. Leddy


62 The Active E-Rosette Test: A Sensitive in Vitro Correlate for Human Delayed-Type Hypersensitivity. Peter J. Felsburg and Robert Edelman

187 Monocyte Function in Man. Mary C. Territo and Martin J. Cline

235 Delineation and Quantitation of Human Peripheral Blood Lymphocyte Subpopulations by Electrophoretic Mobility and Role of Surface Charge in Cell to Cell Interaction. S. N. S. Hanjan, G. P. Talwar, Zeba Kidwai, and Indira Nath


270 Quantitative Immunoassay of Adenosine Deaminase in Combined Immunodeficiency Disease. Dennis A. Carson, Randall Goldblum, and J. E. Seegmiller
CONTENTS

**IMMUNOCHEMISTRY**

67 Structural Analysis of the Peptides Derived from Specific Acid-Catalyzed Hydrolysis at Aspartylprolyl Peptide Bonds in Human J Chain. **John E. Mole, Ajit S. Bhown, and J. Claude Bennett**


103 Isolation and Characterization of Guinea Pig Properdin. **Anne Nicholson and K. Frank Austen**

198 C567-Initiated Cytolysis of Lymphoid Cells: Description of the Phenomenon and Studies on Its Control by C567-Inhibitors. **Patricia J. Baker, Thomas F. Lint, Richard F. Mortensen, and Henry Gewurz**

223 Interaction of DNP-Antigens with the First Component of Complement (C1). **Michael Loos and Wolfgang König**

**IMMUNOGENETICS AND TRANSPLANTATION**


264 The Immunologic and Molecular Profiles of HLA Antigens Isolated from Urine. **R. A. Reisfeld, M. A. Pellegrino, and S. Ferrone**

**IMMUNOPATHOLOGY**

17 Cytophilic Antibodies in Experimental Autoimmune Myasthenia Gravis. **Ruben D. Martinez, Rebeca Tarrañ-Hazdai, Aharon Aharonov, and Sara Fuchs**

137 Histamine Modulation of Eosinophil Migration. **Richard A. F. Clark, Jeffrey A. Sandler, J. I. Gallin, and Allen P. Kaplan**

146 Immunologic Reactivity of the Lung. III. Effects of Corticosteroids on Alveolar Macrophage Cytotoxic Effector Cell Function. **Gary W. Hunninghake and Anthony S. Fauci**

**TUMOR IMMUNOLOGY**

55 Affinity in Radioimmunoassay of Antibody Cross-Reactive with Carcinoembryonic Antigen (CEA) and Colon Carcinoma Antigen-III (CCA-III). **F. James Primus, Edward S. Newman, and Hans J. Hansen**

122 Passive Transfer of Systemic Tumor Immunity with Cells Generated in Vitro by a Secondary Immune Response to a Syngeneic Rat Gross Virus-Induced Lymphoma. **Irwin D. Bernstein**

175 Anti-Thymocyte Autoimmunity in BALB/c Mice Accompanying Immunization to a Syngeneic Lymphoma. **F. Samuel Baechtel and Morton D. Prager**

208 Reversal of SV40 Tumor-Mediated Suppression of Spleen Cell Cytotoxicity by Antibody. **Susanne O. Prather and Robert N. Lausch**

218 Immunosuppression of T Lymphocyte Function by Fractionated Serum from Tumor-Bearing Mice. **Robert McMaster, Karen Buhler, Richard Whitney, and Julia G. Levy**

309 Acute Lymphoblastic Leukemia (ALL) Antigens Detected with Antisera to E Rosette-Forming and Non-E Rosette-Forming ALL Blasts. **Luis Borella, Luisa Sen, and James T. Casper**

330 F, Resistance to AKR Lymphoma Cells in Vivo and in Vitro. **Anne-Marie Schmitt-Verhulst and Marion M. Zatz**


**VIRAL AND MICROBIAL IMMUNOLOGY**

6 A Disaccharide Hapten from Streptococcal Group C Carbohydrate that Cross-Reacts with the Forssman Glycolipid. **John E. Coligan, Blair A. Fraser, and Thomas J. Kindt**

109 Effect of Sensitization with Propionibacterium Acnes on the Growth of Listeria Monocyto genes and Treponema Pallidum in Rabbits. **Robert E. Baughn, Daniel M. Musher, and John M. Knox**

114 Immune Interactions with Cells Infected with Herpes Simplex Virus: Antibodies to Radiiodinated Surface Antigens. **Joseph C. Glorioso and Jerry W. Smith**
256 Defense Mechanisms against Primary Influenza Virus Infection in Mice. I. The Roles of Interferon and Neutralizing Antibodies and Thymus Dependence of Interferon and Antibody Production. Tatsuo Iwasaki and Tokukiti Nozirna


291 Cell-Mediated Cytotoxicity against Measles Virus in SSPE. I. Enhancement by Antibody. Hans W. Kreth and Volker ter Meulen

296 Cell-Mediated Cytotoxicity against Measles Virus in SSPE. II. Analysis of Cytotoxic Effector Cells. Hans W. Kreth and Gerd Wiegand

316 The Formation and Fate of Virus Antigen-Antibody Complexes. Luc H. Perrin and Michael B. A. Oldstone

348 Host Cell Modification of Lymphocytic Choriomeningitis Virus and Newcastle Disease Virus Altering Viral Inactivation by Human Complement. Raymond M. Welsh, Jr.

COMMUNICATIONS

369 Coincident Hepatitis B Surface Antigen and Antibodies of Different Subtypes in Human Serum. Edward Tabor, Robert J. Gerety, Linda A. Smallwood, and Lewellys F. Barker

371 Immunization with p30 Enhances the Growth of a Rat Moloney Sarcoma. Joe M. Jones, Stephen J. Kennel, and Joseph D. Feldman


ANNOUNCEMENTS

377 ERRATUM

380 AUTHOR INDEX

NUMBER 2, FEBRUARY 1977

CELLULAR IMMUNOLOGY

381 Direct and Cooperative Mechanisms of Lymphocyte Triggering in Liquid and Solid Cultures. Esteban Kondracki and Felix Milgrom

405 α-Fetoprotein and Human Lymphocyte Subpopulations. Sudhir Gupta and Robert A. Good

446 Antigen-Induced Alterations in Splenic Prostaglandin and Cyclic Nucleotide Levels in NZB Mice. D. R. Webb, J. Nowowiejski, M. Dauphiné, and N. Talal

485 Suppression of IgE Antibody Production in SJL Mice. II. Expression of Ly-1 Antigen on Helper and Non-specific Suppressor T Cells. Naohiro Watanabe, Somei Kojima, Fung-Win Shen, and Zoltan Ovary

529 Endothelial Proliferation in the Delayed Hypersensitivity Reaction: An Autoradiographic Study. Peter J. Polverini, Remzi S. Cotran, and Milton M. Sholley

544 Antigen Recognition: The Specificity of an Isolated T Lymphocyte Population. Philip P. Stashenko and Stuart F. Schlossman

584 Antigen-Specific T Cell Factors: A Fine Analysis of Specificity. Ronit Isac and Edna Moses


642 Enhancement by Irradiated T Cells of Human Plasma Cell Production: Dissection of Helper and Suppressor Functions in Vitro. Frederick P. Siegel and Marta Siegal

CLINICAL IMMUNOLOGY


455 Bullous Pemphigoid Antigen: Isolation from Normal Human Skin. Luis A. Diaz, Nickolas J. Calvanico, Thomas B. Tomasi, Jr., and Robert E. Jordon

540 Histaminase Release from Human Eosinophils. Robert S. Zeiger and Harvey R. Colten


567 The Mononuclear Cell in Human Blood Which Mediates Antibody-Dependent Cellular Cytotoxicity to Virus-Infected Target Cells. II. Identification as a K Cell. F. Michael Melewick, Steven L. Shore, Edwin W. Ades, and Don J. Phillips

625 Identification of Human Peripheral T Cell Antigen. Hirofumi Koshiba, Yoshifumi Ishii, Norburu Yamanaoka, and Kokichi Kikuchi

630 Primary in Vitro Antibody Response from Human Peripheral Blood Lymphocytes. Jean-François Delfaissy, Pierre Galanaud, Jean Dormont, and Christine Wallon
Complement-Induced Histamine Release from Human Basophils. III. Effect of Pharmacologic Agents. William A. Hook and Reuben P. Siraganian

Characterization of DNA Used to Assay Sera for Anti-DNA Antibodies; Determination of the Specificities of Anti-DNA Antibodies in SLE and Non-SLE Rheumatic Disease States. Joseph D. Locker, M. Edward Medof, Robert M. Bennett, and Suriitra Sukhupunyaraksa

IMMUNOCHEMISTRY

Characterization of Two Species of Fc Fragments Obtained from Rat IgG2α by Prolonged Papain Digestion. William P. Arend, Mark A. Hermodson, and David C. Teller

Catabolism and Biologic Properties of Two Species of Rat IgG2α Fc Fragments. William P. Arend and Douglas E. Webster

Structural and Genetic Studies on Chicken 7S Immunoglobulin Allotypes. II. Distribution of Allotypes on the 7S Immunoglobulin of Homozygous and Heterozygous Chickens. Edward K. Wakeland, Albert A. Benedict, and Hans A. Abplanalp

Species Specificity in the Isoelectric Spectra of Immunoglobulin Light Chains. David M. Gibson

Activation of the Alternative Pathway by Pneumococcal Cell Walls. Jerry A. Winkelstein and Alexander Tomasz

Isolation and Characterization of Immunoregulatory Factors from Normal Human Serum. I. Preliminary Biochemical and Biologic Characterization of Immunosuppressive Factors. Madelene Voorting-Hawking and J. Gabriel Michael


Complement Activation by Measles Virus Cytotoxic Antibodies. Alternative Pathway C Activation by Hemagglutination Inhibition Antibodies but Classical Activation by Hemolysin Antibodies. Annette C. Ehrnst

Partial Characterization of Nervous System-Specific Cell Surface Antigen(s) NS-2. Dorothy Yuan, Ellen S. Vitetta, and Melitta Schachner


In Vivo Suppression of the Primary Immune Response by A Species of Low Density Serum Lipoprotein. Linda K. Curtiss, David H. DeHeer, and Thomas S. Edgington

Innate Immune Reactivity of Purified Human Urinary Kallikrein (Urokallikrein) with Antiserum Directed against Human Pancreas. Onesmo ole-MoiYoi, Jocelyn Spragg, Seymour P. Halbert, and K. Frank Austen

IMMUNOGENETICS AND TRANSPLANTATION

A New Histogenetic Method for Minor Histocompatibility Antigen Typing. Véra Hauptfeld and Jan Klein

Ir-Gene Control of Antibody Class Production. Hubert Kolb, Klaus Keck, Massoud Momayez, Cornelia Schicker, and Dorothea Triasil

Histocompatibility Requirements for Cellular Cooperation in the Chicken: Generation of Germinal Centers. Auli Toivanen and Paavo Toivanen

Differential Effects of Alloimmunization on T Cells Mediating Graft-vs-Host Splenomegaly or the Allogeneic Effect in F1 Mice. Herbert C. Morse III, Vilho J. Pasanen, and Richard Asofsky

The Direct Antiviral Cytotoxicity by Bovine Lymphocytes Is Not Restricted by Genetic Incompatibility of Lymphocytes and Target Cells. Barry T. Rouse and Lorne A. Babiuk

Suppressor T Cells Arising in Mice Undergoing a Graft-vs-Host Response. Karin Pickel and Michael K. Hoffmann

Immune Competence of Splenic Lymphocytes following Graft-vs-Host Disease in Mouse Allogeneic Radiation Chimeras. Paul Urso and Nazareth Gengozian

IMMUNOPATHOLOGY


Inhibition of Cls-Induced Vascular Leakage in Guinea Pigs by Substituted Benzamidine and Pyridinium Compounds. Judith M. Andrews, Fred S. Rosen, Shonni J. Silverberg, Michael Cory, Eveline E. Schneeberger, and David H. Bing

Spleen-Derived Mononuclear Cell Chemotactic Factor in Malaria Infections: A Possible Mechanism for Splenic Macrophage Accumulation. David J. Wyler and John I. Gallin

Studies of the Mechanism of the Human Platelet Release Reaction Induced by Immunologic Stimuli. III. Relationship between the Binding of Soluble IgG Aggregates to the FC Receptor and Cell Response in the Presence and Absence of Plasma. Sharron L. Pfueller, Susanne Weber, and Ernst F. Lüscher

Reduction in Basal Adenylate Cyclase Activity during the Immunologic Release of Histamine from Guinea Pig Lung. Margaret Hitchcock

Experimental Cell-Mediated Interstitial Nephritis Induced with Exogenous Antigens. Matthew J. Van Zwieten, Paul D. Leber, Atul K. Bhan, and Robert T. McCluskey
CONTENTS

TUMOR IMMUNOLOGY

412 Characterization of Suppressor Cells in Mice Bearing Syngeneic Mastocytoma. Fumio Takei, Julia G. Levy, and Douglas G. Kilburn


494 Antibody-Mediated Suppression of Tumor Growth. II. Macrophage and Platelet Cooperation with Murine IgG1 Isolated from Alloantisemur. Robert J. Johnson, Gary R. Pasternack, and Hyun S. Shin


560 Immunologic Characterization in Relation to High and Low Leukemogenic Activity of Radiation Leukemia Virus Variants. I. Cellular Analysis of Immunosuppression. Nechama Hanar-Ghera, Miriam Ben-Yaakov, and Alpha Peled

567 Immunologic Characterization in Relation to High and Low Leukemogenic Activity of Radiation Leukemia Virus Variants. II. Analysis of the Immune Response. Nechama Hanar-Ghera and Nazario Rubio

586 Immunity to Lymphoid Tumors Induced in Syngeneic Mice by Immunization with Mitomycin C-Treated Cells. Eli Benjamini, Sherman Fong, Caroline Erickson, Cherry Y. Leung, Donna Rennick, and Robert J. Scibienaki

598 Suppression of Humoral Immune Response by Plasmacytomas: Mediation by Adherent Mononuclear Cells. Jean-Pierre Kolb, Shelley Arrian, and Susan Zolla-Pazner

VIRAL AND MICROBIAL IMMUNOLOGY

437 Purification of a Chlamydia Trachomatis-Specific Antigen by Immunoadsorption with Monospecific Antibody. Harlan D. Caldwell and Cho-chou Kuo

442 Serologic Diagnosis of Lymphogranuloma venereum by Counterimmunoelectrophoresis with a Chlamydia trachomatis Protein Antigen. Harlan D. Caldwell and Cho-chou Kuo

472 Cyclophosphamide-Induced Specific Suppression of the Protective Immune Response to Rodent Malaria. Robert A. Wells, Carter L. Diggs, and S. Michael Phillips


596 Genetic Factors Influencing Mouse Type-C RNA Virus Induction by Naturally Occurring B Cell Mitogens. S. Michael Phillips, John R. Stephenson, and Stuart A. Aaronson

612 Antigenic Specificity of Opsonophagocytic Antibodies in Rabbit Antisera to Group B Streptococci. Robert S. Baltimore, Dennis L. Kasper, Carol J. Baker, and Diana K. Goroff

740 Effects of Local Immunization with Glucosyltransferase Fractions from Streptococcus mutants on Dental Caries in Rats and Hamsters. Martin A. Taubman and Daniel J. Smith

COMMUNICATIONS

721 Differential Effects of Interferon on the Expression of H-2K, H-2D, and Ia Antigens on Mouse Lymphocytes. Françoise Vignaux and Ion Gresser

723 Activation of the Classical Complement Pathway by Fc Fragment of Human IgA. Mary F. Burritt, Nicholas J. Calvanico, Satish Mehta, and Thomas B. Tomasi, Jr.

726 Announcements

727 Author Index

NUMBER 3, MARCH 1977

CELLULAR IMMUNOLOGY

756 Fractionation of Lymphocytes Involved in the Generation of Cell-Mediated Cytotoxicity Over Insolubilized Conjugated Histamine Columns. Gene M. Shearer, Elizabeth Simpson, Yacob Weinstein, and Kenneth L. Melmon

789 Lipopolysaccharide-Induced Suppression of the Primary Immune Response to a Thymus-Dependent Antigen. Ulla Persson

840 Regulation of Antibody Response in Different Immunoglobulin Classes. II. Induction of in Vitro IgE Antibody Response in Murine Spleen Cells and Demonstration of a Possible Involvement of Distinct T-Helper Cells in IgE and IgG Antibody Responses. Masao Kimoto, Tadamitsu Kishimoto, Sanai Noguchi, Takeshi Watanabe, and Yuichi Yamamura

846 Age-Related Decrease in Mouse T Cell Progenitors. Marvin L. Tyan


863 Cross-Linking of T Cell Mitogens: Effects on B and T Cell Proliferation and Immunoglobulin Synthesis. T. Y. Basham and M. J. Waxdal
1977 CONTENTS

803 Relationship between Trinitrophenyl and H-2 Antigens on Trinitrophenyl-Modified Spleen Cells. II. Correlation between Derivatization of H-2 Antigens with Trinitrophenyl and the Ability of Trinitrophenyl-Modified Cells to React Functionally in the CML Assay. James Forman, Ellen S. Vitetta, and David A. Hart

809 Immune Responses to Immunization via the Anterior Chamber of the Eye. I. F, Lymphocyte-Induced Immune Deviation. Henry J. Kaplan and J. Wayne Streilein

832 Analysis of the Major Histocompatibility Complex in Syrian Hamsters. III. Cellular and Humoral Immunity to Allantigens. William R. Duncan and J. Wayne Streilein

909 Interaction with Homologous Erythrocytes of Rat T Cells Which Act as Aggressors in the Mixed Lymphocyte Reaction. Frances L. Owen, Stephen V. Stux, and Alfred Nisonoff

943 Distribution of Allantigens on Human Fc Receptor-Bearing Lymphocytes: The Presence of B Cell Allantigens on sIg-Positive but Not sIg-Negative Lymphocytes. David L. Nelson, Warren Strober, Leslie D. Abelson, Bonita M. Bundy, and Dean L. Mann


IMMUNOPATHOLOGY

762 A Neutrophil Chemotactic Factor and Its Inhibitors Found in DNCB-Induced Skin Inflammatory Lesions. Toru Baba, Kayoko Tazaki, Hidekichi Sonozaki, and Motomichi Torisu

803 Histamine-Induced Inhibition of Normal Human Basophil Chemotaxis to C5a. Michael A. Lett-Brown and Edward J. Leonard


1070 Role of the Immune Response in Recovery from Sindbis Virus Encephalitis in Mice. Diane E. Griffin and Richard T. Johnson

TUMOR IMMUNOLOGY

742 Mitogen Activation of Human Chronic Lymphatic Leukemia Cells. I. Synthesis and Secretion of Immunoglobulin. Vernon C. Maino, James T. Kurnick, Ralph T. Kubo, and Howard M. Grey

786 Identification of the Schwann Cell as a Peripheral Nervous System Cell Possessing a Differentiation Antigen Expressed by a Human Lung Tumor. C. Elliott Bell, Jr. and Shakuntla Seetharam

905 Effects of Lymphocytes from Marek's Disease-Infected Chickens on Mitogen Responses of Syngeneic Normal Chicken Spleen Cells. Gail A. Theis

920 Resistance to Murine Leukemia in Mice Receiving Simultaneous Injections of Syngeneic Hybrid and Parental Neoplastic Cells. Weize Liang and Edward P. Cohen

943 Specificities of Killing by Cytotoxic Lymphocytes Generated in Vivo and in Vitro to Syngeneic SV40 Transformed Cells. Linda R. Gooding


981 Inhibition of Antibody-Dependent Cellular Cytotoxicity by Protein A from Staphylococcus aureus. Joe Rosenblatt, Paul M. Zeltzer, Joe Portaro, and Robert C. Seeger

996 Activity of Tumor-Associated Lymphoid Cells at Short Intervals after Administration of Irradiated Syngeneic and Allogeneic Tumor Cells. Barbara Schick and Gideon Berke

1010 Receptors for IgM-Coated Erythrocytes on Chronic Lymphatic Leukemia Cells. Werner J. Pichler and Walter Knapp

VIRAL AND MICROBIAL IMMUNOLOGY

729 Human Monocyte-Macrophage-Mediated Antibody-Dependent Cytotoxicity to Herpes Simplex Virus-Infected Cells. Steve Kohl, Stuart E. Starr, James M. Oleske, Steven L. Shore, Robert B. Ashman, and André J. Nahmias
CONTENTS


928 Characterization of the Blastogenic and Cytotoxic Responses of Normal Mice to Ecotropic C-Type Viral gp71. John C. Lee and James N. Ihle

COMMUNICATIONS

1119 Effect of Levamisole on the Human Monocyte IgG Receptor. Alan D. Schreiber and Janey N. Parsons

1122 Suppression of Adult Rat Lymphoid Proliferative Responses by Homologous Neonatal Serum. Arthur Weiss

1124 Announcements

1126 Errata

1127 Author Index

NUMBER 4, APRIL 1977

CELLULAR IMMUNOLOGY


1154 Cyclic Antibody Formation to Polyglycerophosphate in Normal and Injected Rats. Ronald W. Bolton, Harry Rozmiarek, and Frank W. Chorpenning


1208 B Lymphocyte Colony-Forming Cells in the SJL/J Mouse Thymus. Mogens H. Claesson and Donald Metcalf

1213 Effects of Carrageenan on Immune Responses. I. Studies on the Macrophage Dependency of Various Antigens after Treatment with Carrageenan. Shigeaki Ishizaka, Shuzo Otani, and Seiji Morisawa

1223 Stem Cell Lines from Old Immunodeficient Donors Give Normal Responses in Young Recipients. David E. Harrison, Clinton M. Astle, and John W. Doubleday


1265 Mechanisms of B Cell Tolerance. I. Tolerance to Dextran B1355 Induced with the Oxidized Dextran. Richard B. Bankert, George L. Mayers, and David Pressman

1306 Recall of Specific Suppression: Co-dominance of Suppression after Primary or Secondary Antigen Stimulation. Diane D. Eardley and Eli E. Sorocarz

1311 Antigen-Binding Lymphocytes in Guinea Pigs. I. B Cell Expansion to the Monovalent Antigen L-tyrosine-p-azophenyltrimethylammonium (tyr(TMA)) in the Absence of Antibody Production. Charles A. Prange, Christopher Green, Danute E. Nitecki, and Clifford J. Bellone


1366 The Quantitative Production of Interferon by Mitogen-Stimulated Mouse Lymphocytes as a Function of Age and Its Effect on the Lymphocytes Proliferative Response. Jochen W. Heine and William H. Adler

1391 Long-Term Effects of in Vitro Sensitization on Immune Reactivity of Lymphocytes: Generation of Suppressor and Helper T Cells. Eva L. Chan, Patricia B. Kan, and Robert I. Mishell


1435 Regulation of Lipopolysaccharide-Induced Granulopoiesis and Macrophage Formation by Spleen Cells. I. Relationship between Colony-Stimulating Factor Release and Lymphocyte Activation in Vitro. Ron N. Apte, Chanita F. Hertogs, and Dov H. Pluznik


CLINICAL IMMUNOLOGY

1150 Human Bone Marrow Lymphocytes. III. Polyclonal Activation of B Lymphocytes in Human Bone Marrow Measured by a Direct Plaque-Forming Cell Assay. Anthony S. Fauci and Karen R. Pratt
CONTENTS

Measurement of IgE on Human Basophils: Relation to Serum IgE and Anti-IgE-Induced Histamine Release. Mary Carol Conroy, N. Franklin Adkinson, Jr., and Lawrence M. Lichtenstein


IMMUNOCHEMISTRY

Recovery of Soluble Sheep Erythrocyte Receptor from the T Lymphocyte Surface by Proteolytic Cleavage. Francis V. Chisari, W. James Gealy, and Thomas S. Edgington

Topographic Determinants on Cytochrome c. I. The Complete Antigenic Structures of Rabbit, Mouse, and Guanaco Cytochromes c in Rabbits and Mice. G. J. Urbanski and E. Margoliash

Membrane Transport by Murine Lymphocytes. II. The Appearance of Thymidine Transport in Cells from Concanavalin A-Stimulated Mice. Phyllis R. Strauss, James M. Sheehan, and Eva R. Kashket

Binding of Affinity Cross-Linked Oligomers of IgG to Cells Bearing Fe Receptors. David M. Segal and Esther Hurwitz

The Biologic Activity of Affinity Cross-Linked Oligomers of Rabbit Immunoglobulin G as Tested by Antibody-Dependent Cell-Mediated Cytolysis (ADCC). Esther Hurwitz, Marion M. Zatz, and David M. Segal

The Reactions of Antibodies of Paragloboside (Lacto-N-Neotetraosyl Ceramide) with Human Erythrocytes and Lymphocytes. Gerald A. Schwarting and Donald M. Marcus

IMMUNOGENETICS AND TRANSPLANTATION

Inhibition of the Mixed Lymphocyte Culture Response with Anti-Lyb-4.1 Serum. John G. Freund, Aftab Ahmed, Martin E. Dorf, Kenneth W. Sell, and Robert E. Humphreys

In Vitro Secondary MLR. I. Kinetics of Proliferation and Specificity of in Vitro Primed Responder Cells. C. G. Fathman, D. Collavo, S. Davies, and M. Nabholz


Genetics of Cell-Mediated Lympholysis in Man. Raif S. Geha, Artin Malakian, Orietta Geha, and Edmond Yunis

Priming for a Cytotoxic Response to Minor Histocompatibility Antigens: Antigen Specificity and Failure to Demonstrate a Carrier Effect. Michael J. Bevan

Additional Rabbit IgA Allotypes, f89, f70, g76, g77: Control by the Caf and Cag Loci. John M. Lammert, Sheldon Drey, Katherine L. Knight, and W. Carey Hanly

Genetic Control of the Humoral Response to an H-2 Public Specificity. Ted H. Hansen, Susan E. Cullen, Nobukata Shinohara, Elizabeth Schurko, and David H. Sachs

H-2 Homology Requirements for Secondary Cell-Mediated Lympholysis and Mixed Lymphocyte Reactions to TNP-Modified Syngeneic Lymphocytes. Anne-Marie Schmitt-Verhulst, Carol A. Garbarino, and Gene M. Shearer

The Effect of Cyclophosphamide on the Specific Unresponsiveness to Skin Allografts Induced in ALS-Treated Mice Infused with Donor Bone Marrow. Mary L. Wood and Anthony P. Monaco

Ala-1: A Murine Alloantigen of Activated Lymphocytes. II. T and B Effector Cells Express Ala-1. Ann J. Feeney and Ulrich Hämmerling

IMMUNOPATHOLOGY


Experimental Allergic Encephalomyelitis in the Lewis Rat: Further Delineation of Active Sites in Guinea Pig and Bovine Myelin Basic Proteins. Russell E. Martenson, Kohji Nomura, Seymour Levine, and Richard Souwinski

Modulation of Macrophage C3b Receptor Function by Cytochalasin-Sensitive Structures. John P. Atkinson, J. Mark Michael, Hugh Chaplin, Jr., and Charles W. Parker

The Role of an Activatable Esterase in Immune-Dependent Phagocytosis by Human Neutrophils. Robert A. Musson and Elmer L. Becker

Use of Bovine Conglutinin for the Assay of Immune Complexes. Robert A. Eisenberg, Argyrios N. Theofilopoulos, and Frank J. Dixon

TUMOR IMMUNOLOGY

Multiple Occurrence of Spontaneous AKR/J Lymphomas with T and B Cell Characteristics. Robert S. Greenberg, Bonnie J. Mathieson, Pamela S. Campbell, and Marion M. Zatz

Stimulation of Mouse Migration Inhibitory Factor (MIF) Production from MSV-Immune Lymphocytes by Soluble Tumor-Associated Antigen: Requirement for Histocompatible Macrophages. Santo Landolfo, Ronald B. Herberman, and Howard T. Holden
Studies of H-2 Restriction in Cell-Mediated Cytotoxicity and Transplantation Immunity to Leukemia-Associated Antigens. Chou-Chik Ting, and Lloyd W. Law

A Human Alloantiserum Precipitates Ia-Like Molecules from Chronic Lymphocytic Leukemia Cells. Sten Nilsson, Benjamin D. Schwartz, Myron Waxedal, Ira Green, Susan E. Cullen, and Dean L. Mann

Hypogammaglobulinemia in Experimental Myeloma: The Role of Suppressor Factors from Mononuclear Phagocytes. Randall S. Krakauer, Warren Strober and Thomas A. Waldmann

The Allogeneic Effect on Tumor Growth. I. Inhibition of a Murine Plasmacytoma, MOPC 315, by the Graft-vs-Host Reaction. David P. Osborne, Jr. and David H. Katz

The Allogeneic Effect on Tumor Growth. II. Suppression of Both Ascitic and Solid MPOC 315 Plasmacytoma by the Graft-vs-Host Reaction, with Pathologic Correlation. David P. Osborne, Jr. and David H. Katz

In Vitro Reactivity of Splenic Lymphocytes from Normal and UV-Irradiated Mice against Syngeneic UV-Induced Tumors. G. William Fortner and Margaret L. Kripke

Suppression of Natural Killer Cell Activity with Radioactive Strontium: Effector Cells are Marrow Dependent. Otto Haller and Hans Wigzell

Interactions between Human Lymphocytes and Paramyxovirus-Infected Cells: Adsorption and Cytotoxicity. Bengt Härfast, Torbjörn Andersson, Vera Stejskal, and Peter Perlmann

Generation of Cytotoxic T Lymphocytes during Coxsackievirus B-3 Infection. I. Model and Viral Specificity. Catherine Y. Wong, Judith J. Woodruff, and Jack F. Woodruff

Generation of Cytotoxic T Lymphocytes during Coxsackievirus B-3 Infection. II. Characterization of Effector Cells and Demonstration of Cytotoxicity against Viral-Infected Myofibers. Catherine Y. Wong, Judith J. Woodruff, and Jack F. Woodruff


Influence of H-2 Complex on Susceptibility to Infection by Murine Leukemia Virus. Henry St. G. Tucker, Joan Weens, Philip Tsichlas, Robert S. Schwartz, Raman Khroya and Judith Donnelly


Immunochemistry and Polypeptide Composition of Hepatitis B Core Antigen (HB.Ag). Agata Budkowska, J.Wai-Kuo Shih, and John L. Gerin

Evidence That Human α-Lymphotoxin is Not an RNase. Jeffrey Moy and Werner Rosenau

Announcements

Erratum

Author Index
Inability of Choleragenoid-Sensitized Cells to Induce T Cell-Mediated Cytolysis. 
James Forman and Richard A. Finkelstein

Studies on the Role of the Thymus and T Cells in the in Vivo Suppression of Delayed Hypersensitivity (Desensitization): Radiosensitivity of the Mechanism Inducing Nonspecific Anergy. 
Kristian Thesstrup-Pedersen, John M. Dwyer, and Philip W. Askenase

In Vitro Augmentation of Lymphocyte Sheep Rosette Formation by Leukocyte Dialysates. 
Robert S. Holzman and H. Sherwood Lawrence

The Role of the Macrophage as the Stimulator Cell in Contact Sensitivity. 
David W. Thomas, Guido Forni, Ethan M. Shevach, and Ira Green

The in Vitro Effects of Histamine and Metiamide on Neutrophil Motility and Their Relationship to Intracellular Cyclic Nucleotide Levels. 
Ronald Anderson, Annemarie Glover, and Arthur R. Rabson

Immunosuppressive Activity of Human Seminal Plasma. I. Inhibition of in Vitro Lymphocyte Activation. 
Edith M. Lord, George F. Sensabaugh, and Daniel P. Stites

Immunologic Reactivity of the Lung. V. Regulatory Effects of Antibody on the Pulmonary Immune Response to Locally Administered Antigen. 
Gary W. Hunnghake and Anthony S. Fauci

Histamine-Induced Suppressor Factor (HSF): Effect on Migration Inhibitory Factor (MIF) Production and Proliferation. 
Rose E. Rocklin

Complement-Dependent and -Independent Pathways of T Cell-B Cell Cooperation. 
George K. Lewis, Raymond Ranken, and Joel W. Goodman

Specific Binding of T Lymphocytes to Macrophages. I. Kinetics of Binding. 
Mary F. Lipscomb, Shlomo Z. Ben-Sasson, and Jonathan W. Uhr

T Cell-Mediated Cytotoxicity against Trinitrophenyl-Modified Cells: Effect of Glutaraldehyde Treatment on the Immunogenicity and Antigenicity of Trinitrophenyl-Modified Cells. 
James Forman

Thymic Maturation in Vitro by a Secretory Product from Macrophages. 
David I. Belter and Emil R. Ur

The Class of Surface Immunoglobulin on Virgin and Memory B Lymphocytes. 
Robert L. Coffman and Melvin Cohn

Enhancement of Carrier-Mediated Transport after Immunologic Activation of Peritoneal Macrophages. 
Peter F. Bonventre, David Straus, Robert E. Baughn, and John Imhoff

Mechanisms of Humoral Cytotoxicity Testing: The Role of Rabbit Serum, Xenoantibody, and Human IgM. 
Eugene A. Quindlen, William C. Wood, and Paul L. Kornbith

Modulation of Lipopolysaccharide (LPS)-Mediated Function by Structural Differences of Two Physically Distinct Fractions of Escherichia coli K255 LPS. 
Michael G. Goodman, David C. Morrison, and William O. Weigle

Immunologic Tolerance to HGG in Mice. I. Suppression of the HGG Response in Normal Mice with Spleen Cells or a Spleen Cell Lysate from Tolerant Mice. 
Tom B. Jones and Alan M. Kaplan

CLINICAL IMMUNOLOGY

David A. Horwitz and Martha Anne Garrett

Sequential Proliferation Induced in Human Peripheral Blood Lymphocytes by Mitogen. I. Growth of 1000 Lymphocytes in Feeder Layer Cultures. 
Larry A. Winger, Peter C. Nowell, and Ronald P. Daniele

Sequential Proliferation Induced in Human Peripheral Blood Lymphocytes by Mitogen. II. Suppression by PHA-Activated Cells. 
Larry A. Winger, Peter C. Nowell, and Ronald P. Daniele

Variability of the Lytic Susceptibility of Neisseria gonorrhoeae to Human Sera. 
Edmund C. Tramont, Jerry C. Sadoff, and Clarence Wilson

Regulation of Immunoglobulin Production in Human Peripheral Blood Leukocytes: Cellular Interactions. 
Andrew Saxon, Ronald H. Stevens, and Robert F. Ashman

IMMUNOGENETICS AND TRANSPLANTATION

Identification and Genetic Control of the n83 and n84 Allotypes of Rabbit IgM. 
Alice Gilman-Sachs and Sheldon Drey

Studies of Viral Antibody Responses among Amish Families. 
Shyuan Hsia, David N. Howell, D. Bernard Amos, and Max A. Woodbury

Murine Plasma Cells Secreting More Than One Class of Immunoglobulin Heavy Chain. II. SAMM 368—A Plasmacytoma Secreting IgG2b-κ and IgA-κ Immunoglobulins Which Do Not Share Idiotypic
CONTENTS


1795 Specificity of Rat Xenogeneic Cell-Mediated Cytolysis for the Products of the K and D Loci of the Mouse H-2 Complex. Steven J. Burakoff, Martin E. Dorf, and Baruj Benacerraf

1799 Studies on Cellular Inhibition and Serum-Blocking Factors in 28 Human Patients Given Marrow Grafts from HLA Identical Siblings. Mang-So Tsio, Rainer Storb, Paul L. Weiden, and E. Donnall Thomas

1822 Inherited Polymorphism of Guinea Pig Factor B and C4: Evidence for Genetic Linkage between the C1 and Bf Loci. Dieter Bitter-Suermann, Martin Kr6nke, Volker Brade, and Ulrich Hadding

1886 Regulatory Mechanisms in Cell-Mediated Immune Responses. II. Comparison of Culture-Induced and Alloantigen-Induced Suppressor Cells in MLR and CML. Lee M. Nadler and Richard J. Hodes

1896 Preferential Assignment of Allotype a1 Globulin for the Production of Early IgM Anti-para-azo-benzenearsonate Antibodies in Heterozygous a1a1 Rabbits. Chau-Chun Chien and Joseph S. Igraham

IMMUNOPATHOLOGY

1524 Effects of Neonatal Thymectomy and Splenectomy on Survival and Regulation of Autoantibody Formation in NZB/NZW F~ Mice. Jirayr R. Roubian, Ruben Papoian, and Norman Talal

1569 Accumulation of Platelets at Sites of Antigen-antibody-Mediated Injury: A Possible Role for IgE Antibody and Mast Cells. Thomas C. Kravis and Peter M. Henson

1586 Neutropenia Induced by Systemic Infusion of Chemotactic Factors. Joseph T. O'Flaherty, Henry J. Showell, and Peter A. Ward

1639 Studies on Antigen-Induced Arthritis in Mice. II. Immunologic Correlates of Arthritis Susceptibility in Mice. Dieter Brackertz, Graham F. Mitchell, Mathew A. Vadas, Ian R. Mackay, and Jacques F. A. P. Miller

1645 Studies on Antigen-Induced Arthritis in Mice. III. Cell and Serum Transfer Experiments. Dieter Brackertz, Graham F. Mitchell, Mathew A. Vadas, and Ian R. Mackay

1697 In Vitro Induction of Polyclonal Killer T Cells with 2-Mercaptoethanol and the Essential Role of Macrophages in This Process. Tsuyoshi Igarashi, Masaji Okada, Tadamitsu Kishimoto, and Yuichi Yamamura

TUMOR IMMUNOLOGY

1513 A Study of the Variable Heavy Chain (VH) Region of Membrane-Bound Ig on Human Chronic Leukemic Lymphocytes. Øystein Forre, Stig S. Frøland, Jacob B. Natvig, Terje E. Michaelsen, Peter M. Johnson, Bernt Ly, and Knut Laake

1517 Characteristics of the Immature Cells Involved in T Cell-Mediated Enhancement of Syngeneic Tumor Growth. Myra Small

1530 Functional Heterogeneity in Macrophages Activated by Corynebacterium parvum: Characterization of Subpopulations with Different Activities in Promoting Immune Responses and Suppressing Tumor Cell Growth. Kwok-Choy Lee and David Berry


1590 Cross-Reacting Antigens in Chemically Induced Sarcomas Are Fetal Determinants. George A. Parker and Steven A. Rosenberg

1622 Effect of Concanavalin A on the Classical Complement Pathway. John J. Langone, Michael D. P. Boyle, and Tibor Boros

1626 Effect of Concanavalin A on the Killing of Tumor Cells by Antibody and Complement. Michael D. P. Boyle, John J. Langone, Sarkis H. Ohanian, and Tibor Boros

1697 Tumor Growth and Antibodies after RSV-Challenge in Normal Chickens and in Chickens Congenitally Infected with Avian Leukosis Virus. Paul Meyers and Louis F. Quattre

VIRAL AND MICROBIAL IMMUNOLOGY

1541 Molecular Size and Subunit Structure of the Fourth Component of Guinea Pig Complement. Robert E. Hall and Harvey R. Cohn

1595 Immune Adjuvancy of Lipopolysaccharide and a Nontoxic Hydrolytic Product Demonstrating Oscillating Effects with Time. Ulrich H. Behling and Alois Nowotny

COMMUNICATIONS
1907 IgM-Induced Cell-Mediated Cytotoxicity with Antibody and Effector Cells of Human Origin. E. W. Fuson and E. W. Lamon

1910 Induction of Phenotypic Lymphocyte Differentiation in LPS Unresponsive Mice by an LPS-Induced Serum Factor and by Lipid A-Associated Protein. Scott Koenig, Michael K. Hoffmann, and Lewis Thomas

1912 LETTER TO THE EDITOR

1915 ANNOUNCEMENTS

1916 ERRATUM

1917 AUTHOR INDEX

NUMBER 6, JUNE 1977

CELLULAR IMMUNOLOGY

1931 Target Cells for Interferon Production in Human Leukocytes Stimulated by Sendai Virus. Tai Yamaguchi, Kazuko Handa, Yoshinobu Shimizu, Toru Abo, and Katsuq Kumagai

1936 Specific Restoration of Delayed Hypersensitivity by Lymphoid Tissue Extracts. Jon A. Green, Juliann Williams, and Hilton B. Levy

1944 Specificity and Structural Analysis of a Guinea Pig Transfer Factor-Like Activity. Wesley A. Dunnick and Fritz H. Bach

1982 IgE Formation in the Rat after Infection with Nippostrongylus brasiliensis. II. Proliferation of IgE-Bearing Cells in Neonatally Thymectomized Animals. Joseph F. Urban, Jr., Teruko Ishizaka, and Kimishige Ishizaka


2015 Two Migration Inhibitory Factors with Different Chromatographic Behavior and Isoelectric Points. Heinz G. Remold and Alma Mednis

2040 Heterologous Antiserum to Rat Lymphohemopoietic Precursor Cells. Irving Goldschneider

2053 Antigen Handling by Guinea Pig Macrophages: Further Evidence for the Sequestration of Antigen Relevant for Activation of Primed T Lymphocytes. Jerrold J. Ellner, Peter E. Lipsky, and Alan S. Rosenthal

2067 Studies on the Generation of B Lymphocytes in Fetal Liver and Bone Marrow. John J. T. Owen, Donald E. Wright, Sonoko Habu, Martin C. Raff, and Max D. Cooper

2078 Increased Responsiveness to Macrophage-Activating Factor (MAF) after Alteration of Macrophage Membranes. Willy F. Piessens, Heinz G. Remold, and John R. David

2094 Studies on Demyelination by Activated Lymphocytes in the Rabbit Eye. I. Effects of a Mononuclear Cell Infiltrate Induced by Products of Activated Lymphocytes. Gerald L. Stoner, Celia Fildes Brosnan, Henry M. Wisniewski, and Barry R. Bloom

2103 Studies on Demyelination by Activated Lymphocytes in the Rabbit Eye. II. Antibody-Dependent Cell-Mediated Demyelination. Celia Fildes Brosnan, Gerald L. Stoner, Barry R. Bloom, and Henry M. Wisniewski

2111 In Vitro Tolerance Induction of Bone Marrow Cells: A Marker for B Cell Maturation. Eleanor S. Metcalf and Norman R. Klinman

2125Suppressor Cells in Tolerance to HGG: Kinetics and Cross-Suppression in High Dose Tolerance—Absence in Low Dose Tolerance. D. C. Benjamin

2199 Molecular Control of B Cell Triggering by Antigen-Specific T Cell-Derived Helper Factor. C. Shiozawa, B. Singh, S. Rubinstein, and E. Diener


CLINICAL IMMUNOLOGY

1966 Effect of LDL-In, A Normal Immunoregulatory Human Serum Low Density Lipoprotein, on the Interaction of Macrophages with Lymphocytes Proliferating in Response to Mitogen and Allogeneic Stimulation. Linda K. Curtiss and Thomas S. Edgington

1977 Glucocorticoid Receptors in Purified Subpopulations of Human Peripheral Blood Lymphocytes. Marc Lippman and Ronald Barr

2004 Suppressor Lymphocytes in Young and Aged Humans. H. M. Hallgren and E. J. Yunis

2254 Quantitation of Measles Virus-Specific Immunoglobulins in Serum, CSF, and Brain Extract from Patients with Subacute Sclerosing Panencephalitis. P. D. Mehta, A. Kane, and H. Thormar

2281 Activation of Human B Lymphocytes. III. Concanavalin A-Induced Generation ofSuppressor Cells of the Plaque-Forming Cell Response of Normal Human B Lymphocytes. Barton F. Haynes and Anthony S. Fauci
IMMUNOCHEMISTRY

1962 A Spontaneously Occurring Complex of $\beta_2$-Microglobulin and a Fragment of $\gamma$-Chain of IgG: Isolation from the Urine of a Patient with Plasma Cell Leukemia and Characterization. Ben K. Seon and David Pressman


1987 Functional, Structural, and Antigenic Similarities of Guinea Pig Anti-phosphorylcholine Antibodies. Joyce Schroer and Joseph M. Davie

2047 The Subunit Composition and Sedimentation Properties of Human C1. Robert J. Ziccardi and Neil R. Cooper

2138 Sites of “Spontaneous” Degradation of IgD. Sanna M. Goyert, Tony E. Hugli, and Hans L. Spiegelberg

2145 Receptor-Binding Sites on C3 and C3b. Manfred P. Dierich and Viktor A. Bokisch

2161 Complete Sharing of Light Chain Spectrotypes by Murine IgM and IgG Anti-streptococcal Antibodies. Roger M. Perlmutter, David E. Briles, and Joseph M. Davie

The Subunit Composition and Sedimentation Properties of Human C1. Robert J. Ziccardi and Neil R. Cooper

SITES OF “SPONTANEOUS” DEGRADATION OF IgD. Sanna M. Goyert, Tony E. Hugli, and Hans L. Spiegelberg

Receptor-Binding Sites on C3 and C3b. Manfred P. Dierich and Viktor A. Bokisch

Complete Sharing of Light Chain Spectrotypes by Murine IgM and IgG Anti-streptococcal Antibodies. Roger M. Perlmutter, David E. Briles, and Joseph M. Davie

IMMUNOGENETICS AND TRANSPLANTATION

1951 Somatic Cell Hybrids between Mouse Peritoneal Macrophages and SV40-Transformed Human Cells. III. Identification of Surface Antigens Coded for by Human Chromosomes 7 and 17. Lucienne Cicurel and Carlo M. Croce

2020 Cellular Components of Allograft Rejection: Identity, Specificity, and Cytotoxic Function of Cells Infiltrating Acutely Rejecting Allografts. Terry B. Strom, Nicholas L. Tilney, Jean M. Paradysz, John Banciewicz, and Charles B. Carpenter

2034 Induction of Guinea Pig Antibody Responses in Vitro. Philip L. Cohen, Jerrold J. Ellner, and Ethan M. Shevach

2073 Immunosuppressive Factor(s) Specific for L-Glutamic Acid$^{14}$ L-Tyrosine$^{14}$ (GT). I. Production, Characterization, and Lack of H-2 Restriction for Activity in Recipient Strain. Carl Wallenbaugh, Patrice Debré, Jacques Thèze, and Baruj Benacerraf

2088 Ag-B-Linked Analogue of Ia Antigens in the Rat. Nobukata Shinohara, Susan E. Cullen, and David H. Sachs

2088 The Response of Recombinant Inbred Strains of Mice to Bacterial Lipopolysaccharides. James Watson, Roy Riblet, and Benjamin A. Taylor

2130 Rapid in Vitro Destruction of Semi-syngeneic and Allogeneic Cells by Nonimmunized Mice as a Consequence of Nonidentity at H-2. George A. Carlson and Thomas G. Wegman


IMMUNOPATHOLOGY

2027 Biphasic Effect of Cyclic AMP on IgG Production and on the Changes of Non-histone Nuclear Proteins Induced with Anti-immunoglobulin and Enhancing Soluble Factor. Tadamitsu Kishimoto, Yoshio Nishizawa, Hitoshi Kikutani, and Yuichi Yamamura

2151 Niridazole Suppression of Experimental Allergic Encephalomyelitis in Lewis Rats. Philip Y. Paterson, Johanne M. Hartrey, and Leslie T. Webster, Jr.


2288 The Effect of BCG on Experimental Cutaneous Leischmaniasis in Mice. Jonathan Weintraub and Fredric I. Weinbaum

TUMOR IMMUNOLOGY


1925 Characterization of Cytolytic Effector Cells in Peripheral Blood of Healthy Individuals and Cancer Patients. II. Cytotoxicity to Allogeneic or Autochthonous Tumor Cells in Tissue Culture. Gerd R. Pape, Marita Troye, and Peter Perlmann

A Functional Comparison of Human Fc-Receptor-Bearing Lymphocytes Active in Natural Cytotoxicity and Antibody-Dependent Cellular Cytotoxicity. H. David Kay, Guy D. Bonnard, William H. West, and Ronald B. Herberman


Macrophage Function in Tumor-Bearing Mice: Tumoricidal and Chemotactic Responses of Macrophages Activated by Infection with Mycobacterium bovis, Strain BCG. Monte S. Meltzer and Mary M. Stevenson

Melanoma-Specific Antibodies: Studies of Their Properties and Their Relationship to Tumor Immunity. Maureen J. Frikke, Sandra H. Bridges, and Richard G. Lynch

Development of Cellular Anti-tumor Immunity in Chickens Bearing Tumors Induced by Rous Sarcoma Virus. Evelyne-Israél and Mark A. Wainberg

Characterization and Specificity of Murine Anti-tumor Cytotoxic Effector Cells within an Ascitic Tumor. William E. Biddison, Jon C. Palmer, Michael A. Alexander, Elliot P. Cowan, and Lionel A. Manson

Sequential Quantitation of Circulating Immune Complexes in Syngeneic and Allogeneic Rats Bearing Moloney Sarcomas. J. Charles Jennette and Joseph D. Feldman


Multiple Polysaccharide Antigens of Group B Streptococcus, Type Ia: Emphasis on a Sialic Acid Type-Specific Polysaccharide. Judith A. Kane and Walter W. Karakawa

The Elimination of Herpes Simplex Plaques by Antibody and the Emergence of Resistant Strains. Peter Reed Paven and Francis A. Ennis

The Formation of Stable E-Rosettes by Human T Lymphocytes Activated by Phytohemagglutinin. Arthur K. Katoh, and Surin Charoensiri


Similar Cell Surface Antigens on Hamster Cells Transformed by Different Papovaviruses. Giuseppe A. Molinaro, Eugene O. Major, Gregory Bernhardt, Sheldon Dray, and Giampiero di Mayorca

Letters to the Editor

Announcements

Author Index

Ad hoc Reviewers

Author Index Volume 118

Subject Index Volume 118
THE JOURNAL OF IMMUNOLOGY

INFORMATION FOR CONTRIBUTORS

Manuscripts should be sent to:
Dr. Joseph D. Feldman
Department of Immunopathology
Scripps Clinic and Research Foundation
La Jolla, California 92037

If and when the manuscript is published, it will become the sole property of The Journal and all copyright will be taken out in the name of The Williams & Wilkins Company, and all rights in copyright reserved to The Williams & Wilkins Company.

Contributions may be short or long; the length should be commensurate with the scientific content. The chief criteria for acceptance are quality, originality, and clarity.

INSTRUCTIONS FOR PREPARATION OF MANUSCRIPT

The original and two (2) copies of the manuscript, including references, legends, figures and illustrations, must be submitted. The text and all other material, e.g., footnotes, references, and acknowledgments, must be typed in double space (at least 9/16-inch or 5-mm spacing from the bottom of one line to the top of a capital of a succeeding line) on one side of 8 1/2 inch x 11 inch paper of good quality. The two (2) copies may be legible carbon or mimeographed copies or photocopies.

A short title to be used as a running head (not more than 50 characters) should be typed alone on the first page. Type the complete title on the second page, and the authors' full names (first name, middle initial(s), surname) and affiliations on the third page. The format of The Journal must be followed in typing the text and all other material.


Only papers that have been accepted for publication should be listed in the references (i.e., articles that are already paginated or in press). Manuscripts in preparation, unpublished observations, and personal communications should be referred to as such in text; completed manuscripts that have been submitted for publication may be cited as a footnote to the text. If such information is in press when the author receives his galley proofs he may make appropriate citations in the text at that time.

All material to be set in a type size different from that of the text, such as tables, case histories, quotations, formulas, legends for figures and illustrations, footnotes, and references must be typed on separate pages. If abbreviations are to be used in the paper, the abbreviations and their meanings should be typed double spaced, in one paragraph, on a separate sheet. Legends should not be attached to or written on figures or illustrations and must be typed double spaced. The position of tables and figures in the text may be indicated on the page margin.

List all components of culture medium used in experiments so that sufficient data to reproduce reported results are available. This information may be supplied in the Abbreviations footnote, in a table listing all components, by referring to a published article containing the information, or by identifying the commercial source which supplies the specific medium if components are listed by the supplier.

Illustrations and Photomicrographs. Photographs of figures and other illustrative material must be on glossy paper (in triplicate); they must be clearly marked on the reverse side with the number, author's name, and orientation (top) and should be unmounted. Graphs should be in black ink on unlined or bluelined paper. If graphs exceed 9 x 12 inches in size, they must be accompanied by glossy photographic reproductions within that size.

For photomicrographs a better grade of paper may be used at additional cost, up to $100.00 for a single page. Estimates can be obtained when the manuscript is submitted for publication. Estimates for color photomicrographs are also available.

Communications. Short papers, at the author's request, may be printed in the Communications section of The Journal. These papers should not exceed two (2) printed pages in length, including summary, references, tables and figures. The text of a full printed page contains about 1000 words. If accepted, their publication will be accelerated, usually within two (2) months of acceptance. For this reason, proofs are not sent to the authors, but rather to the Editor. Suitability for publication will be judged on the basis of timeliness, novelty, and importance by the usual refereeing procedure.

MANUSCRIPTS THAT DO NOT CONFORM TO THESE SPECIFICATIONS MAY NOT BE ACCEPTED, AT THE EDITOR'S DISCRETION.

Page Charges. Authors will be charged $30.00 for each printed page of an article or a Communication. All manuscripts, if accepted, will be published only after commitment by the author(s) or financial officer of their institution to pay a charge of $30.00 per published page. No exceptions can be made.

Reprints. Reprints must be ordered in advance. A form showing the cost of reprints, together with an order slip, is sent with the galley proof. No more than 1000 reprints of any article may be purchased. The invoice for reprints will include the charges for pages.
Clinical Histocompatibility Testing

Edited by CHARLES B. CARPENTER, M.D., Associate Professor of Medicine, Harvard University; Director of Immunology Laboratory, Peter Bent Brigham Hospital, Boston and WILLIAM V. MILLER, M.D., Director, Missouri Illinois Red Cross Blood Program

CONTENTS:
WORKSHOP SUMMARIES: SD New World Workshop Report; Report on the Second New World B-Cell Workshop; Joint Report of the First Workshop of the LD Typing Study Group. CHEMISTRY AND SEROLOGY OF HLA-A, B, AND C: Detergent-Soluble Products of the HLA Region; The Tyrosine Peptides of HLA and B-2-Microglobulin; Are HLA and Chido Related Antigenic Groups; The Molecular Basis of HLA Cross-Reactions; Further Studies With HLA Variants; Serologic Analysis of HLA-A10 Complex II. Absorption Studies on Aw25, Aw26, and Aw34; Usefulness of Typing for w4 and w6 Specificities in HLA Serology; Possible Evidence for a New C-Locus Specificity; Studies of the Serum Pullium: Comparison of American Black and Caucasian HLA-A and B Locus Antigens by Clustering of American (First Cycle) and Sixth International Workshop Antisera. MIXED LYMPHOCYTE CULTURES AND THE HLA-D LOCUS: Assay of HLA-D Disparity; Populations Genetics for Five HLA-D Determinants in Caucasians; Typing by Compatibility in Mixed Lymphocyte Culture Using LD-Homozygous Typing Cells; Complete HLA and Bf Typing in Families. I. Analysis of MLC Responses and LD Typing; Complete HLA and Bf Typing in Families. II. Bf and the Structure of the HLA Region; Evidence for a Third Lymphocyte Defined Locus in the HLA Region; Recombination Between the B and C Loci of the HLA Region; Statistical Methods for Evaluating Responses in HLA-D Typing; Use of Lymphoblastoid Cell Lines for HLA-D-Locus Typing. II. Low-Stimulator Lines; Use of Lymphoblastoid Cell Lines for HLA-D-Locus Typing III. Persistently Weak Responders; Genetic Control of Mediator Production in Human MLC. HUMAN B-LYMPHOCYTE ANTIGENS (bl): Serologic Characterization of Human B Lymphocyte Antigens Using B-Cell Lymphoid Lines; B-Lymphocyte Haplotypes in Asthma Families; Rapid Preparation of B-Cell-Enriched Lymphocyte Populations by Electrophoresis; Characterization of Cell Populations Used for Studies of Antibodies to I-Region Products; Serotyping for B-Lymphocyte Alloantigens; Affinity Chromatography With Antifluorescein Antibody to Separate Ig-Positive Cells; Preliminary Report; Analysis of Sera Specific for Human B Cells; Reactivity of Alloantibodies of the Merritt B-Cell System With Leukemic Cells and Lymphoblastoid Cell Lines; Grouping of Merritt Antisera by MLC Inhibition; B-Lymphocyte Alloantigens Extracted From CLL Cells. GENETIC LINKAGE AND DISEASE ASSOCIATIONS: Genetic Linkage, Gene-Linkage and the Association of Alleles With Diseases; Increased HLA-B7 Antigen Frequency in South Carolina Blacks in Association With Sarcoidosis; Increased Incidence of HLA-B8 in Juvenile-Onset Diabetes Mellitus; HLA Antigens in Black American Patients With Multiple Sclerosis; HLA Antigens and Mitogen Responsiveness in Multiple Sclerosis; The Immune Response to Diphtheria Toxoid in Humans; The Primed LD Typing Test; Analysis of Individuals Immunized to GLT; Leukemia-Associated Antigens Detected in Primed Lymphocyte Tests. CLINICAL TRANSPLANTATION: Effect of Prospective HLA-Haplotype Matching on Renal Transplantation; Correlation of Renal Allograft Survival With Previous Blood Transfusions; Generation of Memory Cells in One-Way Mixed Lymphocyte Culture. II. Engraftment of RH-Positive Marrow in a Recipient With RH Antibody. HLA, TRANSFUSION, AND PATERNITY TESTING: Transfusion Therapy of Refractory Thrombocytopenic Patients With Platelets From Donors Selectively Mismatched for Cross- Reactive HLA Antigens; National Donor Registry and Computer Transfusion Programs for Platelet Transfusions; HLA Antigens and Blood Transfusion: Effect on Renal Transplants; HLA and Other Genetic Markers in Disputed Paternity: A Report of 50 Cases. QUALITY CONTROL AND LABORATORY ACCREDITATION: Government Accreditations, the Center for Disease Control, and the American Association for Clinical Histocompatibility Testing; Standards for Histocompatibility Testing 1976-1977. A clothbound edition of the March 1977 Supplement to Transplantation Proceedings 1977, 264 pp., $22.75/£16.15 ISBN 0-8089-1022-1

Send payment with order and save postage plus $0.30 handling charge.

Prices subject to change without notice.
Announcing publication of the indispensable laboratory manual —

MANUAL OF CLINICAL IMMUNOLOGY

Edited by Noel R. Rose and Herman Friedman

A joint effort by members of the American Society for Microbiology and the American Association of Immunologists

This definitive and much needed new book is a companion volume to the highly acclaimed Manual of Clinical Microbiology, 2nd Edition. It has been written to provide a current, comprehensive, and definitive source of information about the best methods for conducting specific immunological tests in laboratory immunology. It will be invaluable for:

- laboratory directors and technologists responsible for the performance of immunological tests in the clinical laboratory
- graduate students - medical students
- medical technology students - post-doctoral trainees - residents - fellows - clinicians

In addition, it will be an essential addition to the working library of every clinical chemistry laboratory, blood bank, and hematology laboratory. It also belongs in laboratories involved in the diagnosis of autoimmune and collagen diseases, surgical laboratories doing tissue and organ transplantation, and laboratories involved with cancer immunology.

It deals exclusively with the applications of immunology to the detection and analysis of a wide variety of diseases, including, but not limited to, those induced by microorganisms. The clinical interpretations of each procedure are detailed, and pitfalls and problems in performing the various analyses are discussed.

The contents, by section, are:
- Tests for humoral components of the immunological response
- Tests for cellular components of the immunological response
- Immunoassays
- Bacterial, mycotic, and parasitic immunology
- Viral, rickettsial, and chlamydial immunology
- Immunohematology
- Laboratory examination of patients with allergic and immunodeficiency diseases
- Autoimmune diseases
- Tumor immunology
- Transplantation immunology
- Licensure and certification programs in clinical immunology laboratories

Publication date: 16 August, 1976. 923 pages, fully illustrated.

Available in two bindings:

Cloth, at $20.00 (ISBN: 0-914826-09-3) and durable, plastic-coated, flexible binding, ideal for bench or classroom use, at $16.00 (ISBN: 0-914826-10-7).

Special Offer to Members of the American Association of Immunologists

Note: Members of AAI may purchase this book at the special member discount prices of:

Clothbound: $12.00 + $1.00 handling charge
Flexible: $10.00 + $1.00 handling charge

Member purchases are for personal use only. Payment must accompany member orders. AAI members should send their orders, accompanied by remittance in U.S. Dollars, to the American Association of Immunologists, 9650 Rockville Pike, Bethesda, MD 20014.

AMERICAN SOCIETY FOR MICROBIOLOGY
Publications Office
1913 I Street, N.W., Washington, D.C. 20006