

https://dspace.org/

The immuno-histochemical differentiation of human lymphoid cells

Hill, Robert Rowland Humphrey

2015-01-27
http://hdl.handle.net/10539/16787

Downloaded from a DSpace repository. https://dspace.org/

CHESS, L., LEVINE, H., MacDERMOT, R.P. & SCHLOSSMAN, S.F. (1975) Immunologic functions of isolated human lymphocyte subpopulations. J. Immunol., 115: 1438-1487.

CHIN, A.H., SAIKI, J.H., TRUJILLO, J.M. & WILLIAMS, J.C. (1973) Peripheral blood T- and B- lymphocytes in patients with lymphoma and acute leukaemia. Clin. Immunol. & Immunopath., 1: 499-510.

CHUSED, T.M., HARDIN, J.A., FRANK, M.M. & GREEN, I. (1974) Identification of cells infiltrating the minor salivary glands in patients with Sjögrens syndrome. J. Immunology, 112: 641-648.

CLAMAN, H.W. & CHAPERON, E.A. (1969) Immunological complementation between thymus and marrow cells- a model for the two cell theory of immunocompetence. Transplant. Rev., 1: 92-113.

CONE, R.E. & MARCHALONIS, J.J. (1973) Antigen binding specificity of cell surface immunoglobulin isolated from T (helper) cells. Aust. J. Exp. Biol. Med., 51: 689-700.

COOMBS, R.R.A., GURNER, B.W., WILSON, A.B. HOLM, G. & LINDGREN, B. (1970) Rosette-formation between human lymphocytes and sheep red c[illegible]ot involving immunoglobulin receptors. Int. Arch [illegible]ergy., 39: 653-666.

CRABBÉ, P.A., CARBONARA, A.O. & HEREMANS, J.F. (1965) The normal human intestinal mucosa as a major source of plasma cells containing gamma A immunoglobulin. Lab. Invest., 14: 235-248.

CRADDOCK, G.G., LONGUIRE, R.& McMILLAR, R. (1971) Lymphocytes and the immune response. N. Engl. J. Med., 285: 324-331, 378-384.

CRONE, M., KOCH, C. & SIMONSEN, M. (1972) The elusive T cell receptor. Transp. Rev., 10: 36-56.

CUNNINGHAM, A.J. & PILARSKI, L.M. (1974) Antibody diversity: A case for its generation after antigenic stimulation. Scand. J. Immunol., 3: 5-10.

DENMAN, A.M. (1973) Methods of separating human blood lymphoid cell populations. J. Immunol. Methods, 2: 381-351.

DICKLER, H.B. & KUNKEL, H.G. (1972) Interaction of aggregated gammaglobulin with B lymphocytes. J. Exp. Med., 136: 191-196.

DUKOR, P., BIANCO, C. & NUSSENZWEIG, V. (1970) Tissue localization of lymphocytes bearing a membrane receptor for antigen-antibody-complement complexes. Proc. Nat. Acad. Sci., 67: 991-1004.

EDSALL, J.T. (1947) The plasma proteins and their fractionation. Advances in Prot. Chem., 3: 383-419.

FELDMAN, M., BASTEN, A., BOYLSTON, A., ERB, P., et al., (1975) Interactions between T & B lymphocytes and accessory cells in antibody production. Progress in Immunology II, Vol.3: 65-75.

FOTHERGILL, J.E. & NAIRN, R.C. (1961) Purification of fluorescent protein conjugates: Comparison of charcoal and "Sephadex". Nature, 4807: 1073-1074.

FRØLAND, S.S. & NATVIG, J.B. (1972) Surface-bound immunoglobulin on lymphocytes from normal and immunodeficient humans. Scand. J. Immunol., 1: 1-12.

FRØLAND, S.S. & NATVIG, J.B. (1973) Identification of three different human lymphocyte populations by surface markers. Transplant Rev., 16: 114-162.

FU, S.M., WINCHESTER, R.J. & KUNKEL, H.G. (1974) Occurrence of surface IgM, IgD and free light chains on human lymphocytes. J. Exp. Med., 139: 451.

GAJL-PECZALSKA, K.J., FISH, A.J., MEUWISSEN, H.J.,FROMMEL, D. & GOOD, R.A. (1969) Localization of immunological complexes fixing BIC (C3) in germinal centres of lymph nodes. J. Exp. Med., 130: 1367-1393.

GELFAND, J.A., FAUCI, A.S., GREEN, I. & FRANK, M.M. (1975) A simple method for identifying complement receptor-bearing mononuclear cells. Clin. Res., 23: Abstract 291a.

GOLDMAN, M. (1968)"Fluorescent Antibody Methods." Academic Press, New York.

GOLDSCHNEIDER, I. & McGREGOR, D.D. (1973) Anatomical distribution of T and B lymphocytes in the rat. J. Exp. Med., 138: 1443-1465.

GOODFELLOW, P., BARNSTAPLE, C., JONES, E., BODMER, W. F., CRUMPTON, M.J. & SNARY, D. (1976) Production of specific antiserum to human lymphocytes. Tissue Antigens, 7: 105-117.

GOZZO, J.J., WOOD, M.L. & MONACO, A.P. (1971) Use of minimal doses of lymphoid cells for production of heterologous antilymphocyte serum. Transplant. Proc., 3: 779-792.

GREAVES, M.F. & BROWN, G.A. (1973) A human B lymphocyte antigen. Nature, (New Biol.) (lond.) 246: 116-118.

GREAVES, M.F. & BROWN, G.A. (1974) Purification of human T and B lymphocytes. J. Immunol., 112: 420-426.

GREAVES, M.F., BROWN, G., RAPSON, N.T. & LISTER, T.A. (1975) Antisera to acute lymphoblastic leukemia cells. Clin. Immunol. & Immunopath., 4: 67-84.

GREAVES, M.F., FALK, J.A. & FALK, R.E. (1975) A surface antigen marker for human monocytes. Scand. J. Immunol., 4: 555-562.

GREAVES, M.F., OWEN, J.T. & RAFF, M.C. (1973) T and B lymphocytes — Their properties and roles in the immune responses.

Excerpta Medica, Amsterdam.

GREENBERG, A.H., HUDSON, L., SHEN, L. & ROITT, I.M. (1973) Antibody-dependent cell mediated cytotoxicity due to a 'null' lymphoid cell. Nature, (New Biol.) (Lond.) 242: 111.

HAEGERT, D.G., HALLBERG, T. & COOMBS, R.R.A. (1974) B and T lymphocyte subpopulations in human peripheral blood. Int. Arch. Allergy. 46: 527-535.

HALLBERG, T., GURNER, B.W. & COOMBS, R.R.A. (1973) Opsonic adherence of sensitized ox red cells to human lymphocytes as measured by rosette formation. Int. Arch. Allergy. 44: 500-51[illegible].

HANSEN, J.A. & GOOD, R.A. (1974) Malignant disease of the lymphoid system in immunological perspective. Human Pathology, 5: 567-598.

HOWARD, J.C., HUNT, S.V. & GOWANS, J.L. (1972) Identification of marrow- derived and thymus-derived small lymphocytes in the lymphoid tissue and thoracic duct lymph of normal rats. J. Exp. Med., 135: 200-219.

HUBER, H. & FUDENBERG, H.H. (1968) Receptor sites of human monocytes for IgG. Int. Arch. Allergy, 34: 18-23.

HUBER, H., DOUGLAS, S.D. & FUDENBERG, H.H. (1969) The IgG receptor : an immunological marker for the characterization of mononuclear cells. Immunology, 17: 7-21.

HUSBY, G., STRICKLAND, R.G., CALDWELL, J.L. & WILLIAMS, R.C. (1975) Localisation of T and B cells and alpha fetoprotein in hepatic biopsies from patients with liver disease. J. Clin. Invest., 56: 1198-1209.

HUTH, E.J. (Editorial) (1974) How clinically useful is T and B cell quantitation. Ann. Int. Med., 86: 765-767.

ISA, A.M. (1974) In vitro specificity and in vivo activity of anti-macrophage serum. Transplantation, 17: 276-285.

I.U.I.S. REPORT (1975) Identification, enumeration and isolation of B and T lymphocytes from human peripheral blood. Clin. Immunol. & Immunopath., 3: 584-597.

IVERSON, J.G. (1970) Specific antisera against recirculating and nonrecirculating lymphocytes in the rat. Clin. Exp. Immunol., 6: 101-109.

JAFFE, E.S., SHEVACH, E.M., FRANK, M.M., BERARD, C.W. & GREEN, I. (1974) Nodular lymphoma, evidence for origin of follicular B lymphocytes. N. Eng. J. Med., 190: 813-819.

JAMES, K. (1969) The preparation and properties of anti lymphocytic sera. Progress in Surgery, 7: 140-152.

JOHNSON, G.D. & HOLBOROW, E.J. (1973) Immunofluorescence. In: Handbook of Experimental Immunology. 2nd edition Blackwell (edit. D.M. Weir.)

JONDAL, M., HOLM, G. & WIGZELL, H. (1972) Surface markers on human T and B lymphocytes. A large population of lymphocytes forming non-immune rosettes with sheep red blood cells. J. Exp. Med., 136: 207-215.

KINCADE, P.W. & COOPER, M.D. (1971) Development and distribution of immunoglobulin containing cells in the chicken. An immunofluorescent analysis using purified antibodies to μ, γ and light chains. J. Immunology, 106: 371-385.

KISZKISS, D.F., TOURAINE, J.L. & CHOI, Y.S. (1973) The quantitation of human T lymphocytes by rosette formation. Fed. Proc., (Abstract 3659), 32: 869.

KNAPP, W. & PLOEM, J.S. (1974) Microfluorometry of antigen-antibody interactions in immunofluorescence using the

defined antigen substrate spheres (DASS) system. Sensitivity, specificity and variables of the method. J. Immunol. Methods, 5: 259-273.

KONGSHAVN, P.A.L., GOLD, P., SHUSTER, J., COLQUHON, B. & WEDMAN, S.O. (1974) Ability of anti-brain heteroantisera to distinguish thymus-derived lymphocytes in various species. Clin. Immunol. & Immunopath., 3: 1-15.

LAM, C.Y., LI, W., & YAM, L.T. (1973) Esterases in human leucocytes. J. Histochem. Cytochem., 21: 1-12.

LAWTON, R.A., SELF, K.S., ROYAL, S.A. & COOPER, M.D. (1974) Ontogeny of B lymphocytes in the human fetus. Clin. Immunol. & Immunopath., 1: 84-93.

LAY, W.H., MENDES, N.F., BIANCO, C. & NUSSENZWEIG, V. (1971) Binding of sheep red blood cells to a large population of human lymphocytes. Nature (Lond.), 230: 531-532.

LEVEY, R.H. & MEDAWAR, P.B. (1966) Nature and mode of action of antilymphocytic antiserum. Proc. Nat. Acad. Sci. (Wash.), 56: 1130-1137.

MARTIN, W.J. & MILLER, J.F.A.P. (1968) Cell to cell inter-action in the immune response. IV. Site of action of antilymphocyte globulin. J. Exp. Med., 128: 855-874.

MAYER, M.M. (1961) "Kabat and Mayer's Experimental Immunochemistry" (By E.A. Kabat), p.151. Charles C. Thomas, Springfield, Illinois.

MENDES, N.F., KOPERSZTYCH, S. & MOTA, N.G.S. (1974) T and B lymphocytes in patients with lepromatous leprosy. Clin. Exp. Immunol., 16: 23-30.

MENDES, N.F., MUSATTI, C.C. & TOLNAI, M.E.A. (1974) T and B lymphocyte membrane markers in cells from patients with leukaemia and lymphoma. Int. Arch. Allergy, 46: 695-706.

MÖLLER, G. (ed.) (1973) [illegible] B lymphocytes in humans. Transplant Rev., 16.

MRC. Working party on clinical use of immunological reagents. (1971) Characterisation of antisera as reagents. Immunology, 20: 3-10.

NAIRN, R.C. (1969) "Fluorescent protein tracing" 3rd Edit. Livingstone, London.

PAPAMICHAIL, M., BROWN, J.C. & HOLBOROW, E.J. (1971) Immunoglobulins on the surface of human lymphocytes. Lancet. 2: 850-852.

PARROTT, D.V.M., De SOUSSA, M.A.B. & EAST, J. (1966) Thymus dependent areas in the lymphoid organs of neonatally thymectomised mice. J. Exp. Med., 123: 191-203.

PEARSE, A.G.E. (1972)"Histochemistry, Theoretical and Applied." 3rd edition, Churchill, London.

PELLEGRINO, M.A., FERRONE, S., DIERICH, M.P., PELLEGRINO, A. & REISFELD, R.A. (1975) Inhibitory effect of normal mammalian sera on the rosette formation of human lymphocytes with sheep red blood cells. Clin. Immunol. Immunopath., 4: 85-95.

PELLEGRINO, M.A., FERRONE, S., DIERICH, M.P. & REISFELD, R.A. (1975) Enhancement of sheep red blood cell-human lymphocyte rosette formation by the sulphydryl compound; 2-amino ethylisothiouronium bro[illegible]. Clin. Immunol. & Immunopath., 3: 324-333.

POLLIACK, A., LAMPDEN, N., CLARKSON, B.D., deHARVEN, E., BRENTWICH, Z., SIEGAL, F.P. & KUNKEL, H.G. (1973). Identification of human T and B lymphocytes by scanning electron microscopy. J. Exp. Med., 138: 607-624.

PORTER, R.R. (1963) Chemical structure of gamma globulin and antibodies. Brit. Med. Bull., 19: 197-201.

PREUD'HOMME, J.L. & SELIGMAN, M. (1972) Anti-human IgG activity of membrane bound monoclonal immunoglobulin M in lymphoproliferative disorders. Proc. Nat. Acad. Sci.,(Wash.), 69: 2132-2147.

RABELLINO, E., COLONS, S., GREY, H.M. & UNANUE, E.R. (1971) Immunoglobulins on the surface of lymphocytes. I. Distribution and quantitation. J. Exp. Med., 133: 156-164.

RAFF, M.C. (1970) Two distinct populations of peripheral lymphocytes in mice distinguishable by immunofluorescence. Immunology, 19: 637-650.

RAFF, M.C. (1973) T and B lymphocytes and immune responses. Nature, (London) 242: 20-24.

RIGGS, J.L., LOH, P.C. & EVELAND, W.C. (1960) A simple fractionation method for preparation of fluorescein-labelled gamma globulin. Proc. Soc. Exp. Biol. Med., 105: 655-658.

ROITT, I.M. (1972) "Essential Immunology" Blackwell, London.

ROITT, I.M., GREAVES, M.F., TORRIGIANI, G., BROSTOFF, J. & PLAYFAIR, J.H. (1969) The cellular basis of immunological responses: A synthesis of some current views. Lancet, II: 367-371.

ROLLAND, J., NAIRN, R.C. & DAVIES, D.J. (1971) Assay of anti-lymphocyte serum by membrane immunofluorescence. J. Immunol. Methods, 1: 83-90.

ROSS, G.D., POLLEY, M.J., RABELLINO, E.M. & GREY, H.M. (1973) Two different complement receptors on human lymphocytes. J. Exp. Med., 138: 798-811.

ROSS, G.D., RABELLINO, E.M., POLLEY, M.J. & GREY, H.M. (1973) Combined studies of complement receptor and surface immunoglobulin-bearing cells and sheep erythrocyte rosette-forming cells in normal and leukaemic human lymphocytes.

J. Clin. Invest., 52: 377-385.

SELIGMANN, M., PREUD'HOMME, J.L. & KOURILSKY, F.M. (1975) Membrane Receptors of Lymphocytes. INSERM Symposium No. 1. North Holland Publishing Co. Amsterdam.

SHEVACH, E., EDELSON, R., FRANK, M. et al. (1974) A human leukaemia cell with both B and T cell surface receptors. Proc. Nat. Acad. Sci., (Wash.), 71: 863-866.

SHORTMAN, K., WILLIAMS, N., JACKSON, H., RUSSELL, P., BYRT, P. & DIENEP E. (1971) The separation of different cell classes from lymphoid organs. IV. The separation of lymphocytes from phagocytes on glass bead columns and its effect on subpopulations of lymphocytes and antibody-forming cells. J. Cell Biol., 48: 566-578.

SILVIERA, N.P.A., MENDES, N.F. & TOLNAI, M.E.A. (1972) Tissue localisation of two populations of human lymphocytes distinguished by membrane receptors. J. Immunol., 108: 1456-1460.

SMITH, R.W., TERRY, W.D., BUELL, D.N. & SELL, K.W. (1973) An antigenic marker for human thymic lymphocytes. J. Immunol., 110: 884-887.

SPEAFICO, F. (1970) The isolation of anti-lymphocytic antibodies. Transplantation, 10: 227-238.

SPRENT, J. (1973) Circulating T and B lymphocytes in the mouse. I. Migratory properties. Cell. Immunol., 7: 10-15.

STOPFORTH, C.R., MacQUEEN, J.M., AMOS, D.B. & WARD, F.E. (1972) Some variations in lymphocyte freezing methods which do not effect cell viability. Tissue Antigens, 2: 20-26.

STRONG, D.M., WOODY, J.N., FACTER, M.A., AHMED, A. & SELL, K.W. (1975) Immunological responsiveness of frozen-thawed human lymphocytes. Clin. Exp. Immunol., 21: 442-45[illegible].

TAKAHASHI, T. (1970) Preparation of antisera in rabbits to various cell surface antigens. J. Exp. Med., 131: 1325-1341.

TAYLOR, R.B., DUFFUS, N.P., RAFF, M.C. & de PETRIS, S. (1971) Redistribution and pinocytosis of lymphocyte surface molecules induced by anti-immuno-globulin antibody. Nature, (New Biol.)233: 225-227.

THE, T.H. & FELTKAMP, T.E.W. (1970) Conjugation of fluorescein isothiocyanate to antibodies. Immunology, 18: 865-873, 875-881.

THOMAS, D.B. (1972) Antibodies to membrane antigen(s) common to thymocytes and a subpopulation of lymphocytes in infectious-mononucleosis sera. Lancet, 1: 399.

THORSBY, E. & BRATLIE, A. (1970) A rapid method for preparation of pure lymphocyte suspensions. Histocompatibility testing, (ed. by P.I. Terasaki), p.655. Munksgaard, Copenhagen.

TOBEN, H.R. & COOPER, M.D. (1972) Preparation of cytotoxic antisera with specificity for human T lymphocytes. Clin. Res, 20: 797-805.

TØNDER, O., HUMPHREY, L.J. & MORSE, P.A. (1975) Further observations on Fc receptors in human malignant tissue and normal lymphoid tissue. Cancer, 35: 580-587.

TOURAINE, J.L., TOURAINE, F., KISZKISS, D.F., CHOI, Y.S. & GOOD, R.A. (1974) Heterologous specific antiserum for identification of human T lymphocytes. Clin. Exp. Immunol., 16: 503-520.

UNANUE, E.R., GREY, H.M., RABELLINO, E., CAMPBELL, P. & SCHMIDTKE, J. (1971) Immunoglobulins on the surface of lymphocytes. II. The bone marrow as the main source of lymphocytes with detectable surface-bound immunoglobulin.

J. Exp. Med., 133: 1188-1193.

VAN BOXEL, J.A., PAUL, W.E., TERRY, W.D. & GREEN, I. (1972) IgD bearing human lymphocytes. J. Immunol., 109: 648-653.

VAN FURTH, R., SCHUIT, H.R.E. & HIJMANS, W. (1965) The immunological development of the human foetus. J. Exp. Med., 122: 1173-1177.

WEINER, M.S., BIANCO, C. & NUSSENZWEIG, V. (1973) Enhanced binding of neuraminidase-treated sheep erythrocytes to human T lymphocytes. Blood, 42: 939-946.

WEISSMAN, I.L. (1967) Thymus cell migration. J. Exp. Med., 126: 201-204.

W.H.O.- I.A.R.C. WORKSHOP. SPECIAL TECHNICAL REPORT. (1974) Identification, enumeration and isolation of B and T lymphocytes from human peripheral blood. Scand. J. Immunol., 3: 521-532.

WILLIAMS, R.C., Jnr., De BOARD, J.R., MELLBYE, O.J., MESSNER, R.P. & LINDSTRÖM, F.D. (1973) Studies of T- and B- lymphocytes in patients with connective tissue disease. J. Clin. Invest., 52: 283-297.

WILSON, J.D. & NOSSAL, G.J.V. (1971) Identification of human T and B lymphocytes in normal peripheral blood and in chronic lymphatic leukaemia. Lancet, 2: 788-791.

WILSON, A.B., HAECERT, D.G. & COOMBS, R.R.A. (1975) Increased sensitivity of rosette forming reaction of human T lymphocytes with sheep erythrocytes afforded by papain treatment of sheep cells. Clin. Exp. Immunol., 22: 177-182.

WOIWOD, A.J., COURTENAY, J.S., EDWARDS, D.C. & EPPS, A.W. (1970) The preparation and properties of horse anti-human lymphocyte serum and globulin. Transplantation, 10: 173-184.

WOOD, B.T., THOMPSON, S.H. & GOLDSTEIN, G. (1965) Fluorescent antibody staining. III. Preparation of fluorescein-isothiocyanate labelled antibodies. J. Immunol., 95: 225-229.

WOOD, N., BASHIR, H., GRAELLY, J., AMOS, D.B. & YUNIS, E.J. (1972) A simple method of freezing and storing live lymphocytes. Tissue Antigens, 2: 27-30.

WORTIS, H.H., COOPER, A.G. & BROWN, M.C. (1973) Inhibition of human lymphocyte rosetting by anti-T sera. Nature (New Biol.), 243: 109-111.

WYBRAN, J. & FUDENBERG, H.H. (1973) How clinically useful is T and B cell quantitation? Editorial comment. Ann. Int. Med., 80: 765-767.

WYBRAN, J., CHANTLER, S. & FUDENBERG, H.H. (1973) Isolation of normal T cells in chronic lymphatic leukaemia. Lancet, 1: 126-129.

ZUCKER-FRANKLIN, D. (1974) The percentage of monocytes among "mononuclear" cell fractions obtained from normal human blood. J. Immunol., 112: 234-249.

Author Hill RRH
Name of thesis The Immuno-Histochemical differentiation of human lymphoid cells 1977

PUBLISHER:
University of the Witwatersrand, Johannesburg
©2013

LEGAL NOTICES:

Copyright Notice: All materials on the University of the Witwatersrand, Johannesburg Library website are protected by South African copyright law and may not be distributed, transmitted, displayed, or otherwise published in any format, without the prior written permission of the copyright owner.

Disclaimer and Terms of Use: Provided that you maintain all copyright and other notices contained therein, you may download material (one machine readable copy and one print copy per page) for your personal and/or educational non-commercial use only.

The University of the Witwatersrand, Johannesburg, is not responsible for any errors or omissions and excludes any and all liability for any errors in or omissions from the information on the Library website.