REFERENCES

Abbas, A.K. and Lichtman, A.H. (2005) Cellular and molecular immunology. Elsevier Saunders, Phildelphia, Pa. ; Edinburgh.

Abbas, A.K. and Lichtman, A.H. (2006) Basic immunology : functions and disorders of the immune system. Elsevier Saunders, Philadelphia, Pa. ; Edinburgh.

Abbas, A.K., Murphy, K.M. and Sher, A. (1996) Functional diversity of helper T lymphocytes. Nature 383, 787-93.

Akira, S. and Hemmi, H. (2003) Recognition of pathogen-associated molecular patterns by TLR family. Immunol Lett 85, 85-95.

Akira, S., Takeda, K. and Kaisho, T. (2001) Toll-like receptors: critical proteins linking innate and acquired immunity. Nat Immunol 2, 675-80.

Alberts, B. (2002) Molecular biology of the cell. Garland Science, New York.

Alegre, M.L., Frauwirth, K.A. and Thompson, C.B. (2001) T-cell regulation by CD28 and CTLA-4. Nat Rev Immunol 1, 220-8.

Arancibia, S.A., Beltran, C.J., Aguirre, I.M., Silva, P., Peralta, A.L., Malinarich, F. and Hermoso, M.A. (2007) Toll-like receptors are key participants in innate immune responses. Biol Res 40, 97-112.

Barclay, A.N. (1997) The leucocyte antigen factsbook. Academic Press, San Diego, Calif. ; London.

Bowie, A.G. and Haga, I.R. (2005) The role of Toll-like receptors in the host response to viruses. Mol Immunol 42, 859-67.

Carter, P.J. (2006) Potent antibody therapeutics by design. Nat Rev Immunol 6, 343-57.

Chiorazzi, N., Rai, K.R. and Ferrarini, M. (2005) Chronic lymphocytic leukemia. N Engl J Med 352, 804-15.

Chothia, C. and Jones, E.Y. (1997) The molecular structure of cell adhesion molecules. Annu Rev Biochem 66, 823-62.

Colantonio, L., Recalde, H., Sinigaglia, F. and D'Ambrosio, D. (2002) Modulation of chemokine receptor expression and chemotactic responsiveness during differentiation of human naive T cells into Th1 or Th2 cells. Eur J Immunol 32, 1264-73.

Cooper, A.M., Roberts, A.D., Rhoades, E.R., Callahan, J.E., Getzy, D.M. and Orme, I.M. (1995) The role of interleukin-12 in acquired immunity to Mycobacterium tuberculosis infection. Immunology 84, 423-32.

Cooper, M.A., Fehniger, T.A., Turner, S.C., Chen, K.S., Ghaheri, B.A., Ghayur, T., Carson, W.E. and Caligiuri, M.A. (2001) Human natural killer cells: a unique innate immunoregulatory role for the CD56(bright) subset. Blood 97, 3146-51.

Davis, M.M., Krogsgaard, M., Huppa, J.B., Sumen, C., Purbhoo, M.A., Irvine, D.J., Wu, L.C. and Ehrlich, L. (2003) Dynamics of cell surface molecules during T cell recognition. Annu Rev Biochem 72, 717-42.

Deaglio, S. and Malavasi, F. (2006) The CD38/CD157 mammalian gene family: An evolutionary paradigm for other leukocyte surface enzymes. Purinergic Signal 2, 431-41.

Degli-Esposti, M.A. and Smyth, M.J. (2005) Close encounters of different kinds: dendritic cells and NK cells take centre stage. Nat Rev Immunol 5, 112-24.

Finberg, R.W., Re, F., Popova, L., Golenbock, D.T. and Kurt-Jones, E.A. (2004) Cell activation by Toll-like receptors: role of LBP and CD14. J Endotoxin Res 10, 413-8.

Fischer, M.B., Ma, M., Goerg, S., Zhou, X., Xia, J., Finco, O., Han, S., Kelsoe, G., Howard, R.G., Rothstein, T.L., Kremmer, E., Rosen, F.S. and Carroll, M.C. (1996) Regulation of the B cell response to T-dependent antigens by classical pathway complement. J Immunol 157, 549-56.

Friedl, P. and Gunzer, M. (2001) Interaction of T cells with APCs: the serial encounter model. Trends Immunol 22, 187-91.

Goding, J.W. (1986) Monoclonal antibodies : principles and practice : production and application of monoclonal antibodies in cell biology, biochemistry and immunology. Academic, London.

Goding, J.W. and Howard, M.C. (1998) Ecto-enzymes of lymphoid cells. Immunol Rev 161, 5-10.

Goldsby, R.A. and Goldsby, R.A.K.i. (2003) Immunology. W.H. Freeman, New York ; Houndmills.

Gust, A.A., Biswas, R., Lenz, H.D., Rauhut, T., Ranf, S., Kemmerling, B., Gotz, F., Glawischnig, E., Lee, J., Felix, G. and Nurnberger, T. (2007) Bacteria-derived peptidoglycans constitute pathogen-associated molecular patterns triggering innate immunity in Arabidopsis. J Biol Chem 282, 32338-48.

Haas, K.M., Toapanta, F.R., Oliver, J.A., Poe, J.C., Weis, J.H., Karp, D.R., Bower, J.F., Ross, T.M. and Tedder, T.F. (2004) Cutting edge: C3d functions as a molecular adjuvant in the absence of CD21/35 expression. J Immunol 172, 5833-7.

Harlow, E. and Lane, D. (1988) Antibodies : a laboratory manual. Cold Spring Harbor Laboratory, New York.

Hermiston, M.L., Xu, Z. and Weiss, A. (2003) CD45: a critical regulator of signaling thresholds in immune cells. Annu Rev Immunol 21, 107-37.

Hopper, J.E. and Papagiannes, E. (1986) Evidence by radioimmunoassay that mitogen-activated human blood mononuclear cells secrete significant amounts of light chain Ig unassociated with heavy chain. Cell Immunol 101, 122-31.

Janeway, C.A., Jr. and Medzhitov, R. (2002) Innate immune recognition. Annu Rev Immunol 20, 197-216.

Kasinrerk, W., Tokrasinwit, N., Moonsom, S. and Stockinger, H. (2000) CD99 monoclonal antibody induce homotypic adhesion of Jurkat cells through protein tyrosine kinase and protein kinase C-dependent pathway. Immunol Lett 71, 33-41.

Kasinrerk, W., Tokrasinwit, N. and Phunpae, P. (1999) CD147 monoclonal antibodies induce homotypic cell aggregation of monocytic cell line U937 via LFA-1/ICAM-1 pathway. Immunology 96, 184-92.

Khunkaewla, P., Chiampanichayakul, S., Yasamut, U., Pata, S. and Kasinrerk, W. (2007) Production, characterization, and functional analysis of newly established CD99 monoclonal antibodies MT99/1 and MT99/2. Hybridoma (Larchmt) 26, 241-50.

Kim, S., Iizuka, K., Kang, H.S., Dokun, A., French, A.R., Greco, S. and Yokoyama, W.M. (2002) In vivo developmental stages in murine natural killer cell maturation. Nat Immunol 3, 523-8.

Klotman, M.E. and Chang, T.L. (2006) Defensins in innate antiviral immunity. Nat Rev Immunol 6, 447-56.

Kopf, M., Le Gros, G., Bachmann, M., Lamers, M.C., Bluethmann, H. and Kohler, G. (1993) Disruption of the murine IL-4 gene blocks Th2 cytokine responses. Nature 362, 245-8.

Koprak, S., Matheravidathu, S., Springer, M., Gould, S. and Dumont, F.J. (2003) Down-regulation of cell surface CXCR6 expression during T cell activation is predominantly mediated by calcineurin. Cell Immunol 223, 1-12.

Lanzavecchia, A. and Sallusto, F. (2001) Antigen decoding by T lymphocytes: from synapses to fate determination. Nat Immunol 2, 487-92.

Lewis, R.S. and Cahalan, M.D. (1990) Ion channels and signal transduction in lymphocytes. Annu Rev Physiol 52, 415-30.

Lewis, R.S. and Cahalan, M.D. (1995) Potassium and calcium channels in lymphocytes. Annu Rev Immunol 13, 623-53.

Lewis, R.S., Ross, P.E. and Cahalan, M.D. (1993) Chloride channels activated by osmotic stress in T lymphocytes. J Gen Physiol 101, 801-26.

Ley, K., Laudanna, C., Cybulsky, M.I. and Nourshargh, S. (2007) Getting to the site of inflammation: the leukocyte adhesion cascade updated. Nat Rev Immunol 7, 678-89.

Liu, Y., Shaw, S.K., Ma, S., Yang, L., Luscinskas, F.W. and Parkos, C.A. (2004) Regulation of leukocyte transmigration: cell surface interactions and signaling events. J Immunol 172, 7-13.

Lodish, H.F. (2003) Molecular cell biology. W. H. Freeman ; Basingstoke : [Palgrave], New York.

Lohoff, M. and Mak, T.W. (2005) Roles of interferon-regulatory factors in T-helper-cell differentiation. Nat Rev Immunol 5, 125-35.

MacDonald, H.R. and Nabholz, M. (1986) T-cell activation. Annu Rev Cell Biol 2, 231-53.

Malavasi, F., Funaro, A., Roggero, S., Horenstein, A., Calosso, L. and Mehta, K. (1994) Human CD38: a glycoprotein in search of a function. Immunol Today 15, 95-7.

Male, D.K. (2006) Immunology. Mosby Elsevier, Philadelphia, Pa.

Mason, D.Y., Andre, P., Bensussan, A., Buckley, C., Civin, C., Clark, E., de Haas, M., Goyert, S., Hadam, M., Hart, D., Horejsi, V., Meuer, S., Morissey, J., Schwartz-Albiez, R., Shaw, S., Simmons, D., Uguccioni, M., van der Schoot, E., Viver, E. and Zola, H. (2001) CD antigens 2001. Tissue Antigens 58, 425-30.

McNeill, L., Cassady, R.L., Sarkardei, S., Cooper, J.C., Morgan, G. and Alexander, D.R. (2004) CD45 isoforms in T cell signalling and development. Immunol Lett 92, 125-34.

Mitsuyoshi, J.K., Hu, Y. and Test, S.T. (2005) Role of complement receptor type 2 and endogenous complement in the humoral immune response to conjugates of complement C3d and pneumococcal serotype 14 capsular polysaccharide. Infect Immun 73, 7311-6.

Morabito, F., Damle, R.N., Deaglio, S., Keating, M., Ferrarini, M. and Chiorazzi, N. (2006) The CD38 ectoenzyme family: advances in basic science and clinical practice. Mol Med 12, 342-4.

Moretta, A., Bottino, C., Vitale, M., Pende, D., Cantoni, C., Mingari, M.C., Biassoni, R. and Moretta, L. (2001) Activating receptors and coreceptors involved in human natural killer cell-mediated cytolysis. Annu Rev Immunol 19, 197-223.

Muller, W.A. (2003) Leukocyte-endothelial-cell interactions in leukocyte transmigration and the inflammatory response. Trends Immunol 24, 327-34.

O'Garra, A. and Arai, N. (2000) The molecular basis of T helper 1 and T helper 2 cell differentiation. Trends Cell Biol 10, 542-50.

Ostermann, G., Weber, K.S., Zernecke, A., Schroder, A. and Weber, C. (2002) JAM-1 is a ligand of the beta(2) integrin LFA-1 involved in transendothelial migration of leukocytes. Nat Immunol 3, 151-8.

Poe, J.C., Hasegawa, M. and Tedder, T.F. (2001) CD19, CD21, and CD22: multifaceted response regulators of B lymphocyte signal transduction. Int Rev Immunol 20, 739-62.

Raulet, D.H., Vance, R.E. and McMahon, C.W. (2001) Regulation of the natural killer cell receptor repertoire. Annu Rev Immunol 19, 291-330.

Rossmann, E.D., Jeddi-Tehrani, M., Osterborg, A. and Mellstedt, H. (2003) T-cell signaling and costimulatory molecules in B-chronic lymphocytic leukemia (B-CLL): an increased abnormal expression by advancing stage. Leukemia 17, 2252-4.

Salmi, M. and Jalkanen, S. (2001) VAP-1: an adhesin and an enzyme. Trends Immunol 22, 211-6.

Salmi, M. and Jalkanen, S. (2005) Cell-surface enzymes in control of leukocyte traffiking. Nat Rev Immunol 5, 760-71.

Sander, B., Skansen-Saphir, U., Damm, O., Hakansson, L., Andersson, J. and Andersson, U. (1995) Sequential production of Th1 and Th2 cytokines in response to live bacillus Calmette-Guerin. Immunology 86, 512-8.

Sarrias, M.R., Farnos, M., Mota, R., Sanchez-Barbero, F., Ibanez, A., Gimferrer, I., Vera, J., Fenutria, R., Casals, C., Yelamos, J. and Lozano, F. (2007) CD6 binds to pathogen-associated molecular patterns and protects from LPS-induced septic shock. Proc Natl Acad Sci U S A 104, 11724-9.

Springer, T.A. (1994) Traffic signals for lymphocyte recirculation and leukocyte emigration: the multistep paradigm. Cell 76, 301-14.

Stevens, F.J., Solomon, A. and Schiffer, M. (1991) Bence Jones proteins: a powerful tool for the fundamental study of protein chemistry and pathophysiology. Biochemistry 30, 6803-5.

Stowell, C.P. (2006) Therapy with immunoglobulin: applications for monoclonal antibodies. J Infus Nurs 29, S29-44.

Straus, D.B. and Weiss, A. (1993) The CD3 chains of the T cell antigen receptor associate with the ZAP-70 tyrosine kinase and are tyrosine phosphorylated after receptor stimulation. J Exp Med 178, 1523-30.

Sun, M., Li, L., Gao, Q.S. and Paul, S. (1994) Antigen recognition by an antibody light chain. J Biol Chem 269, 734-8.

Tedder, T.F., Zhou, L.J. and Engel, P. (1994) The CD19/CD21 signal transduction complex of B lymphocytes. Immunol Today 15, 437-42.

Thomas, M.L. (1989) The leukocyte common antigen family. Annu Rev Immunol 7, 339-69.

Trowbridge, I.S. and Thomas, M.L. (1994) CD45: an emerging role as a protein tyrosine phosphatase required for lymphocyte activation and development. Annu Rev Immunol 12, 85-116.

Weng, N.P. (2006) Aging of the immune system: how much can the adaptive immune system adapt? Immunity 24, 495-9.

Zola, H. (2006) Medical applications of leukocyte surface molecules--the CD molecules. Mol Med 12, 312-6.

Zola, H., Mavrangelos, C., Millard, D.J. and Nicholson, I.C. (2006) Conservation of leukocyte cell surface proteins: implications for the generation of monoclonal antibodies against newly identified leukocyte cell surface proteins. Tissue Antigens 68, 13-8.

Zola, H., Swart, B., Banham, A., Barry, S., Beare, A., Bensussan, A., Boumsell, L., C, D.B., Buhring, H.J., Clark, G., Engel, P., Fox, D., Jin, B.Q., Macardle, P.J., Malavasi, F., Mason, D., Stockinger, H. and Yang, X. (2007) CD molecules 2006--human cell differentiation molecules. J Immunol Methods 319, 1-5.

Zola, H., Swart, B., Boumsell, L. and Mason, D.Y. (2003) Human Leucocyte Differentiation Antigen nomenclature: update on CD nomenclature. Report of IUIS/WHO Subcommittee. J Immunol Methods 275, 1-8.

Zola, H., Swart, B., Nicholson, I., Aasted, B., Bensussan, A., Boumsell, L., Buckley, C., Clark, G., Drbal, K., Engel, P., Hart, D., Horejsi, V., Isacke, C., Macardle, P., Malavasi, F., Mason, D., Olive, D., Saalmueller, A., Schlossman, S.F., Schwartz-Albiez, R., Simmons, P., Tedder, T.F., Uguccioni, M. and Warren, H. (2005) CD molecules 2005: human cell differentiation molecules. Blood 106, 3123-6.

Zola, H. and Swart, B.W. (2003) Human leucocyte differentiation antigens. Trends Immunol 24, 353-4.