Dawne M. Page
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EDUCATION: Ph. D., Immunology, 1989, University of California, San Francisco.
B. S. Honors, Biochemistry, 1984, PA State University, State College, PA.

PROFESSIONAL EXPERIENCE:

2010 - present Professor & Chair of Biology, Point Loma Nazarene University (PLNU)

2002-2009 Assistant and Associate Professor of Biology, PLNU

2004-2010 Director of the HHMI Undergraduate Science Education Grant, PLNU

2000-2009 Director of SEASAND, the San Diego California Subject Matter Project in Science (CSMP). The project worked with local school districts to provide professional development to secondary teachers of science.

2000-2002 Science Academic Coordinator, Center for Research in Educational Equity, Assessment and Teaching Excellence (CREATE), UCSD. (50% time) Worked with local school districts to provide professional development to K-12 teachers in science.

2000-2002 Associate Project Scientist, Dept. of Biology, UCSD. (50% time) Basic research in immunology.

1994-2000 Assistant Research Scientist, Dept. of Biology, UCSD. Basic research in immunology.

1990-1994 Post-doctoral Fellow, UCSD: Basic research in immunology.

TEACHING EXPERIENCE:
I have experience teaching a variety of students, including under-represented high school students taking a non-major's Biology course, college students taking non-majors Biology courses or upper-division Biology courses, and master's students taking graduate-level Biology courses. My specific areas of expertise are Genetics, Research Methodology, and Immunology.

GRANTS:
NSF SSTEM, co-PI, "Scholarships to Support STEM majors Computational Sciences Minors," $576,750, 2015-2020
NSF, PI, "B cell development and activation in *Danio rerio*," $466,000, 2011-2015.
UCOP California Subject Matter Project in Science, PI, $712,500 total from 2001-2010.
NSF Major Research Instrumentation Award, PI, $213,740, 2006-2008
HHMI Undergraduate Science Education, PI, $800,000, 2004-2008
NIH R29 First Award, PI, $535,506, 1995-2000
UCSD Cancer Research Coordinating Committee Grant, PI, $30,000, 1994-1995
NIH Post-doctoral Fellowship, 1991-1993

REVIEWER:
National Science Foundation

MEMBER:
American Association for the Advancement of Science
American Association of Immunologists

PUBLICATIONS:

Scientific Articles:

Page, D.M., V. Wittamer, J.Y. Bertrand, K.L. Lewis, D.N. Pratt, N. Delgado, S.E. Schale, C. McGue, B.H. Jacobsen, A. Doty, Y. Pao, H. Yang, N.C. Chi, B.G. Magor and D. Traver. (2013) An Evolutionarily Conserved Program of B Cell Development and Activation in Zebrafish. Blood. 122: e1-e11.

Onami, T.M., M.-Y. Lin, **D.M. Page,** S.A. Reynolds, C.D. Katayama, J.D., Marth, T. Irimura, A. Varki, N. Varki, N., and S.M. Hedrick**.** (2002) The generation of mice deficient for the macrophage galactose and N-acetylgalactosamine specific lectin: limited role in lymphoid and erythroid homeostasis, and evidence for multiple lectins. Molecular and Cellular Biology. 14: 5173.

Li, R., and **D. M. Page** (2001) Requirement for a complex array of co-receptors in the negative selection of autoreactive thymocytes in vivo. J. Immunol. 166: 6050-6056.

Page, D.M. (1999) Regulation of thymic selection and autoreactivity by co-receptors involved in T cell activation. J. Immunol., 163:3577.

Priatel, J.J., D. Chui, N. Hiraoka, C.J.T. Simmons, K.B. Richardson, **D.M. Page**, F. Fukuda, N.M. Varki, and J.D. Marth. (2000) The ST3Gal-I sialyltransferase controls CD8+ T lymphocyte homeostasis by modulating O-glycan biosynthesis. Immunity 12:273.

Page, D.M., Roberts, E.M., Peschon, J.D., and Hedrick, S.M**.** (1997) TNF receptor-deficient mice reveal startling differences between several modes of thymocyte negative selection. J. Immunol., 160:120-133.

Page, D. M., Y. Tokugawa, J. Silver, and C. L. Stewart. (1997) Role of Thy-1 in T cell development. J. Immunol. 159:5285-92.

Foy, T.M., **Page, D.M.**, Waldschmidt, T.J., Schoneveld, A., Laman, J.D., Masters, S.R., Tygrett, L, Ledbetter, J.A., Aruffo, A., Claassen, E., Xu, J. C., Flavell, R.A., Oehen, S., Hedrick, S.M., and R.J. Noelle. (1995) An essential role for gp39, the ligand for CD40, in thymic selection. J. Exp. Med., 182:1377-1388.

Page, D.M., Alexander, J., Snoke, K., Appella, E., Sette, A., Hedrick, S,M., and H. Grey. (1994) Negative selection of $CD4^+$ $^C D8^+$ thymocytes by T cell receptor peptide antagonists. Proc. Nat. Acad. Sci., USA, 91: 4057.

Page, D.M., Kane, L.P., Allison, J.P., and S.M. Hedrick. (1993) Two signals are required for negative selection of $CD4^+CD8^+$ thymocytes. J. Immunol. 151:1868.

Page, D.M., Gold, M.R., Fahey, K.A., Matsuuchi, L., and DeFranco, A.L. (1991) Mutational analysis of antigen receptor regulation of B lymphocyte growth: evidence for involvement of the phosphoinositide signaling pathway. J. Biol. Chem. 266:5563.

Page, D.M., and A.L. DeFranco. (1990) Antigen receptor-induced cell cycle arrest in WEHI-231 B lymphoma cells depends on the duration of signaling before the G1 phase restriction point. Mol. Cel. Biol. 10:3003.

Page, D.M., and A.L. DeFranco. (1988) Role of phosphoinositide-derived second messengers in mediating anti-IgM-induced growth arrest of WEHI-231 B lymphoma cells. J. Immunol. 140: 3717.

Review Articles:

Page, D.M., Kane, L.P., Onami, T.M., and Hedrick, S.M**.** (1996) Cellular and Biochemical requirements for thymocyte negative selection. Seminars in Immunology, 8:69-82.

Ruppert, J., Franco, A., Alexander, J., Snoke, K., Ishioka, G.Y., **Page, D.M.**, Hedrick, S.M., Adorini, A., Grey, H.M., and A. Sette. (1995) MHC blocking peptides and T cell receptor antagonists: Novel paths to selective immunosuppression? Chemical Immunology, 60:61-78.

DeFranco, A.L., Gold, M.R., Hempel, W.M., Law, D., **Page, D.M.,** Matsuuchi, L., and V. Chan. (1993) Signal transduction by the B-cell antigen receptor (mIg). Advances in Molecular and Cellular Immunology, Vol. 1A, ed: B. Singh, JAI Press, Inc., Greenwich, CT, p. 31.

DeFranco, A.L., **Page, D.M.**, Blum, J.H., and M.R. Gold. (1989) Signal transduction by the antigen receptor of B lymphocytes. Cold Spring Harbor Symposia on Quantitative Biology, Volume LIV, p. 733.

DeFranco, A.L., **Page, D.M.,** and M.R. Gold. (1989) Signal transduction by the antigen receptor of B lymphocytes: Phosphoinositide breakdown and growth control. Advances in Regulation of Cell Growth. Vol. 1: Regulation of cell growth and activation, ed: J.J. Mond, J. C. Cambier, and A. Weiss, Raven Press, Ltd., NY, p. 59.

Recent unpublished products:

Botts, R.T., **Page, D.M**., Bravo, J.A., Brown, M.L., Castilleja, C.C., Guzman, V.L., Paternoster, M.V., Pyle, S., Ustick, L., Walters, C.J., Hall, S., Henderson, J.D., Kenney, S.M., Brown, C.J., Top, E.M., Cummings, D.E. and M. Lensink. Escherichia coli strain TREC9 plasmid pTREC9, complete sequence, NCBI, https://www.ncbi.nlm.nih.gov/nuccore/MN158992.1

Botts, R.T., **Page, D.M**., Bravo, J.A., Brown, M.L., Castilleja, C.C., Guzman, V.L., Paternoster, M.V., Pyle, S., Ustick, L., Walters, C.J., Hall, S., Henderson, J.D., Kenney, S.M., Brown, C.J., Top, E.M., Cummings, D.E. and M. Lensink. Escherichia coli strain TREC9 plasmid pTREC8, complete sequence, NCBI, https://www.ncbi.nlm.nih.gov/nuccore/MN158991.1

Botts, R.T., **Page, D.M**., Bravo, J.A., Brown, M.L., Castilleja, C.C., Guzman, V.L., Paternoster, M.V., Pyle, S., Ustick, L., Walters, C.J., Hall, S., Henderson, J.D., Kenney, S.M., Brown, C.J., Top, E.M., Cummings, D.E. and M. Lensink. Escherichia coli strain TREC9 plasmid pTREC4, complete sequence, NCBI,

https://www.ncbi.nlm.nih.gov/nuccore/MN158990.1

AWARDS:

San Diego Science Alliance Sustainable Program Partnership Award for Perspectives on Science Seminar Series at PLNU, 2008

Award for Excellence in Science Education, San Diego Science Educators Association, 2004