

Curriculum Vitae

PATRICIA HORAN HAND

Present Status: Administrative Director
Mount Desert Island Biological Laboratory

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Academic Appointments:
Associate Faculty
Graduate School of Biomedical Sciences
University of Maine, Orono

Adjunct Member
Center for Environmental Health Sciences
Dartmouth College

Education: Ph.D. 1980 George Washington University, Washington, D.C.
M.S. 1976 George Washington University, Washington, D.C.
B.A. 1970 Manhattanville College, Purchase, New York

Previous Experience:

1998 – 2000 Scientific Review Administrator, Oncological Sciences Initial Review Group,
Division of Clinical and Population-based Studies, Center for Scientific Review,
National Institutes of Health, Bethesda, Maryland

1982 – 1998 Research Scientist, Experimental Oncology Section, Laboratory of Tumor
Immunology and Biology, Division of Cancer Biology, Diagnosis and Centers,
National Cancer Institute, National Institutes of Health, Bethesda, Maryland

1980 – 1982 Research Scientist, Experimental Oncology Section, Laboratory of Cellular and
Molecular Biology, National Cancer Institute, National Institutes of Health,
Bethesda, Maryland

1977 – 1980 Research Associate, Tumor Virus Detection Section, Laboratory of Viral
Carcinogenesis, National Cancer Institute, National Institutes of Health, Bethesda,
Maryland

- 1976 – 1977 Research Associate, Meloy Laboratories, Inc., Springfield, Virginia
- 1975 – 1976 Teaching Fellow in Microbiology, George Washington University, Department of Microbiology, Washington, D.C.
- 1974-1976 Lecturer in Biological Sciences, George Washington University, Department of Biological Sciences, Washington, D.C.
- 1972-1973 Research Assistant, Flow Laboratories, Inc., Rockville, Maryland
- 1970-1972 Research Assistant, Rockefeller University, New York, New York

Current Research Support:

P30 ES-003828 (Boyer) 04/01/2004-03/31/2009
NIH/NIEHS

The Center for Membrane Toxicity Studies supports a Marine and Freshwater Biomedical Sciences Specialized Center of Research at the Mount Desert Island Biological Laboratory. This Marine and Freshwater Biological Sciences Center grant from the National Institutes of Environmental Health Sciences provides administrative, core facility support, and pilot feasibility support to the Mt. Desert Island Biological Laboratory for work related to environmental toxins.

Role: Administrative Director, MDIBL

P20 RR016463 (Hand) 07/01/2004-04/30/2009
NIH/NCRR

Comparative Functional Genomics INBRE (IDeA Network in Biomedical Research Excellence) in Maine. The goal of this program is to develop a network for biomedical research and research training of faculty and students in Maine. Participating institutions are Mount Desert Island Biological Laboratory (lead), The Jackson Laboratory, Bates College, Bowdoin College, Colby College, College of the Atlantic, and the University of Maine campuses at Orono, Farmington, and Machias.

Role: PI

P20 RR016463-05S1 (Hand) 09/30/2004-04/30/2009
NIH/NCRR

Comparative Functional Genomics IDeA Network of Biomedical Research Excellence (INBRE) in Maine. The objective of this administrative supplement is to enhance the Maine INBRE's research capacity by strengthening computing and informatics resources.

Role: PI

P20 RR016463-06S1 (Hand)
NIH/NCRR

09/30/2004-04/30/2009

Comparative Functional Genomics IDeA Network of Biomedical Research Excellence (INBRE) in Maine. The objective of this administrative supplement is to enhance the Maine INBRE's research and research training capacity by enhancing bioinformatics resources.

Role: PI

DGE-0224749 (Teeri)
NSF

08/01/2006-02/29/2008

IGERT National Recruitment Program

This program was designed to assist NSF Integrative Graduate Education and Research Training (IGERT) programs in the recruitment of students, particularly underrepresented minorities, and to broaden participation in IGERT by helping underrepresented groups and small institutions access IGERT opportunities. Grant is currently in a no-cost extension.

Role: Co-PI

1 U13 RR022675 (Irvin)
NIH/NCRR

08/01/2005-07/31/2010

National IDeA Symposium of Biomedical Research Excellence (NISBRE). This grant supports three national meetings to foster alliances between Centers of Biomedical Research Excellence (COBREs) and IDeA Networks of Biomedical Research Excellence (INBREs) investigators and institutions, and to foster the development of collaborative research networks.

Role: Co-PI

Honors and Other Special Scientific Recognition:

Invited Participant, National Center for Research Resources Strategic Planning Forum, 2007.

National Institutes of Health, National Cancer Institute, Technology Transfer Award, 1994.

Holder of U.S. Patent: Process for Producing Monoclonal Antibodies Reactive with Human Breast Cancer (4,522,918), issued June 11, 1985.

Holder of U.S. Patent: Monoclonal Antibodies Reactive with Human Breast Cancer (4,612,282), issued September 16, 1986.

Inventor Incentive Award, US. Department of Commerce, 1984.

President of D.C. Chapter of Sigma Delta Epsilon, Graduate Women in Science, 1982-1983.

U.S. Department of Health and Human Services, Public Health Services, National Institutes of Health Award; in recognition and appreciation of sustained high quality work performance, 1981.

Mary Louise Robbins Award, George Washington University, Department of Microbiology: For originality and independence of graduate research and excellence of oral presentation, 1980.

American Society for Microbiology, Washington, D.C. Branch, First Place, Student Night Research Presentation Competition, 1980.

Elected to membership in Sigma Xi, Scientific Research Society of North America, George Washington University Chapter, 1979.

Teaching Fellow, George Washington University, 1975-1976.

Advanced Placement – Biology Program, Manhattanville College, 1966.

Committee Memberships:

Vice-Chair, National EPSCoR/IDeA Foundation Board, 2008—present.

Chair, NIH Task Force, National EPSCoR/IDeA Foundation Board, 2008 – present.

Planning Committee, National IDeA Symposium of Biomedical Research Excellence, 2006—present.

IDeA Principal Investigator Organizing Committee, 2007 – present.

Vice-Chair, Maine Innovation Economy Advisory Board, 2007 – present.

Maine Biomedical Research Coalition, 2002—present.

Executive Committee, Maine Marine Research Coalition, 2004—present.

Steering Committee, Graduate School of Biomedical Sciences, The University of Maine, 2005—present.

Director's Search Committee, Graduate School of Biomedical Sciences, The University of Maine, 2007—present.

Renovation/Construction & Campus Planning Committee, MDI Biological Laboratory.

Co-Chair, MDIBL Junior Faculty Search Committee, 2007 – present.

Ex-officio member for the following MDI Biological Laboratory Committees:
Development, Finance, Executive, Long Range Planning, Director's Advisory, Housing,
and Research Resources. 2000 – present.

Incorporator, Mount Desert Island Hospital, and Member, Board Quality and Safety Committee, 2007—present.

Completed Committee Assignments

Chairperson, Molecular Genomics External Advisory Committee, American Type Culture Collection, Manassas, VA, 2000—2006.

Member, Maine Science and Technology Advisory Council, 2000—2007.

Member, National EPSCoR/IDeA Coalition Board of Directors, 2003—2007.

Advisory Committee for Evaluation of IDeA Program sponsored by National Center for Research Resources, 2005

Employee Advisory Committee, Center for Scientific Review, NIH, 1999—2000.

Chairperson and Radiation Safety Officer, Radiation Control/Hazardous Waste/OSHA Committee, MDI Biological Laboratory, 2000—2006.

Committee for Revision of Scientific Review Administrator's Training Handbook, 1999—2000.

Project Officer, National Cancer Institute Contract with Perimmune, Inc., Rockville, MD for Immunological Blood Sample Preparation and Assays, National Cancer Institute, NIH, 1995 —1998.

Project Officer, National Cancer Institute Contract With SRA Technologies, Inc., Falls Church, VA for Immunological Blood Sample Preparation and Assays, National Cancer Institute, NIH, 1995 —1998.

National Cancer Institute Animal Care and Use Committee, National Cancer Institute, NIH, 1994—1998.

Chairperson, National Cancer Institute Laboratory Specialist Promotion Review Panel, 1994—1997.

Ad Hoc Promotion Committee, Division of Cancer Biology, Diagnosis and Centers, National Cancer Institute, National Institutes of Health, 1990 – 1991.

Review committee for program project application, John Muir Cancer and Aging Research Institute of California, 1987, 1988.

Training of Graduate Students

Co-Advocate and Research Consultant in Genetics, Columbian School of Arts and Sciences, George Washington University: for thesis project for Dale Slavin-Chiorini, Department of Genetics.

Co-advisor for Rebecca Cowling for Masters Research and Thesis, University of Maine.

Training of Postdoctoral Fellows

1994 – 1996 Mark Dobrzanski, Ph.D.

1992 – 1996 Joan Karr, Ph.D.

1990 – 1992 Ricardo Parker, Ph.D.
1987 – 1989 Shashi Shrivastav, Ph.D.
1985 – 1987 Rose Tran, Ph.D.
1986 – 1987 Vincent Vilasi, M.D.
1983 – 1985 Arnaldo Caruso, M.D.

Membership (current and previous) in Professional Associations:

American Society for Microbiology
Sigma Delta Epsilon, Graduate Women in Science
Sigma Xi
New York Academy of Sciences
American Association for the Advancement of Science
Columbia Women, George Washington University
National Capital Area Branch – Tissue Culture Association
American Association of University Women

Bibliography

PATRICIA HORAN HAND

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2. Schlom, J., Drohan, W., Teramoto, Y., Horan Hand, P., Colcher, D., Callahan, R., Todaro, G., Kufe, D., Howard, D., Gautsch, J., Lerner, R., and Schidlovsky, G.: Diversity of mouse mammary tumor virus genetic information and gene products in rodents. In Morse III, H.C. (Ed.): Workshop on Origins of Inbred Mice. New York, Academic Press, 1978, pp. 343-368.
3. Horan Hand, P.: "Development of interspecies radioimmunoassay for mammary tumor viruses." Ph.D. thesis, George Washington University, 1980.
4. Schlom, J., Colcher, D., Drohan, W., Horan Hand, P., Howard, D., and Teramoto, Y.A.: Systematics of murine mammary tumor viruses. In Brennan, M. Rich, M.A., and McGrath C.M. (Eds.): Breast Cancer Research: New Concepts in Etiology and Control. New York, Academic Press, 1980, pp. 149-171.
5. Howard, D.K., Horan Hand, P., and Schlom, J.: In vitro infection of mammary and non-mammary cells by mammary tumor viruses. In McGrath, C.M., Brennan, M.J., and Rich, M.A. (Eds.): Cell Biology of Breast Cancer. New York, Academic Press, 1980, pp. 451-466.
6. Horan Hand, P., Teramoto, Y.A., Callahan, R., and Schlom, J.: Interspecies radioimmunoassay for the major internal protein of mammary tumor viruses. Virology 101: 61-71, 1980.
7. Teramoto, Y.A., Horan Hand, P., Callahan, R., and Schlom, J. Detection of novel murine mammary tumor viruses by interspecies immunoassays. J. Natl. Cancer Inst. 64: 967-975, 1980.
8. Schlom, J., Drohan, W., Teramoto, Y.A., Young, J.M., and Horan Hand, P.: Diversity of mammary tumor viral genes and gene products in rodent species. In Essex, M., Todaro, G., and Zurhausen, H. (Eds.): Cold Spring Harbor Conferences on Cell Proliferation – Viruses in Naturally Occurring Cancer. New York, Cold Spring Harbor Laboratory Press, Vol. 7, 1980, pp. 1115-1132.
9. Colcher, D., Horan Hand, P., Nuti, M., and Schlom, J.: A spectrum of monoclonal antibodies reactive with human mammary tumor cells. Proc. Natl. Acad. Sci. USA 78: 3199-3203, 1981.
10. Colcher, D., Horan Hand, P., Teramoto, Y.A., Wunderlich, D., and Schlom, J.: Use of monoclonal antibodies to define the diversity of mammary viral gene products in cirions and mammary tumors of the genus Mus. Cancer Res. 41: 1451-1459, 1981.

11. Nuri, M., Colcher, D., Horan Hand, P., Austin, F., and Schlom, J.: Generation and characterization of monoclonal antibodies reactive with human primary and metastatic mammary tumor cells. In Albertini, A. and Ekins, R. (Eds.): Monoclonal Antibodies and Development in Immunoassays, Proceedings of the Conference on Radioimmunoassays. North Holland, Elsevier/North Holland Biomedical press, 1981, pp. 87-98.
12. Schlom, J., Colcher, D., Teramoto, Y.A., Horan Hand, P., Nuti, M., Austin, F., Mariani, R., and Wunderlich, D.: Generation and characterization of murine and human monoclonal antibodies reactive with human mammary tumor cells. In Mitchell, M.S. and Oettgen, H.F. (Eds.): Hybridomas in Cancer Diagnosis and Treatment. New York, Raven press, Vol. 21, 1982, pp. 213-214.
13. Nuti, M., Teramoto, Y.A., Mariani-Constantini, R., Horan Hand, P., Colcher, D., and Schlom, J.: A monoclonal antibody (B72.3) defines patterns of distribution of a novel tumor-associated antigen in human mammary carcinoma cell populations. Int. J. Cancer 29: 539-545, 1982.
14. Horan Hand, P., Nuti, M., Colcher, D., and Schlom, J.: Definition of antigenic heterogeneity among human mammary carcinoma cell populations using monoclonal antibodies to tumor associated antigens. Cancer Res. 43: 728-735, 1983.
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16. Colcher, D., Horan Hand, P., Nuti, M., and Schlom, J.: Differential binding to human mammary and non-mammary tumors of monoclonal antibodies reactive with carcinoembryonic antigen. Cancer Invest. 1: 127-138, 1983.
17. Horan Hand, P., Colcher, D., Wunderlich, D., Nuti, M., Teramoto, Y.A., Kufe, D., and Schlom, J.: Rational basis for the diagnostic, prognostic and therapeutic utility of monoclonal antibodies in the management of human breast cancer. In Chabner, B.A. (Ed.): Rational Basis for Chemotherapy, Proceedings of the UCLA Symposium. New York, Alan R. Liss, Inc., Vol. 1, 1983, pp. 315-318.
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19. Nuri, M., Teramoto, Y.A., Mariani-Costantini, R., Horan Hand, P., Colcher, D., and Schlom, J.: Reactivity of a monoclonal antibody (B72.3) with fixed sections of human mammary carcinomas. In Davis, W., Maltoni, C., and Tanneberger, S. (Eds.): The Control of Tumour Growth and Its Biological Bases. Berlin, Akademie-Verlag, 1983, pp. 66-70.
20. Schlom, J.: Potential diagnostic and prognostic applications of monoclonal antibodies to human mammary carcinomas. In Wright, G.L. (Ed.): Monoclonal Antibodies and Cancer, New York, Marcel Dekker, Inc., 1983, pp. 121-159.

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23. Nuti, M., Horan Hand, P., Colcher, D., and Schlom, J.: Monoclonal antibodies to human mammary carcinoma associated antigens. L'Igiene Moderna 80: 1125-1139, 1983.
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- monoclonal antibodies. In Sell, S. (Ed.): Monoclonal Antibodies in Cancer, Cancer Markers III. Clifton, NJ, Humana Press, 1984, pp. 247-278.
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- glycoprotein (TAG-72). In Ceriani, R. (Ed.): Proceedings of the International Workshop on Monoclonal Antibodies and Breast Cancer. Boston, Martinus Nijhoff 1985, pp. 108-118.
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 45. Thor, A., Hand, P.H., Wunderlich, D., Weeks, M., Caruso, A., Muraro, R., and Schlom, J.: Monoclonal antibodies generated to a synthetic peptide define ras gene expression at the single cell level in human mammary carcinomas. Dev. Oncol. 28: 151-167, 1985.
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51. Schlom, J., Thor, A., Ohuchi, N., Hand, P., Wunderlich, D., Muraro, R., Weeks, M., Colcher, D., Page, D., Szpak, C., and Johnston, W.: Translation on tumor-associated and proto-oncogene products in human mammary carcinoma cell population. In IVth International Congress on Senology. Paris, Imprimerie Louis-Jean, 1986, pp. 181-185.
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- monoclonal antibody B72.3 to human colon carcinoma xenografts. Int. J. Radiat. Oncol. Biol. Phys. 16: 721-729, 1989.
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