

CURRICULUM VITAE
NANCY L. THOMPSON

TITLE/AFFILIATION

Professor Emerita (Research), Department of Pathology & Laboratory Medicine
Professor Emerita (Research), Department of Medicine
Division of Biology and Medicine, Brown University, Providence, RI 02912

Tel. (401) 556-3660;

Email: Nancy_Thompson@Brown.edu

PERSONAL INFORMATION

Citizenship: USA

Home Address: 4 Strawberry Lane, Warren, Rhode Island 02885

EDUCATION

Undergraduate Cornell University, Ithaca, New York; Biological Sciences, B.S., 1972
Mortar Board Women's Honorary; HoNunDeKah Agricultural Honorary

Graduate Rutgers University, New Brunswick, New Jersey; Microbiology, M.S., 1974
Thesis: Purification of mengo virus and evidence for polyadenylic acid in its
RNA
Sigma Xi Honorary (associate member)

 Brown University, Providence, Rhode Island; Biology, Ph.D., 1986
Thesis: Liver regeneration and carcinogenesis:
Sequential proto-oncogene expression during liver compensatory growth &
Characterization of oval cells during the early stages of ethionine hepatocarcinogenesis.
Sigma Xi Honorary (full member)

TRAINING

1974 - 1976 Junior Cancer Research Scientist, Immunology Research and Molecular
Biology, Roswell Park Memorial Park Institute, Buffalo, NY

1977 Research Assistant, Pathology, Memorial Hospital, Pawtucket, RI

1977 - 1979 Senior Research Assistant, Pathology Tissue Culture Laboratory, Rhode
Island Hospital - Brown University, Providence, RI

- 1979 - 1981 Coordinator - Research, Pathology Tissue Culture Laboratory, Rhode Island Hospital - Brown University, Providence, RI
- 1981 - 1982 Graduate Teaching Assistant, Graduate Program in Molecular Biology, Cell Biology, and Biochemistry, Brown University, Providence, RI (predoctoral)
- 1983 - 1986 Graduate Research Assistant, Graduate Program in Molecular Biology, Cell Biology, and Biochemistry, Brown University, Providence, RI (predoctoral)
- 1986 - 1988 Postdoctoral Researcher-Fellow, Laboratory of Chemoprevention, Division of Cancer Etiology, National Cancer Institute, Bethesda, MD

HONORS/SPECIAL SCIENTIFIC RECOGNITION

- NIH Predoctoral Trainee, Graduate Program in Molecular Biology, Cell Biology, and Biochemistry, Brown University, Providence, RI, July 1982 - Aug. 1983
- Director's Scholarship, Center for Advanced Training in Molecular & Cell Biology, Catholic University of America, Washington, D.C., June 1983
- Biotechnology Training Fellowship, National Cancer Institute, Division of Cancer Etiology, Bethesda, MD, August 1986 - July 1988
- Howard Hughes Scholarship, Molecular Cloning of Eukaryotic Genes course, Cold Spring Harbor Laboratories, Cold Spring Harbor, New York, July, 1989.
- Academic Keys Who's Who in Medical Sciences Education, selected Sept. 2004

ACADEMIC APPOINTMENTS

- 1989 - 1996 Assistant Professor (Research), Dept. of Medicine, Brown University
- 1990 - 1996 Assistant Professor (Research), Dept. of Pathology & Laboratory Medicine, Brown University
- July 1996- Associate Professor (Research), Dept. of Medicine, Brown University
- July 1996- Associate Professor (Research), Dept. of Pathology and Laboratory Medicine, Brown University
- July 2001-2010 Professor (Research), Dept. of Medicine, Brown University
- July 2010-current Professor (Research), Emeritus, Dept. Medicine
- July 2001-current Professor (Research), Dept. of Pathology and Laboratory Medicine
- January 2006- July 2010
Associate Dean for Graduate and Postdoctoral Studies, Brown University Division of Biology and Medicine and Brown Medical School

HOSPITAL APPOINTMENTS

- 1988 - 1996 Assistant Research Oncologist, Medical Oncology, Rhode Island Hospital, Providence, RI
- July 1996-01 Associate Research Oncologist, Medical Oncology, Rhode Island Hospital, Providence, RI
- 2001-2008 Research Oncologist, Medical Oncology, Rhode Island Hospital, Providence, RI
- Oct. 2002-08 Deputy Director, RIH COBRE Center for Cancer Research Development

OTHER APPOINTMENTS

- Ad hoc Reviewer for Cancer Research , Cancer , Cancer Detection and Prevention, International J. Cancer, American J. Pathology , Journal of Biological Chemistry, Biochem. Biophys Acta, Molecular Carcinogenesis, Free Radical Biology & Medicine, Cancer Letters
- Reviewer for Veterans Administration Research Merit Award, 1995
- Reviewer for National Medical Research Council, Singapore, 2004, 2005, 2006, 2010
- Ad hoc Reviewer, Chemical Pathology Peer Review Group (Study Section) National Institutes of Health Center for Scientific Review, June, 1997
- Permanent Member, former Chemical Pathology Peer Review Group (Study Section) National Institutes of Health Center for Scientific Review, Oct., 1997 - June, 2001
- National Advisory Board, FASEB Minority Access to Research Careers (MARC) Program, 2003-08
- 2010 National Science Foundation, Ethics in Science, Math, and Engineering Panel
- Reviewer, NIH Directors Pathfinder Award to Promote Diversity in the Scientific Workforce, 2010
- Reviewer, NIH Predoctoral Fellowship Panel, 2011

HOSPITAL COMMITTEES

- Lifespan Biohazards and Laboratory Safety Committee, 1992-2002
- Rhode Island Hospital Chemical Hygiene Advisory Committee, 1992-98

- Lifespan Recombinant DNA Committee, Chair, 1994-2002
- Rhode Island Hospital Research Journal Club: Founder & Program Committee, 1988-95
- Lifespan Research Day Committee, 1994; Poster Judge, 1999
- Rhode Island Hospital Intellectual Property Review Committee, 1996
- Rhode Island Hospital Radiation Safety Committee, 1996-2005
- Lifespan Selya Research Award Committee, Chair, 2000-2002
- Lifespan Developmental Grant Review Study Section, 2002, 2004, 2005
- RIH Dept. Surgery Trauma and Inflammation Training Grant (P.I. J. Albina, MD) N. Thompson, Intramural Advisory Committee, 2004 – 2009.

UNIVERSITY COMMITTEES

- Faculty Search Committees:
 - Dept. Pediatrics, RI Hospital, 1994;
 - Dept. Pediatrics, Women and Infants Hospital, 2005
 - Dept. Neurosciences, RI Hospital, 1994;
 - Clinical Pharmacology, RI Hospital, 1996;
 - Pathology and Laboratory Medicine, Brown campus tenure-track position, 1998; 2002, 2004
 - Dept. Medicine, Renal Division, RI Hospital, 1999, 2005
 - Dept. Orthopaedics (Erlich endowed chair), RI Hospital, 2001
- Graduate Program in Pathobiology: Publicity & Retreat Committees, 1991-1994
- Graduate Program in Pathobiology: Steering Committee, 1994-95; 1999-2005
- Graduate Program in Pathobiology: Admissions Committee, 1997-98; Chair, 1998
- Dept. of Pathology & Laboratory Medicine, Strategic Planning Committee, 1994-95
- American Cancer Society - Brown University Institutional Grant Review Committee, 1993-97
- Brown University Faculty Executive Committee, 1996-1998
- Brown Biomedical Faculty Council, Faculty Executive Committee representative, 1997-98
- Brown University Strategic Planning Task Force on the University / College, 1996-97
- Faculty Executive Committee Ad Hoc Working Group on Medical Faculty Issues, 1997

- Dean's Task Force on Basic Science – Clinical Department Interactions, Aug. 2000
- Brown University Prizes and Premiums Committee, 2000-2003
- Brown University Oncology Group, Breast Cancer Disease Site Committee, 2001-03
- Brown University Graduate Council, 2002- 2003
- Brown University Office of Women in Medicine Advisory Board, 2003 - present
- Brown University Dept. Medicine Promotions Committee, 2003- 2004
- Brown University Committee on Medical Faculty Appointments (CMFA), 2004-05
- Brown BioMed Division: Dean's Task Force on Graduate and Postdoctoral Training, 2005
- Brown University Working Group on Graduate Education, 2007-08

MEMBERSHIP IN SOCIETIES

- Sigma Xi Scientific Honorary
- American Society for Cell Biology (currently non-active)
- American Association for Advancement of Science
- American Society for Microbiology
- American Association for Cancer Research
- American Society for Investigative Pathology

APPOINTMENTS TO NATIONAL COMMITTEES AND SERVICE TO PROFESSION

- American Society for Investigative Pathology -
Committee for Career Development, Women and Minorities, 1997-2004
Chairperson, 7/2000- 6/2003
Education Committee, 2002 - 2004
- Women in Cancer Research Council of American Assoc. Cancer Research
Nominating Committee, 1999-2001
- Permanent Member, Chemical Pathology Peer Review Group (Study Section)
National Institutes of Health Center for Scientific Review, Oct., 1997 - June, 2001
- Federation of American Societies for Experimental Biology (FASEB) Excellence in
Science Award Committee, July 2000 – present; Chairman 2002-2005
- Federation of American Societies for Experimental Biology (FASEB) Minority Access to
Research Careers (MARC) Advisory Board, 2003 – present

- Outside Reviewer: Promotion dossiers, Academic Promotions Committees: Dept. Pathology and Lab. Med., U. North Carolina, Chapel Hill; National Cancer Institute, Intramural Program; Dept. Pathology and Lab. Med., University of Toronto, Canada; Dept. Surgery, Emory University. Chair, External Review Committee, Dept. Pathology and Laboratory Medicine, U. North Carolina, Chapel Hill, May 2006; External Review Committee, STEM Graduate Program, Marshall University, Huntington, WV, May 2010.
- Institutional Coordinator, representing Brown University, The Leadership Alliance 2006-2010
- American Association of Medical Colleges GREAT (Graduate Research and Training) Program Committee, 2007 – 2009
- Federation of American Societies for Experimental Biology (FASEB) Diversity Award Committee, July 2007 – present, Chairman 2008- 2009.
- Academic Career Coach, the Academy for Future Science Faculty, funded by NIH Pathfinder Award 1DP4GM096807, Richard McGee, PI, Northwestern Univ., 2010-2015 (*one of 10 career coaches in a novel research project whose goal is to enhance biomedical faculty diversity*).

PUBLICATIONS - PEER REVIEWED

NOTE: Some publications appear under a former name: Nancy T. Hayner

1. Gurtoo, H.L., Minowada, J., Paigen, B., Parker, N.B., and Hayner, N.T.: Factors influencing the measurement and reproducibility of aryl hydrocarbon hydroxylase activity in cultured human lymphocytes. J. Nat'l. Cancer Inst., 59: 787-798, 1977.
2. Paigen, B., Gurtoo, H.L., Minowada, J., Houten, L., Vincent, R., Paigen, K., Parker, N.B., Ward, E., and Hayner, N.T.: Questionable relation of aryl hydrocarbon hydroxylase to lung cancer risk. New Engl. J. Med., 297: 346-350, 1977.
3. Paigen, B., Minowada, J., Gurtoo, H.L., Paigen, K., Parker, N.B., Ward, E., Hayner, N.T., Bross, F., Bock, F., and Vincent, R.: Distribution of aryl hydrocarbon hydroxylase inducibility in cultured human lymphocytes. Cancer Res., 37: 1829-1837, 1977.
4. Jauregui, H.O., Hayner, N.T., Driscoll, J.L., Williams-Holland, R., Lipsky, M.H., and Galletti, P.M.: Trypan blue uptake and lactate dehydrogenase in adult rat hepatocytes: Freshly isolated cells, cell suspensions and primary monolayer cultures. In Vitro, 17: 1100-1110, 1981.
5. Hayner, N.T., Driscoll, J.L., Ferayorni, L., Spies-Karotkin, G., and Jauregui, H.O.: A sensitive method for protein determination in freshly isolated and cultured cells. J. Tissue Culture Methods, 7: 77-80, 1982.
6. Driscoll, J.L., Hayner, N.T., Williams-Holland, R., Spies-Karotkin, G., Galletti, P.M., and Jauregui, H.O.: Phenosulfonphthalein (phenol red) metabolism in primary monolayer cultures of adult rat hepatocytes. In Vitro, 18:835-842, 1982.

7. Hayner, N.T., Braun, L., Yaswen, P., Brooks, M., and Fausto, N.: Isozyme profiles of oval cells, parenchymal cells, and biliary cells isolated by centrifugal elutriation from normal and preneoplastic livers. Cancer Res., 44: 332-338, 1984.
8. Yaswen, P., Hayner, N.T., and Fausto, N.: Isolation of oval cells by centrifugal elutriation and comparison with other cell types purified from normal and preneoplastic livers. Cancer Res., 44: 324-331, 1984.
9. Yaswen, P., Thompson, N.L., and Fausto, N.: Oncodevelopmental expression of rat placental alkaline phosphatase: detection in oval cells during liver carcinogenesis. Am. J. Pathology, 121: 125-133, 1985.
10. Thompson, N.L., Mead, J.E., Braun, L., Goyette, M., Shank, P.R., and Fausto, N.: Sequential proto-oncogene expression during liver regeneration. Cancer Res., 46: 3111-3117, 1986.
11. Spelman, L.H., Thompson, N.L., Fausto, N., and Miller, K.R.: A structural analysis of gap and tight junctions in the rat liver during a dietary treatment which induces oval cell proliferation. Am. J. Pathol., 125: 153-166, 1986.
12. Braun, L., Goyette, M., Yaswen, P., Thompson, N.L., and Fausto, N.: Liver epithelial cells from carcinogen treated rats: Growth in culture and tumorigenicity after transfection with the ras oncogene. Cancer Res., 47: 4116-4124, 1987.
13. Heine, U.I., Munoz, E.F., Flanders, K.C., Ellingsworth, L.R., Lam, H.-Y.P., Thompson, N.L., Roberts, A.B., and Sporn, M.B.: The role of transforming growth factor-beta in the development of the mouse embryo. J. Cell Biol., 105: 2861-2876, 1987.
14. Jakowlew, S.B., Kondaiah, P., Flanders, K.C., Thompson, N.L., Dillard, P.J., Sporn, M.B., and Roberts, A.B.: Increased expression of growth factor mRNAs accompanies viral transformation of rodent cells. Oncogene Res., 2: 135-148, 1988.
15. Roberts, A.B., Thompson, N.L., Flanders, K.C., Wilder, R.L., and Sporn, M.B.: Transforming growth factor-beta: possible roles in carcinogenesis. Br. J. Cancer, 57: 594-600, 1988.
16. Wakefield, L.M., Thompson, N.L., Flanders, K.C., O'Connor-McCourt, M.D., and Sporn, M.B.: Transforming growth factor-beta: multifunctional regulator of cell growth and phenotype. Annals of the New York Academy of Sciences, 551:290-298, 1989.
17. Thompson, N.L., Bazoberry, F., Speir, E.H., Casscells, W., Ferrans, V.J., Flanders, K.C., Kondaiah, P., Geiser, A.G., and Sporn, M.B.: Transforming growth factor beta-1 in acute myocardial infarction in rats. Growth Factors, 1:91-98, 1988.
18. Flanders, K.C., Thompson, N.L., Cissel, D.S., Van Obberghen-Schilling, E., Baker, C.C., Kass, M.E., Ellingsworth, L.R., Roberts, A.B., and Sporn, M.B.: Transforming growth factor β 1: histochemical localization with antibodies to different epitopes. J. Cell Biol., 108:653-660, 1989.

19. Thompson, N.L., Flanders, K.C., Smith, J.M., Ellingsworth, L.R., Roberts, A.B., and Sporn, M.B.: Expression of transforming growth factor β 1 in specific cells and tissues of adult and neonatal mice. J. Cell Biol., 108:661-669, 1989.
20. Lafyatis, R., Thompson, N.L., Remmers, E.F., Flanders, K.C., Roche, N.S., Kim, S-J., Case, J.P., Sporn, M.B., Roberts, A.B. and Wilder, R.L.: Transforming growth factor β production by synovial tissues from rheumatoid patients and Streptococcal cell wall arthritic rats. J. Immunol., 143:1142-1148, 1989.
21. Van Obberghen-Schilling, E., Thompson, N.L., Flanders, K.C., Sporn, M.B., Lambert, P.F. and Baker, C.C.: Transforming growth factor β expression in fibropapillomas induced by bovine papillomavirus type 1, in normal bovine skin, and in BPV-1 transformed cells. Growth Factors, 2:111-121, 1990.
22. Hixson, D.C., Faris, R.A. and Thompson, N.L.: An antigenic portrait of the liver during carcinogenesis. Pathobiology, 58:65-77, 1990.
23. Faris, R.A., McEntire, K.D., Thompson, N.L. and Hixson, D.C.: Identification and characterization of a novel hepatic oncofetal membrane glycoprotein. Cancer Res., 50:4755-4763, 1990.
24. Sieweke, M.H., Thompson, N.L., Sporn, M.B. and Bissell, M.J.: TGF-beta is a mediator of wound related Rous sarcoma virus tumorigenesis. Science, 248:1656-1660, 1990.
25. Casscells, W., Bazoberry, F., Speir, E., Thompson, N., Flanders, K., Kondaiah, P., Ferrans, V.J., Epstein, S.E. and Sporn, M.B.: Transforming growth factor β 1 in normal heart and in myocardial infarction. Annals of the New York Academy of Sciences, 593:148-160, 1990.
26. Thompson, N.L., Hixson, D.C., Callanan, H., Panzica, M., Flanagan, D., Faris, R.A., Hong, W., Hartel-Schenk, S. and Doyle, D.: A Fischer rat substrain deficient in dipeptidyl peptidase IV activity makes normal steady state RNA levels and an altered protein: use as a liver cell transplantation model. Biochem. J., 273:497-502, 1991.
27. Pinar, H., Thompson, N.L., Flanders, K.C., Sporn, M.B., Sung, J. and Rogers, B.B.: Distribution of transforming growth factor beta in a two week human embryo. Growth Factors, 6:203-208, 1992.
28. Cheung, P.H., Thompson, N.L., Earley, K., Culic, O., Hixson, D, and Lin, S.-H.: Cell-CAM 105 isoforms with different adhesion functions are co-expressed in adult rat tissues and during liver development. J. Biol. Chem., 268:6139-6146, 1993.
29. Thompson, N.L., Panzica, M.A., Hull, G., Lin, S-H, Curran, T.R., Gruppuso, P.A., Baum, O., Reutter, W. and Hixson, D.C.: Spatiotemporal expression of two cell-cell adhesion molecule 105 isoforms during liver development. Cell Growth and Different., 4:257-268, 1993.
30. Cheung, P.H., Culic, O., Qui, Y., Earley, K., Thompson, N., Hixson, D.C. and Lin, S-H.: The cytoplasmic domain of C-CAM is required for C-CAM mediated adhesion function: studies of a C-CAM transcript containing an unspliced intron. Biochem. J., 295:427-435, 1993.

31. Lim, Y-P., Callanan, H., Lin, S-H., Thompson, N.L. & Hixson, D.C.: Preparative mini slab gel continuous elution electrophoresis: application for the isolation of proteins associated with the rat hepatocyte cell adhesion molecule, cell CAM 105. Anal. Biochem., 214:156-164, 1993.
32. Niles, R.M., Thompson, N.L. and Fenton, F.: Expression of TGF- β during in vitro differentiation of hamster tracheal epithelial cells. In Vitro Cell. Dev. Biol., 30A:256-262, 1994.
33. Sang, J. and Thompson, N.L. An efficient procedure for obtaining long cDNA clones from phage library screening. BioTechniques, 17(3):446-451, 1994.
34. Thompson, N.L., Lin, S-H., Panzica, M.A. and Hixson, D.C. Cell CAM 105 isoform RNA expression is differentially regulated during rat liver regeneration and carcinogenesis. Pathobiology, 62:209-220, 1994.
35. Pinar, M.H., Thompson, N.L., Flanders, K.C. and Rogers, B.B. Spatiotemporal distribution of TGF- β 1, TGF- β 2 and TGF- β 1 precursor in human embryonic development. Cell Vision, 1:200-207, 1994.
36. Sang, J., Lim, Y.-P., Panzica, M., Finch, P. and Thompson, N.L. *TA1*, a highly conserved oncofetal cDNA from rat hepatoma encodes an integral membrane protein associated with liver development, carcinogenesis and cell activation. Cancer Res., 55:1152-1159, 1995.
37. Chapman, L., Sang, J., Lin, S.H., Hixson, D.C. and Thompson, N.L. Cloning of cDNAs from a mammalian expression library by a direct selection - amplification method. Mol. Biotech., 5:77-83, 1996.
38. Earley, K., Luo, W., Qui, Y., Thompson, N.L., Chou, J., Hixson, D.C. and Lin, S.H. Identification of a new C-CAM isoform, C-CAM4: a secretory protein with only one immunoglobulin domain. Biochem. J., 315:799-806, 1996.
39. Knuckey, N.W., Finch, P., Palm, D.E., Primiano, M.J., Johanson, C., Flanders, K.C. and Thompson, N.L. Differential neuronal expression of transforming growth factor β isoforms following transient forebrain ischemia. Mol. Brain Res., 40:1-14, 1996.
40. Lim, Y.P., Fowler, L.C., Hixson, D.C., Wehbe, T. and Thompson, N.L. TuAg.1 is the liver isoform of the rat colon tumor-associated antigen, pE4, and a member of the immunoglobulin-like supergene family. Cancer Res., 56:3934-3940, 1996.
41. Wolf, D.A., Panzica, M.A., Wang, S., Bassily, N.H. and Thompson, N.L. Expression of a highly conserved oncofetal gene, *TA1/E16*, in human colon carcinoma and other primary tumors: homology to *S. mansoni* amino acid permease and *C. elegans* gene products. Cancer Res. 56:5012-5022, 1996.
42. Shultz, V.D., Degli Esposti, S., Panzica, M.A., Abraham, A., Finch, P. and Thompson, N.L. Expression of *TA1*, a rat oncofetal cDNA with homology to transport-associated genes, in carbon tetrachloride-induced liver injury. Pathobiology, 65:14-25, 1997.

43. Mannion, B.A., Kolesnikova, T.V., Lin, S.H., Wang, S., Thompson, N.L., and Hemler, M.E. The light chain of CD98 is identified as E16/TA1 Protein. J. Biol. Chem. 273, 33127-33129, 1998.
44. Shultz, V.D., Campbell, W., Karr, S., Hixson, D.C. and Thompson, N.L. TA1 oncofetal rat liver cDNA and putative amino acid permease: temporal correlation with c-myc during acute CCL₄ liver injury and variation of RNA levels in response to amino acids in hepatocyte cultures. Toxicol. Appl. Pharm. 154:84-96, 1999.
45. Liu, J., Pan, J., Naik, S., Santiangini, H., Trenkler, D., Thompson, N., Rifai, A., Chowdhury, J. R. and Jauregui, H. Characterization and evaluation of detoxification functions of a nontumorigenic immortalized porcine hepatocyte cell line (HepLiu). Cell Transplantation 8:219-232, 1999.
46. Campbell, W. A., Sah, D.E., Albina J.E., Coleman, W.B., and Thompson, N.L. TA1/LAT-1/CD98 light chain and system L activity, but not 4F2/CD98 heavy chain, respond to arginine availability in rat hepatic cells: loss of response in tumor cells. J. Biol. Chem., 275:5347-5354, 2000.
47. Diah, S.K., Padbury, J.F., Campbell, W.A., Britt, D., and Thompson, N.L. Molecular cloning of the rat TA1/LAT-1/CD98 light chain gene promoter. Biochimica et Biophysica Acta 1518:267-270, 2001.
48. Campbell, W.A., and Thompson, N.L. Over expression of LAT-1/CD98 light chain is sufficient to increase system L amino acid transport activity in mouse hepatocytes, but not fibroblasts. J. Biol. Chem. 276:16877-16884, 2001.
49. Padbury, J.F., McGonnigal, B., Miller, C., Fugere, C., Kuzniar, M. and Thompson, N.L. Transcriptional regulation of the LAT-1/CD98 light chain. Biochem. Biophys. Res. Comm. 318: 529-534, 2004.
50. Storey, B.T., Fugere, C., Lesieur-Brooks, A., Vaslet, C. and Thompson, N.L. Adenoviral modulation of the tumor-associated system L amino acid transporter, LAT1, alters amino acid transport, cell growth and 4F2/CD98 expression in cultured hepatic cells. Int. J. Cancer, 117:387-397, 2005.
51. Erickson, B. Thompson, N.L. and Hixson, D.C. Tightly regulated induction of the adhesion molecule necl-5/CD155 during rat liver regeneration and acute liver injury. Hepatology 43:325-334, 2006.
52. Leong, H.X., Simkevich, C., Lesieur-Brooks, A., Lau, B., Fugere, C., Sabo, E. and Thompson, N.L. Short term arginine deprivation results in large scale modulation of hepatic gene expression in both normal and tumor cells: microarray bioinformatics analysis. Nutr. Metab. (Lond). Sept 8:3, 37, 2006.

OTHER PUBLICATIONS

1. Jauregui, H.O., Hayner, N.T., Solomon, B.A., and Galletti, P.M.: Hybrid artificial liver. In: M. Szycher (ed.): Biocompatible Polymers, Technomic Publishing Co., pp. 861-882, 1982.
2. Fausto, N., Thompson, N.L., and Braun, L.: Purification and culture of oval cells from rat liver. In: Pretlow, T.G. and Pretlow, T.A. (eds.): Cell Separation: Methods and Selected Applications, Academic Press, Vol. 5., pp. 45-77, 1986.
3. Roberts, A.B., Flanders, K.C., Kondaiah, P., Thompson, N.L., Van Obberghen-Schilling, E., Wakefield, L., Rossi, P., de Crombrughe, B., Heine, U., and Sporn, M.B.: Transforming growth factor beta: Biochemistry and roles in embryogenesis, tissue repair and remodeling, and carcinogenesis. Recent Prog. in Horm. Res., 44: 157-197, 1988.
4. Wakefield, L., Thompson, N., O'Connor-McCourt, M.D., and Sporn, M.B.: Transforming growth factor-beta: An endogenous inhibitor of cell growth. In: Maggi, M. and Johnston, C. A., (eds.), Horizons in Endocrinology, Raven Press, New York, vol. 52, pp.21-29, 1988.
5. Thompson, N.L. and Fausto, N.: Isolation and culture of liver epithelial cells from carcinogen treated rats. In: Tyson, C.A. and Frazier, J.M. (eds.) Methods in Toxicology, vol. 1, chapter 28, p 317-329, Academic Press, Orlando, FL, 1993.

ABSTRACTS AND MEETING PRESENTATIONS

1. Gurtoo, H.L., Hayner, N.T., Parker, N.B., and Minowada, J.: Aryl hydrocarbon hydroxylase (AHH) in cultured lymphoid cells from normal humans and leukemia patients. Proc. Am. A. Cancer Res., 17: 93a, 1976.
2. Driscoll, J.L., Hayner, N.T., Galletti, P.M., Williams-Holland, R., and Jauregui, H.O.: Metabolism and toxicity of phenol red in adult rat hepatocyte cultures. Lab. Invest., 42: 112-113, 1980.
3. Jauregui, H.O., Hayner, N.T., Laliberte, R., Lipsky, M., McMillan, P.N., and Galletti, P.M. Procurement of hepatocytes for a hybrid artificial liver. Trans. Am. Soc. Artif. Intern. Organs, 25: 487-492, 1979.
4. Altman, J.J., Panol, G., Hayner, N.T., and Galletti, P.M.: Oxygen requirements of freshly isolated cells. Artif. Organs, 3: 290, 1979.
5. Yaswen, P., Hayner, N.T., and Fausto, N.: Purification of a nonparenchymal cell population with fetal markers which proliferated in preneoplastic liver. Fed. Proc., 42: 661, 1983.
6. Hayner, N.T., Goyette, M., Oren, M., and Fausto, N.: Modulation of p53 expression during liver regeneration. J. Cell Biol., 99: 450a, 1984.

7. Hayner, N.T., Shank, P.R., Mead, J.E., and Fausto, N.: A biphasic expression of c-myc proto-oncogene precedes p53 expression during liver regeneration. NCI-FCRF First Annual Meeting on Oncogenes, Abst. 202, 1985.
8. Fausto, N., Mead, J.E., Braun, L., Thompson, N.L., Panzica, M., Goyette, M., Bell, G.I., and Shank, P.R.: Proto-oncogene expression and growth factors during liver regeneration. Symp. Fundamental Cancer Res., Vol. 39, 1987.
9. Thompson, N.L., Flanders, K.C., Ellingsworth, L.R., Roberts, A.B., and Sporn, M.B.: Cell type specific expression of transforming growth factor-beta in neonatal and adult mouse tissue. J. Cell Biochem. Suppl., 12a: 202, 1988.
10. Flanders, K.C., Thompson, N.L., Ellingsworth, L.R., Kass, M.E., Sporn, M.B., and Roberts, A.B.: Epitope dependent immunohistochemical localization of transforming growth factor-beta. J. Cell Biochem. Suppl., 12a: 196, 1988.
11. Remmers, E.F., Thompson, N.L., Lafyatis, R., Flanders, K., Yocum, D., Roberts, A., Sporn, M.B., and Wilder, R.L.: Regulation of rheumatoid synoviocyte proliferation by PDGF, TGF- β , EGF, IL-1 and TNF-Alpha. FASEB J., 2: A1598, 1988.
12. Lafyatis, R., Thompson, N., Remmers, E., Flanders, K., Roberts, A., Sporn, M., and Wilder, R.L.: Demonstration of local production of PDGF and TGF- β by synovial tissue from patients with rheumatoid arthritis. Arthritis Rheum., 32:S62, 1988.
13. Basoberry, F., Thompson, N., Speir, E., Casscells, W., Ferrans, V., Flanders, K., and Sporn, M.: Transforming growth factor beta-1 in normal heart and acute myocardial infarction. J. Cell Biol., 107:47a, 1988.
14. Sieweke, M.H., Stoker, A., Thompson, N. and Bissell, M.: Wound healing is a co-factor in RSV tumorigenicity. J. Cell Biol., 107:264a, 1988.
15. Flanders, K.C., Thompson, N.L., Heine, U.I., Sporn, M.B. and Roberts, A.B.: Transforming growth factor - β : a multifunctional regulator of cell growth and differentiation. J. Cell Biol., 107:446a, 1988.
16. Thompson, N.L., Callanan, H., Panzica, M.A., Flanagan, D., Hong, W., Hartel-Schenk, S., Faris, R.A. and Hixson, D.C.: Molecular mechanism for the absence of dipeptidyl peptidase IV activity in a substrain of Fischer 344 rats. , FASEB J., 4:A1034, 1990.
17. Flanders, K.C., Lafyatis, R., Thompson, N.L., Roberts, A.B. and Sporn, M.B.: Transforming growth factor-beta: multifaceted control of inflammation., 1st Internat. Congress on Inflammation, Barcelona, Spain, June, 1990.
18. Thompson, N.L., Hull, G., Lin, S.-H. and Hixson, D.C.: Cell CAM 105 RNA expression during rat liver development, regeneration and carcinogenesis. J. Cell Biol., 111:156a, 1990.
19. Gartner, M.H., Thompson, N.L., Shearer, J.D. and Caldwell, M.D.: The temporal expression of TGF- β 1 RNA in the healing wound. Wound Healing Society meeting Feb., 1991.

20. Sang, J., Lim, Y.P., Hixson, D.C., Lin, S.W. and Thompson, N.L.: Cloning of membrane glycoproteins by a direct antibody selection - PCR amplification method: application in cloning of a tumor associated antigen. 44th Annual Symp. Fund. Cancer Res., Houston, TX, 1991.
21. Baum, O., Thompson, N.L., Lin, S.-H., Gruppuso, P.A., Curran, T.R., Reutter, W. and Hixson, D.C.: Identification of four novel isoforms of the cell adhesion molecule cell-CAM 105 in cell cultures of fetal hepatocytes. Hoppe Seyler Symposium, Europe, June, 1991.
22. Thompson, N.L., Sang, J., Lim, Y.P. and Hixson, D.C.: Cloning of a rat liver tumor associated antigen by a method combining direct antibody selection and PCR amplification with protein microsequencing. Proc. Amer. Assoc. Cancer Res., 33:193, 1992.
23. Pinar, H., Thompson, N.L., Flanders, K.C., Sporn, M.B. and Rogers, B.B. Distribution of TGF- β 1 and TGF- β 2 in human embryogenesis. Soc. Pediatric Pathology Interim Meeting, Oct. 1-4, 1992.
24. Thompson, N.L., Silva, D., Sang, J., Douoguih, M., and Lim, Y.P. A rat hepatoma-associated antigen is also expressed in liver injury; characterization. Proc. Amer. Assoc. Cancer Res., 34:28, 1993.
25. Thompson, N.L., Lin, S.H., Panzica, M.A. & Hixson, D.C. Contrasting regulation of cell CAM 105 isoforms in three rat liver models. Fourth Annual Carcinoembryonic antigen/Preganancy specific glycoprotein Workshop, Boston, MA, Aug. 22-25, 1993.
26. Knuckey, N., Finch, P., Thompson, N., Palm, D., Primiano, M., Johanson, C., Flanders, K. and Sporn, M. The pattern of neuronal expression and neuroprotective role of transforming growth factor β isoforms following transient cerebral ischemia. FASEB J., 8:A654, 1994.
27. Thompson, N.L., Sang, J., Abraham, A., Panzica, M. and Desgli Esposti, S. TA1, a new rat liver cDNA expressed in liver during injury and carcinogenesis. Hepatology, 20:275A, 1994.
28. Degli Esposti, S., Lofredda, S., Kresina, T., Thompson, N. and Zern, M. Localization of TGF- β isoforms in liver fibrosis. Hepatology, 20:291A, 1994.
29. Pinar, H., Panzica, M. and Thompson, N. RT-PR amplification of TA1 mRNA from formalin fixed-paraffin embedded specimens. Accepted, Soc. Pediatric Pathology, 1994.
30. Wolf, D.A., Panzica, M., Wang, S. and Thompson, N.L. Expression of highly conserved oncofetal gene, TA1/E16, in a variety of human tumors: characterization as a potential tumor marker. Accepted, United States and Canadian Academy of Pathology, 1995.
31. Comegys, M., Lin, S-W., Thompson, N. and Hixson, D. Rat strain and cell-type specific expression of C-CAM 2. FASEB J., 9:A1, 1995.

32. Thompson, N.L., Panzica, M., Shultz, V., Wang, S., Mesesan, K. and Wolf, D. A highly conserved oncofetal and injury associated cDNA cloned from rat hepatoma is expressed in human tumors. FASEB J. 9:A2, 1995.
33. Lim, Y.P., Fowler, L., Wehbe, T., Thompson, N.L. and Hixson, D.C. Identity of TuAg.1, a rat liver oncofetal antigen with pE4, a member of the immunoglobulin gene superfamily and evidence for expression in human carcinomas. Proc. Amer. Assoc. Cancer Res. 37:463, 1996.
34. Weiss, A-P.C., Blanks, R.H., Glowacki, K.A., Sachar, K., Moore, D.C., Khawaja, M.S., Kock, R.B. and Thompson, N.L. TGF- β expression in extremity replant reperfusion injury. Accepted, 42nd Annual Meeting, Orthopaedic Research Society, Atlanta, GA, Feb., #433, 1996.
35. Campbell, W., Shultz, V., Wang, S., Lee, R. and Thompson, N.L. Induction of TA1/E16, a highly conserved oncofetal and cell activation cDNA in rat liver regeneration. FASEB J. 11(3):A104, 1997.
36. Bassily, N., Wang, S., Lee, R., Lin, S-H. and Thompson, N.L. Expression of a highly conserved oncofetal gene, TA1/E16, in human colon carcinoma: Detection with antibodies to recombinant TA1 and comparison with bcl-2 and mutant p53. Am. J. Clin. Pathol. 108:336, 1997.
37. Hixson, D., Lui, L., Karr, S. and Thompson, N.L. Elevated expression of TuAg.1, an Ig-like oncofetal antigen, occurs transiently in fetal, regenerating, and CCl₄ injured liver and during oval cell expansion and tumor progression. FASEB J. 12:A335, 1998.
38. Thompson, N.L., Shultz, V.D., Campbell, W., Hixson, D.C. and Karr, S. Expression of TA1, an amino acid transport homolog, correlates with c-myc during CCl₄-induced liver regeneration and amino acid deprivation in cultured hepatocytes. FASEB J. 12:A470, 1998.
39. Thompson, N.L., Campbell, W.C., Sah, D., and Coleman, W.B. Modulation of CD98 - TA1/E16 expression in immortalized and transformed hepatic cells and early liver injury. Proc. Amer. Assoc. Cancer Res. 40:130, 1999
40. Campbell, W., Sah, D.E., Coleman, W.B., and Thompson, N.L. Loss of adaptive regulation of TA1/E16 amino acid transporter during hepatocarcinogenesis. FASEB J. 13(4):A190, 1999.
41. Campbell, W., Sah, D.E., Coleman and Thompson, N.L. TA1 and amino acid transport respond to arginine availability in rat hepatic cells: loss of response in tumor cells. FASEB J. 14: A447, 2000.
42. Thompson, N.L., Campbell, W.A.III, Diah, S.K., Britt, D. and Padbury, J.F. Regulation and role of LAT1/CD98 light chain expression in hepatocarcinogenesis. FASEB J. 15:A1181, 2001.
43. Diah, S.K, Campbell, W.A., Britt, D., Padbury, J.F. and Thompson, N.L. Transcriptional regulation of rat TA1/LAT-1 in Tumor Progression. Proc. Amer. Assoc. Cancer Res. 42:491, 2001.

44. Thompson, N.L., Yoo, J-S., Kuzniar, M., Medina, M., and Gruppuso, P. Signaling pathways in amino acid responsive LAT1/CD98 expression and function in normal and neoplastic hepatic cells. FASEB J. 16:A260, 2002.
45. Thompson, N.L., Yoo, S-J, Kuzniar, M., Anand, P. and Gruppuso, P.A. Oncofetal and Amino Acid-Responsive hepatic LAT1/CD98 Expression, International Society of Differentiation Meeting Lyon, France, Sept. '02.
46. Chung, M.A., Rodriguez C., Vaslet, C. and Thompson, N.L.. Interaction of MUC1 with E-cadherin and alpha-catenin in breast cancer. ACS Meeting for Physician Scientists, 2003.
47. Storey, B.T. and Thompson, N.L. Inducible regulation of Tumor-associated LAT1 amino acid transport. Edward A. Smuckler Memorial Pathobiology of Cancer Workshop, Keystone, Colorado, July 13-20, 2003.
48. Thompson, N.L., Storey, B.T., Vaslet, C.A., and Fugere, C. Adenoviral-mediated modulation of hepatic LAT1/CD98 light chain expression. International Conference on Applied Genomics, Amsterdam, The Netherlands, Oct. 1-4, 2003.
49. Storey, B.T., Fugere, C., Lesieur-Brooks, A., Vaslet, C.A. and Thompson, N.L. Inducible regulation of tumor-associated LAT1/CD98 amino acid transporter. FASEB J. Abstract 3918, 2004.
50. Thompson, N.L., Lesieur-Brooks, A., Lau, B., Leong, H-X. and Simkevich, C. Arginine regulation of hepatic gene expression – microarray analysis. FASEB J. 18(4):A383, Suppl.S, 2004.
51. Thompson, N.L., Storey, B.T., Fugere, C., Lesieur-Brooks, A., and Vaslet, C.A. Targeting TA1/LAT1/CD98 amino acid transporter in tumor cells. Proc. 18th Meeting of European Assoc. for Cancer Res., Innsbruck, Austria, July 3-6, 2004, p. 301.
52. Targeting TA1/LAT1/CD98 amino acid transporter in tumor cells. Moffitt Cancer Center Meeting: Molecular Targets for Cancer Therapy meeting, October 4, 2004.
53. Storey, B.T., Leong, H.X., C Fugere, C., Lesieur-Brooks, A., Vaslet, C. and Thompson, N.L. Adenovirally-introduced LAT1 sense (CD98lc) and antisense modulate amino acid transport, cell growth and gene expression in hepatic cells. FASEB J. Abstract/ poster presented Experimental Biology Meeting, San Diego, April, 2005.

INVITED PRESENTATIONS OUTSIDE BROWN UNIVERSITY (separate from above)
(Brown-RIH presentations not listed)

1. Dept. Molekularbiologie, Freie Universität, Berlin, Germany
postponed and ultimately cancelled due to Gulf War, January, 1991.
2. Biochemistry Dept., Boston University School of Medicine, Boston, MA
"Expression and cloning of a novel liver membrane antigen: alternative constitutive and inducible properties", May 23, 1991.

3. Carcinoembryonic Antigen - Pregnancy Specific Glycoprotein Workshop, Boston, MA "Contrasting regulation of cell CAM 105 isoforms in three rat liver models", Aug. 24, 1993.
4. National Institutes of Health, Building 41, Bethesda, MD Workshop: "TGF- β and protection of the brain from vascular and metabolic injury", May 3, 1994.
5. American Cancer Society, Rhode Island Chapter Board of Directors Meeting Pawtucket, RI; "Research Strides Against Cancer - Local & Global Progress – the view from a researcher", Jan. 18, 1995.
6. National Institutes of Health, Bethesda, MD, Alumni Symposium, Laboratory of Chemoprevention. "Characterization of TGF- β expression in a rat model of ischemic injury", April 21, 1995.
7. American Society for Investigative Pathology - Co-chair for 1996 Annual Meeting Minisymposium on Liver Progenitor Cells and Regeneration
8. Dept. Biomedical Sciences, URI College of Pharmacy, University of Rhode Island. "TA1/E16, a novel transporter and potential signaling molecule in onco-injury", Nov. 13, 1998.
9. "Balancing Breadth and Depth in Graduate Curricula in Pathology" sponsored by American Society for Investigative Pathology, Experimental Biology 2000 Meeting, San Diego, CA, April, 2000.
10. Regulation and Role of Rat TA1/LAT1/CD98 Expression in Hepatic Neoplasia". Transporters 2000 International Meeting, Costa Brava, Spain, Sept.13, 2000.
11. Faculty speaker at National Minority Research Symposium, Washington, DC, "Cloning and function of a tumor associated gene", Nov.9-10, 2000.
12. Exp. Biol. '00 Meeting, Workshop Co-Chair and Panel Moderator, "Advances and disease applications in laser capture/genomics/proteomics", San Diego, CA., April 2000.
13. Exp. Biol. '02 Meeting, Co-Chair, American Society for Investigative Pathology, Graduate Poster Discussion Highlights, New Orleans, LA., April 2002.
14. Exp. Biol. '03 Meeting, "Mentoring and Minority Recruiting in Pathobiology", American Society for Investigative Pathology Graduate Program Director's Workshop, San Diego, CA., April 11, 2003.
15. Exp. Biol. '03 Meeting, Co-Chair and Introductory speaker, American Society for Investigative Pathology Career Development Workshop: "Playing to Win: Elements of Success", San Diego, CA, April 13, 2003.
16. Exp. Biol. '04 Meeting, "Counseling Students out of Difficulty or Cutting the Cord", ASIP Graduate Program Director Workshop, Washington, D.C., April 16, 2004.

17. Exp. Biol. '05 Meeting, Chair ASIP Workshop "Pathways to Leadership". Platform presentation "Leadership Styles, Flavors and Colors", San Diego, CA, April 3, 2005.
18. Exp. Biol. '06 Meeting, Program planning co-chair, FASEB MARC Symposium: "Health Disparities in Breast and Prostate Cancer", San Francisco, CA, April 3, 2006.
19. Exp. Biol. '08 Meeting, ASIP Workshop "How to Succeed in Big Science". Platform presentation "Training for Big Opportunities – Dollars and Sense", San Diego, CA, April 6, 2008.
20. March 2, 2011. Invited keynote speaker for Postdoctoral Retreat at St. Jude's Research Hospital, "Professionalism: maximizing your impact and career success".

GRANTS & RESEARCH SUPPORT

Past Funding

1. American Cancer Society/Brown University Institutional Grant IN-45-31, N.L. Thompson, Prin. Invest.; "Molecular cloning of a liver membrane oncofetal antigen", 8/89-6/91, total funds \$5,000.
2. Rhode Island Foundation, Grant 815, N.L. Thompson, Prin. Invest.; "Developmental expression of TGF- β in early embryogenesis"; 2/91-1/92, 10% effort, total funds: \$3,900.
3. American Cancer Society, Grant #CN-20, N.L. Thompson, Prin. Invest.; "Expression and cloning of TuAg.1, a novel liver oncofetal antigen", 7/90 - 12/92, \$169,000; \$72,536 annual direct costs.
4. Roger Williams Cancer Center, Developmental award from CORE Grant P30 CA13943, N. L. Thompson, Prin. Invest., "A Novel Liver Tumor-Associated Antigen", 5/93 - 4/94, 10% effort, total funds: \$10,000.
5. National Institutes of Health, R01 CA4214, Douglas C. Hixson, Prin. Invest.; N.L. Thompson, Co-investigator, 30-40% effort, "Molecular Determinants of Multicellular Organization", 4/1/89-5/31/98, direct costs 1993: \$97,523.
6. American Cancer Society, #CN-20A, N. L. Thompson, Prin. Invest., "Cloning and Expression of a TuAg.1, A Novel Liver Membrane Oncofetal Antigen", 1/1/94 - 12/31/96, 40% effort, total funds: \$223,000; direct costs for first year: \$80,259.
7. Pfizer Central Research Division, Groton, CT. - Brown University Master's Degree Program. \$6,000 in research support for teaching Cancer Biology course at Pfizer, Semester I (Fall), 1995.
8. Division of Orthopaedic Research, Dept. Orthopaedics, Brown Univ., \$5,000 for expendables and 20% Research Assistant (S. Karr) salary support for collaborative studies with N. Thompson: "TGF- β expression during ischemia-reperfusion injury", 1996-97.
9. George Oncology Funds - Interim salary and laboratory support 1997-1998 while NIH grants were pending. Dr. Thompson became ineligible for continued American Cancer Society funding when ASC funding for rank of Assoc. Prof. and above was discontinued.

10. National Institutes of Health, RO1 NS-27601-06, "Choroid Plexus - CSF, Growth Factors, Age & Injury", Conrad Johanson, Ph.D., Dept. Neurosurgery, RIH, Prin. Invest.; 08/01/95-07/31/98; N.L. Thompson, Investigator, 5% effort - 5% salary support, total funds: \$603,000, direct costs first year: \$142,258.
11. National Institutes of Health, RO1 CA42714, "Molecular Determinants of Multicellular Organization", Douglas C. Hixson, Dept. Med. Oncol., RIH, Prin. Invest.; N.L. Thompson, Co-investigator, 25% effort - 25% salary support 12/98 - 11/00,; total funds \$624,508; direct costs first year approx. \$137,420.
12. U.S. Dept. Education P200A000117, GAANN Training Grant, "Ph.D. Training in Pathobiology of Infectious Disease and Host Response," N.L. Thompson, PI, 8/15/2000 - 8/14/03, 20% effort through 2003, direct costs \$153,000/yr; no cost extension to 8/04.
13. American Institute for Cancer Research, 02A127, "Amino Acid Regulated Gene Expression in Tumorigenesis" N.L. Thompson, PI, 7/31/02 - 6/30/05, 15% effort, \$134,758 total costs.
14. National Institutes of Health, 1RO1 CA73611, "Expression and Role of TA1 Oncofetal Gene in Liver Cancer", N.L. Thompson, P.I. 40% effort - 40% salary support; 04/01/99-01/31/05, first year direct costs \$170,929; no cost extension to 9/30/05; (no renewal appl.).
15. American Cancer Society CRTG CEE-103542 "Interaction of MUC1 Protein with E-cadherin and β -catenin in Breast Cancer." (M. Chung, PI), N. L. Thompson, Basic Science Mentor, 7/01/02 - 7/01/05, 5% effort.
16. National Institutes of Health, T32 ES007272, "Training in Environmental Pathology", 7/1/03 - 6/30/07, (A. Kane, PI), N.L. Thompson, Faculty Trainer and Steering Committee, 0% effort; (NT withdrew as faculty trainer 2004).
17. National Institutes of Health, 2 R01 HD035831, "Nutritional Regulation of Fetal Liver Development", 12/1/03 - 11/30/08, (P. Gruppuso, PI) N.L. Thompson, co-investigator, 5% effort, withdrew 1/06.
18. NIH 1 F30 ES013639-01, "Microarray Discovery of Hepatic Biomarkers" (NRSA Fellowship), Current year \$46,018, 9/01/04 - 8/31/09. (PI. B. Lau), N. Thompson, initial faculty sponsor. (NT helped this MD/PhD student transfer to another lab/sponsor for PhD work).
19. U.S. Dept. Education P200A030100, GAANN Training Grant, "Ph.D. Training in Pathobiology of Infectious Disease and Host Response," N.L. Thompson, PI, 8/15/03 - 8/14/06; year 1 direct costs \$207,555.
21. Serotec. Inc., Antibody Licensing Agreement, 2002- 2006.
22. NIH 1R25 CA87972, "Transdisciplinary Training in Cancer Research", (W. Rakowski, PI), N. Thompson, Senior Mentor, 0% effort.
23. Council of Graduate Schools, Research Ethics Education Grant. S. Bonde (PI), N.L. Thompson, Co-Investigator, 10/1/2006-9/30/2007.

24. NIH National Center for Research Resources 1 P20 RR17695-01 (P.I. Hixson) N. Thompson 5% effort as Chair, Mentoring Committee "Center for Cancer Research Development" 9/30/02-8/31/07, Yr. 1 Direct Costs \$1,554,248. In no-cost extension 2008.
25. National Postdoctoral Association, Seed grant for postdoctoral Responsible Conduct in Research Training. N.L. Thompson, PI, \$1,000. 8/1/07- 7/31/08.
26. NIH National Institute of General Medical Sciences MORE Division, 1 R25 GM083270-01, Initiative to Maximize Student Diversity, "Advancing the Culture of Learning and Scholarship in Doctoral Program in Biology and Public Health", N.L. Thompson, Co-Principle Investigator with A.G. Campbell, Year 1 Direct Costs, \$395,067, 4/1/08 – 3/31/11. (*resigned as co-PI prior to 2012 end of active grant*)

BROWN UNIVERSITY TEACHING ROLES

<u>Director, Graduate Program in Pathobiology</u>	July, 1999-June, '03
<u>Co-Director, Graduate Program in Pathobiology</u>	1994-95
<u>Steering Committee Member</u>	1999-2005

As Director and Steering Committee member: Major responsibility for planning and directing an interdisciplinary graduate program focusing on disease mechanisms consisting of over 40 faculty members (both campus and hospital-based), 47 graduate students and several postdoctoral fellows. This is the second largest Brown Biomedical graduate program.

Courses

Course Leader:

BioMed 129 (Cancer Biology)	1991-1997
BioMed 129A (Cancer Biology, offered at Pfizer, Inc., Groton, CT)	Fall, 1995

Dr. Thompson was responsible for design and execution of Cancer Biology, a cutting-edge lecture and discussion format covering selected areas of intensive research focus in the field and participating faculty labs. Open to advanced undergraduates and graduate students.

BioMed 284, (Topics in Pathobiology, Cell Adhesion and Disease)	Spring, 2003
Co-Course leader of graduate seminar course with 10 students.	

Introduction to Responsible Conduct in Research for Trainees in Biology and Medicine

Professionalism for Biomedical Trainees (non-credit) 2008-2010 2006- 2010

Course Lecturer:

BioMed 283 (Molecular Basis of Disease)	1992, 1994
BioMed 284 (Experimental Carcinogenesis)	1993
BioMed 285 (Intro. to Pathobiology Program Faculty Research)	1992-present
Brown Summer Studies Course in DNA	1993
BioMed 227 (Protein Trafficking and Processing)	1996
Methods of Clinical Investigation (for Pulmonary Residents)	1999
BioMed 129A (Cancer Biology, offered at Pfizer, Inc., Groton, CT)	2002
BioMed 129 (Cancer Biology, Brown campus section)	1988-2004
Brown Summer Studies "So you want to be a Doctor?" (cancer)	July 7, 2005

RESEARCH TRAINEES

POSTDOCTORAL FELLOWS

Sri Diah, (Ph.D. from Wake Forest University 2000)	Oct., 1999 - 2001
Bill T. Storey (Ph.D. from East Carolina School of Medicine)	Sept. 2002 – July, 2005
Asok Karuri (Ph.D. from India, previous postdoc at U. Mass.)	Dec. 2002 – 2003

THESIS DIRECTOR,

PREDOCTORAL STUDENTS, PATHOBIOLOGY GRADUATE PROGRAM

Junsheng Sang	Ph.D.	1994
Valerie Shultz	Ph.D.	1998
William Campbell	Ph.D.	2001
Geoffrey Cooper	M.S.	2002

OTHER GRADUATE STUDENT THESIS COMMITTEES, BROWN UNIV.

Matt Olnes, Pathobiology, Ph.D., 1996
 Jake Kurtis, M.D.-Ph.D., defended Ph.D. thesis Oct., 1994
 Wendy Sears, M.D.-Ph.D. Program, Ph.D., 1998
 Lisa Stevenson, Pathobiology, Ph.D., 1998

Meghan Comegys, Pathobiology, Ph.D., 1998
Eric Wagner, Pathobiology, Ph.D., 2000
Lizeth Fowler, Molecular, Cell and Biochemistry Program, M.S., 1996
Lori Chapman, M.D.-Ph.D. Program, Ph.D., 2001
Michael Awad, M.D.-Ph.D. Program, defended Ph.D. thesis, Nov., 1999
Stephanie Leuenroth, Pathobiology, defended Ph.D., 2000
David Mills, Pathobiology, defended Ph.D. thesis, May, 2001
Dorkina Myrick, M.D.-Ph.D. Program, Ph.D. 2002
Brooke Pearson, Pathobiology, Ph.D., 2003
Nikia Laurie, Pathobiology, Ph.D., 2004
Rhonda Simper Ronan, Pathobiology, defended Ph.D. thesis, 2007
Jennifer Sanders, Molecular, Cell and Biochemistry Program, defended Ph.D. thesis, 2005
Anand Padmanabhan, Molecular, Cell and Biochemistry, defended Ph.D. thesis, 2005
Briana Erickson, Molecular, Cell and Biochemistry Program, defended Ph.D. thesis, 2007
Madgalena Kuzniar (Chrostowski), Pathobiology, Ph.D., 2009
Amy Schecter, Master Medical Sciences, May, 2005
Jade Carter, Pathobiology, defended Ph.D. thesis, 2008

SUMMER COLLEGE TRAINEES, BROWN UNIVERSITY

Gretchen Hull, B.S. '93, UTRA Fellowship, Summer 1991
Diane Silva, B.S. '93, Hughes Fellowship, Summer 1992
Gina DiVenuti, B.S. '93, M.D. Class '97, PLME Fellowship, Summer 1993
Rose Kim, Class '95, PLME Fellowship, Summer 1994
Patricia Dierisseau, Class '97, Hughes Scholar, Summer 1994
I-Min Mau, Class '95, PLME Fellowship, Summer 1995
David Adelberg, Class '96, Hughes Fellow, Summer 1995
Roni Lee, Class '97, Summer 1996
Deborah Sah, Class '99, Summer 1998
Jennifer Wo, Class '01, Summer 2000
Jung-Sun (Sunny) Yoo, Class '02, Summer 2001
Andy Y. Su, Class '03, Summer 2002
Hwei Xian Leong, Class '05, Summer 2004
Alissa Rothchild, Class '05, Summer 2004

MEDICAL STUDENT SUMMER RESEARCH, BROWN UNIVERSITY

Barbara Burke, M.D. class '95, Environmental Pathology Training Grant, Summer 1992
Wendy Chen, M.D.-Ph.D incoming student rotation, Summer 1999
Bonnie Lau, M.D.-Ph.D. incoming student rotation, Summer 2003

UNDERGRADUATE STUDENTS, BROWN U. (INDEPENDENT STUDY)

Gretchen Hull, '93, (1 semester)
Diane Silva, '93, (2 semesters Honors project)
Judith Lin, '93, (reader for Honors project)
Andy Shen, '95, (2 semesters)
Kane Chang, '95, (2 semesters)
Macaya Douoguih, '94, (2 summer semesters)
Galen Federoff, '94 1/2, (2 semesters)
Rebecca Zacks, '94, (reader for Honors project)
Kyeen Mesesen, '95, (2 semesters Honors project)
David Adelberg, '96 (2 semester Honors project)
Stephanie Ho, '96 (reader for Honors project)
Shaneli Fernando, '96 (reader for Honors project)
Patricia Dierriseau, '97 (2 semesters)
Roni Lee, '97 (2 semesters)
Shannon Jefferson, '98 (2 semesters)
Deborah Sah, '99 (2 semesters)
David Schaner, '99 (2 semesters)
Julian Wong, '99 (reader for Honors project)
Shirley Fang, '00 (2 semesters)
Anjali Sivan, '00 (2 semesters)
Jennifer Wo, '01 (2 semester Honors project)
Sunny Yoo, '02 (2 semester Honors project)
Andy Su, '03 (2 semester Honors project)
Hwei Xian Leong, Class '05, (2 semester Honors project)
Alissa Rothchild, Class '05, (2 semester Honors project)

FOREIGN EXCHANGE TRAINEES

Ravi Rajakariar (England), Medical student rotation in Cancer research, (Summer 1994)
Laura Gramantieri, MD, Brown University - Bologna, Italy Exchange Program, (2000)

STUDENT RESEARCH ROTATIONS

Jordan Orange, MD/PhD program, (Summer 1991)
Lori Chapman, MD/PhD program, (Summer 1993)
Tarek Wehbe, MD, Hem. Onc. fellow; Pathobiology Graduate Program, (Fall, 1995)
Michael Primiano, Pathobiology Graduate Program, (Spring, 1996)

William Campbell, Pathobiology Graduate Program, (Summer, 1996)

Nikia Laurie, Pathobiology Graduate Program, (Spring, 1998)

Rhonda Simper, Pathobiology Graduate Program, (Summer, 1999)

Scott Robbins, Pathobiology Graduate Program, (Summer, 2000)

Geoffrey Cooper, Pathobiology Graduate Program, (Spring, 2001)

Sylvia Dimitrova, Pathobiology Graduate Program, (Summer, 2001)

Magdalena Kuzniar, Pathobiology Graduate Program, (Fall, 2001)

UNDERGRADUATE EXCHANGE STUDENTS

Adanna Davis, Delaware State '97, Leadership Alliance Program, (Summer, 1996)

Timothy Powell, California Polytechnic State Univ. '99, Leadership Alliance Program (Summer, 1998)

PATHOLOGY RESIDENT RESEARCH ROTATIONS

Halit Pinar, MD (Women & Infants Hospital), 1991

Dwayne Wolf, MD/PhD, Dec. 1994

Robert Cirillo, MD, Mar.-Apr., 1995

Nader Bassily, MD/PhD, Apr.- June, 1995

JUNIOR FACULTY – FORMAL MENTORING ROLES WITH GRANT AWARDS

Jean M. Daly, MD, Asst. Prof., Dept. Surgery, NIH Re-entry supplemental grant award, 2002

Maureen Chung, MD/PhD, Asst. Prof., Dept. Surgery, American Cancer Soc. Award, 2002