

CURRICULUM VITAE

Marilyn E. Thompson, Ph.D.
Associate Professor
Department of Pharmaceutical Sciences
Belmont University School of Pharmacy

PERSONAL HISTORY

Full name: Marilyn Eileen Thompson Odom

Professional name: Marilyn E. Thompson

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EDUCATION

B.S. degree
(magna cum laude) Respiratory Therapy, June, 1986
University of South Alabama
Mobile, Alabama

Ph.D. degree Basic Medical Sciences, June, 1994
Specialty in Pharmacology
University of South Alabama
Mobile, Alabama

OTHER ACADEMIC TRAINING

1994-1999 Postdoctoral training
Mentor, Jeffrey T. Holt, M.D.
Vanderbilt University School of Medicine
Department of Cell Biology
Nashville, Tennessee

POSITIONS AND EMPLOYMENT

1984-1986 Student respiratory therapist
University of South Alabama Medical Center
Mobile, Alabama

1986-1987	Respiratory therapist Mobile Infirmary Medical Center Mobile, Alabama
1999-2007	Assistant Professor Department of Biochemistry (Cancer Biology) Meharry Medical College Nashville, Tennessee
2000-2008	Associate Member Vanderbilt-Ingram Cancer Center Nashville, Tennessee
2007-2008	Associate Professor Department of Cancer Biology Meharry Medical College Nashville, Tennessee
2007-2008	Director of Graduate Studies Cancer Biology Graduate Program Meharry Medical College Nashville, Tennessee
2009-present	Associate Professor Department of Pharmaceutical Sciences Belmont University School of Pharmacy Nashville, TN 37212

PROFESSIONAL CREDENTIALS

RRT, Registered Respiratory Therapist

PROFESSIONAL MEMBERSHIPS

1994-2007	Sigma Xi
1999-present	American Association for the Advancement of Science
2001-present	American Association for Cancer Research (AACR)
2005-2007	American Society of Biochemistry and Molecular Biology

PROFESSIONAL AND SERVICE ACTIVITIES

Institutional service

1999-2005	Biochemistry Teaching Committee
1999-2008	Biochemistry (Cancer Biology) Graduate Training Committee
1999-2008	Biochemistry (Cancer Biology) Appointments, Promotions, and Tenure Committee
2000-2005	Interviewer, Medical School Admissions
2001-2002	Diversity Subcommittee of the MMC/Vanderbilt Alliance

2001-2003 Departmental Representative, Admissions Committee of the
School of Graduate Studies and Research

2001 Task Force on Performance Based Incentive Program

2004-2008 Chair, Admissions Committee of the School of Graduate Studies
and Research

2006-2008 Member, MMC/VU U54 Cancer Training Program

2006-2008 Member, U54 Basic Science Faculty Search Committee

2006-2008 Member, RISE Internal Advisory Committee

2007-2008 Coordinator, Cancer Biology Journal Club

Belmont University

2009-present Member, Pharmaceutical Sciences Faculty Search Committee

2009-present Member, Admissions Committee, Belmont University School of
Pharmacy

Member, Speaker Series Task Force, Belmont University College
of Health Sciences

Graduate training activities

2007 Co-facilitator, Workshop on Preparing F31 Predoctoral Fellowship
Applications

2007-2008 Director of Graduate Studies, Cancer Biology Program

2007-2008 Chair, Curriculum Design Committee, School of Graduate Studies
and Research

2008 Course director, Biomedical Sciences II, School of Graduate
Studies and Research

2008 Course co-director, Cancer Biology 1, Cancer Biology Program

National service

2001-2004 AACR Minorities in Cancer Research Council

2001-2003 Chair, HBCU Faculty Scholar in Cancer Research Selection
Committee, AACR

2003-2004 Chair, Minority Scholar Awards in Cancer Research Selection
Committee, AACR

2004 External Chair, Dissertation Defense Committee for Nicole
Johnson, Department of Pathology, University of South Florida

2008 Judge, Student Oral Presentations, Student Research Day,
Tennessee State University

2009 Judge, Student Research Day Poster Presentations, Meharry
Medical College

2009 Judge, Student Poster Presentations, Research Symposium,
Tennessee State University

Journal review service

2002 Ad hoc reviewer, Molecular and Cellular Biology

2006 Ad hoc reviewer, Experimental Cell Research

2008 Ad hoc reviewer, Molecular Cancer Research, Cellular and

Molecular Biology Letters, Breast Cancer Research and Treatment, Cancer Research

Grant/Fellowship review panels

2003-2004	Reviewer, National Institutes of Health Study Section ZRG1 NBC-1-29L
2006-2008	Reviewer, National Institutes of Health Study Sections reviewing Diversity Predoctoral Fellowship applications
2007	Reviewer, California Breast Cancer Research Program
2008	Scientist Reviewer, Breast Cancer Research Program, CDMRP
2009	Scientist Reviewer, Breast Cancer Research Program, CDMRP
2009	Reviewer, National Institutes of Health Study Section ZDE1 RK28

HONORS AND AWARDS

1986	Magna cum laude-University of South Alabama
2005	Recognition of service to Children's Church Ministry-Greater Pleasant View Baptist Church
2006	Travel award to attend FASEB Grantsmanship Training Program
2007	Recipient, AACR Minority-Serving Institution Faculty Scholar in Cancer Research Award to attend AACR Conference on the Science of Health Disparities

PATENTS

U. S. Patent No. 5,891,857: Characterized BRCA1 and BRCA2 Proteins and screening and therapeutic methods based on characterized BRCA1 and BRCA2 proteins (JT Holt, DL Page, RA Jensen, ME Thompson, C Robinson-Benion, MC King, CI Szabo; co-inventors). U. S. Patent Issued April 6, 1999. Patent covers retroviral BRCA1 gene therapy of ovarian cancer.

U. S. Patent No. 6,149,903: Characterized BRCA1 and BRCA2 Proteins etc. (JT Holt, DL Page, RA Jensen, ME Thompson, C Robinson-Benion, MC King and CI Szabo; co-inventors). U.S. Patent Issued April 6, 1999. Patent covers adenoviral and DNA gene therapy of ovarian cancer.

TEACHING RESPONSIBILITIES

<u>Academic Year</u>	<u>Course and Lectures</u>	<u>Hours Lectured</u>
1999-2000	Medical Biochemistry Lectures: Antibiotic Inhibitors of Protein Synthesis Protein Trafficking Posttranslational Modifications of Protein	6
2000-2001	Medical Biochemistry Lectures: Antibiotic Inhibitors of Protein Synthesis Protein Trafficking Posttranslational Modifications of Protein	6
	Biomedical Science 1 Lecture: Carbohydrate Structure	2

	Topics in Cellular Metabolic Regulation	3
	Lecture: Protein Trafficking	
	Advanced Topics in Biochemistry	3
	Lecture: Fluorescence Microscopy	
2001-2002	Medical Biochemistry	6
	Lectures: Antibiotic Inhibitors of Protein Synthesis	
	Protein Trafficking	
	Posttranslational Modifications of Protein	
	Biomedical Sciences II	8
	Lecture: Cell Division Cycle	
	Apoptosis	
	Cancer	
2002-2003	Medical Biochemistry	6
	Lectures: Antibiotic Inhibitors of Protein Synthesis	
	Protein Trafficking	
	Posttranslational Modifications of Protein	
	Cell and Molecular Biology II	8
	Lecture: Cell Cycle	
	Advanced Topics in Biochemistry	3
	Lecture: Fluorescence Microscopy	
2003-2004	Medical Biochemistry	6
	Lectures: Antibiotic Inhibitors of Protein Synthesis	
	Protein Trafficking	
	Posttranslational Modifications of Protein	
2004-2005	Molecular Cell Biology and Genetics 1& 2	12
	Lectures: Antibiotic Inhibitors of Protein Synthesis	
	Protein Trafficking	
	Posttranslational Modifications of Protein	
	Cell Division Cycle	
	Advanced Topics in Biochemistry	3
	Lecture: Fluorescence Microscopy	
2005-2006	Biomedical Science II	2
	Lecture: Cell Cycle and Apoptosis	
2006-2007	Biomedical Science II	4
	Lecture: Cell Cycle and Apoptosis	
2007-2008	Advanced Topics in Biochemistry	3
	Lecture: siRNA Technology	

	Biomedical Science II Lecture: Cell Cycle and Apoptosis	4
2008	Cancer Biology 1 Lecture: Tumor Suppressors	2
<i>Belmont University</i>		
2009	Neuroscience: Assessing Human Performance Instructor for full course	2 credit hours

MENTORING ACTIVITIES

Committee of Instruction (past and current)

Past

Nalo Hamilton
 Qiana Matthews
 Jacqueline Akech
 Mohammed Arthur Naeem
 Madappa Kundranda
 Stephan Brown
 Shuntae Williams
 Cherise Guess
 Chantel Fuqua
 Ogbeyalu Onumah

Current

Jessica Gadsden
 Candice Shaifer
 Charvann Bailey
 VaNae Hamilton
 Ashley Huderson
 Gennifer Goode

Preceptor to the following students

Cimona Hinton, Ph.D., 2000-2005, Assistant Professor, Clark Atlanta University

Latricia Fitzgerald, Ph.D., 2000-2006, currently a postdoctoral fellow in the laboratory of Dr. Hsing-Jien Kung at the University of California-Davis Cancer Center

Katherine Glover-Collins, M.D., Ph.D., 2003-2008, currently a resident at University of Arkansas Medical Center

CONFERENCES AND FACULTY DEVELOPMENT ACTIVITIES

March 24-25, 2000	Quality Education for Minorities (QEM) Network Scholarly Productivity Workshop; held at Tennessee State University, Nashville, TN
September 22, 2000	Meharry Faculty Retreat; Meharry Medical College, Nashville, TN

March 24-28, 2001	92 nd Annual Meeting of the American Association for Cancer Research; New Orleans, LA
June 4-6, 2001	Professional Development and Peer Review Workshop; National Institutes of Health, Comprehensive Minority Biomedical Branch, Gaithersburg, MD
January 23, 2002	Faculty Development Workshop for Junior and Senior Faculty Members; Meharry Medical College, Nashville, TN
January 26-27, 2002	The First International Conference on Ubiquitin, Ubiquitin-Like Proteins, and Cancer; University of Texas M.D. Anderson Cancer Center, Houston, TX
April 6-10, 2002	93 rd Annual Meeting of the American Association for Cancer Research; San Francisco, CA
April 29-May1, 2002	Professional Development and Peer Review Workshop; National Institutes of Health, Comprehensive Minority Biomedical Branch, Gaithersburg, MD
March 27-31, 2004	95 th Annual Meeting of the American Association for Cancer Research; Orlando, FL
April 1-5, 2006	97 th Annual Meeting of the American Association for Cancer Research; Washington, D.C.
July 17-19, 2006	Cancer Health Disparities Summit 2006; National Institutes of Health; Bethesda, MD
August 28, 2006	Grantsmanship Training Seminar for Research Scientists; FASEB Career Resources/MARC Program, Bethesda, MD
November 27-30, 2007	The Science of Cancer Health Disparities Meeting; National Institutes of Health and American Association for Cancer Research; Atlanta, GA
May 19-21, 2008	NCRR Science Education Partnership Award 2008 Annual Conference; Washington, D.C.

RESEARCH GRANTS AND FELLOWSHIPS RECEIVED

1988-1991	National Science Foundation Graduate Minority Fellowship
1988	Ford Foundation Fellowship (declined)
1991-1993	Pharmaceutical Manufacturers' Association Fellowship
1991	Ford Foundation Dissertation Fellowship (declined)
1995-1997	National Science Foundation Postdoctoral Minority Fellowship
1999-2001	NIH/RCMI (laboratory start-up funds)
2000-2005	NIH/NCI Career Development Award
2003-2006	NIH/NCI U54 Cancer Research Partnership Pilot Project

INVITED SEMINARS

“Characterization of BRCA1 Nuclear Export”, Vanderbilt-Ingram Cancer Center Breast Cancer Research Program, June 11, 2002.

“Understanding the Nuclear-Cytoplasmic Shuttling of BRCA1” Meharry Medical College-Vanderbilt-Ingram Cancer Center Annual Retreat, November, 2002.

“The Ins and Outs of BRCA1” Department of Pathology, University of South Florida. July, 2004.

“Characterization of the Nuclear Import and Export of BRCA1” Ninth Research Centers in Minority Institutions (RCMI) International Symposium on Health Disparities: Frontiers in Biomedical Sciences: Current Innovations and Future Trends. December 8-11, 2004.

“The Response of BRCA1 to TRAIL Signaling” 2006 Spring Retreat of the Vanderbilt-Ingram Cancer Center. May 5, 2006.

“Regulation of BRCA1 by the PI-3K/Akt Pathway” 2007 Meharry Medical College-Vanderbilt Ingram Cancer Center Annual Retreat, November 2007.

PUBLICATIONS

Manuscripts

Lincoln, T.M., M.E. Thompson and T.L. Cornwell. Purification and characterization of two forms of cyclic GMP-dependent protein kinase from bovine aorta. *J. Biol. Chem.* 263:17632-17637, 1988.

Thompson, M.E., L.A. MacMillan, C.L. Bethea, L.E. Williams, C.R. Abee and J.G. Scammell. Determination of lactogenic activity in the serum of the squirrel monkey (*Saimiri boliviensis*) by the Nb2 lymphoma bioassay. *Am. J. Primatol.* 19:175-181, 1989.

Scammell, J.G., M.G. Scott, K.K. Outlaw, M.E. Thompson, S.J. O and R. B. Belen. Characterization of monoclonal antibodies against ovine prolactin: Suitability for use in immunocytochemical analysis of rat prolactin. *J. Histochem. Cytochem.* 38:117-122, 1990.

Scammell, J.G., R.von Haven, H.G. Friesen, L.B. Wear, M.E. Thompson, A.G. Brady, L.E. Williams and C.R. Abee. Characterization of prolactin and growth hormone immuno- and bioactivities in the pituitary gland and serum of the squirrel monkey (*Saimiri boliviensis boliviensis*). *Am. J. Primatol.* 26:35-46, 1992.

Thompson, M.E., W.E. Zimmer, L.B. Wear, L.A. MacMillan, W.J. Thompson, W.B. Huttner, H.H. Hidaka and J.G. Scammell. Differential regulation of chromogranin B/secretogranin I and secretogranin II by forskolin in PC12 cells. *Mol. Brain Res.* 12:195-202, 1992.

Thompson, M.E., W.E. Zimmer, A.L. Haynes, D.L. Valentine, S. Forss-Petter and J.G. Scammell. Prolactin granulogenesis is associated with increased secretogranin expression and aggregation in the Golgi apparatus of GH₄C₁ cells. *Endocrinology* 131:318-326, 1992.

Thompson, M.E., D.L. Valentine, S.J. Strada, J.A. Wagner and J.G. Scammell. Transcriptional regulation of secretogranin II and chromogranin B by cyclic AMP in a rat pheochromocytoma cell line. *Mol. Pharmacol.* 46:880-889, 1994.

Thompson, M.E., R.A. Jensen, P.S. Obermiller, D. L. Page and J.T. Holt. Decreased expression of BRCA1 accelerates growth and is often present during sporadic breast cancer progression. *Nature*

Genetics 9:444-450, 1995.

Holt, J.T., M.E. Thompson, C. Szabo, C. Robinson-Benion, C.L. Arteaga, M.-C. King and R. A. Jensen. Growth retardation and tumour inhibition by BRCA1. Nature Genetics 12:298-302, 1996.

Jensen, R.A., M.E. Thompson, T.L. Jetton, C.I. Szabo, R. van der Meer, B. Helou, S.R. Tronick, D.L. Page, M.-C. King and J.T. Holt. BRCA1 is secreted and exhibits properties of a granin. Nature Genetics 12:303-308, 1996.

Jensen, R.A., M.E. Thompson, T.L. Jetton, R. van der Meer, B. Helou, C.L. Arteaga, D. L. Page, J.T. Holt, S.R. Tronick, A.M. Gown, M. Skelly, B. Ostermeyer, D. Schieltz, C. I. Szabo and M.-C. King. BRCA1 protein products (in reply). Nature Genetics 13:269-272, 1996.

Holt, J.T., M.E. Thompson, C. Szabo, C. Robinson-Benion, C.L. Arteaga, M.-C. King and R.A. Jensen. Growth retardation and tumor inhibition by BRCA1. (Correction) Nature Genetics 19:102, 1998.

Abbott, D.E., M.E. Thompson, C. Robinson-Benion, G. Tomlinson, R.A. Jensen and J.T. Holt. BRCA1 expression restores radiation resistance in BRCA1-defective cancer cells through enhancement of transcription-coupled DNA repair. J. Biol. Chem. 274:18808-18812, 1999.

Thompson, M.E., C. Robinson-Benion, and J.T. Holt. An amino-terminal motif functions as a second nuclear export sequence in BRCA1. J. Biol. Chem. 280: 21854-21857, 2005.

Hinton, C.V., L.F. Fitzgerald, and M.E. Thompson. Phosphatidylinositol 3-kinase/Akt signaling enhances nuclear localization and transcriptional activity of BRCA1. Exp. Cell Res. 313: 1735-1744, 2007.

Fitzgerald, L.F., C.K. Bailey, S.J. Brandt, and M.E. Thompson. BRCA1 accumulates in the nucleus and enhances apoptosis in response to TRAIL. FEBS J. 274: 5137-5146, 2007.

Glover-Collins, K. and M.E. Thompson. Nuclear export of BRCA1 occurs during early S phase and is calcium-dependent. Cell. Signalling 20: 958-968, 2008.

Abstracts and Presentations

Thompson, M.E., L.A. Macmillan, L.E. Williams, C.R. Abee and J.G. Scammell. Regulation of serum prolactin levels in the unanesthetized squirrel monkey. Proceedings of the 11th Annual Meeting of the American Society of Primatologists, 1988.

Thompson, M.E., C.L. Bethea, K.K. Outlaw, C.R. Abee and J.G. Scammell. Physiological regulation of prolactin glycosylation in the rhesus monkey. American College of Clinical Pharmacology, 1988.

von Haven, R., M.E. Thompson, A.G. Brady, L.E. Williams, C.R. Abee and J.G. Scammell. Identification of multiple forms of prolactin and growth hormone in the squirrel monkey pituitary gland. Proceedings of the 12th Annual Meeting of the American Society of Primatologists, 1989.

Scammell, J.G., L.B. Wear and M.E. Thompson. Induction of chromogranin storage in PC12 cells by

glucocorticoids. 72nd Annual Meeting of the Endocrine Society, 1990.

Thompson, M.E., W.E. Zimmer, L.B. Wear, W.B. Huttner, W.J. Thompson and J.G. Scammell. Differential regulation of chromogranin B/secretogranin I and secretogranin II expression by forskolin in PC12 cells. 73rd Annual Meeting of the Endocrine Society, 1991.

Thompson, M.E. and J.G. Scammell. Prolactin granulogenesis in GH₄C₁ cells is associated with increased granin expression and aggregation with prolactin in the Golgi. 12th Annual Southeastern Pharmacology Society Meeting, 1991.

Thompson, M.E., W.E. Zimmer and J.G. Scammell. Prolactin granulogenesis in GH cells is associated with increased granin expression and aggregation. 74th Annual Meeting of the Endocrine Society, 1992.

Thompson, M.E. and J.G. Scammell. Superinduction of secretogranin II mRNA by cyclic AMP and cycloheximide in PC12 cells. 75th Annual Meeting of the Endocrine Society, 1993.

Thompson, M.E., C.L. Robinson-Benion, C.V. Hinton and J.T. Holt. A cancer associated mutation in a novel BRCA1 nuclear export signal. 93rd Annual Meeting of the American Association for Cancer Research. 2002.

Griffin, B.A., A.N. Perry and M.E. Thompson. Reduced expression of importin α in breast cancer cell lines hinders BRCA1 import. 93rd Annual Meeting of the American Association for Cancer Research. 2002.

Hinton, C.V. and M.E. Thompson. Overexpression of BRCA1 is associated with decreased MAP kinase activity in breast cancer cells. 93rd Annual Meeting of the American Association for Cancer Research. 2002.

Fitzgerald, L.D. and M.E. Thompson. The potential modification of BRCA1 by SUMO-1. 93rd Annual Meeting of the American Association for Cancer Research. 2002.

Hinton, C.V. and M.E. Thompson. Heregulin beta 1 regulates nuclear localization of BRCA1. 95th Annual Meeting of the American Association for Cancer Research. 2004.

Glover-Collins, K. and M.E. Thompson. Nuclear export of BRCA1 occurs during early S phase and is calcium-dependent. The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved, 2007.

Thompson, M.E. and L.D. Fitzgerald. Pathological Implications of BRCA1 O- β -glycosylation. Annual Meeting of the American Association of Colleges of Pharmacy, 2009.