

**CURRICULUM VITAE**

**Marilyn E. Thompson, Ph.D.  
Professor and Chair**

**Department of Pharmaceutical, Social, and Administrative Sciences  
Belmont University College of Pharmacy**

**FULL NAME:**

Marilyn Eileen Thompson Odom

**PROFESSIONAL NAME:**

Marilyn E. Thompson

**BUSINESS ADDRESS AND  
CONTACT INFORMATION:**

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Belmont University College of Pharmacy  
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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**

2016-present

Chair  
Department of Pharmaceutical, Social, and  
Administrative Sciences  
Belmont University College of Pharmacy  
Nashville, Tennessee

2016-present	Adjunct Professor School of Graduate Studies and Research Meharry Medical College Nashville, Tennessee
2014-present	Professor Department of Pharmaceutical, Social, and Administrative Sciences Belmont University College of Pharmacy Nashville, Tennessee
2010-present	Adjunct Associate Professor School of Graduate Studies and Research Meharry Medical College Nashville, Tennessee
2009-2014	Associate Professor Department of Pharmaceutical, Social, and Administrative Sciences Belmont University College of Pharmacy Nashville, Tennessee
2007-2008	Director of Graduate Studies Cancer Biology Graduate Program Meharry Medical College Nashville, Tennessee
2007-2008	Associate Professor Department of Cancer Biology Meharry Medical College Nashville, Tennessee
2000-2008	Associate Member Vanderbilt-Ingram Cancer Center Nashville, Tennessee
1999-2007	Assistant Professor Department of Biochemistry (Cancer Biology) Meharry Medical College Nashville, Tennessee
1986-1987	Respiratory therapist Mobile Infirmary Medical Center Mobile, Alabama

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

### **PROFESSIONAL MEMBERSHIPS**

2009-present American Association of Colleges of Pharmacy  
2005-2007 American Society of Biochemistry and Molecular  
Biology  
2001-2008 American Association for Cancer Research  
(AACR)  
1999-present American Association for the Advancement of  
Science  
1994-2007 Sigma Xi

### **PROFESSIONAL AND SERVICE ACTIVITIES**

#### Institutional service

#### *Belmont University*

2015-2016 Member, Tenure, Promotions, and Leave Committee,  
Belmont University  
2015-2016 Member, Tenure, Promotions, and Leave Committee,  
Belmont University College of Pharmacy  
2015-2018 Member, College Assessment Committee  
2013-2015 New Faculty Mentor  
2012-2015 Teaching Center Advisory Board  
2012-current Faculty Advisor, Minority Health Sciences Association  
2011-2015 Chair, Admissions Committee, Belmont University College  
of Pharmacy  
2011 Chair, Pharmaceutical Sciences Faculty Search Committee  
(two positions)  
2010 Chair, Social Sciences Faculty Search Committee for  
Department of Pharmaceutical Sciences  
2009-present Co-advisor, Christian Pharmacists Fellowship International  
2009-2011 Member, Admissions Committee, Belmont University  
School of Pharmacy  
Member, Speaker Series Task Force, Belmont University  
College of Health Sciences  
Member, Religion and Ethics Committee

#### *Meharry Medical College*

2007-2008 Coordinator, Cancer Biology Journal Club  
2006-2008 Member, RISE Internal Advisory Committee  
2006-2008 Member, U54 Basic Science Faculty Search Committee  
2006-2008 Member, MMC/VU U54 Cancer Training Program

2004-2008	Chair, Admissions Committee of the School of Graduate Studies and Research
2001	Task Force on Performance Based Incentive Program
2001-2003	Departmental Representative, Admissions Committee of the School of Graduate Studies and Research
2001-2002	Diversity Subcommittee of the MMC/Vanderbilt Alliance
2000-2005	Interviewer, Medical School Admissions
1999-2008	Biochemistry (Cancer Biology) Appointments, Promotions, and Tenure Committee
1999-2008	Biochemistry (Cancer Biology) Graduate Training Committee
1999-2008	Biochemistry Teaching Committee

Graduate training activities

*Meharry Medical College*

2008	Course co-director, Cancer Biology 1, Cancer Biology Program
2008	Course director, Biomedical Sciences II, School of Graduate Studies and Research
2007-2008	Chair, Curriculum Design Committee, School of Graduate Studies and Research
2007-2008	Director of Graduate Studies, Cancer Biology Program
2007	Co-facilitator, Workshop on Preparing F31 Predoctoral Fellowship Applications

National service

2017	Secretary, Biological Sciences Section, American Association of Colleges of Pharmacy (AACCP)
2013-2017	Reviewer, abstract for annual meeting of American Association of Colleges of Pharmacy (AACCP)
2004	External Chair, Dissertation Defense Committee for Nicole Johnson, Department of Pathology, University of South Florida
2003-2004	Chair, Minority Scholar Awards in Cancer Research Selection Committee, American Association of Cancer Research (AACR)
2001-2004	AACR Minorities in Cancer Research Council
2001-2003	Chair, HBCU Faculty Scholar in Cancer Research Selection Committee, AACR

Local service

2016-2017	Judge, Student Research Day Poster Presentations, Meharry Medical College
2009-2016	Judge, Student Presentations, Research Symposium, Tennessee State University

2009 Judge, Student Research Day Poster Presentations, Meharry  
Medical College  
2008 Judge, Student Oral Presentations, Student Research Day,  
Tennessee State University

Journal review service

2015 Ad hoc reviewer, *Medical Archives Research*  
2012, 2013 Ad hoc reviewer, *Journal of Cellular Biochemistry*  
2012 Ad hoc reviewer, *Patient Preference and Adherence*  
2008 Ad hoc reviewer, *Molecular Cancer Research, Cellular  
and Molecular Biology Letters, Breast Cancer  
Research and Treatment, Cancer Research*  
2006 Ad hoc reviewer, *Experimental Cell Research*  
2002 Ad hoc reviewer, *Molecular and Cellular Biology*

Text book review service

2014 Reviewer, Anatomy & Physiology for Health Professionals,  
2<sup>nd</sup> edition, Jones and Bartlett

Grant/Fellowship review panels

2011-2012, 2014-2015 Reviewer, AACP New Investigator Awards  
2011 Reviewer, AACP Student-Led Community Engagement  
Awards  
2009 Reviewer, National Institutes of Health Study Section  
ZDE1 RK28  
2008-2010 Scientist Reviewer, Breast Cancer Research Program,  
CDMRP  
2007 Reviewer, California Breast Cancer Research Program  
2007-2008 Reviewer, National Institutes of Health Study Sections  
reviewing Diversity Predoctoral Fellowship  
applications  
2003-2004 Reviewer, National Institutes of Health Study Section  
ZRG1 NBC-1-29L

**HONORS AND AWARDS**

2014 Most Influential Faculty Member, Belmont University  
College of Pharmacy  
2011, 2012 Teaching Center Travel Award, Belmont University  
2008 Distinguished Faculty in Research Training, School of  
Graduate Studies and Research, Meharry Medical College  
2008 Recipient, AACR Minority-Serving Institution Faculty  
Scholar in Cancer Research Award to attend AACR  
Conference on the Science of Health Disparities

2006	Travel award to attend FASEB Grantsmanship Training Program
2005	Recognition of service to Children's Church Ministry Greater Pleasant View Baptist Church
1986	Magna cum laude-University of South Alabama

### **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.

### **RESEARCH GRANTS AND FELLOWSHIPS RECEIVED**

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

### **INVITED PRESENTATIONS**

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

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

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

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

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

## EDUCATIONAL PRESENTATION

“Assessment of student learning and level of empathy through use of creative expression”  
Roundtable Session. AACP Annual Meeting, July 2013.

## PUBLICATIONS

### *Peer-reviewed Publication in Scholarship of Teaching and Learning*

Thompson, M.E., K. Reed, K. Shultes, and C. Ficzer. Student perceptions of a basic medical science-focused advanced pharmacy practice experience. *Medical Research Archives* 2:1-14, 2015.

Thompson, M.E., R. Ford, and A. Webster. Effectiveness of interactive, on-line games in learning neuroscience and student's perception of the games as learning tools: a pre-experimental study. *J. Allied Health* 40: 150-155, 2011.

### *Peer-reviewed Publications in Research*

Thompson, M.E. BRCA1 16 years later: nuclear import and export processes. *FEBS J.* 277: 3072-3078, 2010

Thompson, M.E. BRCA1 16 years later: an overview. *FEBS J.* 277: 3071, 2010

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.

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.

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.

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.

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.

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.

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.

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.

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

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.

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., 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 GH<sub>4</sub>C<sub>1</sub> cells. *Endocrinology* 131:318-326, 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.

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.

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.

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.

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.

#### *Abstracts and Presentations*

Thompson, M.E. and L.D. Fitzgerald. Pathological Implications of BRCA1 O- $\beta$ -glycosylation.



Annual Meeting of the American Association of Colleges of Pharmacy, 2009.

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.

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

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

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

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. 93<sup>rd</sup> Annual Meeting of the American Association for Cancer Research. 2002.

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

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

Thompson, M.E. and J.G. Scammell. Prolactin granulogenesis in GH<sub>4</sub>C<sub>1</sub> cells is associated with increased granin expression and aggregation with prolactin in the Golgi. 12<sup>th</sup> Annual Southeastern Pharmacology Society Meeting, 1991.

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. 73<sup>rd</sup> Annual Meeting of the Endocrine Society, 1991.

Scammell, J.G., L.B. Wear and M.E. Thompson. Induction of chromogranin storage in PC12 cells by glucocorticoids. 72<sup>nd</sup> Annual Meeting of the Endocrine Society, 1990.

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.

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.

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.