

CURRICULUM VITAE

Marilyn E. Thompson, Ph.D.

Professor

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

FULL NAME:

Marilyn Eileen Thompson Odom

BUSINESS ADDRESS AND CONTACT INFORMATION:

Department of Pharmaceutical, Social, and
Administrative Sciences
School of Pharmacy
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Nashville, Tennessee 37212
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EDUCATION

Ph.D.

Basic Medical Sciences, June, 1994
Specialty in Pharmacology
University of South Alabama
Mobile, Alabama

B.S.

(magna cum laude)

Respiratory Therapy, June, 1986
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

2023-present

Professor of Pharmacology
Department of Pharmaceutical, Social, and
Administrative Sciences
School of Pharmacy
College of Pharmacy and Health Sciences
Belmont University
Nashville, Tennessee

2016-present	Adjunct Professor School of Graduate Studies and Research Meharry Medical College Nashville, Tennessee
2021-2023	Chair Department of Integrated Medical Education Thomas F. Frist, Jr. College of Medicine Belmont University Nashville, Tennessee
2016-2021	Chair Department of Pharmaceutical, Social, and Administrative Sciences Belmont University College of Pharmacy Nashville, Tennessee
2014-2021	Professor Department of Pharmaceutical, Social, and Administrative Sciences Belmont University College of Pharmacy Nashville, Tennessee
2010-2014	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

2022-2024	International Association of Medical Science Educators (IAMSE)
2018-present	American Society for Pharmacology and Experimental Therapeutics (ASPET)
2009-present	American Association of Colleges of Pharmacy (AACP)
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 (AAAS)
1994-2007	Sigma Xi

PROFESSIONAL AND SERVICE ACTIVITIES

Institutional service

Belmont University

2023-current	Member, Assessment Committee, Pharmacy Program, College of Pharmacy and Health Sciences
2023-current	Co-chair, Promotion, Tenure, and Leave Committee, College of Pharmacy and Health Sciences
2023-2024	Member, Student Affairs Committee, Pharmacy Program, College of Pharmacy and Health Sciences
2019-2020	Member, Pharmacy Practice (Ambulatory Care) Faculty Search Committee, College of Pharmacy

2018-2019	Member, Pharmacy Practice (Ambulatory Care) Faculty Search Committee, College of Pharmacy
2016-present	Academic and Professional Standards Committee, College of Pharmacy
2015-2016	Member, Tenure, Promotions, and Leave Committee, College of Pharmacy
2015-2018	Member, Assessment Committee, College of Pharmacy
2013-2015	New Faculty Mentor, Teaching Center
2012-2015	Teaching Center Advisory Board
2012-present	Faculty Advisor, Minority Health Sciences Association
2011-2015	Chair, Admissions Committee, College of Pharmacy
2011	Chair, Pharmaceutical Sciences Faculty Search Committee (two positions)
2010	Chair, Social Sciences Faculty Search Committee for Department of Pharmaceutical Sciences
2009-2010	Co-advisor, Christian Pharmacists Fellowship International
2009-2011	Member, Admissions Committee, College of Pharmacy
	Member, Speaker Series Task Force, Belmont University College of Health Sciences
	Member, Religion and Ethics Committee, Belmont University

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 at 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
<u>National service</u>	
2024-2025	Member, American Association of Colleges of Pharmacy Biological Sciences Section Programming Committee
2024	External Reviewer, Promotion Portfolio, High Point University Fred Wilson School of Pharmacy
2024	Reviewer, abstracts for American Association of Pharmacology and Experimental Therapeutics 2024 annual meeting (second round abstracts)
2023, 2024	Reviewer, abstracts for American Association of Pharmacology and Experimental Therapeutics 2024 annual meeting (first round abstracts)
2022	Reviewer, abstracts for annual International Association of Medical Science Educators meeting
2017-2020	Chair, Research Committee, Biological Sciences Section, American Association of Colleges of Pharmacy (AACP)
2017-2019	Secretary, Biological Sciences Section, American Association of Colleges of Pharmacy (AACP)
2013-2019	Reviewer, abstract for annual meeting of American Association of Colleges of Pharmacy (AACP)
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
<u>Local service</u>	
2020	External Reviewer, Promotion Portfolio, Joe Deweese Ph.D. Lipscomb University College of Pharmacy
2016-2019	Judge, Student Research Day Poster Presentations, Meharry Medical College
2009-2019	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

2023-2024	Ad hoc reviewer, <i>Medical Science Educator</i>
2021	Ad hoc reviewer, <i>Journal of Medical Education and Curricular Development</i>
2018, 2019	Ad hoc reviewer, <i>Journal of Cellular Biochemistry</i>
2015	Ad hoc reviewer, <i>Medical Archives Research</i>
2012, 2013	Ad hoc reviewer, <i>Journal of Cellular Biochemistry</i>
2012	Ad hoc reviewer, <i>Patient Preference and Adherence</i>
2008	Ad hoc reviewer, <i>Molecular Cancer Research, Cellular and Molecular Biology Letters, Breast Cancer Research and Treatment, Cancer Research</i>
2006	Ad hoc reviewer, <i>Experimental Cell Research</i>
2002	Ad hoc reviewer, <i>Molecular and Cellular Biology</i>

Textbook review service

2014	Reviewer, <u>Anatomy & Physiology for Health Professionals</u> , 2 nd edition, Jones and Bartlett
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Grant/Fellowship review panels

2011-2012, 2014-2020	Reviewer, AACCP New Investigator Awards
2011	Reviewer, AACCP 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 Diversity Predoctoral Fellowship applications
2003-2004	Reviewer, National Institutes of Health Study Section ZRG1 NBC-1-29L

HONORS AND AWARDS

2021	Teaching Center Travel Award, Belmont University
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
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

GRADUATE STUDENT DISSERTATIONS

Glover-Collins, KL. Nuclear Export of BRCA1 Occurs During Early S Phase and is Calcium Dependent. Meharry Medical College, January, 2008.

Fitzgerald, LD. Regulation of BRCA1 Localization by Hypoxic Stress and Tumor Necrosis Related Apoptosis Inducing Ligand in Mammary Epithelial Cells. Meharry Medical College, April, 2006.

Hinton, CV. Signaling Through the Phosphatidylinositol 3-Kinase/Akt Pathway Regulates the Nuclear Localization of BRCA1. Meharry Medical College, March 2005.

UNDERGRADUATE STUDENT THESIS

Indukuri, H. Investigating the Efficacy of Tazemetostat for in vitro Treatment of Human Triple Negative Breast Cancer Cells. Belmont University, April, 2022. Advisor: Marilyn Odom (Thompson)

Lawrence, E. Selinexor Hyperactivates Akt and Induces Its Nuclear Accumulation. Honors Thesis in fulfillment of requirements for graduation. Belmont University, April, 2020. Advisor: Marilyn Odom (Thompson)

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

Clauson A., L. Hahn, T. Frame, A. Hagan, L.A. Bynum, M.E. Thompson, K. Kinningham. An innovative escape room activity to assess student readiness for advanced pharmacy practice experiences (APPEs). *Currents in Pharmacy Teaching and Learning* 11 (7): 723-728, 2019.

Thompson, M.E., K. Reed, K. Shultes, and C. Ficzero. 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. Signaling* 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. Arteaga, 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 GH₄C₁ 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 in Scholarship of Teaching and Learning

Thompson, ME and K.Wahaib. Utilizing Case-Based Learning to Connect Science and Practice. Annual Meeting of the American Association of Colleges of Pharmacy, 2018.

Abstracts and Presentations in Research

Dotolo, N., T. Chen, E.D. Bradley, and M.E. Thompson. Selinexor induces apoptosis in triple-negative breast cancer: an *in vitro* study. American Society of Health-System Pharmacy (ASHP) Midyear Meeting, December, 2020.

Linden, L., A. Peterson, and M.E. Thompson. *In vitro* cytotoxic activity of *Salvia officinalis* (sage) on triple negative breast cancer. American Society of Health-System Pharmacy (ASHP) Midyear Meeting, December, 2019.

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.

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. 95th 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. 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.

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.

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.

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., 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. 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, 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.

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.

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.

Non-peer reviewed publications

Thorsen, C.A., M.E. Thompson, and M.B. Zimmer. The teaching chair: maintaining excellence in teaching. The Department Chair 34:13-14, 2023.