**CURRICULUM VITAE**

**Marilyn E. Thompson, Ph.D.**

**Professor**

**Department of Pharmaceutical, Social, and Administrative Sciences**

**Belmont University College of Pharmacy and Health Sciences**

# FULL NAME: Marilyn Eileen Thompson Odom

**BUSINESS ADDRESS AND**

**CONTACT INFORMATION:** Department of Pharmaceutical, Social, and

Administrative Sciences

College of Pharmacy and Health Sciences

1900 Belmont Blvd.

Nashville, Tennessee 37212

Telephone (615) 460-8121

E-mail: [marilyn.odom@belmont.edu](mailto:marilyn.odom@belmont.edu)

**EDUCATION**

Ph.D. Basic Medical Sciences, June, 1994

Specialty in Pharmacology

University of South Alabama

Mobile, Alabama

B.S. Respiratory Therapy, June, 1986

(magna cum laude) 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

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

* 1. 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

* 1. 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

National service

2024 Reviewer, abstracts for American Association of Pharmacology and Experimental Therapeutics 2024 annual meeting (second round abstracts)

2023 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)

* 1. AACR Minorities in Cancer Research Council

2001-2003 Chair, HBCU Faculty Scholar in Cancer Research

Selection Committee, AACR

Local service

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 Ad hoc reviewer, *Medical Science Educator*

2021 Ad hoc reviewer, *Journal of Medical Education and Curricular Development*

2018, 2019 Ad hoc reviewer, *Journal of Cellular Biochemistry*

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*

Textbook review service

2014 Reviewer, Anatomy & Physiology for Health Professionals, 2nd edition, Jones and Bartlett

Grant/Fellowship review panels

2011-2012, 2014-2020 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

1. Reviewer, California Breast Cancer Research Program
   1. 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

1. 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 Sress 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. Kiningham. 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. Ficzere. 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 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 a 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 asssociated 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.