

**Deanne C. Tibbitts, Ph.D.**  
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## CURRENT APPOINTMENTS

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Research Investigator  
Helfgott Research Institute  
National University of National Medicine, Portland, OR

Assistant Professor  
School of Graduate Studies  
National University of National Medicine, Portland, OR

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## EDUCATION AND PROFESSIONAL DEVELOPMENT

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- In progress      CLINICAL RESEARCH TRAINING PROGRAM IN COMPLEMENTARY AND INTEGRATIVE HEALTH  
Helfgott Research Institute, National University of National Medicine, Portland, OR
- In progress      MASTER OF SCIENCE IN CLINICAL RESEARCH  
Oregon Health and Science University, Portland, OR
- 2011              DOCTOR OF PHILOSOPHY  
Oregon Health and Science University, Portland, OR  
Molecular and Medical Genetics  
*Advisor: Rosalie Sears, Ph.D.*  
*Dissertation title: Characterization of aberrant c-Myc phosphorylation and stability in acute myeloid and lymphoblastic leukemia*
- 2001              BACHELOR OF SCIENCE  
University of Georgia, Athens, GA  
Genetics and Cellular Biology, *magna cum laude*  
*Advisor: Andrew Paterson, Ph.D.*  
*Thesis title: The Meiotic Chromosomes of Sorghum bicolor*

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## HONORS AND AWARDS

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- 2015              Travel award, Faculty Development Committee, NUNM
- 2009 and 2007    Tartar Trust Research Fellowship
- 2008              Best Presentation, Cancer Research section, OHSU Student Research Forum
- 2007              Best Student Poster, Program in Molecular and Cellular Biosciences Fall Retreat, OHSU
- 2007 – 2009      Molecular Hematology training grant appointee, OHSU
- 2004              Edward Herbert Award, OHSU

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## RESEARCH INTERESTS

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Psychosocial oncology, quality of life in survivorship, symptom management, mind-body medicine, psychoneuroimmunology, early childhood adversity, post-traumatic stress disorder

## RESEARCH AND TEACHING POSITIONS

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- 2017 – present NATIONAL UNIVERSITY OF NATURAL MEDICINE, Portland, OR  
Research Investigator, Helfgott Research Institute
- 2014 – present NATIONAL UNIVERSITY OF NATURAL MEDICINE, Portland, OR  
*formerly National College of Natural Medicine*  
Assistant Professor, School of Graduate Studies
- 2013 – 2014 NATIONAL COLLEGE OF NATURAL MEDICINE, Portland, OR  
Adjunct Faculty, School of Research and Graduate Studies
- 2011 – 2012 OREGON HEALTH AND SCIENCE UNIVERSITY, Portland, OR  
Postdoctoral fellow, Department of Molecular and Medical Genetics. *Advisor:* Rosalie Sears, Ph.D. *Topic:* Investigated the role of FLT3-ITD on aberrant c-Myc phosphorylation and stability in acute myeloid leukemia
- 2004 – 2011 OREGON HEALTH AND SCIENCE UNIVERSITY, Portland, OR  
Graduate Research Assistant, Department of Molecular and Medical Genetics. *Advisor:* Rosalie Sears, Ph.D. *Topic:* Investigated signal transduction mechanisms of aberrant c-Myc phosphorylation and stability in acute myeloid and lymphoblastic leukemia
- 2003 – 2004 UNIVERSITY OF GEORGIA, Athens, GA  
Laboratory Technician III, Department of Animal and Dairy Science. *PI:* Steve Stice, Ph.D. *Focus:* Characterized early differentiation events of primate embryonic stem cells during differentiation to neural lineages
- 2001 – 2003 BRESAGEN, INC., Athens, GA  
Research Assistant and Lab Manager. *Focus:* Characterized culture conditions and neural differentiation conditions for human embryonic stem cells
- 1999 – 2001 UNIVERSITY OF GEORGIA, Athens, GA  
Undergraduate Research Assistant, Department of Genetics. *Advisor:* Andrew Paterson, Ph.D. *Topic:* Characterized meiotic chromosomes from *Sorghum bicolor*

## PUBLICATIONS & PRESENTATIONS

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### PEER-REVIEWED ARTICLES

- Withee ED, Tippens KM, Dehen R, **Tibbitts D**, Hanes D, Zwickey H. Effects of Methylsulfonylmethane (MSM) on Exercise-Induced Oxidative Stress, Muscle Damage, and Pain Following a Half-Marathon: a Double-Blind, Randomized, Placebo-Controlled Trial. *Journal of the International Society of Sports Nutrition* 14:24.
- Richard NP, Pippa R, Cleary MM, Puri A, **Tibbitts D**, Mahmood S, Christensen DJ, Jeng S, McWeeney S, Look AT, Chang BH, Tyner JW, Vitek MP, Odero MD, Sears R, Agarwal A. 2016. Combined targeting of SET and tyrosine kinases provides an effective therapeutic approach in human T-cell acute lymphoblastic leukemia. *Oncotarget* 7(51):84214-84227.
- Vasilevsky N, Schafer M, **Tibbitts D**, Wright K, Zwickey H. 2015. Curriculum Development of a Research Laboratory Methodology Course for Complementary and Integrative Medicine Students. *Medical Science Educator* 25(2):171-5.
- Tibbitts DC**, Escamilla-Powers JR, Zhang X, Sears RC. 2012. Studying c-Myc serine 62 phosphorylation in leukemia cells: concern over antibody cross-reactivity. *Blood* 119(22):5334-5.

Arnold HK, Zhang X, Daniel CJ, **Tibbitts D**, Escamilla-Powers J, Farrell A, Tokarz S, Morgan C, Sears RC. 2009. The Axin1 scaffold protein promotes formation of a degradation complex for c-Myc. *EMBO Journal* 28(5):500-12.

O'neil J, Grim J, Strack P, Rao S, **Tibbitts D**, Winter C, Hardwick J, Welcker M, Meijerink JP, Pieters R, Draetta G, Sears R, Clurman BE, Look AT. 2007. FBW7 mutations in leukemic cells mediate NOTCH pathway activation and resistance to {gamma}-secretase inhibitors. *Journal of Experimental Medicine* 204(8):1813-24.

Malempati S, **Tibbitts D**, Cunningham M, Akkari Y, Olson S, Fan G, Sears RC. 2006. Aberrant stabilization of c-Myc protein in some lymphoblastic leukemias. *Leukemia* 20(9):1572-81.

**Tibbitts D**, Rao RR, Shin S, West FD, Stice SL. 2006. Uniform adherent neural progenitor populations from rhesus embryonic stem cells. *Stem Cells and Development* 15(2):200-8.

Shin S, Mitalipova M, Noggle S, **Tibbitts D**, Venable A, Rao R, Stice SL. 2006. Long-term proliferation of human embryonic stem cell-derived neuroepithelial cells using defined adherent culture conditions. *Stem Cells* 24 (1):125-38.

Peterson DG, Schulze SR, Sciara EB, Lee SA, Nagel A, Jiang N, **Tibbitts DC**, Wessler SR, Paterson AH. 2002. Integration of Cot analysis, DNA cloning, and high-throughput sequencing facilitates genome characterization and gene discovery. *Genome Research* 12(5):795-807.

#### **ORAL PRESENTATIONS**

**Deanne Tibbitts**, Guang Fan, and Rosalie Sears. Alterations in c-Myc stability and phosphorylation in acute lymphoblastic leukemia. The 26<sup>th</sup> Annual OHSU Student Research Forum, May 14 – 15, 2009.

**Deanne Tibbitts** and Rosalie Sears. A role for the Axin scaffolding protein in regulating c-Myc protein stability and oncogenic potential. The 25<sup>th</sup> Annual OHSU Student Research Forum, May 8 – 9, 2008.

#### **POSTER PRESENTATIONS**

**Deanne Tibbitts**, Arun Kumar Krishnamoorthy, William Fleming, Guang Fan, and Rosalie Sears. Aberrant c-Myc phosphorylation and deregulated Axin1 expression in acute leukemias. AACR International Conference on Frontiers in Basic Cancer Research, Oct 8 – 11, 2009, Boston, MA.

**Deanne C. Tibbitts**, Sarah A. Byers, Hugh K. Arnold, Guang Fan, and Rosalie C. Sears. The role of altered c-Myc phosphorylation and stability and the Axin1 scaffold protein in hematopoietic cancers. Gordon Research Conference: Cancer Models & Mechanisms, July 27 – Aug 1, 2008, Bryant University, Smithfield, RI.

**Deanne C. Tibbitts**, Sarah Byers, Hugh Arnold, Suman Malempati, and Rosalie Sears. Regulated phosphorylation controls c-Myc stability and oncogenic potential. OHSU Program in Molecular and Cellular Biosciences Fall Retreat, Sept 17, 2007, Portland, OR.

#### **TEACHING**

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2014 – present NATIONAL UNIVERSITY OF NATURAL MEDICINE, Portland, OR  
School of Graduate Studies

Assistant professor. Curriculum developed and courses taught include: Nutritional Genetics, Introduction to Laboratory Methods, Nutrition in the News, Genetics Journal Club, Pharmacogenomics Journal Club; invited guest lectures in: Advanced Nutritional Biochemistry, Pathophysiology, Introduction to Therapeutic Modalities I, Research Methodology, Introduction to Laboratory Methods, Anatomy and Physiology

- 2014 – 2017 NATIONAL UNIVERSITY OF NATURAL MEDICINE, Portland, OR  
 Helfgott Research Institute  
 Undergraduate Research Internship Program Coordinator. Developed and co-taught an 8-week intensive program for undergraduate students on how to conduct research on topics in integrative medicine.
- 2013 – 2017 NATIONAL UNIVERSITY OF NATURAL MEDICINE, Portland, OR  
 Helfgott Research Institute  
 Helfgott Laboratory Instructor. Individually trained graduate students in cell culture, ELISA, microbiology, flow cytometry, and experimental design.
- 2006 – 2010 OREGON HEALTH AND SCIENCE UNIVERSITY, Portland, OR  
 Department of Molecular and Medical Genetics  
 Student instructor. Course: Essentials of Molecular and Medical Genetics
- June 20 - 25, 2004 & UNIVERSITY OF GEORGIA, Athens, GA  
 November 2 - 6, 2003 Instructor. Human Embryonic Stem Cell Toolbox Workshop, a 1-week workshop on culturing and analyzing human embryonic stem cells

## MENTORING

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Thesis advisor, Master of Science in Integrative Medicine Research program, NUNM

In progress Brice Thompson

2017 Jennifer Gill *Thesis title: The effects of Ganoderma lucidum on breast cancer immunosuppression in vitro*

2017 Alex Speers *Thesis title: Secular trends in health-related quality of life among older women with breast cancer, 1998-2011*

2015 Nini Callan *Thesis title: The in vitro effects of modified citrus pectin on invasive ductal carcinoma*

2015 Erin Thorne *Thesis title: From bench to bedside: Naturopathic oncology in the lab and in the clinic*

Thesis committee member, Master of Science in Integrative Medicine Research program, NUNM

2017 Ingrid Chandranata *Thesis title: Antimicrobial properties of Curcuma xanthorrhiza and Curcuma longa on Escherichia coli and Staphylococcus saprophyticus to treat urinary tract infections*

2016 Katherine Hampilos *Thesis title: Effect of green tea vaginal suppositories on mild cervical dysplasia in women with persistent human papillomavirus infection: a case series.*

2015 Stacie Wolfe *Thesis title: In vitro testing of a natural spermicidal agent*

2015 Carina Parikh *Thesis title: Treatment of inflammatory bowel disease through a dietary intervention: A case series*

2014 – 2017 NUNM Undergraduate Research Internship Program  
*Mentored a total of 22 students in developing, writing, conducting, and presenting original research*

## UNIVERSITY SERVICE

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- 2017 – 2018 Faculty Senate Chair, NUNM
- 2016 Hiring committee for NUNM Dean of Undergraduate Studies  
*Faculty Senate representative*
- 2015 – present Faculty Development Committee, NUNM  
*Evaluate applications for conference travel awards, sabbaticals, and promotions*
- 2015 – present Honor Council, NUNM  
*Provide recommendations for addressing student Code of Conduct cases*
- 2014 – present Helfgott Research Institute Scientific Review Committee  
*Review internal research proposals for scientific merit and feasibility*