

CURRICULUM VITA

MELISSA A. TROESTER, PhD, MPH

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EDUCATION

2006	MPH	University of North Carolina at Chapel Hill Department of Epidemiology, School of Public Health
2001	PhD	University of North Carolina at Chapel Hill Department of Environmental Science and Engineering Major: Environmental Health Sciences
1995	MS	University of Chicago Department of Chemistry
1994	BA	Macalester College, St. Paul, MN Major: Chemistry with honors, Minor: Philosophy

ACADEMIC POSITIONS

2017 – present	Professor of Epidemiology
2012 – 2017	Associate Professor of Epidemiology
2008 – 2012	Assistant Professor of Epidemiology Department of Epidemiology, jointly appointed in Pathology & Lab Medicine University of North Carolina at Chapel Hill
2017 – present	Director
2014 – 2017	Deputy Director
2012 – 2014	Director of Integrative Health Sciences Facility Core
2008 – 2012	Co-Director of Integrative Health Sciences Facility Core Center for Environmental Health and Susceptibility (CEHS) University of North Carolina at Chapel Hill
2014 – present	Co-leader, Program in Cancer Epidemiology
2008 – present	Member Lineberger Comprehensive Cancer Center University of North Carolina at Chapel Hill
2006 – 2008	Assistant Professor of Epidemiology Division of Biostatistics and Epidemiology, Department of Public Health University of Massachusetts Amherst
2001 – 2006	Postdoctoral Fellow Lineberger Comprehensive Cancer Center Department of Pathology and Laboratory Medicine University of North Carolina at Chapel Hill

1997 – 2001

Exposure Assessment and Environmental Epidemiology Trainee
Department of Environmental Science and Engineering,
University of North Carolina at Chapel Hill

HONORS AND AWARDS

- 2008-2010 Career Development Award, Specialized Program of Research Excellence in Breast Cancer
- 2007-2012 NIH Clinical Research Extramural Loan Repayment Program Awardee
- 2002-2004 Ruth Kirschstein Individual National Research Service Award Fellowship
- 2001 Delta Omega Honor Society in Public Health
- 1995 Physical Sciences Division Teaching Prize, University of Chicago
- 1994 Iota Sigma Pi National Honor Society of Women in Chemistry
- 1994 Chemistry Dept Award for Experimental Excellence, Macalester College
- 1994 Violet Beltmann Award for Excellence in Chemistry, Macalester College

BOOK CHAPTERS

1. Sherman ME, **Troester MA**, Anderson WF. (In Press) Cancer Classification. In: Cancer Epidemiology and Prevention. 4th Edition. Eds. J Cerhan. Oxford.
2. **Troester MA**, Herschkowitz JI, and Hoadley KA. (2009) Molecular Signatures of Drug Resistance. In: Drug Resistance in Cancer. Eds. K Mehta and ZH Siddik. Springer.
3. **Troester MA**, and Perou CM. (2005) Functional Genomics for the Identification of Surrogate Endpoint Biomarkers in Breast Cancer Chemoprevention. In: Cancer Chemoprevention Volume 2: Strategies for Cancer Chemoprevention. Ed. G.J. Kelloff. Humana Press.

PEER-REVIEWED PUBLICATIONS (>6000 ISI citations, h-index = 30) [‡]First author is a student or fellow.

1. **Troester MA**, Sun X, Allott EH, Geradts J, Cohen SM, Tse C-K, Kirk EL, Thorne LB, Mathews M, Li Y, Hu Z, Robinson WR, Hoadley KA, Olopade OI, Reeder-Hayes KE, Earp HS, Olshan AF, Carey LA, Perou CM (2017) Racial differences in PAM50 subtypes in the Carolina Breast Cancer Study. *J Natl Cancer Inst* 110:2: djx135. [Epub ahead of print]
2. Huo D, Hu H, Rhie SK, Gamazon ER, Cherniack AD, Liu J, Yoshimatsu TF, Pitt JJ, Hoadley KA, **Troester MA**, Ru Y, Lichtenberg T, Sturtz LA, Shelley CS, Benz CC, Mills GB, Laird PW, Shriver CD, Perou CM, Olopade OI. (2017) Comparison of breast cancer molecular features and survival by African American and European Ancestry in The Cancer Genome Atlas. *JAMA Oncol* [Epub ahead of print]
3. Williams[‡] LA, Olshan AF, Hong CC, Bandera EV, Rosenberg L, Cheng TD, Lunetta KL, McCann SE, Poole C, Kolonel LN, Palmer JR, Ambrosone CB, **Troester MA**. (2017) Alcohol intake and breast cancer risk in the African American Women from the AMBER Consortium. *Cancer Epidemiol Biomarkers Prevent* [Epub ahead of print].
4. Yao S, Hong CC, Bandera EV, Zhu Q, Liu S, Cheng TD, Zirpoli G, Haddad SA, Lunetta KL, RuizNarvaez EA, McCann SE, **Troester MA**, Rosenberg L, Palmer JR, Olshan AF, Ambrosone CB. (2017) Demographic, lifestyle, and genetic determinants of circulating concentrations of 25hydroxyvitamin D and vitamin D binding protein in African American and European American women. *Am J Clin Nutr* [Epub ahead of print]

5. Sun X, Hoadley KA, Kim WY, Furberg H, Olshan AF, **Troester MA**. (2017) Age at diagnosis, obesity, smoking, and molecular subtypes in muscle-invasive bladder cancer. *Cancer Causes Control* [Epub ahead of print]
6. Khan S, Cai J, Nielsen ME, **Troester MA**, Mohler JL, Fontham ET, Hendrix LH, Farnan L, Olshan AF, Bensen JT. (2017) The association of diabetes and obesity with prostate cancer progression: HCaP-NC. Prostate [Epub ahead of print]
7. Taylor KW[‡], Baird DD, Herring AH, Engel LS, Nichols HB, Sandler DP, **Troester MA**. (2017) Associations among personal care product use patterns and exogenous hormone use in the NIEHS Sister Study. *J Expo Sci Environ Epidemiol* [Epub ahead of print]
8. Mullooly M, Yang HP, Falk RT, Nyante SJ, Cora R, Pfeiffer RM, Radisky DC, Visscher DW, Hartmann LC, Carter JM, Degnim AC, Stanczyk FZ, Figueroa JD, Garcia-Closas M, Lissowska J, **Troester MA**, Hewitt SM, Brinton LA, Sherman ME, Gierach GL. (2017) Relationship between crown-like structures and sex-steroid hormones in breast adipose tissue and serum among postmenopausal breast cancer patients. *Breast Cancer Res* 19(1):8.
9. Ruiz-Narvaez EA, Lunetta KL, Hong CC, Haddad S, Yao S, Cheng TD, Bensen JT, Bandera EV, Haiman CA, **Troester MA**, Ambrosone CB, Rosenberg L, Palmer JR. (2016) Genetic variation in the insulin, insulin-like growth factor, growth hormone, and leptin pathways in relation to breast cancer in African-American women: the AMBER consortium. *NPJ Breast Cancer* [Epub ahead of print]
10. Reaves DK, Hoadley KA, Fagan-Solis KD, Jima DD, Bereman M, Thorpe L, Hicks J, McDonald D, **Troester MA**, Perou CM, Fleming JM. (2017) Nuclear Localized LSR: A Novel Regulator of Breast Cancer Behavior and Tumorigenesis. *Mol Cancer Res* 15(2):165-178.
11. Taslim C, Weng DY, Brasky TM, Dumitrescu RG, Huang K, Kallakury BV, Krishnan S, Llanos AA, Marian C, McElroy J, Schneider SS, Spear SL, **Troester MA**, Freudenheim JL, Geyer S, Shields PG. (2016) Discovery and replication of microRNAs for breast cancer risk using genome-wide profiling. *Oncotarget* 7(52):86457-86468.
12. Khan S, Cai J, Nielsen ME, **Troester MA**, Mohler JL, Fontham ET, Hendrix LH, Farnan L, Olshan AF, Bensen JT. (2016) The association of diabetes and obesity with prostate cancer aggressiveness among Black Americans and White Americans in a population-based study. *Cancer Causes Control* 27(12):1475-1485.
13. Zhu Y, Aupperlee MD, Zhao Y, Tan YS, Kirk EL, Sun X, **Troester MA**, Schwartz RC, Haslam SZ. (2016) Pubertal and adult windows of susceptibility to a high animal fat diet in Trp53-null mammary tumorigenesis. *Oncotarget* 7(50):83409-83423.
14. Filgo AJ, Foley JF, Puvanesarajah S, Borde AR, Midkiff BR, Reed CE, Chappell VA, Alexander LB, Borde PR, **Troester MA**, Hayes Bouknight SA, Fenton SE. (2016) Mammary gland evaluation in juvenile toxicity studies: Temporal developmental patterns in the male and female sprague-dawley rat. *Toxicol Pathol* 44(7): 1034-58.
15. Robinson WR, Nichols HB, Tse CK, Olshan AF, **Troester MA**. (2016) Associations of premenopausal hysterectomy and oophorectomy with breast cancer among black and white women: The Carolina Breast Cancer Study, 1993-2001. *Am J Epidemiol*, 184(5):388-99.

16. Gong Z, Hong CC, Bandera EV, Adams-Campbell LL, **Troester MA**, Park SY, McInerney KA, Zirpoli G, Olshan AF, Palmer JR, Ambrosone CB, Rosenberg L. (2016) Vigorous physical activity and risk of breast cancer in the African American breast cancer epidemiology and risk consortium. *Breast Cancer Res Treat*, 159(2):347-56.
17. Allott EH[‡], Geradts J, Sun X, Cohen SM[<], Zirpoli GR, Khoury T, Bshara W, Chen M, Sherman ME, Palmer JR, Ambrosone CB, Olshan AF, **Troester MA**. (2016) Intratumoral heterogeneity as a source of discordance in breast cancer biomarker classification. *Breast Cancer Res*, 18(1):68.
18. Chollet-Hinton L[‡], Anders CK, Tse CK, Bell MB, Yang YC, Carey LA, Olshan AF, **Troester MA**. (2016) Breast cancer biologic and etiologic heterogeneity by young age and menopausal status in the Carolina Breast Cancer Study: a case-control study. *Breast Cancer Res*, 18(1):79.
19. Zhang J, Yao S, Hu Q, Zhu Q, Liu S, Lunetta KL, Haddad SA, Yang N, Shen H, Hong CC, Sucheston-Campbell L, Ruiz-Narvaez EA, Bensen JT, **Troester MA**, Bandera EV, Rosenberg L, Haiman CA, Olshan AF, Palmer JR, Ambrosone CB. (2016) Genetic variations in the Hippo signaling pathway and breast cancer risk in African American women in the AMBER Consortium. *Carcinogenesis*, 37(10):951-6.
20. Park SY, Palmer JR, Rosenberg L, Haiman CA, Bandera EV, Bethea TN, **Troester MA**, Viscidi E, Kolonel LN, Olshan AF, Ambrosone CB. (2016) A case-control analysis of smoking and breast cancer in African American women: findings from the AMBER Consortium. *Carcinogenesis*, 37(6):607-15.
21. **Troester MA**, Hoadley KA, D'Arcy M, Cherniack AD, Stewart C, Koboldt DC, Robertson AG, Mahurkar S, Shen H, Wilkerson MD, Sandhu R, Johnson NB, Allison K, Beck AH, Yau C, Bowen J, Sheth M, Hwang ES, Perou CM, Laird PW, Ding L, Benz CC. (2016) Expression subtypes in cancer-adjacent breast predict survival in estrogen receptor positive breast cancers. *NPJ Breast Cancer*, Epub ahead of print.
22. Butler EN[‡], Tse C-K, Bell ME, Conway K, Olshan AF, **Troester MA**. (2016) Active smoking and risk of Luminal and Basal-like breast cancer subtypes in the Carolina Breast Cancer Study. *Cancer Causes Control*, 27(6):775-86.
23. Blackmon RL, Sandhu R, Chapman BS, Casbas-Hernandez P, Tracy JB, **Troester MA**, Oldenburg AL. (2016) Imaging extracellular matrix remodeling in vitro by diffusion-sensitive optical coherence tomography. *Biophys J*, 110: 1858-1868.
24. Cozzo AJ, Sundaram S, Zattra O, Qin Y, Freemerman AJ, Essaid L, Darr DB, Montgomery SA, McNaughton KK, Ezzell JA, Galanko JA, **Troester MA**, Makowski L. (2016) cMET inhibitor crizotinib impairs angiogenesis and reduces tumor burden in the C3(1)Tag model of basal-like breast cancer. *Springerplus*, 5:348.
25. Johnson AR, Wilkerson MD, Sampey BP, **Troester MA**, Hayes DN, Makowski L. (2016) Cafeteria diet-induced obesity causes oxidative damage in white adipose. *Biochem Biophys Res Commun*, 473(2):545-50.
26. Cheng TY, Ambrosone CB, Hong CC, Lunetta KL, Liu S, Hu Q, Yao S, Sucheston-Campbell L, Bandera EV, Ruiz-Narvaez EA, Haddad S, **Troester MA**, Haiman CA, Bensen JT, Olshan AF, Palmer JR, Rosenberg L. (2016) Genetic variants in the mTOR pathway and breast cancer risk in African American Women. *Carcinogenesis*, 37(1):49-55.

27. Qin Y, Sundaram S, Essaid L, Chen X, Miller SM, Yan F, Darr DB, Galanko JA, Mongtomery SA, Major MB, Johnson GL, **Troester MA**, Makowski L. (2016) weight loss reduces basal-like breast cancer through kinome reprogramming. *Cancer Cell Int*, 16:26.
28. Rossi EL, de Angel RE, Bowers LW, Khatib SA, Smith LA, Van Buren E, Bhardwaj P, Giri D, Estecio MR, **Troester MA**, Hair BY, Kirk EL, Gong T, Shen J, Dannenberg AJ, Hursting SD. (2016) Obesity-associated alterations in inflammation, epigenetics, and mammary tumor growth persist in formerly obese mice. *Cancer Prev Res*, 9(5):339-48.
29. Sun X[‡], Nichols HB, Robsinson W, Sherman ME, Olshan AF, **Troester MA**. (2016) Association of parity and time since last birth with breast cancer prognosis by intrinsic subtype. *Cancer Epidemiol Biomarkers Prev*, 25(1):60-7.
30. Sandhu R[‡], Chollet-Hinton L, Kirk EL, Midkiff B, **Troester MA**. (2016) Digital histologic analysis reveals morphometric patterns of age-related involution in breast epithelium and stroma. *Hum Pathology*, 48:60-8.
31. Allott EH[‡], Cohen SM, Geradts J, Sun X, Khoury T, Bshara W, Zirpoli G, Miller RC, Hwang H, Thorne L, O'Connor S, Tse C-K, Bell ME, Hu Z, Li Y, Kirk EL, Bethea T, Perou CM, Palmer JR, Ambrosone CB, Olshan AO, **Troester MA**. (2016) Performance of three biomarker immunohistochemistry for intrinsic breast cancer subtyping in the AMBER consortium. *Cancer Epidemiol Biomarkers Prev*, 25(3):470-8.
32. Bethea TN, Rosenberg L, Castro-Webb N, Lunetta KL, Sucheston-Campbell LE, Ruiz-Narvaez EA, Charlot M, Park SY, Bandera EV, **Troester MA**, Ambrosone CB, Palmer JR. (2016) Family history of cancer in relation to breast cancer subtypes in African American women. *Cancer Epidemiol Biomarkers Prev*, 25(2):366-73.
33. Williams LA[‡], Olshan AF, Tse CK, Bell ME, **Troester MA**. (2015) Alcohol intake and invasive breast cancer risk by molecular subtype and race in the Carolina Breast Cancer Study. *Cancer Causes Control*, 27(2):259-269.
34. Roberts MC, Weinberger M, Dusetzina SB, Dinan MA, Reeder-Hayes KE, Carey LA, **Troester MA**, Wheeler SB. (2015) Racial variation in the uptake of onco-type DX testing for early-stage breast cancer. *J Clin Oncol*, 34(2):130-8.
35. Oldenburg AI, Yu X, Gilliss T, Alabi O, Taylor RM, **Troester MA**. (2015) Inverse-power-law behavior of cellular motility reveals stromal-epithelial interactions in 3D co-culture by OCT fluctuation spectroscopy. *Optica*, 2(10), 877-885.
36. Haddad SA, Lunetta KL, Ruiz-Navarez EA, Bensen JT, Hong C-C, Sucheston-Campbell LE, Yao S, Bandera EV, Rosenberg L, Haiman CA, **Troester MA**, Ambrosone CB, Palmer JR. (2015) Hormone-related pathways and risk of breast cancer subtypes in African American women. *Breast Cancer Res Treat*, 154(1):145-54.
37. Rosenberg L, Bethea TN, Viscidi E, Hong CC, **Troester MA**, Bandera EV, Haiman CA, Kolonel MD, Olshan AF, Ambrosone CB, Palmer JR. (2015) Postmenopausal female hormone use and risk of estrogen receptor positive and negative breast cancer in African American women. *J Natl Cancer Inst*, 108(4):1-8.

38. Aupperlee MD, Zhao Y, Tan YS, Zhu Y, Langohr IM, Kirk EL, Pirone JR, **Troester MA**, Schwartz RC, Haslam SZ. (2015) Puberty-specific promotion of mammary tumorigenesis by a high animal fat diet. *Breast Cancer Res*, 17(1):138.
39. Sun X*, Nichols HB, Robinson W, Sherman ME, **Troester MA**. (2015) Post-diagnosis adiposity and survival among breast cancer patients: influence of breast cancer subtype. *Cancer Causes Control*, 26(12):1803-11.
40. Elsarraj HS, Hong Y, Valdez KE, Michaels W, Hook M, Smith WP, Chien J, Herschkowitz JI, **Troester MA**, Beck M, Inciardi M, Gatewood J, May L, Cusick T, McGinness M, Ricci L, Fan F, Tawfik O, Marks JR, Knapp JR, Yeh HW, Thomas P, Carrasco DR, Fields TA, Godwin AK, Behbod F. (2015) Expression profiling of in vivo ductal carcinoma in situ progression models identified B cell lymphoma-9 as a molecular driver of breast cancer invasion. *Breast Cancer Res*, 17:128.
41. Roberts MC, Weinberger M, Dusetzina SB, Dinan MA, Reeder-Hayes KE, **Troester MA**, Carey LA, Wheeler SB. (2015) Racial variation in adjuvant chemotherapy initiation among breast cancer patients receiving oncoTYPE DX testing. *Breast Cancer Res Treat*, 153(1):191-200.
42. D'Arcy M*, Fleming J, Robinson WR, Kirk EL, Perou CM, **Troester MA**. (2015) Race-associated biological differences among Luminal A breast tumors. *Breast Cancer Res Treat*, 152(2):437-48.
43. Ambrosone CB, Zirpoli G, Hong CC, Yao S, **Troester MA**, Bandera EV, Schedin P, Bethea TN, Borges V, Park SY, Chandra D, Rosenberg L, Kolonel LN, Olshan AF, Palmer JR. (2015) Important role of menarche in development of estrogen receptor-negative breast cancer in African American women. *J Natl Cancer Inst*, 107(9): 1-7.
44. Nichols HB, Baird DD, Stanczyk FZ, Steiner AZ, **Troester MA**, Whitworth KW, Sandler DP. (2015) Anti-mullerian hormone concentrations in premenopausal women and breast cancer risk. *Cancer Prev Res*, 8(6):528-34.
45. Bethea TN, Rosenberg L, Hong CC, **Troester MA**, Lunetta KA, Bandera EV, Schedin P, Kolonel L, Olshan AF, Ambrosone CB, Palmer JR. (2015) A case-control analysis of oral contraceptive use and breast cancer subtypes in the African American Breast Cancer and Epidemiology and Risk Consortium. *Breast Cancer Res*, 17:22.
46. Keil AP, Richardson DB, **Troester MA**. (2015) Healthy worker survivor bias in the Colorado Plateau Uranium Miners Cohort. *Am J Epidemiol*, 181(10):762-770.
47. Hair BY*, **Troester MA**, Edmiston SN, Parrish EA, Robinson WR, Wu MC, Olshan AF, Swift-Scanlan T, and Conway K. (2015) Body mass index is associated with gene methylation in breast estrogen receptor-positive breast tumors. *Cancer Epidemiol Biomarkers Prev*, 24(3):580-6
48. Hair BY*, Xu Z, Kirk EL, Harlid S, Sandhu R, Robinson WR, Wu MC, Olshan AF, Conway K, Taylor JA, **Troester MA**. (2015) Body mass index associated with genome-wide methylation in breast tissue. *Breast Cancer Res Treat*, 151(2):453-63.
49. Casbas-Hernandez P*, Sun X, Roman-Perez E, D'Arcy M, Sandhu R, Hishida A, McNaughton K, Amos KD, Sherman ME, Figueroa J, **Troester MA**. (2015) Tumor intrinsic subtype is reflected in cancer-adjacent benign tissue. *Cancer Epidemiol Biomarkers Prev*, 24(2):406-14.

50. Family L, Bensen J, Wu M, **Troester MA**, Olshan AF. (2015) Single nucleotide polymorphisms in base excision repair pathway genes and association with breast cancer among African Americans and Whites. *Breast Cancer Res Treat*,149(1):181-90.
51. Bandera EV, Chandran U, Hong CC, **Troester MA**, Bethea TN, Adams-Campbell LL, Haiaman CA, Park SY, Olshan AF, Ambrosone CB, Palmer JR, Rosenberg L. (2015) *Breast Cancer Res Treat*, 150(3):655-66.
52. Taylor NJ, Bensen JT, Poole C, Olshan AF, **Troester MA**, Gammon MD, Luo J, Millikan RC. (2014) Genetic variation in cell cycle regulatory gene AURKA and association with intrinsic breast cancer subtype. *Mol Carcinog*, 54(12):1668-77.
53. Sundaram S, Le TL, Essaid L, Freemerman AJ, Huang MJ, Galank JA, McNaughton KK, Bendt KM, Darr DB, **Troester MA**, Makowski L. (2014) Weight loss reversed obesity-induced HGF/c-Met pathway and basal-like breast cancer progression. *Frontiers in Oncology* 4:175.
54. Allott EH[‡], Tse CK, Olshan AF, Carey LA, Moorman PG, **Troester MA**. (2014) Non-steroidal antiinflammatory drug use, hormone receptor status, and breast cancer-specific mortality in the Carolina Breast Cancer Study. *Breast Cancer Res Treat*, 147(2):415-21.
55. Ireno IC, Wiehe RS, Stahl AI, Hampp S, Aydin S, **Troester MA**, Prives C, Selivanova G, Wiesmuller L. (2014) Modulation of the poly(ADP-ribose)polymerase inhibitor response and DNA recombination in breast cancer cells by drugs affecting endogenous wild-type p53. *Carcinogenesis*, 35(10):227382.
56. Sandhu R[‡], Rein J, D'Arcy M, **Troester MA**. (2014) Basal-like breast cancers regulate apoptosis via p53-dependent changes in mir-146a/NFkB death receptor signaling. *Carcinogenesis*, 35(11):256775.
57. Chollet-Hinton L[‡], Stuebe AM, Casbas-Hernandez P, Chetwynd E, **Troester MA**. (2014) Temporal trends in the inflammatory cytokine profile of human breastmilk. *Breastfeeding Med*, 9(10):530-7.
58. Sun X[‡], Sandhu R, Figueroa JD, Gierach G, Sherman ME, **Troester MA**. (2014) Benign Breast Tissue Composition in Breast Cancer Patients: Association with Risk Factors, Clinical Variables, and Gene Expression. *Cancer Epidemiol Biomarkers Prev*, 23(12):2810-8.
59. Rotunno M, Sun X^{**}, Figueroa J, Sherman M, Garcia-Closas M, Meltzer P, Williams T, Smith Schneider S, Jerry DJ, Yang XR, **Troester MA**. (2014) Parity-related molecular signatures and breast cancer heterogeneity. *Breast Cancer Res*, 16(1):R74 *co-first author
60. Robinson WR, Tse CK, Olshan AO, **Troester MA**. (2014) Body size across the lifecourse and risk of premenopausal and postmenopausal breast cancer in Black women, the Carolina Breast Cancer Study. *Cancer Causes Control*, 25(9):1101-17.
61. Chhetri RK, Blackmon RL, Wu W-C, Hill DB, Button B, Casbas-Hernandez P, **Troester MA**, Tracy JB, Oldenburg AL. (2014) Probing biological nanotopology via diffusion of weakly-constrained plasmonic nanorods with optical coherence tomography. *Proc Natl Acad Sci*, 111(41):E4289-97.
62. Lowe JM, Menendez D, Bushel PR, Shatz M, Kirk EL, **Troester MA**, Garantziotis S, Fessler MB, Resnick MA. (2014) p53 and NF-KB co-regulate pro-inflammatory gene responses in human macrophages. *Cancer Res*, 74(7):2182-2192.

63. Wilkerson M, Cabanski C, Sun W, Hoadley KA, Walter V, Mose L, **Troester MA**, Hammerman P, Parker JS, Perou CM and Hayes DN. (2014) Sensitive mutation detection by combining DNA and RNA sequencing. *Nucleic Acids Res*, 42(13):e107.
64. Brauer HA[‡], D'Arcy M, Libby TE, Thompson HJ, Yasui YY, Hamajima N, Li CI, **Troester MA**, Lampe PD. (2014) Dermcidin expression is associated with disease progression and survival among breast cancer patients. *Breast Cancer Res Treat*, 144(2):299-306.
65. Freemerman AJ, Johnson AR, Sacks G, Milner JJ, Beck M, Kirk E, **Troester MA**, Rathmell J, Makowski L. (2014) Metabolic reprogramming of macrophages: glucose transporter 1 (GLUT1) mediated glucose metabolism drives an inflammatory phenotype. *J Biol Chem*, 289(11):7884-96.
66. Prat A, Karginova O, Parker JS, Fan C, He X, Bixby L, Harrell JC, Roman-Perez E, Adamo B, **Troester M**, and Perou CM. (2014) Characterization of cell lines derived from breast cancers and normal mammary tissues for the study of intrinsic molecular subtypes. *Breast Cancer Res Treat*, 142(20): 237-55.
67. Zhao Y, Tan YS, Aupperlee MD, Langohr IM, Kirk E, **Troester MA**, Schwartz RC, Haslam SZ. (2014) Pubertal high fat diet: effects on mammary cancer development. *Breast Cancer Res*, 15(5):R100.
68. Sundaram S, Freemerman A, Perou CM, **Troester MA**, Makowski L. (2014) Role of HGF in obesity-associated tumorigenesis: C3(1)-Tag mice as a model for human basal-like breast cancer. *Breast Cancer Res Treat*, 142(3): 489-503.
69. Zhou B, Damrauer JS, Hadzic T, Jeong Y, Clark K, Fan C, Murphy L, Lee CY, **Troester MA**, Miller CR, Jin J, Darr D, Perou CM, Levine R, Diehn M, and Kim WY. (2014) Erythropoietin promotes breast tumorigenesis through tumor initiating cell self-renewal. *J Clin Investigation*, 124(2):553-63.
70. Harrell JC, Pfefferle AD, Prat A, Fan C, Chao HH, Zalles N, Camp JT, Khramtsov A, Olopade OI, **Troester MA**, Dudley A, Perou CM. (2013) Endothelial-like properties of claudin-low breast cancer cells promote tumor vascular permeability and metastasis. *Clin Exp Metastasis*, 31(1):33-45.
71. Oldenberg AL, Chhetri RK, Cooper JM, Wu WC, **Troester MA**, Tracy JB. (2013) Motility-, autocorrelation-, and polarization-sensitive optical coherence tomography discriminates cells and gold nanorods within 3D tissue cultures. *Optics Letters*, 38(15):2923-2926.
72. Sun X[‡], Gierach GL, Sandhu R, Williams T, Midkiff BR, Lissowska J, Wesolowska, Boyd NF, Johnson NB, Figueroa JD, Sherman ME, **Troester MA**. (2013) Relationship of mammographic density and gene expression: Analysis of normal breast tissue surrounding breast cancer. *Clinical Cancer Res*, 19(18):4972-4982.
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74. Casbas-Hernandez P[‡], D'Arcy M, Roman Perez E, Brauer HA, Chhetri R, Oldenburg A, Amos KD, **Troester MA**. (2013) Role of HGF in epithelial-stromal cell interactions during progression from benign breast disease to ductal carcinoma in situ. *Breast Cancer Res*, 12;15(5):R82

75. Brauer HA[‡], Makowski L, Hoadley KA, Freemerman AJ, Perou CM, **Troester MA**. (2013) Metabolomic microenvironments of basal-like breast cancers are enriched for stroma-driven Warburg effect. *Clin Cancer Res*, 19(3):571-85.
76. Edwards J, Cole SR, **Troester MA**, Richards DB. (2013) Accounting for misclassified outcomes in binary regression models using multiple imputation with internal validation data. *Am J Epidemiol* 177(9): 904-912.
77. Allicock M, Graves N, Gray KM, Wilkes N, Makowski L, **Troester MA**. (2013) African American women's perspectives about basal-like breast cancer risk: implications for communicating risk to black women. *J Health Care for Poor and Underserved*, 24(2):753-767.
78. Pirone JR, D'arcy M[‡], Stewart DA, Jerry DJ, Yaswen P, Gould MN, Smith Schneider S, **Troester MA**. (2012) Genomic signature of aging in human breast tissue is associated with molecular subtype and prognosis. *Cancer Epidemiol Biomarkers Prev*, 21(10):1735-1744. [‡]Indicates graduate student is co-first author.
79. Razzaghi H[‡], **Troester MA**, Gierach GL, Olshan A, Yankaskas B, Millikan RC. (2012) Mammographic Density and Breast Cancer in White and African American Women. *Breast Cancer Res Treat*, 135(2):571-580.
80. Chhetri RK, Phillips ZF, **Troester MA**, Oldenburg AL. (2012) Longitudinal study of mammary epithelial and fibroblast co-cultures using optical coherence tomography reveals morphological signatures of premalignancy. *PLoS ONE*, 7 (11):e49148.
81. Fleming JM, Miller TC, Kidacki M, Ginsburg E, Stuelten CH, Stewart DA, **Troester MA**, Vonderhaar BK. (2012) Paracrine interactions between primary human macrophages and human fibroblasts enhance murine mammary gland humanization *in vivo*. *Breast Cancer Res* 25;14(3):R97.
82. Stewart DA[‡], Yang A, Makowski L, **Troester MA**. (2012) Basal-like breast cancer cells induce phenotypic and genomic changes in macrophages. *Mol Cancer Res*, 10(6):727-38.
83. Sampey BP, Freemerman AJ, Zhang J, Kuan PF, Glanko JA, O'Connell TM, Ilkayeva OR, Muehlbauer MJ, Stevens RD, Newagard CB, Brauer HA, **Troester MA**, Makowski L. (2012) Metabolomic Profiling Reveals Mitochondrial-Derived Lipid Biomarkers that Drive Obesity-Associated Inflammation. *PLoS ONE*, 7(6):e38812.
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95. **Troester MA**, Swift-Scanlan T. (2009) Challenges in studying the etiology of breast cancer subtypes. *Breast Cancer Res*, 11:104.
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102. Hu Z, **Troester M**, Perou CM. (2005) High reproducibility using sodium hydroxide stripped oligonucleotide microarrays. *Biotechniques*, **38**(1): 121-124.
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105. **Troester MA**, Hoadley KA, Parker JS, Perou CM. (2004) Prediction of toxicant-specific gene expression signatures after chemotherapeutic treatment of breast cell lines. *Environmental Health Perspectives*, **112**(16): 1607-13. [Featured article of the month]
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CONFERENCE PROCEEDINGS

1. Ogino S, Campbell PT, Nishihara R, Phipps AI, Beck AH, Sherman ME, Chan AT, Troester MA, Bass AJ, Fitzgerald KC, Irizarry RA, Kelsey KT, Nan H, Peters U, Poole EM, Qian ZR, Tamimi RM, Tchten Tchetgen EJ, Tworoger SS, Zhang X, Giovannucci EL, van den Brandt PA, Rosner BA,

Wang M, Chatterjee N, Begg CB. Proceedings of the second international molecular pathologic epidemiology (MPE) meeting. *Cancer Causes Control* (26(7):959-72.

INVITED PRESENTATIONS

- 2017 Digital histologic analysis and mammographic density: application in humans and model systems. Breast Cancer and the Environment Research Program Annual Symposium, Philadelphia PA, July 18, 2017
- TMIST and the Future of Screening. American College of Radiology Annual Meeting. Washington DC, May 22, 2017
- The Landscape of Normal Breast and Breast Cancer.* Obesity, Cancer and Metabolic Diseases Research Group Guest Lecturer. Memorial Sloan Kettering, New York City, March 13, 2017.
- The Landscape of Normal Breast and Breast Cancer.* Cancer Control Program Seminar, The Ohio State University, Columbus, OH, March 22, 2017.
- 2016 *Molecular Epidemiology of Breast Cancer Disparities in the United States.* Macalester College Distinguished Alumni Event, St. Paul, MN, October 7, 2016.
- The Landscape of Normal Breast and Breast Cancer.* Cancer Prevention Fellowship Program Cancer Prevention and Control Colloquia Series Seminar, National Cancer Institute, Rockville, MD. January 19, 2016.
- The Landscape of Normal Breast and Breast Cancer.* Mayo Clinic Cancer Center, Jacksonville FL, February 19, 2016.
- 2015 *The Landscape of Breast Tissue and Tumours.* The path to improve breast cancer prevention and prognostication: a kick-off symposium celebrating the start of two Horizon2020 grants: BRIDGES and B-CAST, Netherlands Cancer Institute, Antoni van Leeuwenhoek Hospital, Amsterdam, Netherlands, September 18, 2015.
- Molecular Epidemiology of Breast Cancer.* The Science of Breast Cancer Disparities: A Symposium in Honor of the Carolina Breast Cancer Study and Robert Millikan. University of North Carolina at Chapel Hill, March 20, 2015.
- Premenopausal Status and Breast Cancer: To Separate or Combine?* New Paradigm of Breast Cancer Causation and Prevention, Phase II Meeting, University of California, San Francisco, February 13, 2015.
- Molecular Epidemiology of Breast Cancer Disparities: Biology or access? Cluster Seminar Series, Chronic Disease Epidemiology, Columbia University, January 23, 2015
- 2014 *Molecular characteristics of cancer-adjacent normal: associations with tumor characteristics.* International Molecular Pathologic Epidemiology Annual Meeting, Boston, MA, December 5, 2014

Histologic and molecular response of normal breast tissue to environmental exposures. Breast Cancer and the Environment Research Program Annual Meeting: New Science, New Activism, New Opportunities. San Francisco, CA, November 21, 2014.

Gene expression and metabolic subtypes of breast cancer adjacent tissue. Tumor Microenvironment, Harvard University, Boston, MA, June 5, 2014.

Breast stroma in breast cancer risk and progression. John F. Sander and Nancy K. Dunkel Memorial Fund Lecture, Michigan State University, Department of Physiology, Lansing, MI, May 2, 2014.

Pathoepidemiology of Breast Cancer, Methods Workshop, 2014 Annual Meeting of the American Association for Cancer Research, San Diego, CA, April 5-9, 2014.

Tumor Subtyping in Epidemiologic Studies: Lessons from the AMBER Consortium, Meet-the-Expert Session, 2014 Annual Meeting of the American Association for Cancer Research, San Diego, CA, April 9, 2014.
Laboratory Considerations and Tissue Marker Assays, Educational Session, 2014 Annual Meeting of the American Association for Cancer Research, San Diego, CA, April 5, 2014.

Integrating Molecular Histology and Heterotypic Cultures to Study Breast Cancer Microenvironments, University of Louisville, Center for Genetics and Molecular Medicine, Louisville, Kentucky, January 10, 2014.

2013

Integrated assessment of tissue composition and gene expression: Effects of environmental exposure, Breast Cancer and the Environment Research Program Annual Integration Meeting, July 8, 2013.

Molecular markers in breast cancer epidemiology, Symposium on Molecular Epidemiology of Breast Cancer, Society of Epidemiologic Research, Boston, MA, June 19, 2013.

Microenvironments of mammographically dense breast tissue. Breast Densitometry and Breast Cancer Risk Assessment – International Workshop, San Francisco, CA, June 6, 2013.

Why studying normal breast tissue is important for breast cancer prevention, Lineberger Cancer Center Annual Scientific Retreat, Chapel Hill, NC, May 22, 2013.

Gene expression analysis of normal breast tissue, Duke Cancer Center, Cancer Prevention and Control R25 seminar series, May 2, 2013.

Host vs. tumor factors: subtype specific and mammographic density-associated gene expression in normal breast, Avon Foundation for Women, New York City, April 8-9, 2013.

2012

Genomic Characterization of Cancer-Adjacent Tissue: Evidence of Field Effects and Expression Subtypes, The Cancer Genome Atlas 2nd Annual Scientific Symposium, November 27-28 Crystal City, Virginia

Pregnancy, Obesity, and Basal-like Breast Cancer Microenvironment, Breast Cancer and the Environment Research Program, Extended Environmental Exposures Annual Meeting, November 13-16, 2012, San Francisco, CA

Insights on cancer risk from normal breast tissue gene expression, Eleventh Annual AACR Frontiers in Cancer Prevention International Conference, October 16-19, 2012, Anaheim, CA.

Keynote Presentation: Studies of Tissue Microenvironment in Breast Cancer Prevention and Control, Department of Pathology and Laboratory Medicine 2012 Annual Research Symposium, University of North Carolina at Chapel Hill, September 14, 2012.

Genomics of normal breast in breast cancer etiology and progression. Calle/Rodriguez Memorial Expert Roundtable: Integrating Pathologic Materials into Epidemiologic Studies, American Cancer Society, Atlanta, GA. February 29, 2012.

Gene expression in normal breast and breast microenvironment. National Institutes of Environmental Health Sciences, Laboratory of Molecular Carcinogenesis Seminar Series, Research Triangle Park, NC, February 9, 2012.

2011 *Genomics of Normal and Cancer-Adjacent Breast Tissue: Implications for Breast Cancer Etiology and Progression*, Department of Biology Seminar Series, North Carolina Central University, Durham, NC, October 19, 2011.

Windows of Susceptibility Conceptual Framework: The Role of Microenvironment, NIEHS Breast Cancer and the Environment Research Program Integration Meeting, Washington DC, July 13-14, 2011.

Characterizing Variation in Breast Cancer Microenvironment, Avon Forum, New York City, NY, February 1-2, 2011.

Panelist, *Crossing the Chasm from Mice to Women*, 7th International Symposium on the Intraductal Approach to Breast Cancer, "The Normal Human Breast: Building our Understanding from Mice to Women." Santa Monica, CA, February 23, 2011.

Epithelial-to-Mesenchymal Transition in Cancer-Adjacent Normal Breast Tissue. 7th International Symposium on the Intraductal Approach to Breast Cancer, "The Normal Human Breast: Building our Understanding from Mice to Women." Santa Monica, CA, February 24, 2011.

2010 *Pregnancy, Obesogenic Environments, and Basal-like Breast Cancer*. NIEHS Breast Cancer and Environment Research Program Annual Conference, New York City, November 15, 2010.

2009 *Population Variation in Parity-Associated Gene Expression*, 2009 Gordon Research Conference in Mammary Gland Biology, Newport, RI, June.

Genomics of Normal Breast: Implications for Etiology and Progression of Breast Cancer. Division of Cancer Epidemiology and Genetics, National Cancer Institute, Rockville, MD, May 21.

2008 *Gene Expression Profiles of Normal Breast Tissue Responding to Ionizing Radiation (Young Investigator Invited Presentation)*. Annual Environmental Health Sciences Core Centers Meeting and Symposium Philadelphia, PA October 20.

Gene Expression Microarrays for Studying the Natural History of Breast Cancer. Howard Hughes Medical Institute's Summer Teacher's Workshop, Biology in the Genomic Age, Amherst College, July 11.

A Molecular Signature of Parity Status in Humans: Analysis of Observational Microarray Data. NIEHS Comparative Genomics Grantee Meeting, Springfield, MA, August 11.

2006 *DNA microarray analysis in breast cancer chemoprevention*. Frontiers in Cancer Prevention Research, Fifth Annual AACR International Conference, Boston, MA, November 12.

2003 *Cell-type specific responses to chemotherapeutics in breast cancer*. National Institutes of Environmental Health Sciences Toxicogenomics Research Consortium Semi-annual Meeting. Seattle, Washington December 7-8.

Cell-type specific responses to chemotherapeutics in breast cancer. EU-US Workshop on Molecular Signatures of DNA Damage Induced Stress Response. Cortona, Italy, September 27.

INVITED PRESENTATIONS AND SERVICE TO COMMUNITY AND ADVOCACY GROUPS

2015 Invited participant, Big Data for Breast Cancer Meeting, Susan G. Komen Foundation, New York City, October 8-9, 2015.

2014 Role of inflammation and obesity in development of breast cancer. Wisconsin Breast Cancer Symposium, Milwaukee, WI June 14, 2014.

2013 NIEHS Partnerships for Environmental Public Health (PEPH) program, Webinar, *Pregnancy, Obesity and Breast Cancer Risk*, October 25, 2013.

2013 Project LEAD Institute, *Biology and Epidemiology of Mammographic Density*, Webcast, September 10, 2013

2013 Speaker, Carolina Community Network Center, Cancer Center Bus Tour, UNC Cancer Care, Chapel Hill, NC, May 21, 2013.

2013 Presenter and Participating Laboratory, *Researching and Communicating Breast Cancer Risk*, Morehead Planetarium Science Expo, Chapel Hill, NC, April 13, 2013.

2013 Keynote Speaker, *Young Black Women and Breast Cancer*, Carolina Science Café, Morehead Planetarium, Chapel Hill, NC, February 28, 2013

2010 Keynote Speaker, *Becoming a Scientist*, Females Excelling More in Math and Science (FEMMES), Outreach Program for North Carolina Elementary School Girls, University of North Carolina at Chapel Hill, November 6.

VITA

2009 Scientific Reviewer, Cancer Support Community's publication entitled "Frankly Speaking about New Discoveries in Cancer".

2007-2009 Instructor, Cancer and Genomics Webinar Lecture Series. Research Advocacy Network (an organization focused on connecting patient advocates and cancer survivors with scientific researchers to improve cancer care). Arlington Heights, IL.

TEACHING

Cancer Epidemiology and Pathogenesis (EPID 770), a graduate course covering biological and epidemiologic concepts in cancer etiology and progression including cancer statistics, major risk factors for cancer, mechanisms of carcinogenesis, biomarkers in cancer research, and current controversies in cancer research. Department of Epidemiology, UNC at Chapel Hill. *Role: Lead Instructor and Course Developer. Fall 2009; Spring 2011-2017.*

Cancer Epidemiology Methods (EPID 771), a graduate course covering quantitative methods in cancer epidemiology with emphasis on special statistical methods and study designed unique to the study of cancer in the Department of Epidemiology, University of North Carolina at Chapel Hill. *Role: Co-Instructor. Spring 2010, Fall 2011.*

Advanced Epidemiologic Methods (PUBHLTH 737) a core course covering details of concepts and quantitative methods used in modern epidemiology based on guided readings of the textbook *Modern Epidemiology* by Rothman and Greenland. Division of Biostatistics & Epidemiology, UMass Amherst. *Role: Lead Instructor Fall 2008.*

Analysis of Epidemiologic Data (PUBHLTH 690B), a graduate lecture and computer lab course covering analysis of binary data and leading students through analysis of lymphoma case-control data. Division of Biostatistics and Epidemiology, UMass Amherst. *Role: Lead Instructor and Course Developer. Spring 2007.*

Principles of Epidemiology (PUBHLTH 630), a required graduate course covering basic quantitative concepts in epidemiology, study design, interaction, confounding and statistics. Division of Biostatistics and Epidemiology, UMass Amherst. *Role: Lead Instructor. Fall 2006.*

Microenvironments – Inflammation in Obesity, Atherosclerosis, and Cancer (NUTR 863), a graduate course studying mechanisms of obesity-associated inflammation in disease. *Role: Guest Lecturer, Fall, 2013.*

Human Environmental Disease (PATH 890), a graduate course offering how the environment influences human health and disease. *Role: Guest Lecturer, Fall Semester 2010, 2011, 2013.*

Interdisciplinary Oncology Course, Modules and Sections on Cancer Epidemiology, an online course consisting of a series of lectures on cancer statistics, etiology research using cancer epidemiology methods, and application of biomarkers in cancer epidemiology, taught for University of Ulm, Online Master in Advanced Oncology. *Role: Lead Instructor, Fall 2010.*

POSTDOC, GRADUATE AND UNDERGRADUATE STUDENT MENTORING

Direction of Doctoral Research – Graduates

Hilda Razzaghi, PhD Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2010 – 2012.

Patricia Casbas-Hernandez, PhD Student, Department of Pathology and Laboratory Medicine, University of North Carolina at Chapel Hill, 2010 – 2013.

Brionna Hair, PhD Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2012 – 2014.

Amy Sun, PhD Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2009 – 2015.

Kyla Taylor, PhD Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2013 – 2016.

Lynn Chollet Hinton, PhD Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2011 – 2017.

Ebonee Butler, PhD Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2012 – 2017.

Lindsay Williams, PhD Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2012 – 2017.

Direction of Doctoral Research – Current

Samantha Puvanesarajah, PhD Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2012 – present, graduation expected 2017.

Ashley Fuller, PhD Student, Department of Pathology and Laboratory Medicine, University of North Carolina at Chapel Hill, 2014 – present, graduation expected 2017.

Graduate Student Advisees, Current

Sophie Mayer, PhD Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2016 – present.

Linnea Olsson, MS-PhD Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2016 – present.

Marc Emerson, PhD Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2013 – present.

Halei Benefield, MD/PhD Student, Department of Epidemiology and School of Medicine, University of North Carolina at Chapel Hill, 2017 – present.

Masters Paper Advisor - Graduates

Asahi Hishida, MPH Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2011 - 2012.

Lynn Chollet Hinton, MSPH Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2011 – 2013.

Patricia Casbas-Hernandez, MPH, Department of Epidemiology, University of North Carolina at Chapel Hill, 2013 – 2015.

Member of Doctoral Dissertation Committee (Department, Graduation Year)

Monica D'Arcy, PhD Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2010 – 2016.

Adam Filgo, PhD Student, Curriculum in Toxicology, University of North Carolina at Chapel Hill, 2014 – 2015.

Saira Khan, PhD Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2014 – 2016.

Yuanyuan Qin, PhD Student, Department of Nutrition, University of North Carolina at Chapel Hill, 2012 – 2015.

George Chao, PhD Student, Curriculum in Molecular Biology and Genetics, University of North Carolina at Chapel Hill, 2010 – 2012.

Nicholas Taylor, PhD Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2010 – 2014.

Jess Edwards, PhD Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2011 - 2013.

Michael Hussey, PhD Student, Department of Biostatistics, University of North Carolina at Chapel Hill, 2012 - 2013.

Alexander Keil, PhD Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2012 - 2015.

Leila Family, PhD Student, Department of Epidemiology, University of North Carolina at Chapel Hill, 2012 - 2015.

Master's Thesis Reader (Department, Graduation Year)

Eric Formeister, Department of Environmental Sciences and Engineering, University of North Carolina at Chapel Hill, 2009.

Joann Gruber, Department of Epidemiology, University of North Carolina at Chapel Hill, 2012.

Postdoctoral Fellows Mentored

Erick Roman Perez, Department of Epidemiology, February 2009 – November 2011. Currently Scientist, United States Navy.

Delisha Stewart, Department of Pathology & Laboratory Medicine, July 2010 – February 2013.
Currently Assistant Professor at University of North Carolina, Kannapolis campus.

Tyisha Williams, Department of Epidemiology, January 2011 – August 2011. Currently Assistant
Professor at Wilkes University.

Heather Ann Brauer, Department of Epidemiology, July 2011 – December 2013. Currently
Scientist at Nanostring Technologies.

Rupninder Sandhu, Lineberger Cancer Center, September 2011 – present. Currently Scientist
in private industry.

Emma Allott, Lineberger Cancer Center, January 2014 – September 2015. Currently Research
Assistant Professor of Nutrition at University of North Carolina at Chapel Hill.

Humberto Parada, Department of Epidemiology, January 2017 – August 2017. Currently
Assistant Professor, San Diego State University.

Undergraduate Research Projects Directed

Amy Yang, BS in Biology, January 2010 – June 2012.

Jim Broughman, BS in Biology, August 2010 – June 2012.

RESEARCH PROPOSALS (PENDING)

UNC Specialized Program of Research Excellence (SPORE) in Breast Cancer, Project 1

P50CA58-233-17 (Earp PI) 08/01/2017 – 07/31/2022
Carolina Breast Cancer Study Phase III, population-based molecular epidemiology study expanding
existing 4,000-subject (40% African American) study to examine specific hypotheses regarding
mutational signatures and immune response in cancer etiology and progression. Role: Project 1 PI

FUNDED RESEARCH (CURRENT)

Toward Risk Stratification of Screening False Positives: Biologic Discovery in the Tomosynthesis Imaging Screening Trial (TMIST)

University Cancer Research Fund (Troester and Kuzmiak, MPIs) 09/01/2016 – 08/31/2018
To study gene expression and histology of false positive biopsy specimens at UNC and in the
Tomosynthesis Imaging Screening Trial, a clinical trial evaluating digital mammography vs. next
generation tomosynthesis for breast cancer screening. It is well known that patients with a history of
false positive/biopsy following mammographic screening are at elevated risk of breast cancer; this
project seeks to identify novel biomarkers that could risk stratify patients for follow up decisions.

Cancer Control Education Program Training Grant

NCI T32-CA057726 (Ribisl & Troester, MPIs) 07/01/2017 – 06/30/2022
Cancer Control Education Program
This is a renewal of the R25T Cancer Control Education Program (CCEP) for Years 21-25. CCEP
supports five pre- and three postdoctoral fellows yearly and trains them for careers in cancer
prevention and control that emphasize multidisciplinary and collaborative research.

Breast Cancer Mortality Disparities: Integrating Biology and Access

Komen Foundation (Troester & Olshan, MPIs) 08/05/2016 – 07/30/2019

This training grant application funds 4 predoctoral trainees per year to engage in scientific research, formal coursework, didactic components, and enrichment related to breast cancer mortality disparities research. The training grant centers on use of the Carolina Breast Cancer Study to train the next generation of researchers focused on disparities in breast cancer mortality.

UNC-CH Center for Environmental Health and Susceptibility

2 P30 ES10126 NIEHS (Troester, PD) 04/01/2016 – 03/31/2021

The goals of the Integrative Health Sciences Facility Core under this competitive application are to develop methods for processing biologic samples and conducts PCR-based genotyping assays in support of Center Investigators. Role: Director

Molecular Pathways to Breast Cancer Mortality among African American and White Women

U54CA156733 (Earp, PI) 10/01/2015 – 09/30/2020

This project is part of a U54 Partnership project with North Carolina Central University. The project will address important molecular pathways in breast cancer progression in the Carolina Breast Cancer Study using RNA-based methods on FFPE tissues. Both etiology and risk of breast cancer molecular subtypes will be evaluated. Role: Project 3 PI

Biology of Race and Progression Associated Breast Tumor Gene Expression

U01CA179715 (Troester & Perou, MPIs) 05/01/2014 – 04/30/2019

To use Carolina Breast Cancer Study III and Normal Breast Study biospecimens to identify race- and progression-associated changes in RNA expression and RNA sequence, and to evaluate the functional effects of these alterations in breast cells.

FUNDED RESEARCH PROPOSALS (COMPLETED)

UNC Specialized Program of Research Excellence (SPORE) in Breast Cancer, Project 1

P50CA58-233-17 (Earp PI) 08/1/2012 – 7/31/2017

Carolina Breast Cancer Study Phase III, population-based molecular epidemiology study expanding existing 4,000-subject (40% African American) study to examine specific hypotheses regarding gene-gene and gene-environment influences on development and outcome of specific breast cancer molecular subtypes. Role: Project 1 PI

Molecular Epidemiology of Breast Cancer Subtypes in Black Women: A Consortium

P01CA151135 (Olshan, Ambrosone, Palmer, Co-PIs) 08/01/2011 – 07/31/2016

Program project to pool data and samples from the Carolina Breast Cancer Study (CBCS), the Black Women's Health Study (BWHS), the Women's Circle of Health Study (WCHS) and the Multi-ethnic Cohort (MEC). Role: Co-Investigator

Quantitative Motility Phenotyping of Basal Breast Cancer in a 3D Microenvironment

R21CA179204 (Oldenburg, PI) 07/14/2014 – 12/31/2015

To employ Optical Coherence Tomography (OCT) to perform high frame rate, non-invasive, volumetric imaging to quantify motility and morphogenesis of mammary organoid tissue cultures. To investigate the hypothesis that spatial pattern and frequency-dependence of mammary organoid motility obtained by OCT is correlated with metastatic potential. Role: Co-Investigator

(PQA2) Reversing Carcinogenic Effects of Obesity on Basal-like Breast Cancer

R21CA-180134-01 (Makowski, PI) 08/07/2013 – 07/31/2015

To evaluate whether protumorigenic effects of obesity are reversible and establish the role of the hepatocyte growth factor signaling cascade in the process. Role: Co-Investigator

HGF signaling in African American and Basal-like Breast Cancer

R21-CA175783A1 (Fleming & Troester, MPIs) 09/01/2013 – 08/31/2015

To understand the role of HGF signaling in breast cancer disparities by studying expression of HGF and HGF pathways in African American breast tissue (vs. Caucasian breast tissue) and to evaluate the mechanisms of HGF-MET signaling between fibroblasts and basal-like breast cancers.

Pregnancy, Obesogenic Environments, and Basal-like Breast Cancer

U01ES019472 (Troester PI) 07/01/2010 – 12/30/2015

To use in vitro cocultures and in vivo mouse models of basal-like breast cancer to study the promoting effects of obesogenic microenvironment. To interpret the experimental data in the context of obesity-associated gene expression changes in normal human breast tissue.

UNC-CH Center for Environmental Health and Susceptibility: Integrative Health Sciences

Facility Core

2 P30 ES10126-10 (Swenberg, PD) 04/01/2010 – 03/31/2015

The goals of the Integrative Health Sciences Facility Core under this competitive application are to develop methods for processing biologic samples and conducts PCR-based genotyping assays in support of Center Investigators. Role: Core Director

UNC-CH Nutrition Obesity Research Center: Genomics Concierge

2 P30 DK056350-11 (Zeisel, PD) 05/01/2011 – 03/01/2014

To provide methodological support for genomics and high through put genetics analysis to build capacity for nutrition and obesity associated genomic research. Role: Core Co-Director

Conserved Biology of Tumor and Microenvironment in Breast Cancer Progression

R01 CA138255-02 (Troester & Perou, MPIs) 09/01/2008 – 08/31/2013

To identify human-mouse conserved biology by integrating multiple data types from human tumors, human and mouse cell lines, and mouse tumor models, and then use these data to build improved outcome predictors for breast cancer patients. Project combines high throughput tumor genomics data (expression, copy number, SNP and miRNA) with phenotypic data on cell-cell interactions.

Characterizing Variation in Breast Cancer Microenvironment

Avon 02-2009-077 (Troester, PI) 10/1/2009 – 09/30/2013

To identify interindividual variation in normal tissue adjacent to breast cancer using gene expression microarrays. To identify age-associated changes in microenvironment gene expression.

Gene Expression Profiles of Histologically Normal Breast

Intramural contract, NCI/Washington University (Troester, PI) 07/01/2009 – 11/29/2012

To identify microenvironment gene expression alterations present from early stages of disease and in association with intrinsic subtype. To identify geographic zones of gene expression abnormalities.

Genomic Profiles of Field Cancerization in Breast

University Cancer Research Fund (Troester, PI) 07/01/2010 – 06/30/2012

To study gene expression in association with tumor subtype and distance from tumor in 300 patients from the Polish Women's Breast Cancer Study and the Normal Breast Study. To evaluate gene expression in association with exposure to breast cancer risk factors.

3D Microrheology in breast cancer cocultures by sensing plasmonic nanorods with optical coherence tomography

NCI U54 CA119343 (Oldenburg, Subward PI, Troester Co-I) 08/01/10 – 7/31/2011 Pilot grant under Carolina Cancer Center for Nanotechnology Excellence program to investigate passive microrheology of gold nanorods in breast cancer cocultures.

Optical Coherence Imaging of the Breast Mechanical Microenvironment in 3D Using Magneto-optical Nanoparticles

NCI U54 CA119343 (Oldenburg, Subward PI, Troester Co-I) 02/01/10 – 1/31/2011 Pilot grant under Carolina Cancer Center for Nanotechnology Excellence program to investigate imaging of breast mechanical microenvironment using nanoparticles.

p53-Dependent Responses to Toxicants in Parous and Nulliparous Breast

R01 ES015739 NCI/ UMass Amherst (Troester, Subaward PI) 06/01/2008 – 5/31/2011
To investigate the hypothesis that responsiveness of the p53 pathway is enhanced in parous breast tissue, rendering the epithelium resistant to environmental carcinogenesis. Specific aims investigate the interactions between environmental exposures, p53 signaling, and tissue responses in nulliparous and parous breast. Comparative studies in rodent models, human cell line models, and primary patient samples will identify molecular biomarkers of environmental susceptibility.

Identification of Immunohistochemical Marker to Improve Pathological Diagnosis of Endometrial Intraepithelial Neoplasia

NC TraCS (Kaufman, PI, Troester, collaborator) 05/01/2009 – 4/30/2010
Pilot grant under North Carolina Translational and Clinical Sciences Institute program to support use of endometrial epithelial-stromal cocultures to identify gene expression changes associated with change in epithelial-stromal ratio, a hallmark of pathologic diagnosis of intraepithelial neoplasia.

Heterotypic Interactions in Breast Responses to Ionizing Radiation

P30 ES010126 (Troester, Subaccount PI) 04/01/2008 – 3/31/2009
NIEHS Center for Environmental Health and Susceptibility Pilot Grant
To test the hypothesis that stromal-epithelial interactions determine the ionizing radiation (IR) response phenotype of the breast using a culture model system. To understand the role of heterotypic interaction in environmental carcinogenesis.

Effects of Age and Parity on Gene Expression Signatures and p53-Mediated Prophylaxis

Avon/UMass Amherst (Jerry PI; Troester Co-I) 01/01/2007 – 5/31/2010
To investigate differential gene expression in reduction mammoplasty samples from parous and nulliparous women. This project tested the hypothesis that parity-induced protection against carcinogenesis is mediated by the tumor suppressor p53.

Gene Expression Responses to Oxidative Stress

F32 ES012374 (Troester, PI) 10/01/2002 – 5/21/2004
Ruth Kirschstein Individual National Research Service Award to develop a model system for studying toxicant responses of breast cell lines *in vitro*. This project identified cell type specific, toxicant-specific, and pathway-specific responses to exposure.

PROFESSIONAL SERVICE

National Committees

2014-17 Member, Executive Committee, Tomosynthesis Imaging Screening Trial

2013 Panelist, Think Tank, Komen Tissue Bank, Washington DC, April 8, 2013

- 2012 Technical Expert Panel Member, "Impact of Genomics and Personalized Medicine on the Cost-Effectiveness of Preventing and Screening for Breast Cancer in Younger Women", Centers for Disease Control and Prevention (CDC) & Research Triangle Institute, Research Triangle Park, NC
- 2012 Scientific Advisory Board, Sister Study, National Institute of Environmental Health Sciences, Research Triangle Park, NC
- 2012 Member, Expert Roundtable on Integrating Pathological Materials into Epidemiologic Studies, American Cancer Society, Atlanta, GA
- 2011-13 Chair, Normal Breast Committee, The Cancer Genome Atlas Project (TCGA)
- 2010-12 Member, Steering Committee of the NCI/NIEHS Breast Cancer and Environment Research Program
- 2010-12 Chair, Windows of Susceptibility Scientist Group, NCI/NIEHS Breast Cancer and Environment Research Program
- 2011 Member, Planning Committee, NCI/NIEHS Breast Cancer and the Environment Research Program Annual Integration Meeting, July 2011

Grant Proposal Review

- 2017 Chair, National Institute of Environmental Health Sciences, R13 Grant Program, April 7 2017.
- 2016 Chair, California Breast Cancer Research Program, Request for Proposals to Identify Novel Biological Markers of Breast Cancer Risk Related to Environmental Chemical Exposures, June 2016.
- 2016 Panel member, Special Emphasis Panel of R03 applications, National Cancer Institute Omnibus, June 28-29, 2016.
- 2016 NCI Up for a Challenge (U4C): Stimulating Innovation in Breast Cancer Genetic Epidemiology Evaluation Panel, April 13, 2016
- 2016 Panel member, Basic Biology of Cancer Disparities RFA, National Cancer Institute, April 12, 2016
- 2014-15 Panel Member (2014) and Chair (2015), Provocative Questions Review Panel, National Cancer Institute, October 22, 2014; June 24, 2014; September 25, 2015
- 2014 Member, National Institute of Environmental Health Sciences Special Review Panel, Superfund Projects, February 25-27, 2015
- 2014-17 Member, Loan Repayment Program Review Program, National Cancer Institute, May 7, 2014 and May 7, 2015 and May 5, 2016
- 2012-14 Member, National Cancer Institute, Career Development Awards Review Panel

- 2012 Scientist Reviewer, Department of Defense CDMRP Breast Cancer Research Program, Concept Awards.
- 2012 Scientist Reviewer, National Institutes of Health, National Institute of Environmental Health Sciences, Children's Center Grant Proposals
- 2009-2011 Scientist Reviewer, US Army Medical Research and Materiel Command, Moderated by American Institute for Biological Sciences
- 2011-12 Scientist Reviewer, grants program, Breast Cancer Campaign, London.
- 2010-11 Scientist Reviewer, National Institutes of Health, National Institute of Environmental Health Sciences, P30 Center Grant Proposals
- 2008-10 Scientist Reviewer, Department of Defense Prostate Cancer Research Program, Molecular Biology and Genetics #2
- 2008-09 Scientist Reviewer, Department of Defense Breast Cancer Research Program, Molecular Biology and Genetics

Manuscript Review, Scientific Journals

BMC Cancer, 2008, 2009, 2013, 2014
BMC Medical Genomics, 2008, 2009, 2010
Breast Cancer Research, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015
Breast Cancer Research and Treatment, 2011
Cancer Epidemiology Biomarkers and Prevention, 2009, 2011-2017
Cancer Prevention Research, 2015
Cancer Research, 2013, 2014, 2015, 2016, 2017
Carcinogenesis, 2009, 2013
Environmental Health Perspectives, 2008, 2013
Epidemiology, 2011
Epigenetics, 2011
Genome Biology, 2012, 2014, 2015
International Journal of Cancer, 2012
Journal of the American Medical Association, 2015
Journal of the National Cancer Institute, 2010
Molecular Cancer Research, 2012
Mutations Research, 2008
Physiologic Genomics, 2009
PLoS ONE, 2012, 2013, 2015, 2016
Science Translational Medicine, 2012
NPJ Breast Cancer, 2015

Editorial Boards, Scientific Journals

2010 – *Oncology Reports*
2011 – 2015 *BMC Cancer*
2013 – *Cancer Research*

Appointment, Promotion, and Tenure Review

2013 University of Massachusetts Amherst, Division of Animal and Veterinary Sciences
2015 University of North Carolina at Chapel Hill, Department of Nutrition
2016 College of Public Health, The Ohio State University
2017 Mailman School of Public Health, Columbia University

INSTITUTIONAL SERVICE

University of North Carolina at Chapel Hill, Department of Epidemiology

2009-2016 Member, Doctoral Preliminary Exam Committee in Cancer Epidemiology

2010-2017 Member, Admissions Committee

2009-10 & Member, Faculty Search Committee
2012-13 &
2016-17

University of North Carolina at Chapel Hill

2016-2017 Member, Executive Committee, Department of Pathology

2016-2017 Member, Admissions Committee, Biological and Biomedical Sciences (BBSP)
PhD program

2016-2017 Chair, University Cancer Research Fund, Innovation Awards Pilot Projects
Program

2014-2015 Member, Doctoral Preliminary Exam Committee, Pathology & Lab Medicine

2010-2011 Scientific Reviewer, Center for Environmental Health and Susceptibility, Pilot
Research Grants Program

2010-2014 Scientific Reviewer, University Cancer Research Fund

2010 Scientific Reviewer, Lineberger Cancer Center, Population Sciences Pilot Grants

2008-09 Scientist Reviewer, NC TraCS Pilot Grant Program

2009-10 Member, Faculty Search Committee, College of Arts & Sciences, Lineberger
Cancer Center

University of Massachusetts, Amherst, Department of Public Health

2007 Member, Doctoral Preliminary Exam (Methods) Committee, Epidemiology

2006-08 Admissions Coordinator, Program in Epidemiology