

# EBONEÉ NICOLE BUTLER, PhD, MPH

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University of North Carolina at Chapel Hill  
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## Education

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08/17/2017- 08/20/2012	<i>PhD</i> Epidemiology University of North Carolina at Chapel Hill, Chapel Hill, NC "Smoking and variation in breast tumor biomarker expression" Melissa A Troester, PhD (Dissertation Chair)
05/15/2007- 08/15/2005	<i>MPH</i> Epidemiology Emory University, Atlanta, GA "High prevalence of triple negative breast tumors in an urban cancer center" Mary Jo B Lund, PhD (Thesis Advisor)
05/14/2005- 08/20/2000	<i>BA</i> Biochemistry Rice University, Houston, TX

## Research & Teaching

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06/1/2021- 01/11/2021	The George Washington University, Washington, DC Department of Epidemiology Professorial Lecturer
Present- 08/18/2017	National Cancer Institute, Bethesda, MD Division of Cancer Epidemiology and Genetics Postdoctoral Research Fellow
08/17/2017- 06/12/2017	National Cancer Institute, Bethesda, MD Cancer Prevention Fellowship Program Summer Curriculum
06/11/2017- 08/15/2012	University of North Carolina at Chapel Hill, Chapel Hill, NC Lineberger Comprehensive Cancer Center & Department of Epidemiology Graduate Research Assistant
08/14/2012- 08/15/2009	National Cancer Institute, Bethesda, MD Division of Cancer Control and Population Sciences, Applied Research Program Research Associate
08/14/2009- 08/15/2007	Centers for Disease Control and Prevention, Atlanta, GA National Center for Immunization and Respiratory Diseases, Influenza Division Oakridge Institute for Science and Education, Fellow
08/14/2007- 06/15/2007	Emory University, Atlanta, GA Department of Epidemiology Graduate Research Assistant

06/14/2007- 08/15/2005	Centers for Disease Control and Prevention, Atlanta, GA National Center for Infectious Diseases, Division of Parasitic Diseases Laboratory Technician
8/14/2004- 8/15/2003	Rice University, Houston, TX Department of Biochemistry and Cell Biology Research Assistant

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### Funding | Grants & Research Awards

#### NIH/NCI F31 (Butler) | Grant #5F31CA200336-02 | 09/15/2015 to 9/14/2017 (\$73,729)

“Smoking as a proxy for nicotine exposure and risk of EGFR positive breast cancer”. The goal of this project was to gain training in the integration of epidemiology and molecular biology to evaluate risk factor associations with breast tumor biomarkers.

Role: Principal Investigator

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### Bibliography | Journal Articles

1. Butler EN, Umar A, Heckman-Stoddard BM, Kundrod KA, Signorello LB, Castle PE. Redefining precision cancer prevention to promote health equity. *Trends Cancer* 2022;8(4):295-302 doi: 10.1016/j.trecan.2022.01.009 [published Online First: 20220216].
2. Abubakar M, Mullooly M, Nyante S, et al. Mammographic Density Decline, Tamoxifen Response, and Prognosis by Molecular Characteristics of Estrogen Receptor-Positive Breast Cancer. *JNCI Cancer Spectr* 2022;6(3) doi: 10.1093/jncics/pkac028.
3. Spees LP, Roberts MC, Freedman AN, et al. Involving patients and their families in deciding to use next generation sequencing: Results from a nationally representative survey of U.S. oncologists. *Patient Educ Couns* 2021;104(1):33-39 doi: 10.1016/j.pec.2020.03.001 [published Online First: 20200303].
4. Roberts MC, Spees LP, Freedman AN, et al. Oncologist-Reported Reasons for Not Ordering Multimarker Tumor Panels: Results From a Nationally Representative Survey. *JCO Precis Oncol* 2021;5 doi: 10.1200/po.20.00431 [published Online First: 20210422].
5. M Cook, LM Hurwitz, Geczik AM, and **EN Butler**. "An up-to-date assessment of US prostate cancer incidence rates by stage and race: A novel approach combining multiple imputation with age- and delay-adjustment". Accepted (2020) by *European Urology*.
6. **EN Butler**, MG Hall, MS Chen, JK Pepper, H Blanton, and NT Brewer. "The prototypes of tobacco users scale (POTUS) for cigarette smoking and e-cigarette use: Development and validation". Accepted (2020) by *International Journal of Environmental Research and Public Health*.
7. DR Withrow, SJ Scholfeld, RE Curtis, LM Morton, MB Cook, **EN Butler**, and A Berrington de González. "Racial and ethnic differences in risk of second primary cancers among prostate cancer survivors". Accepted (2020) by *Cancer Causes & Control*.
8. **EN Butler**, S Kelly, V Coupland, P Rosenberg, and M Cook. Fatal prostate cancer incidence trends in the United States and England by race, stage, and treatment. *British Journal of Cancer*, 123:487–494, 2020
9. LM Hurwitz, ED Yeboah, Biritwum RB, Tettey Y, Adjei AA, Mensah JE, Tay E, Okyne V, Truelove A, Kelly SP, Zhou CK, Hoover RN **EN Butler**, and, Hsing AW, and M Cook. Overall and abdominal obesity and prostate cancer risk in a West African population: An analysis of the Ghana Prostate Study. *International Journal of Cancer*, In Press, 2020
10. LP Spees, MC Roberts, AN Freedman, **EN Butler**, WMP Klein, I Prabhu Das, and JS de Moor. Involving patients and their families in deciding to use next generation sequencing: Results from a nationally representative survey of US oncologists. *Patient Education and Counseling*, 104(1):33–39, 2020
11. LA Williams, **EN Butler**, X Sun, EH Allott, SM Cohen, AM Fuller, KA Hoadley, CM Perou, J Geradts, F Olshan, et al. TP53 protein levels, RNA-based pathway assessment, and race among invasive breast cancer cases. *NPJ Breast Cancer*, 4(1):13, 2018

12. HD Couture, LA Williams, J Geradts, SJ Nyante, **EN Butler**, JS Marron, CM Perou, MA Troester, and M Nithammer. Image analysis with deep learning to predict breast cancer grade, ER status, histologic subtype, and intrinsic subtype. *NPJ Breast Cancer*, 4(1):30, 2018
13. **EN Butler**, JT Bensen, M Chen, K Conway, DB Richardson, X Sun, J Geradts, AF Olshan, and MA Troester. Prediagnostic smoking is associated with binary and quantitative measures of ER protein and *ESR1* mRNA expression in breast tumors. *Cancer Epidemiology Biomarkers Prev*, 27(1):67–74, 2018
14. **EN Butler**, C Tse, ME Bell, K Conway, AF Olshan, and MA Troester. Active smoking and risk of Luminal and Basal-Like breast cancer subtypes in the Carolina Breast Cancer Study. *Cancer Causes & Control*, 27(6):775–786, 2016
15. K Brodar, M Hall, **E Butler**, H Parada, A Stein-Seroussi, S Hanley, and N Brewer. Recruiting diverse smokers: enrollment yields and cost. *International Journal of Environmental Research and Public Health*, 13(12):1251, 2016
16. JL Warren, **EN Butler**, J Stevens, CS Lathan, A Noone, KC Ward, and LC Harlan. Receipt of chemotherapy among medicare patients with cancer by type of supplemental insurance. *Journal of Clinical Oncology*, 33(4):312, 2015
17. KR Evenson, **EN Butler**, and WD Rosamond. United states prevalence of physical activity and sedentary behavior among adults with cardiovascular disease. *Journal of Cardiopulmonary Rehabilitation and Prevention*, 34(6):406, 2014
18. **EN Butler** and KR Evenson. Prevalence of physical activity and sedentary behavior among stroke survivors in the united states. *Topics in Stroke Rehabilitation*, 21(3):246–255, 2014
19. SI Kirkpatrick, J Reedy, **EN Butler**, KW Dodd, AF Subar, FE Thompson, and RA McKinnon. Dietary assessment in food environment research: a systematic review. *American Journal of Preventive Medicine*, 46(1):94–102, 2014
20. **EN Butler**, N Chawla, J Lund, LC Harlan, JL Warren, and KR Yabroff. Patterns of colorectal cancer care in the United States and Canada: a systematic review. *Journal of the National Cancer Institute Monographs*, 2013(46):13–35, 2013
21. N Chawla, **EN Butler**, J Lund, JL Warren, LC Harlan, and KR Yabroff. Patterns of colorectal cancer care in Europe, Australia, and New Zealand. *Journal of the National Cancer Institute Monographs*, 2013(46):36–61, 2013
22. **EN Butler**, AMH Ambs, J Reedy, and HR Bowles. Identifying GIS measures of the physical activity built environment through a review of the literature. *Journal of Physical Activity and Health*, 8(s1):S91–S97, 2011
23. JM Milush, KD Mir, V Sundaravaradan, SN Gordon, J Engram, CA Cano, JD Reeves, E Anton, E O'Neill, **E Butler**, K Hancock, KS Cole, JM Brenchley, JG Else, G Silvestri, and DL Sodora. Lack of clinical AIDS in SIV-infected sooty mangabey with significant CD4+ T cell loss is associated with double-negative T cells. *The Journal of Clinical Investigation*, 121(3):1102–1110, 2011
24. MJ Lund, **EN Butler**, BY Hair, KC Ward, JH Andrews, G Oprea-Ilies, AR Bayakly, RM O'Regan, PM Vertino, and JW Eley. Age/race differences in HER2 testing and in incidence rates for breast cancer triple subtypes. *Cancer*, 116(11):2549–2559, 2010
25. WA Brooks, ASM Alamgir, R Sultana, MS Islam, M Rahman, AM Fry, B Shu, S Lindstrom, Kn Nahar, D Goswami, MS Haider, S Nahar, **EN Butler**, K Hancock, RO Donis, CT Davis, RU Zaman, SP Luby, TM Uyeki, and M Rahman. Avian influenza virus a (H5N1), detected through routine surveillance, in child, bangladesh. *Emerging Infectious Diseases*, 15(8):1311, 2009
26. K Hancock, V Veguilla, X Lu, W Zhong, **EN Butler**, H Sun, F Liu, L Dong, JR DeVos, PM Gargiullo, et al. Cross-reactive antibody responses to the 2009 pandemic H1N1 influenza virus. *New England Journal of Medicine*, 361(20):1945–1952, 2009
27. J Katz, K Hancock, V Veguilla, W Zhong, XH Lu, H Sun, **E Butler**, L Dong, F Liu, ZN Li, et al. Serum cross-reactive antibody response to a novel influenza A (H1N1) virus after vaccination with seasonal influenza vaccine. *Morbidity and Mortality Weekly Report*, 58(19):521–524, 2009

28. W Wang, **EN Butler**, V Veguilla, R Vassell, JT Thomas, Z Moos Jr, Mand Ye, K Hancock, and CD Weiss. Establishment of retroviral pseudotypes with influenza hemagglutinins from H1, H3, and H5 subtypes for sensitive and specific detection of neutralizing antibodies. *Journal of Virological Methods*, 153(2):111–119, 2008
29. TG Sheu, VM Deyde, M Okomo-Adhiambo, RJ Garten, X Xu, RA Bright, **EN Butler**, TR Wallis, AI Klimov, and LV Gubareva. Surveillance for neuraminidase inhibitor resistance among human influenza A and B viruses circulating worldwide from 2004 to 2008. *Antimicrobial Agents and Chemotherapy*, 52(9):3284–3292, 2008
30. MJ Lund, **EN Butler**, HL Bumpers, J Okoli, M Rizzo, N Hatchett, VL Green, OW Brawley, GM Oprea-Ilies, and S Gabram. High prevalence of triple-negative tumors in an urban cancer center. *Cancer*, 113(3):608–615, 2008

### Presentations | Posters

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- (2020) AACR Advances in Prostate Cancer Research (Denver, CO). "Testosterone therapy in relation to cancer risks among men in the SEER-Medicare database". (Postponed)
- (2019) 12th AACR Conference on The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved (San Francisco, CA). "The interplay between rurality-urbanicity and race in prostate cancer risk, treatment, and survival in the United States".
- (2019) Society for Epidemiologic Research 52nd Annual Meeting (Minneapolis, MN). "Male reproductive factors and prostate cancer risk in the United Kingdom".
- (2018) 11th AACR Conference on The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved (New Orleans, LA). "Racial differences in the incidence of fatal prostate cancer in two countries: An ecological comparison of the United States and England".
- (2017) AACR Annual Meeting (Washington, DC). "Smoking Exposure and Quantitative Levels of Estrogen-Receptor Expression in ER+ Breast Tumors".

### Teaching

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Principles and Practice of Epidemiology, PUBH 6003 (Spring I & II, 2021)  
The George Washington University, Washington, DC

Clinical Measurement and Evaluation, EPID 711 (Fall, 2014)  
University of North Carolina at Chapel Hill, Chapel Hill, NC

### Training | Workshops & Research Training Awards

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(2016) AACR Integrative Molecular Epidemiology Workshop | Boston, MA

(2015) Society for Epidemiologic Research | Dissertation Workshop Award | Denver, CO

(2007) Oak Ridge Institute for Science and Education Fellowship (CDC 2007-2009) | Atlanta, GA

(2004) Welch Foundation Student Research Grant (Rice University) | Houston, TX

### Honors

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(2020) 2021 NIH Fellows Award in Research Excellence (FARE) (\$1,500)

(2018) AACR Scholar-in-Training Award (\$1,000)

(2015) NIH National Research Service Award | Predoctoral Fellowship

(2013) University Cancer Research Fund Award | UNC (\$20,000)

(2012) Gillings Merit Scholarship (Awarded \$20,000 for First-Year PhD Studies)

(2012) NIH Merit Award for Advancing the Field of Physical Activity Surveillance

(2012) Distinguished Performance Award from Kelly Government Solutions

(2011) Distinguished Performance Award from Kelly Government Solutions

(2009) CDC NCIRD award for Outstanding Service in Response to the 2009 Swine Flu Epidemic

(2000) Rice University Barbara Jordan Scholar (Awarded one-half the cost of undergraduate tuition)

(2000) Salutatorian, Beaumont Central Senior High School Class of 2000

### **Professional Memberships & Service**

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#### Memberships

- American Association for Cancer Research (2016-Present)
- Society for Epidemiologic Research (2015-Present)
- CDC Softball League (2008 Catcher)

#### Service & Activities

- Organizing Committee | National Cancer Institute's 3<sup>rd</sup> Symposium on Cancer Health Disparities (2020)
- Admissions Committee | Cancer Prevention Fellowship Program (2020)
- UNC Minority Student Caucus Executive Board (2013-2016)
- Cancer Epidemiology Seminar and Journal Club Organizer (2013-2015)
- Montgomery County Coalition for the Homeless | Meal Preparation (2010)