Adam H. Buchanan, MS, MPH, CGC

Curriculum Vitae

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EDUCATION

Bachelor of Science, 1998 – Biology (With High Honors)
Emory University, Atlanta, GA

Master of Public Health, 2000 – Health Behavior and Health Education
The University of North Carolina Gillings School of Global Public Health, Chapel Hill, NC

Master of Science, 2004 – Genetic Counseling
The University of North Carolina at Greensboro, NC

CERTIFICATION American Board of Genetic Counseling, 2005; recertified in 2015 and 2020

LICENSURE Pennsylvania Medical Board (Genetic Counseling), 2014-present

HONORARIES Phi Beta Kappa and Phi Sigma, Emory University

AWARDS PerkinElmer Signature Genomic Laboratories Travel Award – American College of Medical Genetics Annual Clinical Meeting, 2011

Outstanding Clinical Supervisor, UNC-Greensboro Genetic Counseling Program Class of 2013

PROFESSIONAL EXPERIENCE

7/20 – present	Chair, Department of Genomic Health, Geisinger Health, Danville, PA
7/19 – present	Associate Professor, Department of Genomic Health, Geisinger Health, Danville, PA
11/14 – 6/19	Assistant Professor, Department of Genomic Health, Geisinger Health, Danville, PA
9/13 – 10/14	Member, Duke Cancer Institute, Cancer Control and Population Sciences, Durham, NC
3/10 – 10/14	Research Scientist/Genetic Counselor, Duke Cancer Prevention, Detection, and Control Research Program, Duke Cancer Institute, Durham, NC
10/04 – 2/10	Genetic Counselor/Clinical Research Coordinator III, Duke Cancer Prevention, Detection, and Control Research Program, Duke Cancer Institute, Durham, NC
5/00 – 9/04	Project Manager/Health Educator, Duke Cancer Prevention, Detection, and Control Research Program, Duke Cancer Institute, Durham, NC
8/99 – 5/00	Teaching Assistant, *Community Diagnosis*, graduate course, Department of Health Behavior and Health Education, The University of North Carolina School of Public Health, Chapel Hill, NC
5/99 – 4/00	Research Assistant, Duke Cancer Prevention, Detection, and Control Research Program, Durham, NC

PROFESSIONAL DEVELOPMENT

3/18-7/18	Training Institute in Dissemination and Implementation Research in Cancer, National Cancer Institute, Rockville, MD (competitive application)
1/20	Winter Institute on Qualitative Research Methods, University of Pennsylvania
5/20-9/20	The Leadership Conversation, Center for Creative Leadership
8/21-5/22	E. Allen Deaver Leadership Program (Geisinger)

CONSULTING RELATIONSHIPS

5/08, 9/08	"Facilitating Risk-Appropriate Colorectal Cancer Testing" (R01 CA122330-01A1, PI: Celette Sugg Skinner, PhD), UT-Southwestern Medical Center, Dallas, TX
7/07	High Risk Clinic at Derrick L. Davis Forsyth Regional Cancer Center, Forsyth Medical Center, Winston-Salem, NC

CURRENT RESEARCH SUPPORT

1. Exact Sciences, 2020-2024, $10,500,000 (PI: AH Buchanan)
   Principal Investigator, *Earlier Detection of Cancers*
2. National Human Genome Research Institute, U24-HG006834, 2021-2026, $1,011,544 (PI: H Rehm)
   Co-Investigator, *The Clinical Genome Resource – Expert curation and EHR integration*
3. National Human Genome Research Institute, R01-HG009671, 2018-2023, $3,541,434 (PI: AH Buchanan)
   Principal Investigator, *Returning adult-onset incidental genomic findings to pediatric biobank participants and parents*
4. National Cancer Institute, R01-CA223606, 2021-2023, $25,710 (PI: MD Schwartz)
   Site Principal Investigator, *A randomized trial of proactive outreach and streamlined genetic education in* BRCA *families*
5. PA Department of Health, SAP# 4100090487, 2022-2023, $276,000 (PI: G Campbell-Salome)
   Co-Investigator, *Transition clinic for youth at risk for hereditary cancer: pre-implementation study*
6. Freenome Holdings, Inc., 2023-2026, $2,010,122 (PI: C Xu)
   Site Principal Investigator, *The Sanderson Study – Study on multi-omics blood tests for cancer screening: a case-control study*

PRIOR RESEARCH SUPPORT

1. National Institute of Nursing Research/National Cancer Institute, R01NR08434, 2004-2011 (PI: V Champion)
   Clinical Research Coordinator, *Promoting breast cancer screening via computer vs. phone*
2. Department of Defense, W81XWH-05-1-0383, 2005-2012 (PI: G Ginsburg)
   Genetic Counselor, *Guilford Genomic Medicine Initiative*
3. Susan G. Komen for the Cure, DISP0707781, 2007-2011 (PI: M Adams)
   Co-Investigator, *Telemedicine vs. Face-to-Face Cancer Genetic Counseling in Rural Oncology Clinics*
4. National Human Genome Research Institute, R01GH004322, 2008-2011 (PI: I Lipkus)
   Genetic Counselor, *Assessing risk communication educational practices in genetic counseling programs*

5. National Cancer Institute, R03-CA157212, 2011-2014 (PI: AH Buchanan)
   Principal Investigator, *Adherence to cancer risk management among BRCA1/2 mutation carriers*
6. National Human Genome Research Institute, U01-HG007282, 2013-2019 (PI: G Ginsburg)
   Genetic Counselor, *Implementation, adoption and utility of family history in diverse care settings*
7. National Human Genome Research Institute, U41-HG006834, 2013-2017 (PIs: DH Ledbetter, Cl Martin, R Nussbaum, H Rehm)
   Co-Investigator, *A Unified Clinical Genomics Database*
8. National Human Genome Research Institute, U01-HG007437, 2013-2017 (PI: DH Ledbetter)
   Co-Investigator, *Clinically Relevant Genetic Variants Resource: A unified approach for identifying genetic variants for clinical use*
9. National Human Genome Research Institute, U01HG007437-S1, 2015-2016 (PI: DH Ledbetter)
   Co-Investigator, *Administrative supplement to the Clinically Relevant Genetic Variants Resource*
10. Geisinger Clinic, SRC-S-57, 2015-2017 (PI: AH Buchanan)
    Principal Investigator, *Assessing patients' experience with return of genomic results*
11. National Human Genome Research Institute, U01-GH008679, 2015-2020 (PI: MS Williams)
    Co-Investigator, *EMR-Linked biobank for translational genomics (eMERGE III)*
12. Marcus Foundation, 2016-2019 (PI: DH Ledbetter)
    Co-Investigator, *Earlier Detection of Cancers*
13. National Cancer Institute, R01-CA211723, 2017-2022 (PI: AK Rahm)
    Co-Investigator, *Implementing universal syndrome screening across multiple healthcare systems: Identifying strategies to facilitate and maintain programs in different organizational contexts*
14. National Human Genome Research Institute, U01-HG009650, 2017-2021 (PI: MS Williams)
    Co-Investigator, *The Clinical Genome Resource – Expert curation and EHR integration*
15. National Human Genome Research Institute, U01-HG008679-S1, 2018-2019 (PI: MS Williams)
    Co-Investigator, *Administrative supplement to VGER: The Vanderbilt Genome-Electronic Records Project*
16. National Heart, Lung and Blood Institute, R01-HL148246, 2019-2023 (PI: AC Sturm)
    Co-Investigator, *Identification methods, patient activation, and cascade testing for FH: IMPACT-FH*

PEER-REVIEWED PUBLICATIONS

https://www.ncbi.nlm.nih.gov/myncbi/adam.buchanan.1/bibliography/public/

1. Skinner CS, **Buchanan A,** Kreuter MW, Holt CL, Bucholtz, D, & Strigo, TS. Adapting tailored intervention message libraries for new populations. *Health Education.* 2003;103:221-229.
2. **Buchanan AH**, Skinner CS, Rawl SM, Moser B, Champion VL, Scott LL, Strigo TS, Bastian L. Patients' interest in discussing cancer risk and risk management with primary care physicians. *Patient Education and Counseling.* 2005;57:77-87. PMID: 15797155
3. Skinner CS, Rawl SM, Moser B, **Buchanan AH**, Scott LL, Champion VL, Schildkraut JS, Parmigiani G, Epps SC, Lobach D, Bastian L. Impact of the Cancer Risk Intake System on patient-clinician discussions of tamoxifen, genetic counseling, and colonoscopy. *Journal of General Internal Medicine.* 2005;20:360-365. PMID: 15857495

4. **Buchanan AH,** Skinner CS, Calingaert B, Schildkraut JS, King RH, Marcom, PK. Cancer genetic counseling in rural North Carolina oncology clinics: program establishment and patient characteristics. *Commun Oncol.* 2009;6:70–77.
5. Datta SK, **Buchanan AH**, Hollowell GP, Beresford HF, Marcom PK, Adams MB. Telemedicine vs. face-to-face cancer genetic counseling: measuring satisfaction and conducting economic analysis. *Comparative Effectiveness Research*. 2011;1:43-50.
6. Orlando LA, Hauser ER, Christianson C, Powell KP, **Buchanan AH**, Agbaje AB, Henrich VC, Ginsburg G. Protocol for implementation of family health history collection and decision support into primary care using a computerized family health history system. *BMC Health Services Research.* 2011;11:264. PMID: 21989281
7. **Buchanan AH**, Stopfer JE. Genetic counseling in oncology. *JAMA*. 2011;306(13):1442-1443. PMID: 21972303
8. Skinner CS, **Buchanan AH**, Champion V, Monahan P, Rawl S, Springston J, Qianqian Z, Bourff S. Process outcomes from a randomized controlled trial comparing tailored mammography interventions delivered via telephone vs. DVD. *Patient Educ Couns.* 2011;85(2):308-312. PMID: 21112173
9. Orlando LA, **Buchanan AH**, Hahn SE, Christianson CA, Powell KP, Skinner CS, Chestnut B, Blach C, Due B, Ginsburg GS, Henrich VC. Development and Validation of a Primary Care-Based Family Health History and Decision Support Program (MeTree©). *NC Med J*. 2013;74(4):287-296. PMID: 24044145.
10. Wu RR, Orlando LA, Himmel TL, **Buchanan AH**, Powell KP, Hauser ER, Agbaje AB, Henrich VC, Ginsburg GS. Patient and primary care provider experience using a family health history collection, risk stratification, and clinical decision support tool: A Type 2 hybrid controlled implementation-effectiveness trial. *BMC Family Practice.* 2013;14:111. PMID: 23915256
11. Wolf AI, **Buchanan AH**, Farkas L. Historical review of Lynch syndrome. *J Coloproctol*. 2013;33(2):95-110.
12. Greenup R, **Buchanan A**, Lorizio W, Rhoads K, Chan S, Leedom T, King R, McLennan J, Crawford K, Marcom PK, Hwang ES. Prevalence of BRCA mutations among women with triple negative breast cancer (TNBC) in a genetic counseling cohort. *Ann Surg Oncol*. 2013;20(10):3254-8. PMID: 23975317
13. Wu RR, Himmel T, **Buchanan AH**, Powell K, Hauser E, Agbaje A, Ginsburg GS, Henrich VC. Quality of family history collection with use of a patient facing family history collection tool. *BMC Family Practice*. 2014;15:31. PMID: 24520818
14. Orlando LA, Wu RR, Himmel T, **Buchanan AH**, Powell KP, Hauser E, Henrich VC, Ginsburg GS. Implementing family health history risk stratification in primary care: Impact of guideline criteria on populations and resource demand. *Am J Med Genet Part C Semin Med Genet*. 2014;166C(1):24-33. PMID: 24616329
15. Daniels MS, Babb S, King R, Urbauer D, Amos CI, Brandt AC, **Buchanan AH**, Mutch DG, Lu KH. Underestimation of risk of a *BRCA1* or *BRCA2* mutation in women with high-grade serous ovarian cancer by BRCAPRO: A multi-institution study. *J Clin Oncol*. 2014;32(12):1249-55. PMID: 24638001
16. Beadles C, Wu RR, Himmel T, **Buchanan AH**, Powell KP, Hauser E, Henrich VC, Ginsburg GS, Orlando LA. Providing patient education: Impact on quantity and quality of family health history collection. *Fam Cancer*. 2014;13(2):325-32. PMID: 24515581
17. Sanka A, Wu RR, Beadles C, Himmel T, **Buchanan AH**, Powell KP, Hauser ER, Ginsburg GS, Orlando LA. Identifying Patients at Increased Disease Risk: Comparing clinical judgment and a clinical risk assessment tool. *J Family Med Community Health.* 2014;1(2):1010.

18. Haga SB, Mills R, Pollak KI, Rehder C, **Buchanan A**, Lipkus I, Crow J, Datto M. Promoting Patient Engagement and Understanding through a Patient-friendly Laboratory Report. *Genome Medicine*. 2014;6(7):58. PMID: 25473429
19. Schully SD, Dotson WD, Lam TK, Chang CQ, Aronson N, Birkeland ML, Brewster SJ, Boccia S, **Buchanan AH**, Calonge N, Calzone K, Clyne M, Djulbegovic B, Goodard KAB, Klein RD, Klein TE, Lau J, Long R, Lyman GH, Morgan RL , Palmer CGS, Relling MV, Rubinstein W, Terry SF, Williams MS and Khoury MJ. Evidence Synthesis and Guideline Development in Genomic Medicine: Current Status and Future Prospects. *Genet Med.* 2015;17(1):63-7. PMID: 24946156
20. **Buchanan AH**, Christianson CA, Himmel T, Powell KP, Agbaje A, Ginsburg GS, Henrich VC, Orlando LA. Use of a Patient-entered Family Health History Tool with Decision Support in Primary Care: Impact of Identification of Increased Risk Patients on Genetic Counseling Attendance. *J Genet Couns*. 2015;24(1):179-88. PMID: 25120038
21. Hampel H, Bennett RL, **Buchanan AH**, Pearlman R, Wiesner G. NSGC and ACMG Joint Practice Guidelines: Referral Indications for Cancer Genetic Consultation. *Genet Med*. 2015;17(1):70-87. PMID: 25394175
22. **Buchanan AH,** Datta SK, Skinner CS, Hollowell GP, Beresford HF, Freeland T, Rogers B, Boling J, Marcom PK, Adams MB. Randomized trial of cancer genetic counseling via telemedicine vs. in-person: cost, patient satisfaction and attendance. *J Genet Couns*. 2015;24(6):961-70. PMID: 25833335
23. Kim J, Johnson L, Skrzynia C, **Buchanan A**, Gracia C, Mersereau JE. Prospective multicenter cohort study of estrogen and insulin-like growth factor system in BRCA mutation carriers. *Cancer Causes Control*. 2015;26(8):1087-92. PMID: 26006218
24. Champion VL, Rawl SM, Monahan PO, Smith LG, **Buchanan AH**, Bourff SA, Skinner CS. Randomized trial of DVD, telephone and usual care for increasing mammography adherence. *J Health Psychol.* 2016;21(6):916-26. PMID: 25070967
25. Orlando LA, Wu RR, Myers RA, **Buchanan AH**, Henrich VC, Hauser ER, Ginsburg GS. Clinical utility of a web-enabled risk assessment and clinical decision support program. *Genet Med*. 2016;18(10):1020-8. PMID: 26938783
26. Hunter JE, Irving SA, Biesecker LG, **Buchanan AH**, Martin CL, Milko L, Muessig K, Niehaus AD, O'Daniel J, Piper MA, Ramos EM, Slavotinek A, Sobeira N, Schully S, Scott AF, Weaver M, Strande N, Webber EM, Williams MS, Berg JS, Evans JP, Goddard KAB. A standardized, evidence-based protocol to assess clinical actionability of genetic disorders associated with genomic variation. *Genet Med.* 2016;18(12):1258-68. PMID 27124788
27. **Buchanan AH**, Rahm AK, Williams J. Alternate service delivery models in cancer genetic counseling: a mini-review. *Frontiers in Oncology, Women's Cancer.* 2016 May 13;6:120. eCollection 2016. PMID 27242960
28. **Buchanan AH**, Schildkraut JM, Voils CI, Fine C, Horick N, Marcom PK, Wiggins K, Sugg Skinner C. Adherence to recommended risk management among unaffected women with a *BRCA* mutation. *J Genet Couns*. 2017;26(1):79-92. PMID 27265406
29. Foote JR, Lopez-Acevedo M, **Buchanan AH**, Alvarez Secord A, Lee PS, Fountain C, Myers ER, Cohn DE, Reed SD, Havrilesky LJ. Cost comparison of genetic testing strategies in women with epithelial ovarian cancer. *Journal of Oncology Practice.* 2017;13(2):e120-e129. PMID 28045615
30. Hooker GW, Clemens KR, Vogel Postula KJ, Quillin J, Summerour P, Nagy R, **Buchanan AH**. Cancer genetic counseling and testing in an era of rapid change. *J Genet Couns*. 2017;26(6):1244-1253. PMID 28434142
31. Strande NT, Riggs ER, **Buchanan AH**, Dwight SS, Ghosh R, Sneddon TP, Birsoy O, Milko L, Azzariti DM, Giovanni M, Murray MF, O'Daniel J, Ramos EM, Santani A, Scott A, Plon SE, Rehm HL, Martin CL, Berg JS. Evaluating the clinical validity of gene-disease

associations: An evidence-based framework developed by the Clinical Genome Resource. *American Journal of Human Genetics*, 2017;100(6):895-906. PMID 28552198

32. Randall LM, Pothuri B, Swisher EM, Diaz J, **Buchanan AH**, Witkop C, Powell B, Blair Smith E, Boyd J, Coleman RL, Lu K. Multi-disciplinary summit on genetics services for women with gynecologic cancers: A Society of Gynecologic Oncology White Paper. *Gynecologic Oncology*. 2017;146(2):217-224. PMID 28596016
33. **Buchanan AH**, Manickam K, Meyer MN, Wagner JK, Hallquist M, Williams JL, Rahm AK, Williams MS, Chen ZME, Shah CK, Garg TK, Lazzeri AL, Schwartz ML, Lindbuchler DM, Fan AL, Leeming R, Servano III PO, Vogel VG, Abul-Husn NS, Dewey FE, Lebo MS, Mason-Suares HM, Ritchie MD, Davis FD, Carey DJ, Feinberg DT, Faucett WA, Ledbetter DH, Murray MF. Early cancer diagnoses through *BRCA1/2* screening of unselected adult biobank participants. *Genet Med.* 2018;20(5):554-558. PMID 29261187
34. Rahm AK, Bailey L, Fultz K, Fan A, Williams JL, **Buchanan AH**, David FD, Murray MF, Williams MS. Parental attitudes and expectations towards receiving genomic test results in healthy children. *Translational Behavioral Medicine*. 2018:8(1):44-53. PMID 29385584
35. Williams MS, **Buchanan AH**, Davis FD, Faucett WA, Hallquist MLG, Leader JB, Martin CL, McCormick CZ, Murray MF, Rahm, AK, Schwartz MLB, Sturm AC, Wagner JK, Williams JL. Willard HF, Ledbetter DH. Patient-Centered Precision Health In A Learning Health Care System: Geisinger's Genomic Medicine Experience *Health Affairs*. 2018;37(5):757-764. PMID 29733722
36. Wu RR, Myers RA, Sperber N, Voils C, Neuner J, McCarty C, Haller IV, Harry M, Fulda KG, Cross D, Dimmock D, Rakhra-Burris T, **Buchanan A**, Ginsburg GS, Orlando LA. Implementation, Adoption, and Utility of Family Health History Risk Assessment in Diverse Care Settings: evaluating implementation processes and impact with an implementation framework. *Genet Med*. 2019;21(2):331-338. PMID 29875427
37. Ormond KE, Hallquist MLG, **Buchanan AH**, Dondanville D, Cho MK, Smith M, Roche M, Brothers KB, Coughlin CR, Hercher L, Hudgins L, Jamal S, Levy HP, Stosic M, Uhlmann W, Wain KE, Currey E, Faucett WA. Developing a conceptual, reproducible rubric-based approach to consent and result disclosure for genetic testing by clinicians with minimal genetics background. *Genet Med*. 2019;21(3):727-735. PMID 29976988
38. Schwartz MLB, McCormick CZ, Lazzeri A, Lindbuchler D, Hallquist M, Manickam K, Flansburg C, Davis FD, Sturm AC, **Buchanan AH**, Nicastro C, Giovanni MA, Lebo MS, Mason-Suares H, Mahanta LM, Rahm AK, Williams JL, Williams MS, Ledbetter DH, Faucett WA, Murray MF. A model for genome-first care: Returning secondary genomic findings to participants and their healthcare providers in a large research cohort. *American Journal of Human Genetics*. 2018;103(3):328-337. PMID 30100086
39. Manickam K, **Buchanan AH**, Schwartz MLB, Hallquist M, Williams J, Rahm AK, Rocha H, Savatt J, Evans A, Butry L, Lazzeri A, Lindbuchler D, Flansburg C, Leeming R, Vogel V, Lebo M, Mason-Suares H, Hoskinson D, Abul-Husn N, Dewey F, Overton J, Reid J, Baras A, Williard H, McCormick C, Krishnamurthy S, Hartzel D, Kost K, Lavage D, Sturm A, Frisbie L, Person T, Metpally R, Giovanni M, Lowry L, Leader J, Ritchie M, Carey D, Kirchner L, Faucett WA, Williams MS, Ledbetter DH, Murray MF. Cases of *BRCA1/2* associated cancer risk in 50,726 exome sequenced adults. *JAMA Network Open*. 2018;1(5):e182140. PMID: 30646163 (***Selected as Top 10 paper of 2019 by NHGRI Genomic Medicine Working Group***)
40. Webber EM, Hunter JE, Biesecker LG, **Buchanan AH**, Clarke EV, Currey E, Dagan-Rosenfeld O, Lee K, Lindor NM, Martin CL, Milosavljevic A, Mittendorf KF, Muessig KR, O'Daniel JM, Patel RY, Ramos EM, Rego S, Slavotinek A, Sobriera N, Weaver MA, Williams MS, vans JP, Goddard KAB. Evidence-based assessments of clinical actionability in the context of secondary findings: Updates from ClinGen's Actionability Working Group. *Human Mutation*. 2018;39(11):1677-1685. PMID: 30311382

41. Wu R, Myers RA, **Buchanan AH**, Dimmock D, Fulda KG, Haga SB, Haller IV, Harry ML, McCarty C, Neuner J, Rakhra-Burris T, Sperber N, Voils CI, Ginsburg GS, Orlando LA. Effect of sociodemographic factors on uptake of a patient-facing family health history information technology risk assessment platform. *Applied Clinical Informatics*. 2019;10(2):180-188. PMID: 30866001.
42. Davidson B, Ehrisman J, Reed SD, Yang JC, **Buchanan AH**, Havrilesky LD. Preferences of women with epithelial ovarian cancer for aspects of genetic testing. *Gynecologic Oncology Research and Practice*. ePub 2019 Jan 22;6:1. PMID: 30693090.
43. Hao J, Hassen D, Manickam K, Murray MF, Hartzel DN, Hu Y, Liu K, Rahm AK, Williams MS, Lazzeri A, **Buchanan AH**, Sturm AC, Snyder SR. Healthcare utilization and costs after receiving a positive *BRCA1/2* result from a genomic screening program. *Journal of Personalized Medicine*. 2020 Feb 3 [online ahead of print]. PMID: 32028596.
44. Hagenkord J, Funke B, Qian E, Hegde M, Jacobs KB, Ferber M, Lebo M, **Buchanan AH,** Bick D. Design and reporting considerations for genetic screening tests. *Journal of Molecular Diagnostics.* 2020;22(5):599-609. PMID: 32092541.
45. Savatt JM, Wagner JK, Joffe S, Rahm AK, Williams MS, David FD, Hergenrather J, Kelly MA, Kirchner HL, Meyer MN, Mozersky J, O'Dell SM, Pervola J, Bradbury A, Sturm AC, **Buchanan AH**. Pediatric Reporting of Genomic Results Study (PROGRESS): A mixed-methods, longitudinal, observational cohort study protocol to explore disclosure of actionable adult- and pediatric-onset genomic variants to minors and their parents. *BMC Pediatrics*. 2020 May 15 [online ahead of print]. PMID: 32414353.
46. Hallquist MLG, Tricou EP, Hallquist MN, Savatt JM, Rocha H, Evans AE, Deckard N, Hu Y, Kirchner HL, Pervola P, Rahm AK, Rashkin M, Schmidlen TJ, Schwartz MLB, Williams JL, Williams MS, **Buchanan AH**. Positive impact of genetic counseling assistants on genetic counseling efficiency, patient volume, and cost in a cancer genetics clinic. *Genet Med*. 2020;22(8):1348-1354. PMID: 32350418.
47. Lennon AM, **Buchanan AH**, Kinde I, Warren A, Honushefsky A, Cohain AT, Ledbetter DH, Sanfillipo F, Sheridan K, Rosica D, Adonizio CS, Hwang HJ, Lahouel K, Cohen JD, Douville C, Patel AA, Hagmann LN, Rolston DD, Malani N, Zhou S, Bettegowda C, Diehl DL, Urban B, Still CD, Kann L, Woods JI, Salvati ZM, Vadakara JJL, Leeming R, Bhattacharya P, Walter C, Parker A, Lengauer C, Klein A, Tomasetti C, Fishman EK, Hruban RH, Kinzler KW, Vogelstein B, Papadopoulos N. Feasibility of blood testing combined with PET-CT to screen for cancer and guide intervention. *Science*. 2020 Apr 28 [online ahead of print]. PMID: 32345712.
48. Lynch JA, Sharp RR, Aufox SA, Bland S, Blout C, Bowen DJ, **Buchanan AH**, Halverson C, Harr M, Hebbring SJ, Henrikson N, Hoell C, Holm I, Jarvik G, Kullo IJ, Kochan DC, Larson E, Leppig KA, Lazzeri A, Madden J, Myers MF, Peterson J, Prows CA, Rahm AK, Ralston J, Rasouly HM, Scrol A, Smith M, Sturm A, Stuttgen K, Wiesner G, Williams MS, Wynn J, Williams JL. Understanding the return of genomic sequencing results process: Content review of participant summary letters in the eMERGE research network. *Journal of Personalized Medicine*. 2020 May 13;10(2):E38. PMID: 32413979.
49. **Buchanan AH**, Kirchner HL, Schwartz MLB, Kelly MA, Schmidlen T, Jones LK, Hallquist MLG, Rocha H, Betts M, Schwiter R, Butry L, Lazzeri AL, Frisbie LR, Rahm AK, Willard HF, Martin CL, Ledbetter DH, Williams MS, Sturm AC. Clinical outcomes of a genomic screening program for actionable genomic conditions. *Genetics in Medicine*. 2020;22(11):1874-1882. PMID: 32601386. (***Selected as Top 10 paper of 2020 by NHGRI Genomic Medicine Working Group***)
50. Campbell-Salome G, **Buchanan AH**, Hallquist ML, Rahm AK, Rocha H, Sturm AC. Uncertainty management for individuals with Lynch Syndrome: Identifying and responding to healthcare barriers. *Patient Education and Counseling*. 2021;104(2):403-412. PMID: 32782180.

51. Mozersky J, Meyer MN, O'Dell SM, Rahm AK, **Buchanan AH**. Balancing external validity and concern for psychosocial harms in translational genetic research. *Ethics & Human Research*. 2021;43(2):43-48. PMID: 33683017.
52. Orlando LA, Wu RR, Myers RA, Neuner J, McCarty C, Haller IV, Harry M, Fulda KG, Dimmock D, Rakhra-Burris T, **Buchanan AH**, Ginsburg GS. At the intersection of precision medicine and population health: An implementation-effectiveness study of family health history based systematic risk assessment in primary care. *BMC Health Services Research*. 2020 Nov 7;20(1):1015. PMID: 33160339.
53. Schwartz M, **Buchanan AH**, Hallquist MLG, Haggerty CM, Sturm AC. When the genetic test comes first: considerations for providing genetic counseling to patients with positive genomic screening results. *Journal of Genetic Counseling*. 2021 Jun;30(3):634-644. PMID: 33786929.
54. Campbell-Salome G, Jones J, Masnick M, Walton N, Ahmed C, **Buchanan AH**, Brangan A, Esplin E, Kahn D, Ladd I, Kelly M, Kindt I, Kirchner HL, McGowan M, Betts M, Morales A, Myers K, Oetjens M, Rahm AK, Schmidlen T, Scheldon A, Simmons E, Snir M, Strande N, Walters N, Wilemon K, Williams MS, Gidding S, Sturm AC. Developing and optimizing innovative tools to address familial hypercholesterolemia underdiagnosis: Identification Methods, Patient Activation, and Cascade Testing for Familial Hypercholesterolemia (IMPACT-FH). *Circulation: Genomic and Precision Medicine*. 2021 Feb;14(1):e003120. PMID: 33480803.
55. Carruth ED, Beer D, Alsaid A, Schwartz MLB, McMinn M, Kelly MA, **Buchanan AH**, Nevius CD, Calkins H, James CA, Murray B, Tichnell C, Matsumura ME, Kirchner HL, Fornwalt BK, Sturm AC, Haggerty CM. Clinical findings and diagnostic yield of arrhythmogenic cardiomyopathy through genomic screening of pathogenic or likely pathogenic desmosome gene variants. *Circulation: Genomic and Precision Medicine*. 2021 Apr;14(2):e003302. PMID: 33684294.
56. Hallquist MLG, Tricou EP, Ormond KE, Savatt JM, Coughlin II CR, Faucett WA, Hercher L, Levy HP, O'Daniel JM, Peay HL, Stosic M, Smith M, Uhlmann WR, Wand H, Wain KE, **Buchanan AH**. Application of a framework to guide genetic testing communication across clinical indications. *Genome Medicine*. 2021 Apr 29;13(1):71. PMID: 33926532.
57. Fan X, Wynn J, Shang N, Liu C, Fedotov A, Hallquist M, **Buchanan AH**, Williams MS, Smith M, Hoell C, Rasmussen-Torvik L, Peterson JF, Wiesner GL, Murad A, Jarvik GP, Gordon A, Rosenthal E, Stanaway IB, Crosslin DR, Larson E, Leppig, K, Henrikson N, Williams J, Li R, Hebbring S, Weng C, Shen Y, Crew KD, Chung WK. Penetrance of breast cancer genes from the eMERGE III Network. *Journal of the National Cancer Institute Cancer Spectrum*. 2021 May 8;5(4):pkab044. PMID: 34377931.
58. Ormond KE, Borenzstein M, Hallquist MLG, **Buchanan AH**, Faucett WA, Peay HL, Smith ME, Tricou EP, Uhlmann WR, Wain KE, Coughlin CR II. Defining the critical components of informed consent for genetic testing. *Journal of Personalized Medicine*. 2021 Dec 5;11(12):1304. PMID: 34945775.
59. Schiabor Barrett K, Masnick M, Hatchell KE, Savatt JM, Banet N, **Buchanan AH**, Willard HF. Clinical validation of functional genomic screen data: analysis of observed *BRCA1* variants in an unselected population cohort. *Human Genetics and Genomics Advances*. 2022 Jan 8;3(2):100086. PMID: 35128484.
60. Leppig K, Appelbaum P, Aufox S, Bland ST, **Buchanan A**, Christensen KD, Chung WK, Wright Clayton E, Crosslin D, Denny J, DeVange S, Gordon A, Green RC, Hakonarson H, Harr MH, Henrikson N, Hoell C, Holm IA, Kullo IJ, Jarvik GP, Lammers PE, Larson EB, Lindor NM, Marasa M, Myers MF, Perez E, Peterson JF, Pratap S, Prows CA, Kulchak Rahm A, Ralston JD, Milo Rasouly H, Roden D, Sharp RR, Singh R, Shaibi G, Smith ME, Sturm A, Thiese H, Van Driest SL, Wiesner GL, Williams J, Williams MS, Wynn J, Blout Zawatsky CL. The Reckoning: The return of genomic results to 1,444 participants across

the eMERGE3 network. *Genetics in Medicine*. 2022 May;24(5):1130-1138. PMID: 35216901.

61. Goddard KAB, Lee K, **Buchanan AH**, Powell B, Hunter JE. Establishing the clinical actionability of genomic variants. *Annual Review of Genomics and Human Genetics*. 2022 Aug 31;23:173-192. PMID: 35363504.
62. Hunter JE, Jenkins CL, Bulkley JE, Gilmore MJ, Lee K, Pak CM, Wallace KE, **Buchanan AH**, Foreman AKM, Freed AS, Goehringer S, Manickam K, Meeks NJL, Ramos EM, Shah N, Steiner RD, Subramanian SL, Trotter T, Webber EM, Williams MS, Goddard KAB, Powell BC. ClinGen's Pediatric Actionability Working Group: Clinical actionability of secondary findings from genome-scale sequencing in children and adolescents. *Genetics in Medicine*. 2022 Jun;24(6):1328-1335. PMID: 35341655.
63. Savatt JM, Ortiz NM, Thone GM, McDonald WS, Kelly MA, Berry ASF, Hallquist MLG, Malinowski J, Purdy NC, Williams MS, Sturm AC, **Buchanan AH**. Observational study of population screening for variants associated with endocrine tumor syndromes in a large, healthcare-based cohort. *BMC Medicine*. 2022 Jun 7;20(1):205. PMID: 35668420.
64. Jones LK, Strande NT, Calvo EM, Chen J, Rodriguez G, McCormick CZ, Hallquist MLG, Savatt JM, Rocha H, Williams MS, Sturm AC, **Buchanan AH**, Glasgow R, Martin CL, Rahm AK. A RE-AIM framework analysis of DNA-based population screening: using implementation science to translate research into practice in a healthcare system. *Frontiers in Genetics*. 2022 May 25;13:883073. PMID: 35692820.
65. Baker AM, Tolwinski K, Atondo J, Davis FD, Goehringer J, Jones LK, Pisieczko C, Sturm AC, Williams JL, Williams MS, Rahm AK, **Buchanan AH**. Understanding the patient experience of receiving clinically actionable genomic results from the MyCode Community Health Initiative, a population-based genomic screening initiative. *Journal of Personalized Medicine*. 2022 Sept 15;12(9):1511. PMID: 36143296.
66. McCormick CZ, Yu KD, Johns A, Campbell-Salome G, Hallquist MLG, Sturm AC, **Buchanan AH**. Investigating psychological impact after receiving genetic risk results – a survey of participants in a population genomic screening program. *Journal of Personalized Medicine*. 2022 Nov 22;12(12):1943. PMID: 36556164.
67. Wu RR, Myers RA, Neuner J, McCarty C, Haller IV, Harry M, Fulda KG, Dimmock D, Rakhra-Burris T, **Buchanan AH**, Ginsburg GS, Orlando LA. Impact of systematic family health history based risk assessment on clinical disease prevention and surveillance activities. *BMH Health Services Research*. 2022 Dec 6;22(1):1486. PMID: 36474257.
68. Pichardo P, Hellums R, Hao J, Hassen D, Savatt JM, Pellitteri P, Alvi M, **Buchanan AH**, Nicholas Purdy. Thyroidectomy outcomes in patients identified with *RET* pathogenic variants through a population genomic screening program. *JAMA Otolaryngology-Head & Neck Surgery*. 2023 Jan 5 [online ahead of print]. PMID: 36602781.

BOOK CHAPTER

1. Estabrooks Hahn H, **Buchanan A**, Wolpert C, Blanton SH. Responsible conduct of research in genetic studies. In: Scott WK, Ritchie MR, eds. *Genetic Analysis of Complex Disease.* 3rd ed. John Wiley and Sons; 2021:79-104.

INVITED, NON PEER-REVIEWED PUBLICATIONS

1. Zierhut H, **Buchanan A**. The impact of new CMS rules for telehealth on cancer genetic counseling. *Am J Manag Care – Evidence-Based Oncology*, 2018;24(6):1-4.

PREPRINTS

1. Hagenkord J, Funke B, Qian E, Hegde M, Jacobs KB, Ferber M, Lebo M, **Buchanan AH,** Bick D. The positive predictive value of genetic screening tests. *Peer J Preprints*, 2019;7:e27922v1.

2. Fife JD, Tran T, Bernatchez JR, Shepard KE, Koch C, Patel AP, Fahed AC, Krishnamurthy S, Regeneron Genetics Center*, DiscovEHR Collaboration*, Wang W, **Buchanan AH**, Carey DJ, Metpally R, Khera AV**,** Lebo M, Cassa CA. A framework for integrated clinical risk assessment using population sequencing data. *medRxiv*, 2021. https://doi.org/10.1101/2021.08.12.21261563.
3. Hallquist MLG, Borensztein MJ, Coughlin CR, **Buchanan AH**, Faucett WA, Peay HL, Smith ME, Tricou EP, Uhlmann WR, Wain KE, Ormond KE on behalf of the Clinical Genome CADRe Workgroup. Defining the critical educational components of informed consent for genetic testing: Views of US-based genetic counselors and medical geneticists. *medRxiv*, 2022. https://www.medrxiv.org/content/10.1101/2022.11.22.22282640v1
4. Honushefsky A, Wagner ES, Sheridan K, Spickard KM, LeMasters WR, Walter CN, Beaver T, Kulchak Rahm A, **Buchanan AH**. Real-time evaluation and adaptation to facilitate rapid recruitment in a large cohort. *medRxiv*, 2023. https://www.medrxiv.org/content/10.1101/2023.01.30.23285102v1

MANUSCRIPTS UNDER REVIEW

1. Fife JD, Tran T, Bernatchez JR, Shepard KE, Koch C, Patel AP, Fahed AC, Krishnamurthy S, Regeneron Genetics Center*, DiscovEHR Collaboration*, Wang W, **Buchanan AH**, Carey DJ, Metpally R, Khera AV**,** Lebo M, Cassa CA. A framework for integrated clinical risk assessment using population sequencing data. Submitted to *Nature Medicine*.
2. Curtis SD, Summers M, Cohen JD, Wang Y, Nehme N, Popoli M, Ptak J, Sillman N, Dobbyn L, **Buchanan AH**, Tie J, Gibbs P, Ho-Pham LT, Tran BNH, Zhou S, Bettegowda C, Lennon AM, Hruban RH, Kinzler KW, Papadopoulos N, Vogelstein B, Douville C. Identifying cancer patients from GC-patterned fragment ends of cell-free DNA. Submitted to *eLife*.
3. Hallquist MLG, Borensztein MJ, Coughlin CR, **Buchanan AH**, Faucett WA, Peay HL, Smith ME, Tricou EP, Uhlmann WR, Wain KE, Ormond KE on behalf of the Clinical Genome CADRe Workgroup. Defining the critical educational components of informed consent for genetic testing: Views of US-based genetic counselors and medical geneticists. Submitted to *European Journal of Human Genetics*.
4. Schwiter R, Rocha H, Johns A, Diehl DL, Kelly MA, Williams MS, **Buchanan AH**. Low adenoma burden in unselected patients with a pathogenic *APC* variant. Submitted to *Genetics in Medicine*.
5. Savatt JM, Johns A, Schwartz MLB, McDonald WS, Salvati ZM, Ortiz NM, Masnick M, Hatchell K, Hao J, **Buchanan AH**, Williams MS. Disclosure of homozygous *HFE* C282Y variants in an unselected healthcare system population: a cross-sectional study of clinical burden and health behaviors. Submitted to *JAMA Network Open*.

MANUSCRIPTS IN PROCESS

1. Schwartz MLB, McDonald WS, Hallquist MLG, McCormick CZ, Walters N, Tsun J, Zimmerman K, Decker A, Gray C, Malinowski J, **Buchanan AH**, Sturm AC. Genetics visit utilization and result-related orders among participants with positive findings from a large-scale genomic screening program.
2. Hallquist MLG, Rocha H, Kirchner HL, Rahm AK, Schmidlen TJ, Schwartz MLB, Williams MS, Sturm AC, **Buchanan AH**. Population based genomic screening for Lynch syndrome: Improving identification of at-risk individuals.
3. Yu KD, Betts MN, Thone G, Schwartz MLB, Robinson TO, Moyer RJ, Taddonio SW, Vasudevan A, Johns A, Sturm AC, Kelly M, Williams MS, Poler SM, **Buchanan AH.** Prevalence of malignant hyperthermia symptoms in patients receiving *RYR1* results through a population genomic screening program.

4. Manolio TA, Rider R, Bult CJ, Chisholm RL, Ginsburg GS, Green ED, Jarvik GP, Mensah GA, Narula J, Ramos EM, Relling MV, Roden DM, Rowley R, Williams MS, Abul-Husn NS, **Buchanan AH**, Chute CG, Del Fiol G, Elhanan G, Haga SB, Hamid R, Horowitz CR, Hulick PJ, James CA, Jeff JM, Korf B, Landry L, McGraw D, McLeod HL, Mendelsohn N, Osterman T, Overby Taylor C, Pritchard D, Rehm HL, Tsosie KS, Vassy JL, Watson K, Wiley, Jr. K, Deverka PA. Advancing the science of genomic learning healthcare systems.

PEER-REVIEWED PRESENTATIONS

1. **Buchanan AH**, Skinner CS, King RH, Marcom PK. Establishment of an outreach cancer genetic counseling program in rural North Carolina cancer clinics: Feasibility, patient characteristics and satisfaction. *Annual Education Conference of the National Society of Genetic Counselors*, November 2005, Los Angeles, CA.
2. Rawl, SM, Champion, VL, Scott, L, Monahan, P, Cotton, T, Weaver, L, Overgaard, A, **Buchanan, A**, Skinner, CS. Testing of an interactive computer program to encourage colorectal cancer testing among African Americans. *Oncology Nursing Society,* February 2005, Ft. Lauderdale, FL.
3. Steele S, Champion V, Skinner CS, Rawl S, Springston JK, **Buchanan AH**. Development and testing of an interactice DVD. *International Nursing Research Congress Focusing on Evidence-Based Practice,* July 2007, Vienna, Austria.
4. **Buchanan AH,** Adams MA, Datta S, Hollowell GP, Beresford HF, Boling J, Freeland T, Rogers B, Marcom PK. Patient satisfaction with telemedicine vs. in-person cancer genetic counseling: a randomized controlled trial. *Annual Education Conference of the National Society of Genetic Counselors*, October 2010, Dallas, TX. Available from: http://www.nsgc.org/conferences/aec.cfm
5. **Buchanan AH,** Datta SK, Adams MB, Hollowell GP, Beresford H, Boling J, Freeland T, Rogers B, Marcom PK. Telemedicine vs. in-person cancer genetic counseling in rural oncology clinics: a randomized controlled trial of cost and patient satisfaction. *American College of Medical Genetics Annual Clinical Genetics Meeting,* March 2011, Vancouver, BC. Available from: http://submissions.miracd.com/acmg/default.aspx
6. **Buchanan AH**. Skinner CS, Voils CI, Horick N, Fine C, Murray S, Baker T, Marcom PK, Schildkraut JS. Adherence to Cancer Risk Management among Unaffected *BRCA1/2* Mutation Carriers. *Annual Education Conference of the National Society of Genetic Counselors*, October 2012, Boston, MA.
7. Hooker GW, **Buchanan AH,** Rhoads K, Vogel Postula K, Quillin J, Summerour P, Nagy R. Cancer Genetic Counseling and Testing in an Era of Rapid Change. *Annual Education Conference of the National Society of Genetic Counselors,* September 2014, New Orleans, LA.
8. Ghosh R, **Buchanan AH**, Strande NS, Riggs ER, Dwight SS, Sneddon TP, Martin CL, Berg J, Ferber M, Offit K, Nathanson KL, Plon SE. Clinical validity of genes implicated in pheochromocytoma/ paraganglioma and pancreatic cancer. *American Society of Human Genetics Annual Meeting*, October 2015, Baltimore, MD.
9. Ormond KE, Hallquist MLG, Buchanan AH, Cho M, Kaufman D, Brothers K, Coughlin CR II, Hercher L, Hudgins L, Jamal S, Levy H, Peay H, Roche M, Stosic M, Smith M, Uhlmann W, Wain KE, Faucett WA. Development of recommendations for ordering clinicians with minimal genetics background from the CLinGen consortium Consent and Disclosure Recommendations (CADRe) Committee. *European Meeting on Psychosocial Aspects of Genetics*, May 2016, Barcelona, SP.
10. Murray MF, Manickam K, **Buchanan AH**, Lindbuchler DM, Barr M, Lazzeri AL, Gorgol LM, McCormick CZ, Flansburg CN, Hallquist M, Rahm AK, Fan A, Faucett WA, Giovanni MA, Hartzel DN, Leader JB, Kirchner HL, Abul-Husn NS, Dewey FE, Metpally RPR, Carey DJ, Person TN, Ritchie MD, Ledbetter DH. Return of incidental results for *BRCA1/BRCA2* to a

50,726 person cohort within a single healthcare provider organization. *American Society of Human Genetics Annual Meeting*, October 2016, Vancouver, BC.

11. Fultz K, Rahm AK, **Buchanan AH**, Davis FD, Fan A, Bailey L, Williams JL, Murray MF. A parent's perspective: Receiving genomic results for adult-onset conditions in healthy children. *American Public Health Association Annual Meeting*, October 2016, Denver, CO.
12. Schwartz MLB, Lebo M, Rehm H, Mehra V, Manickam K, Lindbuchler DM, **Buchanan AH**, Hallquist M, Austin-Tse CA, Mason-Suares H, Murray MF. High incidence of cardiac phenotypes amongst adult biorepository participants with hypertrophic cardiomyopathy risk identified through genomic screening. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting*, March 2017, Phoenix, AZ.
13. **Buchanan AH**, Wagner J, Meyer M, Davis FD. Returning genomic results to adult and pediatric biobank participants. *The 4th ELSI Congress*, June 2017, Farmington, CT.
14. Tricou EP, Savatt JM, Rocha H, Hallquist MLG, Rahm AK, Williams JL, Schmidlen T, Evans A, Deckard N, Fan AL, Faucett WA, Williams MS, **Buchanan AH**. Impact of a genetic counseling assistant on genetic counseling time utilization and patient accessibility. *Annual Meeting of the National Society of Genetic Counselors*, September 2017, Columbus, OH.
15. Hunter JE, Webber EM, Lee K, Muessig KR, Biesecker LG, **Buchanan AH**, Lindor N, Martin CL, O'Daniel JM, Ramos ER, Slavotinek, Sobreira N, Weaver MA, Williams MS, Evans J, Goddard KAB, on behalf of the ClinGen Resource. Evidence-based assessments of clinical actionability in the context of secondary findings: Updates from ClinGen's Actionability Working Group. *American Society of Human Genetics Annual Meeting*, October 2017, Orlando, FL.
16. Hallquist MLG, Brothers KB, **Buchanan AH**, Coughlin II CR, Faucett WA, Hercher L, Hudgins L, Levy H, Ormond KE, Peay H, Roche M, Smith M, Stosic M, Tricou EP, Uhlmann W, Wain KE. Consent for genetic testing and disclosure of results: Shifting the paradigm to non-genetics clinicians. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting,* April 2018, Charlotte, NC.
17. Ormond KE, Hallquist MLG, Tricou EP, Faucett WA, Brothers K, Coughlin CR II, Hercher L, Hudgins L, Levy H, Peay H, Roche M, Stosic M, Smith M, Uhlmann W, Wain K, **Buchanan AH**. Consent for genetic testing and disclosure of results: Shifting the paradigm to non-genetics clinicians. *European Meeting on Psychosocial Aspects of Genetics*, June 2018, Milan, IT.
18. Rocha H, Schwiter R, Hallquist MLG, **Buchanan AH**. Where are the polyps? *APC* variant identification in an unselected population. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting,* April 2019, Seattle, WA.
19. Schmidlen T, Lazzeri AL, Jones CL, Frisbie L, Schwartz M, Hallquist MLG, Evans AE, Kirchner HL, McCormick C, **Buchanan AH**, Sturm AC. Impact of patient follow-up calls on uptake of recommended risk reducing actions among patients receiving clinically actionable sequencing results. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting,* April 2019, Seattle, WA.
20. Hallquist MLG, Ormond KE, **Buchanan AH**. Improving access to genetic testing by moving away from a default traditional genetic counseling mode: a new model for care. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting,* April 2019, Seattle, WA.
21. Morgan AM, **Buchanan AH**, Kirchner HL, Lazzeri A, McCormick C, Schmidlen T, Vanenkevort E, Sturm AC. Cascade testing uptake in first-degree relatives after receiving a cancer or cardiovascular result from a population genomic screening program. *Annual Meeting of the National Society of Genetic Counselors,* November 2019, Salt Lake City, UT.

22. Ormond KE, Borenzstein M, **Buchanan AH**, Faucett WA, Hallquist MLG, Peay H, Smith ME, Tricou EP, Uhlmann W, Wain K, Coughlin CR II. Critical components of informed consent for genetic testing: Results of a Delphi Consensus process. *European Society of Human Genetics*, June 2020, Virtual Meeting.
23. **Buchanan AH**, Austin J, Cohen SE. Meeting patients where they are: Improving access to genetic counseling while providing high-quality care. *Annual Meeting of the National Society of Genetic Counselors*, November 2020, Virtual Meeting.
24. Hurst AC, Pekarek D, Wasserstein M, Bowling K, **Buchanan AH**, Martin CL. Unexpected findings across the lifespan: Challenges of reporting incidental and secondary findings in young patients. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting*, April 2021, Virtual Meeting.
25. Reys B, Zimmerman J, Pirzadeh-Miller S, Sturm A, **Buchanan AH**, Dunnenberger M. Referral innovation through automation: Using your EHR to help providers recognize and generate appropriate referrals through clinical decision support (CDS). *Annual Meeting of the National Society of Genetic Counselors*, September 2021, Virtual Meeting.
26. Kalia S, Yashar B, Wynn J, Linnenbringer E, Quillin J, **Buchanan AH**, Berrios C. A grant writing retreat to jump start or advance your proposal. *Annual Meeting of the National Society of Genetic Counselors*, September 2021, Virtual Meeting.
27. Hunter JE, Martucci J, **Buchanan AH**. Navigating the ethical and regulatory implications of providing genetic risk to relatives of a patient who is deceased. *American Society for Bioethics and Humanities*, October 2021, Virtual Meeting.

PEER-REVIEWED POSTERS

1. **Buchanan AH**, Clark S, Skinner CS, Sarratt WE, McLamb C & DeVellis BM. Cancer Genetics Network educational tools: Development of an Internet-based resource for health professionals. *Annual Education Meeting of the National Society of Genetic Counselors*, November 2000, Savannah, GA.
2. **Buchanan AH**, Sorenson JR, Griffith JM. Patient-provider discussions of prenatal screening and testing. *Annual Education Meeting of the National Society of Genetic Counselors*, October 2004, Washington, DC.
3. **Buchanan AH**, Skinner CS, King RH, Marcom PK. Outreach cancer genetic counseling in rural NC clinics: Feasibility, patients characteristics and satisfaction. *Duke Comprehensive Cancer Center Annual Meeting*, April 2006, Durham, NC.
4. Skinner CS, **Buchanan AH**, Champion VL, Monahan P, Bourff S, Rawl SM, Springston J. Exposure and reaction to tailored mammography intervention via telephone vs. DVD. *American Society of Preventive Oncology Annual Meeting*, March 2009, Tampa, FL.
5. Hahn SE, Blanton SH, **Buchanan AH**, Christianson CA, Powell KP, Henrich VC, Vance JM, Pericak-Vance MA. Collection and use of family history in the primary care setting. *American College of Medical Genetics Annual Clinical Genetics Meeting*, March 2009, Tampa, FL.
6. Booker F, Adams MB, Beresford H, **Buchanan AH**, Datta SK, Freeland T, Marcom PK, Hollowell GP. The acceptibility of cancer genetic counseling via telemedicine in rural oncology clinics. *North Carolina Central University Undergraduate Research Day*, April 2010, Durham, NC.
7. Orlando LA, Hauser RE, Christenson C, Powell KP, **Buchanan AH**, Agbaje AB, Henrich VC, Ginsburg GS. Integrating electronic family history taking into primary care: Patient and provider perceptions. *4th National Conference on Genomics and Public Health*, December 2010, Bethesda, MD.
8. Orlando LA , Hauser RE, Christenson C, Powell KP, **Buchanan AH**, Agbaje AB, Henrich VC, Ginsburg GS. What's the Impact? Clinical validity and utility of MeTree, an Electronic

Family History Collection and Decision Support Tool for Primary Care. *Annual Meeting of the Society of General Internal Medicine*, May 2011, Phoenix, AZ.

9. Booker F, Adams MB, Beresford H, **Buchanan AH**, Datta SK, Freeland T, Marcom PK, Hollowell GP. The cost-effectiveness of telemedicine vs. in-person genetic counseling in rural oncology clinics. *North Carolina Central University Undergraduate Research Day*, April 2011, Durham, NC.
10. Orlando LA, Hauser ER, Christianson C, Powell KP, **Buchanan AH**, Agbaje AB, Henrich VC, Ginsburg G. What the impact? Clinical validity and utility of Metree, an electronic family history collection and decision support tool for primary care. *Annual Meeting of the Society of General Internal Medicine*, April 2011, Phoenix, AZ.
11. Henrich VC, Hauser E, Orlando L, Christianson C, **Buchanan AH**, Powell K, Agbaje A, Ginsburg G & Genomedical Connection. A primary care model for assessing patient disease risk based on family health history: Description and preliminary analysis. *Annual Meeting of the American Society of Human Genetics,* October 2011, Montreal, QC.
12. **Buchanan AH**, Schildkraut JM, Voils CI, Fine C, Horick N, Murray S, Marcom PK, Skinner CS. Adherence to cancer risk management among unaffected *BRCA1/2* mutation carriers. *Duke Cancer Control Research Science Fair*, May 2012, Durham, NC.
13. Daniels MS, Babb S, King R, Urbauer D, Amos CI, Brandt AC, **Buchanan A**, Mutch DG, Lu KH. A multi-institution study of the accuracy of BRCAPRO in predicting BRCA1/BRCA2 mutations in women with ovarian cancer. *American Society of Clinical Oncology Annual Meeting*, June 2012, Chicago, IL.
14. Wu RR, Himmel T, **Buchanan A**, Powell K, Hauser E, Agbaje AB, Ginsburg GS, Henrich VC, Orlando LA. Impact of a family history collection tool, MeTree, in identifying individuals at high-risk for cancer and thrombosis. *Annual Meeting of the Society of General Internal Medicine*, April 2013, Denver, CO.
15. **Buchanan AH**, Schildkraut JM, Voils CI, Fine C, Horick N, Murray S, Marcom PK, Skinner CS. Adherence to cancer risk management recommendations among unaffected *BRCA* mutation carriers. *Annual Duke Cancer Institute Scientific Retreat*, May 2013, Durham, NC.
16. **Buchanan AH**, Schildkraut JM, Voils CI, Fine C, Horick N, Murray S, Marcom PK, Skinner CS. Adherence to cancer risk management recommendations among unaffected *BRCA* mutation carriers. *Annual Education Conference of the National Society of Genetic Counselors*, October 2013, Anaheim, CA.
17. Joseph K, **Buchanan AH**, King R, Leedom T, Callanan N. Application of the NSGC Practice Guidelines for Hereditary Breast and Ovarian Cancer Genetic Counseling to male patients. *Annual Education Conference of the National Society of Genetic Counselors*, October 2013, Anaheim, CA.
18. Hooker G, Nagy R, **Buchanan A**, Quillin J, Rhoads K, Summerour P, Knapke S, Vogel K. Cancer Genetic Counseling and Testing in an Era of Rapid Change. *American College of Medical Genetics Annual Clinical Genetics Meeting*, March 2014, Nashville, TN.
19. **Buchanan AH**, Fine C, Skinner CS, Schildkraut JM, Horick N, Marcom PK, Voils CI. Perceived benefits of and barriers to risk management among unaffected *BRCA* mutation carriers. *BRCA: Twenty Years of Advances - The Fifth International Symposium on Hereditary Breast and Ovarian Cancer*, April 2014, Montreal, QC.
20. Ghosh R, **Buchanan A**, Strande NS, Riggs ER, Dwight SS, Sneddon TP, Martin C, Berg J, Ferber M, Offit K, Nathanson KL, Plon SE. Clinical validity of genes implicated in pheochromocytoma/ paraganglioma. *ClinGen DECIPHER Meeting,* May 2015, Washington, DC.
21. Dwight S, Sneddon TP, Liu K, Dalton K, Tanaka F, Hitz B, Riggs E, Birsoy O, **Buchanan A**, Ghosh R, Strande N, Plon S, Rehm H, Martin C, Berg J, Cherry JM, ClinGen Resource. The ClinGen interface for curating the clinical validity of gene-disease associations:

Specifications and implementation. *American Society of Human Genetics Annual Meeting*, October 2015, Baltimore, MD.

22. Martin SA, Giovanni M, **Buchanan AH**, Barr M, Murray MF. Geisinger GenomeFIRST™ and targeted family history collection. *American Society of Human Genetics Annual Meeting*, October 2015, Baltimore, MD.
23. Barr ML, Giovanni MA, Lindbuchler DM, **Buchanan AH**, Murray MF. Redefining phenotypic assessments for a GenomeFIRST™ future. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting*, March 2016, Tampa, FL.
24. Flansburg CN, Faucett WA, **Buchanan AH**, Barr ML, Giovanni MA, Murray MF. Patient & provider notification of secondary genomic findings in Geisinger's GenomeFIRST™ program. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting*, March 2016, Tampa, FL.
25. Lindbuchler DM, Giovanni MA, Barr ML, **Buchanan AH**, Murray MF. Condition-specific GenomeFIRST™ evaluation for individuals with secondary genomic findings. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting*, March 2016, Tampa, FL.
26. Rahm AK, **Buchanan AH**, Davis FD, Bailey L, Fan A, Fultz K, Williams J, Murray MF. Parental attitudes toward receiving genomic results for adult-onset conditions in healthy children. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting*, March 2016, Tampa, FL.
27. **Buchanan AH**, Giovanni MA, Lindbuchler DM, Martin SA, Barr ML, Murray MF. Genotype-specific family history collection for Geisinger's GenomeFIRST™ program. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting*, March 2016, Tampa, FL.
28. Orlando LA, Myers R, Wu RR, **Buchanan AH**, Ginsburg G, Hauser E. Disease co-inheritance from family health history obtained in primary care. *International Congress of Human Genetics,* April 2016, Kyoto, JP.
29. Faucett WA, Hallquist MLG, Buchanan AH, Cho M, Brothers K, Coughlin CR II, Hercher L, Hudgins L, Jamal S, Kaufman D, Levy H, Peay H, Roche M, Stosic M, Smith M, Uhlmann W, Wain KE, Ormond KE. The ClinGen CADRe rubric: Developing communication strategies for actionable genes. *Curating the Clinical Genome*, June 2016, Cambridge, UK.
30. **Buchanan AH**, Faucett WA, Hallquist M, Cho M, Brothers K, Coughlin II CR, Hercher L, Hudgins L, Jamal S, Levy H, Peay H, Roche M, Stosic M, Smith M, Uhlmann W, Wain K, Ormond KE. Genetic testing for hereditary cancer predisposition: when can a targeted discussion with a non-genetics clinician provide adequate consent? *Annual Education Conference of the National Society of Genetic Counselors*, September 2016, Seattle, WA.
31. Hallquist MLG, **Buchanan AH**, Faucett WA, Cho M, Brothers K, Coughlin II CR, Hercher L, Hudgins L, Jamal S, Levy H, Peay H, Roche M, Stosic M, Smith M, Uhlmann W, Wain K, Ormond KE. Development of tools to determine communication strategies for actionable genes from ClinGen's CADRe Working Group. *Annual Education Conference of the National Society of Genetic Counselors*, September 2016, Seattle, WA.
32. Schwartz ML, **Buchanan AH**, Hallquist MLG, Manickam K, Murray MF. Genotype-first genetic counseling - How general population genome screening has the potential to turn traditional genetics service models upside-down. *Annual Education Conference of the National Society of Genetic Counselors*, September 2016, Seattle, WA.
33. Myers RA, Orlando LA, Wu RR, **Buchanan AH**, Ginsburg GS, Hauser ER. Pleiotropy in complex diseases estimated from family health history collected in primary care. *American Society of Human Genetics Annual Meeting*, October 2016, Vancouver, BC.
34. Dwight S, Wright M, Dalton K, Liu K, Choi M, Tanaka F, Zhen J, Azzariti D, Babb L, Bizon C, Distefano M, Harrison S, Patel R, Pawliczek P, Rooney Riggs E, Strande N, **Buchanan**

A, Ghosh R, Berg J, Bustamante C, Martin C, Milosavljevic A, Plon S, Rehm H, Cherry JM, the ClinGen Consortium. ClinGen's gene and variant curation interface suite: Centralized and consistent evaluation of the clinical relevance of genes and variants. *American Society of Human Genetics Annual Meeting*, October 2016, Vancouver, BC.

35. Manickam K, Hartzel D, Abul-Husn N, Dewey F, Lindbuchler D, Barr M, Lazzeri A, Hallquist M, **Buchanan A**, Faucett WA, Murray M. Penetrance in the EHR record of 76 DiscovEHR Cohort participants with two recurrent pathogenic variants. *American Society of Human Genetics Annual Meeting*, October 2016, Vancouver, BC.
36. Hallquist MLG, **Buchanan AH**, Faucett WA, Cho M, Brothers K, Coughlin II CR, Hercher L, Hudgins L, Jamal S, Levy H, Peay H, Roche M, Stosic M, Smith M, Uhlmann W, Wain K, Ormond KE. Determining critical communication issues for the genetic testing process. *American Society of Human Genetics Annual Meeting*, October 2016, Vancouver, BC.
37. **Buchanan AH**, Rahm AK, Bailey L, Goehringer J, Davis FD, Murray MF. Assessing patients' experience with receiving a result through a genomic screening program. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting,* March 2017, Phoenix, AZ.
38. Lazzeri A, Manickam K, Lindbuchler D, Schwartz MLB, Evans A, **Buchanan AH**, Hallquist M, Nicastro C, Murray MF. Reasons for declining follow-up for 44 patients with incidental genomic findings associated with cancer and cardiovascular risk. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting*, March 2017, Phoenix, AZ.
39. Manickam K, **Buchanan AH**, Lindbuchler D, Schwartz MLB, Lazzeri A, Gorgol L, McCormick CZ, Flansburg C, Hallquist M, Rahm AK, Lowry L, Faucett WA, Giovanni MA, Hartzell D, Kost K, Leader J, Kirchner HL, Abul-Husn N, Dewey F, Austin-Tse C, Mason-Suares H,Metpally R, Carey D, Person T, Ritchie M, Ledbetter D, Murray MF. Characterization of BRCA1 and BRCA2 pathogenic variants from exome sequencing of 50,726 individuals from a single healthcare provider system. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting*, March 2017, Phoenix, AZ.
40. Dwight SD, Wright M, Dalton K, Choi M, Tanaka F, Zhen J, Azzariti D, Babb L, Bizon C, **Buchanan AH**, DiStefano M, Ghosh R, Harrison S, Patel R, Pawliczek, Riggs E, Seifert B, Strande N, Berg J, Bustamante C, Martin C, Milosavljevic A, Plon S, Rehm H, Cherry J. ClinGen's gene and variant curation interface suite: Centralized and consistent evaluation of the clinical relevance of genes and variants. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting*, March 2017, Phoenix, AZ.
41. Wu RR, Myers R, **Buchanan A**, Ginsburg GS, Orlando LA for the IGNITE Implementation, Adoption, and Utility of Family Health History in Diverse Care Settings study team. Implementation and clinical effectiveness of a family history driven risk assessment tool within primary care. *Human Genetics Society of Australasia Annual Meeting*, August 2017, Brisbane, QLD.
42. Rahm AK, Bailey L, Williams JL, Davis FD, Fultz K, Fan A, **Buchanan AH**, Murray MF, Williams MS. Parental attitudes and expectations towards receiving genomic test results in healthy children. *Annual Meeting of the National Society of Genetic Counselors*, September 2017, Columbus, OH.
43. Hallquist MLG, Tricou EP, Savatt JM, Rocha H, Deckard N, Evans A, Fan AL, Faucett WA, Pervola J, Rahm AK, Rashkin M, Schmidlen T, Schwartz MLB, Williams JL, Williams MS, **Buchanan AH**. Genetic counseling assistants in a cancer genetics clinic: Genetic counselor utilization and impact on patient volume. *American Society of Human Genetics Annual Meeting*, October 2017, Orlando, FL.
44. Evans AE, Sturm AC, Frisbie L, Hallquist M, Lazzeri A, Lindbuchler D, Manickam K, Murray MF, McCormick C, Rahm AK, Schmidlen T, Schwartz M, Williams JL, Williams MS, **Buchanan AH**. Cascade testing uptake in first-degree relatives 6 months after MyCode®

clinical result reporting. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting,* April 2018, Charlotte, NC.

45. McMinn MN, Schwartz ML, Bellus G, Manickam K, Ryer E, **Buchanan AH**, Sturm AC, Williams MS. Early detection of aortic aneurysm in patient-participants with *ACTA2* variants identified through a population-based genomic screening and counseling program. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting,* April 2018, Charlotte, NC.

46. Schmidlen T, Schwartz M, Snir M, Snir G, Simmons E, Lazzeri AL, Frisbie L, Wagner JK, Meyer MN, Martin CL, Williams MS, Williams JL, Faucett WA, **Buchanan AH**, Rahm AK, McCormick C, Ledbetter DH, Sturm AC. Using chatbots to facilitate the delivery of scalable genomic counseling. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting,* April 2018, Charlotte, NC.

47. Rocha H, Hallquist MLG, Schwartz M, Hu Y, Sturm A, **Buchanan AH**, Murray M. Clinical findings in nine patients undergoing clinical evaluation following return of secondary findings for endocrine tumor syndromes. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting,* April 2018, Charlotte, NC.

48. Broyhill KL, **Buchanan AH**, Hughes SK, Vu TM, Doyle LE. An analysis of information captured in genetic counseling cancer pedigrees of Hispanic-American patients. *Annual Meeting of the National Society of Genetic Counselors*, November 2018, Atlanta, GA.

49. Hallquist MLG, Rocha R, Rahm AK, Schmidlen TJ, Schwartz MLB, Williams MS, Sturm AC, **Buchanan AH**. Population based genomic screening for Lynch syndrome improves identification and cancer risk reduction. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting,* April 2019, Seattle, WA. Top-rated poster presentation.

50. Martin CL, Ramos E, Rocha H, Schwartz MLB, Barrett KS, **Buchanan AH**, Sturm AC, Willard HF, Ledbetter DH. Implementing population health genomic screening into routine healthcare. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting,* April 2019, Seattle, WA.

51. **Buchanan AH**, Schwartz MLB, Kirchner HL, Schmidlen T, Hallquist MLG, Rocha H, Kelly MA, McMinn M, Schwiter R, Loehr FW, Butry L, Lazzeri A, Frisbie L, Rahm AK, Williams MS, Sturm AC. Impact of a population genomic screening and counseling program on risk management performance and disease diagnosis. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting,* April 2019, Seattle, WA. Top-rated poster presentation.

52. Goldstein J, O'Daniel J, DiStefano M, **Buchanan A**, Ormond K, Rehm H, Berg J. Opinions of ClinGen members on the use of CLinGen clinical validity classifications in genetic testing. *American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting,* April 2019, Seattle, WA.

53. Hallquist MLG, Rocha H, Kirchner HL, Rahm AK, Schmidlen TJ, Schwartz MLB, Williams MS, Sturm AC, **Buchanan AH**. Population based genomic screening for Lynch syndrome: Improving identification of at-risk individuals. *Annual Meeting of the Collaborative Group of the Americas on Inherited Colorectal Cancer (CGA-ICC),* November 2019, Salt Lake City, UT.

54. Schwartz MLB, Rocha HM, Hallquist MLG, Schmidlen TJ, Schwiter RG, Sturm AC, **Buchanan AH**. Characterization of "non-core" cancers in individuals with positive *BRCA1* or *BRCA2* results identified through a large-scale population genomic screening program. *Annual Meeting of the National Society of Genetic Counselors*, November 2019, Salt Lake City, UT.

55. Jones C, Parker A, Warren A, Van Enkevort EA, Gupta M, Lagerman B, Honushefsky AM, Cohain A, Leeming R, Lennon AM, **Buchanan AH**. Mammography adherence among

women with a negative circulating tumor DNA-based early cancer detection test. *Annual Meeting of the American Society of Clinical Oncology*, May 2020, Virtual Meeting.

56. Borensztein M, Hallquist M, Coughlin C II, **Buchanan AH,** Faucett WA, Peay H, Smith M, Tricou E, Uhlmann W, Wain K, Ormond KE. Defining the critical components of informed consent for genetic testing: Views of genetics professionals. *Annual Meeting of the National Society of Genetic Counselors*, November 2020, Virtual Meeting.
57. Savatt JM, Deckard NM, Thone GM, McDonald WS, Alvi MM, Purdy NC, Lindemann TL, Sturm AC, **Buchanan AH**. Experience completing population screening for variants associated with endocrine tumor syndromes in a large, healthcare-based cohort. *ENDO Endocrine Society Annual Meeting*, March 2021, Virtual Meeting.
58. Schwiter R, Rocha H, Johns A, Kelly MA, **Buchanan AH**. Adenoma burden in unselected patients with pathogenic *APC* variants: A MyCode case series. *2022 InSiGHT Biennial Meeting*, September 2022, Jersey City, NJ.
59. Savatt JM, Buoy CJ, Ney SN, Kelsey CR, **Buchanan AH**, Banet N, Kelly MA, Puttagunta R, Ramey R, Fairbrother W, Strande NT. Validation of automated electronic health record (EHR) data capture of hereditary breast and ovarian cancer and Lynch syndrome phenotypes. *American Society of Human Genetics Annual Meeting*, October 2022, Los Angeles, CA. Reviewers' Choice Award (Top 10% of posters)
60. Hunter JE, **Buchanan AH**, Bulkley J, Garcia-Closas M, Goddard KAB, Massimino S, Powell B, Kullo IJ. Considerations in developing a framework for defining clinical actionability of polygenic risk scores. *American Society of Human Genetics Annual Meeting*, October 2022, Los Angeles, CA.
61. Pak CM, Bulkley JE, Chakraborty P, Gilmore MJ, Foreman AKM, Futchi I, Jenkins CL, Katz A, Lee K, Milosavljevic A, O'Daniel J, Posey JE, Shah N, Steiner RD, Stergachis AB, Subramanian SL, Trotter T, Williams MS, **Buchanan AH**, Goddard KAB, Manickam K, Powell BC, Hunter JE. Evidence-based assertions of clinical actionability of secondary findings: Update from the ClinGen Actionability Working Group. *American Society of Human Genetics Annual Meeting*, October 2022, Los Angeles, CA.
62. McCormick CZ, Yu K, Johns A, Campbell-Salome G, Hallquist MLG, Sturm AC, **Buchanan AH**. What's the right amount of "caring"? Investigating psychological impact of receiving genetic results through the MyCode population genomic screening program. *American Public Health Association Annual Meeting*, November 2022, Boston, MA.
63. Hallquist MLG, Savatt JM, Johns A, Kirchner HL, **Buchanan AH**. Colon and endometrial cancer diagnoses in a population-based Lynch syndrome cohort compared to matched controls. *Annual Meeting of the Collaborative Group of the Americas on Inherited Gastrointestinal Cancer.* November 2022, Nashville, TN.

INVITED SCIENTIFIC PRESENTATIONS

Local

Genetic Counseling, Testing and Management for Hereditary Cancer Syndromes		
2005	Duke Oncology Network Annual Education Retreat	Cary, NC
2011	Duke Oncology Symposium	Raleigh, NC
2013	Duke Raleigh Nursing CME Program	Raleigh, NC
2014	Duke Cancer Network Webinar	Durham, NC
2014	Managing Hereditary Cancer in Community Practice	Cary, NC
2014	Duke Oncology Nursing CME Program	Durham, NC
2015	Geisinger Health System GenomeFIRST Hereditary Breast and Ovarian Cancer Syndrome Symposium	Forty Fort, PA
Precision Health – Genomic Screening and Counseling		
2021	Geisinger Commonwealth School of Medicine Grand Rounds	Virtual

2021	Geisinger Women's and Children's Institute Research Grand Rounds	Virtual
2021, 2022	Geisinger Commonwealth School of Medicine Abigail Scholars	Virtual
2022	Geisinger Clinical Research Grand Rounds	Danville, PA
	Patient Engagement in Research and Clinical Care	
2016	Symposium on enhancing patient- and family-centered care through learning, engagement and discovery	Danville, PA

Regional

	Genetic Counseling, Testing and Management for Hereditary Cancer Syndromes	
2005	North Carolina Medical Genetics Association	Durham, NC
2009	North Carolina Medical Genetics Association	Winston-Salem, NC
2010	Duke Oncology Network Annual Retreat	Durham, NC
2010	2nd Annual Scotland Cancer Treatment Center Cancer Symposia	Laurinburg, NC
2011	Area L AHEC 7th Annual Cancer Symposium	Wilson, NC
2011	Beaufort Memorial Hospital Oncology Symposium	Beaufort, SC
2011	3rd Annual Scotland Cancer Treatment Center Symposia	Laurinburg, NC
2012	Augusta Health Nursing In-Service	Fishersville, VA
2012	Augusta Health Surgical In-Service	Fishersville, VA
2013	Indian River Medical Center CME Program	Vero Beach, FL
2014	Indian River Medical Center CME Program	Vero Beach, FL
2014	Memorial Hospital of Martinsville & Henry County CME Program	Martinsville, VA
2015	Danville Memorial Hospital CME Program	Danville, VA

National

	Precision Health – Genomic Screening and Counseling	
2016	Duke University School of Medicine Genomics Forum	Durham, NC
2017	The National Academies of Science, Engineering and Medicine, Return of Individual-Specific Research Results Generated in Research Laboratories	Washington, DC
2020	Centers for Disease Control, Genomics & Precision Health Webinar	Virtual
2021	American Society of Human Genetics Continuing Education Webinar	Virtual
2022	National Human Genome Research Institute, Genomic Medicine XIV: Genomic Learning Healthcare Systems	Virtual
	Family Health History-Based Clinical Decision Support	
2017	North Carolina Healthcare Information & Communications Alliance Annual Conference	Durham, NC
2019	UF Precision Medicine Conference	Orlando, FL
	Alternate Service Delivery Models	
2019	Stanford University Genetic Counseling Program	Virtual

International

	Precision Health – Genomic Screening and Counseling	
2015	Frontline Genomics Festival of Genomics	San Francisco, CA

2021	BRCA 2021 – A Vision of the Future: The Eighth International Symposium on Hereditary Breast and Ovarian Cancer	Virtual
2022	Frontline Genomics Festival of Genomics & Biodata	Virtual
2022	Journal Club of the Departments of Clinical Genetics of Guy's and St. Thomas's NHS Foundation Trust and St. George's University Hospitals NHS Foundation Trust	Virtual
	Alternate Service Delivery Models in Genetic Counseling	
2018	BRCA – From the Personal to the Population: The Seventh International Symposium on Hereditary Breast and Ovarian Cancer	Montreal, QC
	Reporting Adult-Onset Genomic Results to Children and Families	
2018	BRCA – From the Personal to the Population: The Seventh International Symposium on Hereditary Breast and Ovarian Cancer	Montreal, QC

INVITED PROFESSIONAL PRESENTATIONS

National

	Leading Research as a Genetic Counselor	
2019	American Society of Human Genetics 2019 Annual Meeting	Houston, TX
2019	Annual Meeting of the National Society of Genetic Counselors	Salt Lake City, UT
2021	University of North Carolina – Greensboro Genetic Counseling Program	Virtual
	Keynote Speaker	
2022	Commencement Ceremony, The Ohio State University Genetic Counseling Program	Columbus, OH

INVITED COMMUNITY PRESENTATIONS

Regional

	Genetic Counseling, Testing and Management for Hereditary Cancer Syndromes	
2004	Scotland County Cancer Support Group	Laurinburg, NC
2005	Person Memorial Hospital's "Health Night Out"	Roxboro, NC
2005	Southeastern Regional Medical Center's Monthly Educational Series	Lumberton, NC
2007	Southeastern Regional Medical Center's Monthly Educational Series	Lumberton, NC
2008	Maria Parham Medical Center's Lunch & Learn Series	Henderson, NC
2009	Morehead Memorial Hospital's Medical Staff Series	Eden, NC
2012	Augusta Health's Lunch & Learn Series	Fishersville, VA
2013	Indian River Medical Center	Vero Beach, FL

PROFESSIONAL SERVICE – PEER REVIEW

Editorial Activities:

2014 - present *Journal of Genetic Counseling*

- Member, Editor Search Committee, 2016-2017

- Section Editor – Public Health, Policy, and Access & Service Delivery, 2018-2021

2021 - 2022 *Journal of Personalized Medicine*

- Guest Editor, Special Issue: Precision Medicine in Clinical Practice

2022 - present *Genetics in Medicine/Genetics in Medicine Open*

- Member, Editorial Advisory Committee

Grant Proposal Reviewer:

2019 American Board of Genetic Counseling

- *Research Committee*

2020 - present Geisinger Health Research Institute

- *Scientific Review Committee*

2021 (twice) National Institutes of Health

- *Societal and Ethical Issues in Research (SEIR)*

2021 - present National Society of Genetic Counselors

- *Jane Engelberg Memorial Foundation Advisory Group*

2021 - present Bucknell Geisinger Research Institute

Ad Hoc Manuscript Reviewer:

2003	*Journal of Health Care for the Poor & Underserved*
2003, 2004, 2006	*Cancer Epidemiology Biomarkers & Prevention*
2005-2008	*American Journal of Preventive Medicine*
2006, 2011, 2015-2017, 2019, 2021, 2022	*Journal of Genetic Counseling*
2008-2011, 2016-2019, 2021, 2022	*Genetics in Medicine*
2009	*Genetic Testing*
2012	*JAMA*
2015	*BMC Cancer*
2016, 2019, 2020, 2023	*JAMA Oncology*
2020	*Breast Cancer Research and Treatment*
2020	*European Journal of Human Genetics*
2020	*Annals of Internal Medicine*
2020	*Journal of the National Comprehensive Cancer Network*
2021	*Journal of Community Genetics*
2021	*Health Affairs*
2021, 2022	*Genome Medicine*
2021	*BMJ Open*
2022	*Frontiers in Genetics*
2022	*PEC Innovation*
2023	*Journal of Personalized Medicine*

Professional Meeting Abstract Reviewer:

2007 – 2009 National Society of Genetic Counselors Annual Conference

2019, 2021 Annual Conference on the Science of Dissemination and Implementation

Professional Meeting Planning Committee:

2022 National Academies of Sciences, Engineering and Medicine, *Workshop on Considerations for Returning Individual Genomic Results from Population-*

Based Surveys: Focus on the National Health and Nutrition Examination Survey.

PROFESSIONAL SERVICE – MENTORING AND TRAINING

Academic Lectures:

Genetic Counseling, Testing and Management for Hereditary Cancer Syndromes		
2004 – 2007 (annually)	International Genetics Training Program	Duke University Medical Center
2005-2013 (annually)	Oncology/ HIV AIDS Nursing I: Epidemiology and Pathophysiology class	Duke University School of Nursing, Graduate School
2007, 2009, 2011, 2013	Board Review Course	Duke University Medical Center
2006	Cancer Biology class	North Carolina Central University, Department of Biology
2007	Introduction to Health Psychology class	Duke University
2014	Clinical Medicine class	Duke University Physician Assistant Program
2014	OB-GYN Residency Program	Duke School of Medicine
Precision Health – Genomic Screening and Counseling		
2015	Genome Sciences & Policy course	Duke University
2016, 2018	Genetic Counseling Graduate Program	University of North Carolina – Greensboro
2016	Physician Assistant Program	Misericordia University
Alternate Service Delivery Models in Genetic Counseling		
2019	Genetic Counseling Graduate Program	Stanford University
Leading Research as a Genetic Counselor		
2019, 2021	Genetic Counseling Graduate Program	University of North Carolina – Greensboro

Clinical Supervision (Clinical Cancer Genetics Rotation, Duke Cancer Institute):

2006-2014	Graduate Genetic Counseling Program	University of North Carolina – Greensboro
2007	Graduate Genetic Counseling Program	The University of South Carolina
2009	Graduate Genetic Counseling Program	Northwestern University

Student Mentoring:

2007 Duke University Nurse Practioner Program Independent Study Coordinator

- *Clinical Cancer Genetics,* Kristi Wiggins

2007 – 2018 (select years) University of North Carolina – Greensboro Genetic Counseling Program Thesis Advisor

- *Patient perceptions of usefulness of cancer genetic counseling summary letters,* Emily Rettner, 2007-2008 (Chair)

- *Genetics professionals' attitudes regarding licensure of genetic counselors*, Michelle Burch, 2011-2012
- *Application of the NSGC Practice Guidelines for Hereditary Breast and Ovarian Cancer Genetic Counseling to Male Patients*, Kati Joseph, 2012-2013
- *How Much Information is Captured on Cancer Pedigrees of Hispanic Americans As Compared to Caucasian Americans: A Genetic Counseling Pedigree Analysis Study*, Katie Broyhill, 2017-2018

2019 – 2020 Sarah Lawrence Genetic Counseling Program Thesis Advisor

- *Psychosocial outcomes for DETECT ctDNA testing*, Gabrielle Shermanski and Simone Biggers, 2019-2020 (Chair)

2019 – 2022 Rutgers University Genetic Counseling Program Thesis Advisor

- *Comparing Patient Experiences with a Li-Fraumeni syndrome Diagnosis through Different Ascertainment Methods*, Julia Weston, 2019-2020 (Chair)
- *Patient Perspectives and Reactions to Unanticipated Positive Test Results via Population Genomic Screening Efforts: A Qualitative Study,* Eva Vailionus, 2020-2022 (Chair)

Geisinger Junior Faculty Mentoring Committee:

2020 – 2022 Laney Jones, PharmD, MPH, Assistant Professor, Department of Genomic Health (promoted to Associate Professor in December 2022)
2021 – present Natasha Strande, PhD, Assistant Professor, Precision Health
2021 – 2022 Marina DiStefano, PhD, Assistant Professor, Precision Health
2021 – present Gemme Campbell-Salome, PhD, Assistant Professor, Department of Genomic Health

Geisinger Genetic Counseling Staff Mentoring Committee:

2020 – present Miranda Hallquist, MSc, Senior Genetic Counselor, Department of Genomic Health
2022 – present Kelly Morgan, MS, Genetic Counselor II, Department of Genomic Health

External Professional Mentoring:

2017 – present *National Society of Genetic Counselors*, Mentor Program

Professional Search Committee:

2021 – present *Geisinger Commonwealth School of Medicine Genetic Counseling Program*

- Program Director Search Committee

PROFESSIONAL SERVICE – LEADERSHIP

2008-2014 *National Society of Genetic Counselors*

- Research Subcommittee, Familial Cancer Risk Counseling SIG, Co-Chair 2008-2011
- Familial Cancer Risk Counseling SIG, Treasurer 2011-2013
- Practice Guidelines Committee, 2012-2014
  Vice Chair, 2012

Chair, 2013
Past Chair, 2014

2017-2020 *American Board of Genetic Counseling*
- Board of Directors, 2017-2020
- President-Elect, 2019
- President, 2020

PROFESSIONAL MEMBERSHIPS

2002 – present *National Society of Genetic Counselors*
- Familial Cancer Risk Counseling Special Interest Group (SIG), 2004-present
- Award Subcommittee, 2009-2010
- Service Delivery Task Force, Access and Service Delivery Committee, 2010-2012
- Personalized Medicine SIG, 2013-present
- Research SIG, 2013-present
- Cardiovascular Genetics SIG, 2015-present
- Outcomes Task Force, 2016-2018
- Pathways to Genetic Counselors Task Force, 2019-2020

2005 – present *American Board of Genetic Counseling* (diplomate)
- Item Writer – Certification Examination, 2014-2015

2011 – present *American College of Medical Genetics & Genomics*
2015 – 2022 *Geisinger's Patient Engagement Working Group*
2020 – present *Society of Behavioral Medicine*
2022 – present *Geisinger's MyCode Community Health Initiative Governing Board*