Michele C. Gornick, PhD, MA
Research Investigator
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Education and Training

Education

09/1998-05/2002	BS, Biochemistry and Molecular Biology, Pennsylvania State University, State College, PA
09/2006-12/2011	PhD, Human Genetics, University of Michigan, Ann Arbor, MI
09/2009-12/2011	MA, Department of Statistics, University of Michigan, Ann Arbor, MI

PostDoctoral Training

09/2012-06/2014	Postdoctoral Fellow, Center for Bioethics and Social Science in Medicine, University of Michigan, Ann Arbor, MI
12/2012-12/2014	Postdoctoral Research Fellow, Genetics, VA Health Science Research & Development, Ann Arbor, MI

Academic, Administrative, Clinical and Military Appointments

Academic Appointments

09/2003-06/2006	Research Experience, National Institute of Mental Health, Bethesda, MD
01/2012-07/2016	Research Health Science Specialist, VA Ann Arbor Healthcare System, Ann Arbor, Michigan
07/2014-present	Research Investigator, University of Michigan, Ann Arbor, MI

Industry

09/2000-06/2001	Research Assistant, GlaxoSmithKline Pharmaceuticals, Collegeville, PA
09/2002-05/2003	Research Assistant, University of Pittsburgh, Pittsburgh, PA

Research Interests

- Making genetic risk information meaningful and useful for decision making by patients and the public
- Research in use of genomic information to identify clinical trials for patients with advanced stage disease
- Translating genomic risk information to health care providers to improve integration into patient care

Grants

Current Grants

Veterans' view on decisional trade-offs during consent Department of Veteran Affairs, National Center for Ethics in Health Care (NCEHC)- 18-PAF00987
Gornick, Michele Caroline, PI
09/2017-09/2018. $40,000

N023732: Patient and Provider Perspectives on Personalized Head & Neck Cancer Care American Head and Neck Society- 17-PAF03929
Co-I with Effort (Principal Investigator: Shuman, Andrew Gregg)
07/2017-06/2019. $50,000 ($20,000)

Submitted Grants

Intervention to Improve Primary Care Provider - Parent Communication about Newborn Screening Out-Of-Range Results SubK-HRSA-DHHS-US through a consortium with University of Iowa- 18-PAF04086
Gornick, Michele Caroline, PI
07/2018-06/2021. $24,040

Unresolved Issues in Newborn Screening: Quantifying the Harms of a False Positive Result SubK-NIH-DHHS-US through a consortium with University of Iowa- 17-PAF07551
Co-I with Effort (Principal Investigator: Prosser, Lisa)
04/2018-03/2023. $226,034

Past Grants

Eliciting veterans' preferences for consent to sharing their data outside of the VA Department of Veteran Affairs, National Center for Ethics in Health Care (NCEHC)- 18-PAF01177
Gornick, Michele Caroline, PI
09/2016-11/2017. $40,000

Developing novel methods for communicating genomic test results into precision medicine practice Michigan Institute for Clinical and Health Research, University of Michigan
Gornick, PI
09/2014-09/2016. $100,000

4 UM1 HG006508-04: Exploring Precision Cancer Medicine for Sarcoma and Rare Cancers, (Co-investigator on Project 3) NIH-DHHS-US- 12-PAF06387
Co-I without Effort (Principal Investigator: Chinnaiyan, Arul M;Roberts, Scott)
07/2013-06/2017. $7,933,191 ($1,992,227)

Memberships in Professional Societies

2007-2008	Member, Admissions Committee, Department of Human Genetics
2007-2013	Member, Women in Science and Engineering
2008-2010	Member, Graduate Student Council, Rackham Graduate School
2010-2013	Member, Women in Cancer Research, Associate Member
2012-present	Member, American College Medical Genetics, Member
2014-present	Member, Society for Medical Decision Making, Member

Editorial Positions, Boards, and Peer-Review Service

Journal Reviewer

2014	American Journal of Human Genetics European Journal of Medical Genetics Health Psychology
2015-present	American Journal of Bioethics
2016-present	Heath Expectations
2016	Pediatrics (Ad Hoc)
2018	JAMA: Oncology

Teaching Activity

Regional

2007-2010	Diversity and Career Development Genetics Lab, Summer Science Academy, Program Director of the Genetics Lab, University of Michigan
2015-present	Genomics Forum: Unexpected information from having your genome sequenced. University of Michigan
2018-present	Iowa Department of Public Health Community Deliberation Event on Newborn Screening. Des Moines, IA

Institutional

2008-present	Fundamentals of Statistical and Population Genetics, Department of Human Genetics, University of Michigan
2010-present	Intro to Genetics, Department of Molecular Cellular and Developmental Biology, University of Michigan

2011-present	Guest Lecturer: Genomics and Epigenomics in Environmental Health, Current Methods for Genome Sequencing, University of Michigan
2013-present	Guest Lecturer: Issues in Public Health Ethics, Ethical Challenges and Considerations: Direct to Consumer Genetic Testing, University of Michigan
2016-present	Guest Lecturer: "Genetic Discrimination," Genetics, Health Behavior & Health Education, University of Michigan, School of Public Health.
2017-present	Guest Lecturer: "Genetic Discrimination," Genetics, Health Behavior & Health Education, University of Michigan, School of Public Health
2018-present	Course Instructor (co-led with Kayte Spector-Bagdady, JD MBE): "Legal Rules and Ethical Issues for Clinical Research at University of Michigan School of Public Health
2018-present	Guest lecturer: "Responsible Conduct of Research for K Grant Awardees" at Michigan Institute for Clinical & Health Research, University of Michigan
2018-present	Guest lecturer: "Clinical and Research Ethics" at University of Michigan College of Pharmacy

Visiting Professorships and Extramural Invited Presentations

Extramural Invited Presentations

1. "From SNPs to Genomes: The Next Generation of Genetics", National Institutes of Health, December 2009, Bethesda, MD
2. "From SNPs to Genomes: The Next Generation of Genetics", National Institutes of Health, January 2010, Bethesda, MD
3. "Oncologists' use of genomic sequencing data to inform clinical management", Clinical Sequencing Exploratory Research (CSER) Meeting, September 2016, Bethesda, MD
4. "Practioner Education Working Group Update: Genomics Toolkit for non-genetics health care providers", Clinical Sequencing Exploratory Research (CSER) Meeting, February 2017, Bethesda, MD

Other

1. "From Genomes to Variants:The Second Generation of Genetics", Human Genetics Department, University of Michigan, December 2009, Ann Arbor, MI
2. "Clinical Applications of Next Generation Genetics", Cancer Epidemiology Working Group, University of Michigan, December 2009, Ann Arbor, MI
3. "From Genomes to Variants: The Second Generation of Genetics", Human Genetics Department, University of Michigan, January 2010, Ann Arbor, MI
4. "Clinical Applications of Next Generation Genetics", Cancer Epidemiology Working Group, University of Michigan, January 2010, Ann Arbor, MI
5. "Current Methods for Genome Sequencing", Genomics and Epigenomics in Environmental Health, University of Michigan, March 2011, Ann Arbor, MI
6. "The 'Incidentalome': Unanticipated ethical challenges uncovered in our genomes", Center for Bioethics Social Science and Medicine Seminar Series, University of Michigan, December 2012, Ann Arbor, MI
7. "Do non-welfare interest play a role in willingness to donate to biobanks?", Center for Bioethics Social Science and Medicine Research Colloquium, University of Michigan, April 2013, Ann Arbor, MI
8. "Incidental Findings in Genomic Medicine: The Problem with Having Too Much Information", Center for Bioethics Social Science and Medicine Seminar Series, University of Michigan, November 2013, Ann Arbor, MI

Bibliography

Peer-Reviewed Journals and Publications

1. Addington AM, **Gornick MC**, Sporn A, Gogtay N, Greenstein D, Lenane M, Gochman P, Ballkission R, Weinberger DR, Straub RE, Rapoport JL: Polymorphisms in the 13q33.2 gene G72/G30 are associated with childhood onset schizophrenia and psychosis Biol Psychiatry 55(10): 976-980, 2004.
2. Sporn A, Addington AM, Gogtay N, Ordonez A, **Gornick MC**, Clasen L, Greenstein D, Tossell J, Gochman P, Lenane M, Straub RE, Rapoport JL: Pervasive Developmental Disorder and Childhood Onset Schizophrenia: Comorbid Disorder or a Phenotypic Variant? Biol Psychiatr 55(10): 989-994, 2004.

3. Bobb AJ, Addington AM, **Gornick MC**, Wavrant-DeVrieze F, Greenstein D, Sharp W, Clasen LS, Gochman P, Lenane M, Sidransky E, Straub RE, Castellanos FX, Hardy J, Rapoport JL: Support for association between ADHD and two candidate genes: NET1 and DRD1 Am J Med Genet B Neuropsychiatr Genet 2005 Apr 5;134(1):67-72 134B(1): 67-72, 2005.
4. Addington AM, **Gornick MC**, Sporn A, Gogtay N, Greenstein D, Lenane M, Gochman P, Ballkission R, Weinberger DR, Straub RE, Rapoport JL: Polymorphisms in 2q31.1 gene GAD1, which encodes glutamic acid decarboxylase (GAD67), are associated with childhood onset schizophrenia Mol Psychiatry 10(6): 581-588, 2005.
5. **Gornick MC,** Addington AM, Sporn A, Gogtay N, Greenstein D, Lenane M, Gochman P, Ordonez A, Ballkission R, Weinberger DR, Straub R, Rapoport JL: Dysbindin (DTNBP1, 6p22.3) is associated with childhood onset psychosis and endophenotypes measured by the Premorbid Adjustment Scale (PAS) J Autism Dev Disord 35(6): 831-838, 2005.
6. Mattai A, Tossell J, Greenstein D, Addington A, Clasen S, **Gornick MC**, Seal J, Inoff- Germain G, Gochman P, Lenane M, Rapoport J and Gogtay N: Sleep Disturbances in Childhood-Onset Schizophrenia Accepted Schizophr Res. 2006 86(1-3): 123-129, 2006.
7. Seal JL, **Gornick MC**, Gogtay N, Shaw P, Greenstein DK, Coffey M, Gochman PA, Stromberg T, Chen Z, Merriman B, Nelson SF, Brooks J, Arepalli S, Wavrant-De Vrieze F, Hardy J, Rapoport JL, Addington AM: Segmental uniparental isodisomy on 5q32-qter in a patient with childhood-onset schizophrenia J Med Genet. 2006 Nov;43(11):887-92 43(11): 887-892, 2006. PMCID: 2563188
8. Addington AM, **Gornick MC**, Shaw P, Gogtay N, Bobb A, Greenstein D, Clasen L, Lenane M, Gochman P, Rapoport JL: Neuregulin (NRG1): Susceptibility Haplotypes and Neurodevelopment in Childhood Onset Schizophrenia Mol Psychiatry 12(2): 195-205, 2007.
9. **Gornick MC**, Addington A, Shaw P, Bobb AJ, Sharp W, Greenstein D, Arepalli S, Castellanos FX, Rapoport JL: Association of the dopamine receptor D4 (DRD4) gene 7- repeat allele with children with attention-deficit/hyperactivity disorder (ADHD): An update Am J Med Genet B Neuropsychiatr Genet 144B (3): 379-382, 2007.
10. Shaw P, **Gornick MC**, Lerch J, Addington A, Seal J, Greenstein D, Sharp W, Evans A, Giedd J, Castellanos FX, Rapoport JL: Polymorphisms of the dopamine D4 receptor, clinical outcome and cortical structure in attention-deficit/ hyperactivity disorder Arch Gen Psychiatry 64(8): 921-931, 2007.
11. **Gornick MC**, Castellsague X, Sanchez G, Giordano T, Vinco M, Greenson JK, Capella G, Raskin L, Rennert G, Gruber SB, Moreno V: Human Papillomavirus is Not Associated with Colorectal Cancer in a Large International Study Cancer Causes and Control 21(5): 737-743, 2010. PMCID: 4269349
12. **Gornick MC**, Rennert G, Moreno V, Gruber SB: Adiponectin Gene and Risk of Colorectal Cancer Br J Cancer 105(4): 562-564, 2011. PMCID: 3170961
13. Samadder NJ, Gornick MC, Everett J, Greenson JK, Gruber SB . 2013 Apr 1;7(3):e103-7: Inflammatory bowel disease and familial adenomatous polyposis J Crohns Colitis 7(3): e103-e107, 2013.
14. Jarvik GP, Amendola LM, Berg JS, Brothers K, Clayton EW, Chung W, Evans BJ, Evans JP, Fullerton SM, Gallego CJ, Garrison NA, Gray SW, Holm IA, Kullo IJ, Lehmann LS, McCarty C, Prows CA, Rehm HL, Sharp RR, Salama J, Sanderson S, Van Driest SL, Williams MS, Wolf SM, Wolf WA; eMERGE Act-ROR Committee and CERC Committee; CSER Act-ROR Working Group, Burke W.: Return of genomic results to research participants: the floor, the ceiling, and the choices in between Am J Hum Genet 94(6): 818-826, 2014.
15. **Gornick MC**, Ryan KA, Kim SY: Impact of non-welfare interests on willingness to donate to biobanks: An experimental survey J Empir Res Hum Res Ethics 9(4): 22-33, 2014. PMCID: 5558242
16. Gray SW, Martins Y, Feuerman LZ, Bernhardt BA, Biesecker BB, Christensen KD, Joffe S, Rini C, Veenstra D, McGuire AL: CSER Consortium Outcomes and Measures Working Group. Social and behavioral research in genomic sequencing: approaches from the Clinical Sequencing Exploratory Research Consortium Outcomes and Measures Working Group Genet Med 16(10): 727-735, 2014.
17. Ostergren JE, **Gornick MC**, Kalia S, Uhlmann W, Ruffin, Chen C, Green RC, Roberts JS: How Well Do Customers of Direct-to-Consumer Personal Genomic Services Understand Genetic Test Information? An Assessment of Risk Comprehension Public Health Genomics 18(4): 216-224, 2015. PMCID: 4926310

18. O'Daniel JM, McLaughlin HM, Amendola LM, Bale SJ, Berg JS, Bick D, Bowling KM, Chao EC, Chung WK, Conlin LK, Cooper GM, Das S, Deignan JL, Dorschner MO, Evans JP, Ghazani AA, Goddard KA, **Gornick MC**, Farwell Hagman KD, Hambuch T, Hegde M, Hindorff LA, Holm IA, Jarvik GP, Knight Johnson A, Mighion L, Morra M, Plon SE, Punj S, Richards CS, Santani A, Shirts BH, Spinner NB, Tang S, Weck KE, Wolf SM, Yang Y, Rehm HL: A survey of current practices for genomic sequencing test interpretation and reporting processes in US laboratories Genetics in Medicine 19(5): 575-582, 2016. PMCID: 5415437
19. Roberts JS, Gornick MC, Green RC: Direct-to-consumer genetic testing: User motivations, decision making, and perceived utility of results Public Health Genomics 21(1): 36-45, 2017.
20. **Gornick MC**, Scherer AM, Sutton EJ, Ryan KA, Exe NL, Li M, Uhlmann WR, Kim SY, Roberts JS, De Vries RG: Effect of Public Deliberation on Attitudes toward Return of Secondary Results in Genomic Sequencing J Genet Couns 26(1): 122-132, 2017. PMCID: 5161735
21. Ryan KA, De Vries RG, Uhlmann WU, Roberts JS, **Gornick MC***: Public's Views toward Return of Secondary Results in Genomic Sequencing: It's (Almost) All About the Choice J Genet Couns 26(6): 1197-1212, 2017. PMCID: 5620108
22. Tarini, **Gornick MC**, Uhlmann W, Zikmund-Fisher BJ: Family History Collection Practices: National Survey of Pediatric Primary Care Providers Clin Pediatr 57(5): 537-546, 2018.
23. Spector-Bagdady K, De Vries RG, **Gornick MC**, Shuman AG, Kardia S, Platt J: Encouraging Participation And Transparency In Biobank Research Health Affairs (Millwood) 37: 1313-1320, 2018. PMID: 30080467
24. **Gornick MC**, Cobain EC, Le LQ, Bartnik NM, Stoffel E, Schuetze S, Talpaz M, Chinnaiyan A, Roberts JS: Oncologists' use of genomic sequencing data to inform clinical management [Epub ahead of print]. (In Press)
25. **Gornick MC**, Kurian A, An L, Fagerlin A, Jagsi R, Katz SJ, Hawley ST: Knowledge about and patterns of genetic testing in newly diagnosed breast cancer patients participating in the iCanDecide Trial Cancer. (In Press)
26. **Gornick MC,** Ryan KA, Scherer A, Roberts JS, DeVries R, Uhlmann W: What you mean is not what I heard: Interpretations of the term "medically actionable" Journal of Genetic Counseling. (In Press)

Submitted

1. Gornick MC, Ryan KA, Sutton E, DeVries R: Molecular tumor board members' views about the overlap of research and clinical management in precision oncology Journal of Community Genetics. (Submitted)
2. **Gornick MC**, Exe N, Larkin K, Magoc E, Roberts JS, Tarini BA, Stoffel E, Saini S, Fagerlin A, Zikmund-Fisher BJ: Lack of reassurance from negative genetic test results in the context of family history Journal of Community Genetics. (Submitted)

Book Chapters

1. J. Scott Roberts, Michele C. Gornick

   : Ethical, legal, and social implications of precision cancer medicine. Precision Cancer Medicine: Challenges and Opportunities, Sameek Roychowdhury, Eliezer Van Allen, Wendy Yang, Michael F. Berger, Nathanael D. Moore, Parastou Ghazi, Eliezer M. Van Allen, Senthil Damodaran, Jennifer A. Woyach, Jonathan J. Havel, Alexandra Snyder, Jessica N. Everett, Victoria M. Raymond, Daniel Zainfeld, Umair Ghani, Irene Kang, Angelica Ochoa, Nikolaus Schultz Springer, Present.

Abstracts

1. **Gornick MC**, Addington AM, Sporn A, Gogtay N, Greenstein D, Lenane M, Gochman P, Ballkission R, Weinberger DR, Straub R, Rapoport JLBobb AJ, Addington AM: Polymorphisms in dysbindin (DTNBP1) are associated with intermediate phenotypes measured by the Premorbid Adjustment Scale (PAS) in cases of childhood onset psychosis, Poster presentation at American Society of Human Genetics Conference, Los Angeles, California, 2003.
2. **Gornick MC**, Addington AM, Sporn A, Gogtay N, Greenstein D, Lenane M, Gochman P, Ballkission R, Weinberger DR, Straub R, Rapoport JL: Dysbindin (DTNBP1, 6p22.3) is associated with childhood onset psychosis and endophenotypes measured by the Premorbid Adjustment Scale (PAS), Poster presentation at World Congress of Psychiatric Genetics, Dublin, Ireland, 2004.

3. **Gornick MC**, Addington AM, Bobb AJ, Sharp W, Greenstein D, Shaw P, Kaleem MA, Hardy JA, Castellanos F, and Rapoport JL: Association of the Dopamine Receptor D4 (DRD4) Gene 7-Repeat Allele with Children with Attention-Deficit/Hyperactivity Disorder (ADHD): An update, A poster presentation at National Institutes of Mental Health, Intramural Research Conference, Washington, D.C., 2005.
4. **Gornick MC**, Addington AM, Bobb A, Sporn A, Gogtay N, Greenstein D, Lenane M, Gochman P, Straub RE, and Rapoport: Overview of Candidate Gene Studies in The NIMH Childhood-Onset Schizophrenia Sample, Poster presentation at World Congress of Psychiatric Genetics, New Orleans, Louisiana, 2005.
5. **Gornick MC**, Moller SA, Bradford C, Gruber SB: Acinic Cell Carcinoma of the Head and Neck: Risk Factors, Family History, Incidence Trends and Survical, Poster presentation at Cancer Research Symposium, University of Michigan, Ann Arbor, Michigan, 2007.
6. **Gornick MC**, Castellsague X, Sanchez G, Giordano T, Vinco M, Greenson JK, Capella G, Raskin L, Rennert G, Gruber SB, Moreno V: Human Papillomavirus is not associated with colorectal cancer in a large international study, Poster presentation at Internal Medicine Annual Research Day, University of Michigan, Ann Arbor, Michigan, 2008.
7. **Gornick MC**, Xu J, Li J, Gruber SB: Genome-wide analysis of copy number alterations in colorectal cancer, A poster presentation at the American Society of Human Genetics annual meeting, Bethesda, Maryland, 2009.
8. **Gornick MC**, Xu J, Li J, Gruber SB: Copy number alterations and gene expression in colorectal cancer, Cancer Research Symposium, University of Michigan, Ann Arbor, Michigan, 2009.
9. **Gornick MC**, Xu J, Li J, Gruber SB: Identification of Gene for Hereditary Mixed Polyposis Using Next Generation Sequencing, A poster presentation at Cancer Research Symposium, University of Michigan, Ann Arbor, Michigan, 2010.
10. **Gornick MC**, Xu J, Li J, Gruber SB: Using Whole-Genome Sequencing to Identify Candidate Gene for Hereditary Mixed Polyposis, A poster presentation at Colon Cancer in Murine Models and Humans III, The Jackson Lab, Bar Harbor, Maine, 2010.
11. **Gornick MC**, Shakour S, Li J, Rennert G, Gruber SB: Identification of shared regions of genetic susceptibility to breast cancer in Arab and Jewish women with a family history of consanguinity, A poster presentation at the American Association for Cancer Reseach annual meeting., Orlando, Florida, 2011.
12. **Gornick MC**, Everett, J, Roberts JS, Kim SY: What is an Incidental Finding in the Genomic Era?, A poster presentation at American College of Medical Genetics and Genomics Meeting, Phoenix, Arizona, 2013.
13. **Gornick MC**, Roberts JS, Kim SY: Do truly "incidental" findings exist in genomic medicine?, American Society of Bioethics and Humanities Annual Meeting, Atlanta, Georgia, 2013.
14. **Gornick MC**, Fagerlin A, Exe NL, Larkin K, Magoc E, Zikmund-Fisher BJ: Failure of negative genetic test results to reassure both patients and clinicians in the context of family history, A poster presentation at American College of Medical Genetics and Genomics Meeting, Nashville, Tennessee, 2014.
15. **Gornick MC**, Fagerlin A, Exe NL, Larkin K, Magoc E, Zikmund-Fisher BJ: Decreasing Veterans Desire for Early Repeat Colonoscopies, A poster presentation at Society for Medical Decision Making, Miami, Florida, 2014.
16. **Gornick MC**, Bartnik N, Le LQ, Chinnaiyan A, Roberts JS for the MI-ONCOSEQ Study: Precision medicine: Why, how and when oncologists disclose genome sequencingresults in clinical practice, A poster presentation at the Annual Clinical Genetics Meeting, Salt Lake City, Utah, 2015.
17. **Gornick MC**, Sutton EJ, Exe N, Ryan KA, Scherer A, Uhlmann W, Roberts JS, Kim SY and De Vries R: The public's preferences for the return of secondary findings identified through genome sequencing: Information and deliberation, An oral presentation at The American College of Medical Genetics and Genomics', Salt Lake City, Utah, 2015.
18. **Gornick MC**, Sutton EJ, Exe N, Ryan KA, Scherer A, Uhlmann W, Roberts JS, Kim SY and De Vries R: Information and deliberation lead to shifts in public's preferences for policies regarding the return of secondary findings identified through genome sequencing., An oral presentation at the American Society for Bioethics and Humanities, Houston, Texas, 2015.
19. **Gornick MC**, Le LQ, Bartnik N, Roberts JS: Cancer Patients' Expectations of Benefits from Genome Sequencing are Not Matched by Post-test Results: Findings from the MI-ONCOSEQ Study, An oral presentation at The American College of Medical Genetics and Genomics, Tampa, Florida, 2016.
20. **Gornick MC**, Ryan KA, Stoffel E, Roberts JS, Zikmund-Fisher BJ: Development of a genomic test report for oncologists, A poster presentation scoring the highest ranking at the Annual Clinical Genetics Meeting Program Committee, Phoenix, Arizona, 2017.

21. **Gornick MC**, Fogila MB, Ryan KA, Soleymani-Lehmann L: Big Data:Use of Deliberative Democracy to Elicit Patient Perspectives on Sharing Personal Health Information with Commercial Enterprises, Oral presentation at American Society for Bioethics and Humanities, Kansas City, Kansas, 2017.
22. **Gornick MC**, Kurian A, An L, Fagerlin A, Jagsi R, Katz S, Hawley ST: Improved Knowledge about Genetic Testing with Interactive Decision Tool in Newly Diagnosed Breast Cancer Patients, Oral presentation at Society of Medical Decision Making, . Pittsburgh, PA, 2017.