Michele C. Gornick, PhD, MA

The University of Michigan
Center for Bioethics and Social Science in Medicine
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Academic Appointments

2014-present Research Investigator, Department of Internal Medicine, Division of General Medicine, Center for Bioethics and Social Science in Medicine, University of Michigan, Ann Arbor, MI
2012-2016 Research Health Science Specialist, VA Health Services Research & Development Center for Excellence, Ann Arbor VA, Ann Arbor, MI

Post-Doctoral Training

2012-2014 Center for Bioethics and Social Science in Medicine, University of Michigan, Ann Arbor, MI
2012-2014 VA Health Science Research & Development, Ann Arbor, MI

Education

2006–2011 PhD, Human Genetics, University of Michigan, Ann Arbor, MI 2008–
2009–2011 MA, Department of Statistics, University of Michigan, Ann Arbor, MI
1998–2002 BS, Biochemistry and Molecular Biology, Pennsylvania State University

Research Interests

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

Current Grants

2UL1TR000433-06: "Developing novel methods for communicating genomic test results into precision medicine practice;" University of Michigan, Michigan Institute for Clinical and Health Research; M. Gornick, Principal investigator 09/01/2014-09/01/2016, $100,000 (direct).

UM1 HG006508-01A1: "Exploring Precision Cancer Medicine for Sarcoma and Rare Cancers" University of Michigan, Department of Internal Medicine; M. Gornick, Co-Investigator on Project 3 (JS Roberts, PI) 07/01/2013-06/31/2017, $1,500,000 (annual direct)

Honors and Awards

2014-2016	Post-doctoral Translational Scholars Award, University of Michigan, Michigan Institute for Clinical and Health Research
2012-2014	Research Fellow, VA Health Services Research & Development Center for Excellence
2007–2009	Trainee, Genomic Sciences Training Grant University of Michigan, Department of Biostatistics, T32 HG00040, NHGRI
2003–2006	Post- Baccalaureate Intramural Research Training Award, Child Psychiatry Branch, National Institute of Mental Health

Publications:

Peer-Reviewed Publications In-Press

1. **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. 2016 Jun 16. [Epub ahead of print]

2. 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. 2015 Jun 16

3. **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*, 2014 Oct;9(4):22-33.

4. 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. 2014 Jun 5;94(6):818-26

5. 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. 2014 Oct;16

6. Samadder NJ, **Gornick MC**, Everett J, Greenson JK, Gruber SB. Inflammatory bowel disease and familial adenomatous polyposis. *J Crohns Colitis*. 2013 Apr 1;7(3):e103-7.

7. **Gornick MC,** Rennert G, Moreno V, Gruber SB. Adiponectin Gene and Risk of Colorectal Cancer. *Br J Cancer*. 2011 Aug 9;105(4):562-4.

8. **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*, 2010 May;21(5):737-43.

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*. 2006 Dec 14.

10. **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.* 2005 Nov 10;1-8.

11. 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. *Archives of General Psychiatry*. 2007Aug;64(8):921-31.

12. 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*. 2007 Feb;12(2):195-205.

13. 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.

14. 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*. 2004 May 15;55(10):976.

15. 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*. 2004 Oct26

16. 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.

17. 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 Psychiatry*. 2004 May 15; 55(10):989-94.

18. 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.

Submitted

1. **Gornick MC**, Exe N, Larkin K, Zikmund-Fisher BJ, Fagerlin AF. Clinicians favor early repeat colonoscopies for patients with an uncertain family history, even after a negative genetic test. *Under review: Journal of General Internal Medicine, 2016*

2. Tarini, **Gornick MC**, Uhlmann W, Zikmund-Fisher BJ, Family History Collection Practices: National Survey of Pediatric Primary Care Providers. *Pediatrics*, 2016

3. **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. *Under review: Journal of Community Genetics, 2015*

4. Sutton EJ, **Gornick MC**, Ryan KA, Roberts JS, De Vries R. Organizing Innovation: The Emergence of Precision Medicine Oncology. *Under review: Advances in Medical Sociology, 2014*

5. Tarini BA, **Gornick MC**. Challenges to implementing genomic advances in primary care pediatric practice. *Under review: Personalized Medicine*

6. Sutton EJ, **Gornick MC**, Ryan KA, Roberts JS, De Vries R. Organizing Innovation: The Emergence of Precision Medicine Oncology. *Under review: Advances in Medical Sociology, 2014*

In Preparation

1. **Gornick MC**, Bartnik N, Le L, Roberts JS. Precision medicine: Why, how and when oncologists disclose genome sequencing results in clinical practice.

2. Roberts JS, **Gornick MC**, Kalia S, Chen C, Green RC. Who wants direct access to their personal genomic information and why? Findings from the Impact of Personal Genomics (PGen) study.

Oral presentations:

1. **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. The American College of Medical Genetics and Genomics' Tampa, FL 2016.

2. **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. American Society for Bioethics and Humanities, Houston, TX 2015

3. **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. The American College of Medical Genetics and Genomics' Salt Lake City, UT 2015.

Poster presentations:

1. **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. The American College of Medical Genetics and Genomics' 2015 Annual Clinical Genetics Meeting, Salt Lake City, UT 2015.

2. **Gornick MC**, Fagerlin A, Exe NL, Larkin K, Magoc E, Zikmund-Fisher BJ. Decreasing Veterans Desire for Early Repeat Colonoscopies. Society for Medical Decision Making- 2014, Miami, FL

3. **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. American College of Medical Genetics and Genomics Meeting- 2014, Nashville, TN

4. **Gornick MC**, Roberts JS, Kim SY. Do truly "incidental" findings exist in genomic medicine? American Society of Bioethics and Humanities Annual Meeting- 2013, Atlanta, GA

5. **Gornick MC**, Everett' J, Roberts JS, Kim SY. What is an Incidental Finding in the Genomic Era? American College of Medical Genetics and Genomics Meeting- 2013, Phoenix, AZ

6. **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 American Association for Cancer Reseach-2011, Orlando, FL

7. **Gornick MC**, Xu J, Li J, Gruber SB. Identification of Gene for Hereditary Mixed Polyposis Using Next Generation Sequencing. Cancer Research Symposium, University of Michigan-2010

8. **Gornick MC**, Xu J, Li J, Gruber SB. Using Whole-Genome Sequencing to Identify Candidate Gene for Hereditary Mixed Polyposis. Colon Cancer in Murine Models and Humans III, The Jackson Lab, Bar Harbor-2010

9. **Gornick MC**, Xu J, Li J, Gruber SB. Copy number alterations and gene expression in colorectal cancer Cancer Research Symposium, University of Michigan-2009

10. **Gornick MC**, Xu J, Li J, Gruber SB, Genome-wide analysis of copy number alterations in colorectal cancer. American Society of Human Genetics-2009

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. Internal Medicine Annual Research Day, University of Michigan-2008

12. **Gornick MC**, Moller SA, Bradford C, Gruber SB. Acinic Cell Carcinoma of the Head and Neck: Risk Factors, Family History, Incidence Trends and Survical. Cancer Research Symposium, University of Michigan-2007

13. **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. World Congress of Psychiatric Genetics-2005

14. **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. National Institutes of Mental Health, Intramural Research Conference-2005

15. **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). World Congress of Psychiatric Genetics-2004

16. **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. American Society of Human Genetics Conference-2003

Invited Presentations:

2013 "Incidental Findings in Genomic Medicine: The Problem with Having Too Much Information." Center for Bioethics Social Science and Medicine Seminar Series, University of Michigan, Ann Arbor, MI

2013 "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 Ann Arbor, MI

2012 "The 'Incidentalome': Unanticipated ethical challenges uncovered in our genomes." Center for Bioethics Social Science and Medicine Seminar Series, University of Michigan, Ann Arbor, MI

2011 "Current Methods for Genome Sequencing." Genomics and Epigenomics in Environmental Health, University of Michigan, Ann Arbor, MI

2010 "Clinical Applications of Next Generation Genetics." Cancer Epidemiology Working Group, University of Michigan, Ann Arbor, MI

2010 "From Genomes to Variants: The Second Generation of Genetics." Human Genetics Department, University of Michigan, Ann Arbor, MI

2010 "From SNPs to Genomes: The Next Generation of Genetics." National Institutes of Health, Bethesda, MD

Membership in Professional Societies

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

Peer-Review Service

Reviewer of Manuscripts

American Journal of Human Genetics
European Journal of Medical Genetics
Health Psychology
Heath Expectations
Pediatrics
American Journal of Bioethics

Teaching Experience/Community Engagement

2015	Genomics Forum: Unexpected information from having your genome sequenced. University of Michigan
2007-2010	Diversity and Career Development Genetics Lab, Summer Science Academy, Program Director of the Genetics Lab, University of Michigan
2008	Fundamentals of Statistical and Population Genetics, Department of Human Genetics, University of Michigan
2010	Intro to Genetics, Department of Molecular Cellular and Developmental Biology, University of Michigan
2011	Genomics and Epigenomics in Environmental Health, Current Methods for Genome Sequencing, University of Michigan
2013	Issues in Public Health Ethics, Ethical Challenges and Considerations: Direct to Consumer Genetic Testing, University of Michigan

Previous Research Experience

2000 – 2001	GlaxoSmithKline Pharmaceuticals, Research Assistant, Anti-Microbial and Host Defense Division Collegeville, PA
2002 – 2003	Molecular Genetics and Biochemistry, Research Assistant, University of Pittsburgh, Pittsburgh, PA
2003– 2006	Child Psychiatry Branch, National Institute of Mental Health, Post- Baccalaureate Intramural Research Training Award , National Institutes of Health, Bethesda, MD