Faculty of Medicine of Harvard University
Curriculum Vitae

Date Prepared:	July 12, 2020
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Education

1998	AB, cum laude	Biochemical Sciences	Harvard College
2006	MPH	Health Behavior/Health Education Interdepartmental Concentration in Public Health Genetics (advisor: Victor J. Strecher, PhD)	University of Michigan School of Public Health (UMSPH)
2012	PhD	Health Behavior/Health Education (advisor & dissertation chair: J. Scott Roberts, PhD)	University of Michigan

Postdoctoral Training

08/12-05/15	Postdoctoral Research Fellow	Department of Medicine, Division of Genetics (Lab PI: Robert C. Green, MD, MPH)	Brigham and Women's Hospital (BWH) and Harvard Medical School (HMS)

Faculty Academic Appointments

05/15-12/19	Instructor	Department of Medicine (Division of Genetics)	HMS
12/19-	Instructor	Department of Population Medicine	HMS

Appointments at Hospitals/Affiliated Institutions

05/15-12/19	Research Faculty	Department of Medicine (Division of Genetics)	Brigham and Women's Hospital
08/19-	Associated Scientist	Broad Institute	Massachusetts Institute of Technology and Harvard University
12/19-	Collaborator	Department of Medicine (Division of Genetics)	Brigham and Women's Hospital
12/19-	Junior Faculty	Center for Healthcare Research in Pediatrics (CHeRP), and the PRecisiOn Medicine Translational Research (PROMoTeR) Center, Department of Population Medicine	Harvard Pilgrim Health Care Institute

Other Professional Positions

2005-2006	Student Assistant	Center for Public Health and Community Genomics
2005-2007	Intern	Genetic Alliance

Committee Service

Local

2008-2009	Doctoral Student Health Research Symposium, planning committee	UMSPH
2009-2010	"The Ethical, Legal and Social Implications of Personal Genomics" interdepartmental seminar series, planning committee and student committee	University of Michigan
2009-2010	Doctoral Student Curriculum Committee, Department of Health Behavior and Health Education, doctoral student representative	UMSPH
2012-2013	Translational Genomics Clinical Research in Progress Meetings, participant and presenter	BWH
2014-2019	Econogenomics Working Group 2014-2019	BWH Chair, Clinical Core

National

2012-2017	Outcomes and Measures Working Group member Actionability and Return of Results Working Group member	Clinical Sequencing Exploratory Research (CSER) Consortium
2014-2020	Outcomes Workgroup member Survey Development subcommittee member Familial Implications Workgroup member	Electronic Medical Records and Genomics (eMERGE) Network

Professional Societies

2008-	American Public Health Association (APHA)	
2008-2017	Alzheimer's Association International Society to Advance Alzheimer Research and Treatment	
2009-2018	Gerontological Society of America (GSA)	
2010-2012	Michigan Public Health Association	
2012-	American Society of Human Genetics (ASHG)	
2016-2017, 2020-	Society of Medical Decision Making	
2017-	International Society for Pharmacoeconomics and Outcomes Research (ISPOR)	Member, Abstract Selection Committee Member, Boston Regional Chapter

Grant Review Activities

2017	Harvard Ideation Challenge	Reactor Program, Harvard Catalyst Ad hoc reviewer
2019	California Child Health Research Coalition	Institute for Clinical and Translational Science, University of California, Irvine Ad hoc reviewer

Editorial Activities

Ad Hoc Reviewer

AJOB Empirical Bioethics
Alzheimer's and Dementia
Alzheimer's Disease and Associated Disorders
BMJ Open
BMC Medical Genetics
Expert Review of Molecular Diagnostics
European Journal of Human Genetics

Genetics in Medicine
Genetic Testing and Molecular Biomarkers
Genome Medicine
Genomic Medicine
Genomics, Society and Policy
Health Affairs
Health Behavior and Education
Health Expectations
Journal of Community Genetics
Journal of Genetic Counseling
Journal of Health Communication
Journal of Personalized Medicine
Journal of the American Medical Association
Molecular Genetics and Genomic Medicine
Personalized Medicine
PLOS ONE
Southern Medical Journal
Translational Behavioral Medicine

Other Editorial Roles

2018-2019	Guest/Section Editor	Journal of Personalized Medicine

Honors and Prizes

1998	Sydney Matz Memorial Prize	Eliot House, Harvard College	Contribution to Student Life
2004-2005	Tuition Assistance Scholarship	UMSPH	
2005	Department of Health Behavior and Health Education Poster Prize	UMSPH	
2005	Public Health Genetics Interdepartmental Concentration Summer Internship Grant	UMSPH	
2006-2012	Rackham Merit Fellowship	UMSPH	
2008	ISR Award to attend the Interuniversity Consortium for Political and Social Research (ICPSR) Summer Program	UMSPH	

2008	Department of Health Behavior and Health Education fellowship	UMSPH
2009 & 2011	Rackham Travel Grant	University of Michigan
2011	Department of Health Behavior and Health Education Student/Faculty Writing Award	UMSPH
2016	ACMG Annual Meeting Top Poster Prize	American College of Medical Genetics and Genomics (ACMG)
2016	Chair's Research Award	BWH, Department of Medicine
2019	ACMG Annual Meeting Top Rated Poster	ACMG

Report of Funded and Unfunded Projects

Funding Information

Past

2005-2007 Sperm Banking Experience Study
Children's Leukemia Foundation of Michigan / Rackham Graduate School
Principal Investigator (PI)
The goal of this focus group study was to document the experiences of men who attempted semen cryopreservation through the Fertility Counseling and Gamete Cryopreservation Program at the University of Michigan Comprehensive Cancer Center after a cancer diagnosis.

2006-2014 (3 cycles) Risk Evaluation and Education for Alzheimer's Disease (REVEAL) Study
National Institutes of Health (NIH)/National Human Genome Research Institute (NHGRI)
R01-HG002213; NCT00089882, NCT00462917, and NCT01434667
Co-investigator (Co-I) (PI: R. C. Green)
The goal of this project was to assess the impact of disclosing genetic risk information about Alzheimer's disease, including strategies for streamlining counseling, education and disclosure, the effects of disclosing secondary findings, and the impact of disclosure on individuals with mild cognitive impairment. I served as project manager at the University of Michigan site, and also led analyses of the second, third, and fourth trials.

2007-2009 Returning Individual Genetic Test Results to Research Participants in the Genetics, Environment and Melanoma (GEM) Study
University of Michigan Clinical/Translational Resource Allocation Committee Program/ University of Michigan Ethics in Public Life Program
Co-I (PI: J. S. Roberts)
The goal of this pilot project was to develop and evaluate a protocol for returning genetic research results to participants of a large, international, population-based study on melanoma susceptibility. I served as project manager.

2008-2011 Communicating Diagnostic and Risk Information in Mild Cognitive Impairment
Alzheimer's Association: Investigator-Initiated Grant, RG-07-58189
Co-I (PI: J. S. Roberts)
The goal of this project was to develop and evaluate a risk communication protocol for patients with mild cognitive impairment and their family members. I assisted with developing the risk communication materials.

2009-2011 The Impact of Family History and Genomics Based Risk Profiling on Primary Care
NIH/National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
U34-DK084542
Co-I (PI: J. S. Roberts)
The goal of this planning grant was to prepare a protocol that would examine the efficacy of a tailored, web-based skills training program teaching primary care providers how to interpret and communicate genomic risk information. I served as project manager.

2010-2013 Impact of Direct-to-Consumer Genetic Testing
NIH/NHGRI R01-HG005092
Co-I (multiple PIs (mPIs): R. C. Green and J. S. Roberts)
The goal of this project was to utilize on-line surveys to assess the impact of DTC testing on consumers who utilize the services of 23andMe and Pathway Genomics. My role was to assist with survey development and psychological outcomes.

2011 The Impact of Learning about APOE-Coronary Artery Disease Associations during Genetic Risk Assessment for Alzheimer's Disease: A Qualitative Analysis
Rackham Graduate Student Research Grant
PI
The goal of this study was to use recordings of disclosure sessions from the third REVEAL Study trial to develop a conceptual model that describes psychological responses to learning pleiotropic risk information during a genetic risk assessment for Alzheimer's disease.

2011-2015 Returning Research Results in Children: Parental Preferences and Expert Oversight
NIH/NHGRI R01-HG006615
Co-I (PI: I. A. Holm)
The goal of this project was to examine the opinions and choices of parents whose children are enrolled in a research biobank with regard to return of research results. My role was to assist with survey development and analyzing outcomes data.

2011-2017 Integration of Whole Genome Sequencing into Clinical Medicine (The MedSeq Project)
NIH/NHGRI U01-HG006500; NCT01736566
Co-I (PI: R. C. Green)
This project explored the application of genomic sequence data to the care of patients within an active clinical setting. We randomized primary care and cardiology patients to receive clinical information derived from whole genome sequencing versus current standard of care. My role was to assist with survey development and to design and implement analyses of costs.

2012-2014 Incidental Finding Preferences in Whole Genome Sequencing: A Randomized Trial
NIH/NHGRI F32-HG006993
PI
The goal of this study was to understand how different types of incidental findings from genomic sequencing may affect the interactions between primary care providers and their patients.

2013-2019 Genome Sequence-Based Screening for Childhood Risk and Newborn Illness (The BabySeq Project)
NIH/NICHD U19-HD077671; NCT02422511
Co-I (mPIs: R. C. Green, A. H. Beggs)
The goal of this project is to develop a process for analyzing and reporting the results of genome sequencing in the newborn period. I designed and implemented analyses of costs.

2015-2020 eMERGE Phase III Clinical Center at Partners HealthCare
NIH/NHGRI U01-HG008685; NCT03276637
Co-I (mPIs: S.T. Weiss, E.W. Karlson, S.N. Murphy, J.W. Smoller)
The eMERGE III Clinical Center leverages a large biobank and rich EMR to define the phenotypic impact of mutations emerging from sequencing. It then returns actionable results to biobank participants, including variants associated with familial hypercholesterolemia as part of a randomized controlled clinical trial. I assisted with survey development and served on consortium workgroups.

2017-2019 MilSeq: Enabling Personalized Medicine through Exome Sequencing in the U.S. Air Force
DOD FA8650-17-2-6704
Co-I (PI: R. C. Green)
The goal of this project is to test a pilot protocol for integrating genomic sequencing into the care of active duty airmen. I assisted with survey development and developing approaches for analyzing health outcomes.

Current

2016-2021 Cost-effectiveness of Whole Genome Sequencing of Healthy Adults
NIH/NHGRI K01-HG009173
PI ($628,704)
The central goal of this research is to determine the cost-effectiveness of integrating whole genome sequencing into the care of healthy adults. One project will assess the health impact and cumulative healthcare costs of whole genome sequencing five years after participants of a randomized controlled trial received results. A second project will extend these analyses over patients' lifetimes using decision analytic models. Findings will inform development of clinical guidelines and reimbursement strategies to accelerate the integration of sequencing into medical care.

2017-2022 Precision Medicine Policy and Treatment (PreEMPT) Model
NIH/NICHD R01-HD090019
Co-I (PI: A. C. Wu)
This goal of this grant is to develop a detailed computer microsimulation model capable of simulating the clinical benefits, potential risks, and cost consequences associated with the integration of different genomic sequencing screening strategies into clinical care. I am leading development of modules for hypertrophic cardiomyopathy and long QT syndrome.

2019-2023 Medical/Economic Impact and Behavioral Responses to Integrating the Sanford Chips (METRICS) Study
Sanford Health 20182750
PI ($752,456)
This goal of this research agreement is to summarize the impact of integrating pharmacogenetic and disease predisposition information into patient care within primary care settings, including the effect on clinician preparedness, provider and patient behaviors, medical and economic outcomes, and familial outcomes.

2019-2024 Return of Genomic Results and Estimating Penetrance in Population-Based Cohorts
NIH/NHLBI R01-HL143295; NCT04196374
Co-I (PI: R. C. Green)
The overall goal of this research is to develop and implement a genomic return of result process in the Framingham Heart Study and Jackson Heart Study cohorts and explore associated medical, behavioral and economic outcomes. We will also develop ways to automate and streamline genomic variant interpretation at scale, and develop analyses to aid assessment of penetrance. I am designing the methods for evaluating the impact of disclosure, including participant-reported outcomes.

Projects Submitted for Funding

Pending Implementation of Whole Genome Sequencing as Screening in a Diverse Cohort of Healthy Infants
NIH/NCATS
Co-Investigator (mPIs: R. C. Green, I. A. Holm)
The goal of this multi-site randomized controlled trial is to implement early childhood genomic screening in “real-world” primary care settings with families with diverse racial backgrounds. We will evaluate the medical and psychosocial impact of GS on children and their families. I will lead exploratory analyses of economic outcomes.

Unfunded Current Projects

2019- Awareness of genetic testing among Hispanics (Co-I)
I am assisting on an ancillary study of the Hispanic Community Health Study / Study of Latinos to assess awareness of genetic testing among in Hispanic communities. I have led development of survey items, and will assist with data analyses.

Report of Local Teaching and Training

Teaching of Students in Courses

University of Michigan

2006	Critical Moments in Health Behavior and Health Education MPH students	UMSPH Single guest-lecture
2007	Health Care Decision Making: Theory and Research Methods Master’s and PhD students	University of Michigan School of Nursing Facilitated single 3-hr discussion

2008 & 2010	Genetics, Health Behavior, & Health Education MPH and PhD students	UMSPH Guest-lecture (x 3)
2008	Doctoral Seminar in Health Behavior and Health Education PhD students	UMSPH Facilitated single 3-hr discussion
2009 & 2011	Psychosocial Factors in Health-Related Behavior MPH students	UMSPH Head graduate student instructor: 20hrs/week for 4 months including grading, advising and some lecturing

Massachusetts General Hospital Institute for Health Professions

2019-2020	Capstone MSGC students	Genetic Counseling Program Three 2-hour guest-lectures

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

2017	Advanced Human Genetics Seminar Clinical and research fellows	BWH Single 2-hr lecture

Laboratory and Other Research Supervisory and Training Responsibilities

2018-2019	Supervision of MPH student research project / BWH	1:1 supervision five hours per week

Formally Mentored Harvard Medical, Dental, and Graduate Students

2017-2018 Rhian Evans, LLB, MA (HMS Bioethics Class of 2018)
Examined the clinical utility of whole genome sequencing in healthy populations. Presented a poster titled, “Short term medical outcomes from sequencing healthy adults” at the HMS Bioethics Capstone Symposium, and developing a corresponding manuscript for journal submission. Mentoring effort was approximately 2 hours per month.

2018- Melissa Uveges, PhD (HMS Bioethics Program Postdoc)
Currently working with me to analyze parental responses to newborn genomic sequencing. Presented a poster titled, “Parents’ Satisfaction and Emotional Responses to Newborn Genomic Sequencing: The Role of Uncertainty” at the 2019 ASHG Annual Meeting and was awarded a Reviewers' Choice designation, and developing a corresponding manuscript for journal submission. Mentoring effort is approximately 2 hours per month.

2020- Matthew Rich, BS (Massachusetts General Hospital Institute of Health Professions)
Developing a survey as part of his genetic counseling program capstone project to identify factors that influence intentions to pursue preventive medications to prevent Alzheimer’s disease. Mentoring effort is approximately 2 hours per month.

Other Mentored Trainees and Faculty

2007-2008 Kathryn Hock Shrewsbery, MS, CGC / Genetic Counselor, Promedica Toledo Hospital, Toledo, OH
Career stage: master's student. *Mentoring role*: thesis committee member. *Accomplishments*: oral presentation at National Society of Genetic Counselors (NSGC) Annual Meeting, first-author publication in Genetics in Medicine

2008-2009 Jessica Long, MS, CGC / Genetic Counselor, Cancer Risk Evaluation Program, University of Pennsylvania Health System, Philadelphia, PA
Career stage: master's student. *Mentoring role*: thesis committee member. *Accomplishments*: oral presentation at NSGC Annual Meeting

2010-2011 Barbara Hamlington, MS, CGC / Clinical Science Liaison Lead, Invitae, San Francisco, CA
Career stage: master's student. *Mentoring role*: thesis committee member. *Accomplishments*: oral presentation at NSGC Annual Meeting

2010-2011 Rebecca Clark, MS, CGC / Genetic Counselor, Compass Oncology, Tigard, OR
Career stage: master's student. *Mentoring role*: thesis committee member. Accomplishments: oral presentation at NSGC Annual Meeting, manuscript in development summarizing thesis work

2014-2015 Natalie Baptista, BSc (Hons) / Physician, Logan Hospital, Queensland, Australia
Career stage: medical student. *Mentoring role*: academic mentor. *Accomplishments*: first-author publication in Genetics in Medicine

2014-2015 Liam Conway-Pearson, BA / Medical Student, Boston University School of Medicine.
Career stage: undergraduate. *Mentoring role*: internship mentor. *Accomplishments*: first-author publication in Genetics in Medicine.

2015-2016 Yue Guan, ScM, PhD / Research Assistant Professor, Rollins School of Public Health, Emory University, Atlanta, GA
Career stage: doctoral student. *Mentoring role*: oversaw research publications from dissertation data. *Accomplishments*: poster presentation at the ACMG Annual Meeting, two first-author publications in Patient Education and Counseling, one in Health Communications

2017-2018 Ally Hempel, AB / Research Assistant, BWH, Boston, MA
Career stage: undergraduate. *Mentoring role*: internship mentor. *Accomplishments:* Capstone presentation and paper. Current full-time research assistant for the Genomes2People Research Program.

2018-2018 Katherine Rosen / Northeastern College.
Career stage: undergraduate. *Mentoring role*: internship mentor. *Accomplishments*: Co-author on manuscript in development.

2018-2019 Frank Lin, MD / Harvard School of Public Health.
Career stage: graduate student. *Mentoring role*: internship mentor. *Accomplishments*: Co-author on manuscript in development.

2018-2019	Zoe Mackay, BS / Medical Student, Boston University School of Medicine. *Career stage*: medical student. *Mentoring role*: mentor for 2018 ACMG Foundation funded Summer Genetics Scholar Program. *Accomplishments*: Poster presentation at the 2019 ASHG Annual Meeting, first-author manuscript in submission
2019-	Nidhi Agarwal, BS / Medical Student, Medical College of Georgia. *Career stage*: Medical student. *Mentoring role*: mentor for 2019 ACMG Foundation funded Summer Genetics Scholar Program. *Accomplishments*: Poster presentation with at the 2019 ASHG Annual Meeting with a Reviewers' Choice designation
2019-	Charlene Preys / Endicott College. *Career stage*: undergraduate. *Mentoring role*: internship mentor. *Accomplishments*: Capstone paper

Local Invited Presentations

No presentations below were sponsored by outside entities.

2006	Katrina evacuee and care provider interviews / Special seminar on Hurricane Katrina University of Michigan School of Public Health, Ann Arbor, MI
2009	Incorporating race into genetic risk assessment for Alzheimer's disease: the REVEAL Study experience / Oral abstract at the Students of Color of Rackham Annual Meeting University of Michigan, Ann Arbor, MI
2009	Welcome remarks at the University of Michigan Doctoral Student Health Research Symposium University of Michigan, Ann Arbor, MI
2009	Implementation and impact of a protocol to disclose individual genetic information to research participants / Oral presentation at the University of Michigan Bioethics Colloquium University of Michigan, Ann Arbor, MI
2010	Getting what you came for: perceived utility and its impact on response to genetic susceptibility testing / Monthly seminar of the Patient Decision Making Group University of Michigan Medical School, Ann Arbor, MI
2012	Empirical approaches to genetic susceptibility testing: creating curves, understanding utility, and playing with protocols / Special seminar Department of Medicine, Division of Genetics, BWH
2013	Psychosocial responses to incidental information during genetic testing for Alzheimer's disease: findings from the REVEAL Study / Floor Meeting of the BWH Division of Genetics Department of Medicine, Division of Genetics, BWH
2013	Genomes to people: the G2P research agenda / Interview Day presentation to prospective fellows for the HMS Human Genetics Training Program Department of Medicine, Division of Genetics, BWH
2015	Integrating whole genome sequencing into medicine: preliminary findings about the behavioral and economic impact / Floor Meeting of the BWH Division of Genetics Department of Medicine, Division of Genetics, BWH
2016	Patient responses to whole genome sequencing: preliminary findings from the MedSeq Project / Floor Meeting of the BWH Division of Genetics

Department of Medicine, Division of Genetics, BWH

2018 The behavioral and economic impact of sequencing healthy populations / Floor Meeting of the BWH Division of Genetics
Department of Medicine, Division of Genetics, BWH

2019 Econogenomics: What's the value? / Presentation at BWH Genetics Research Retreat
Department of Medicine, Division of Genetics, BWH

2019 Precision Medicine Policy and Treatment (PreEMPT) Model / Brown Bag
Department of Population Medicine, Harvard Pilgrim Health Care Institute (HPHCI)

2020 Impact of Integrating Genetic Testing into General Medicine / Brown Bag
Department of Population Medicine, HPHCI

2020 Imagenetics METRICS: Implementation of Genetic Testing at Sanford Health / CHeRP/PROMoTeR Seminar
Department of Population Medicine, HPHCI

Report of Regional, National and International Invited Teaching and Presentations

No presentations below were sponsored by outside entities

Regional

2015 Genomics in medicine: what will it take? / Guest lecture
Rhode Island College, Providence, RI

2016 MedSeq Project update: costs and outcomes of integrating whole genome sequencing into cardiology care / Invited seminar, Molecular and Population Genomics Program
Broad Institute of MIT and Harvard, Cambridge, MA

2017 How patients and providers respond to genomic testing / Guest lecture in Personal Genomics and Medicine course
Cornell University, Ithaca, NY

2019 Genomic Screening: What's the Value? / Invited seminar, Maine Medical Center Research Institute
Maine Medical Center, Portland, ME

National

2011 Genetic susceptibility testing for Alzheimer's disease: what have we REVEALed? / Invited seminar
Baylor College of Medicine, Houston, TX

2016 Summary of NHGRI August 2016 Payers Meeting / Presentation to the Clinical Sequencing Exploratory Research Consortium (CSER) Network
Bethesda, MD

2016 Managing secondary genomic findings / Invited presentation
Festival of Genomics, Boston, MA

2016 Highlights from the MedSeq Project. Healthcare and economic outcomes among primary care patients / Presentation to the CSER Network
Seattle, WA

2017 The impact of integrating genome sequencing into the care of healthy patients / Invited seminar at the Cornell Center for Comparative and Population Genomics (3CPG)
Cornell University, Ithaca, NY

2017 Clinician Bake Off update / Presentation to the CSER Network
Bethesda, MD

2017 Is genomic sequencing worth the costs? / Learning Lounge
ACMG Annual Meeting, Phoenix, AZ

2017 Cost analyses of genomic sequencing in healthy and sick populations / Invited presentation for the Steering Committee Meeting of the Newborn Sequencing in Genomic Medicine and Public Health (NSIGHT) Program
American Academy of Neurology Annual Meeting, Boston, MA

2017 What REVEAL and MedSeq tell us about the future of precision medicine / Invited speaker
American Academy of Neurology Annual Meeting, Boston, MA

2017 Cost analyses of genomic sequencing in healthy and sick populations / Monthly meeting of the NSIGHT Steering Committee
Teleconference

2017 Short-term costs of integrating whole genome sequencing into cardiology and primary care / Invited speaker
World Precision Medicine Congress, Washington, DC

2018 Medically reportable outcomes and cost implications of newborn sequencing in the BabySeq project / Invited speaker
Frontiers in Pediatric Genomic Medicine Conference, La Jolla, CA

2018 The science of surveys: interactive session on the foundations of survey design and implementation to improve genetic counselor research and clinical practice / Invited session
Annual Meeting of the National Society of Genetic Counselors, Atlanta, GA

2018 Empirical Approaches to Medical and Economic Outcomes in Genomic Medicine / Keynote address
Sanford Imagenetics Genomic Medicine Symposium, Sioux Falls, SD

2019 Evaluating the Economic Impact of Genomic Testing During Clinical Trials / Invited session
ASHG Meeting, Houston, TX

2019 Econogenomics: is genomic testing worth the cost? / Invited speaker
Stanford Center for Biomedical Ethics, Teleconference

2020 Will polygenic risk scores and preventive genomics deliver in precision medicine?
University of Florida Precision Medicine Conference, Orlando, FL

National Abstract Oral Presentations

2009	Black and white Americans' understandings of genetics APHA Annual Meeting, Philadelphia, PA
2010	Genetic Susceptibility Testing for Individuals at Risk for Alzheimer's Disease: Findings from the REVEAL Study GSA Annual Meeting, Atlanta, GA
2010	How does pleiotropic information affect health behavior changes? Initial results from the REVEAL Study, a randomized trial of genetic testing for Alzheimer's disease risk ACMG Annual Meeting, Albuquerque, NM
2010	Perceived personal utility of Alzheimer's disease genetic susceptibility testing and its influence on post-test responses: findings from the REVEAL Study Communications, Medicine and Ethics Conference, Boston, MA
2012	Changes to control perceptions following disclosure of APOE-coronary artery disease associations during genetic susceptibility testing for Alzheimer's disease: Findings from the REVEAL Study ASHG Annual Meeting, San Francisco, CA
2013	Short-term psychological benefits to consumer genetic testing: findings from the PGen Study APHA Annual Meeting, Boston, MA
2014	Patient perceptions about the utility of family history review during whole genome sequencing: initial findings from the MedSeq Study ASHG Annual Meeting, San Diego, CA
2015	Responses of primary care physicians to unsolicited secondary findings about Lynch syndrome ASHG Annual Meeting, Baltimore, MD
2015	Short-term costs of integrating genome sequencing into clinical care: preliminary results from the MedSeq Project ASHG Annual Meeting, Baltimore, MD
2017	Short-term costs of whole genome sequencing in cardiology and primary care: findings from the MedSeq Project NHGRI Trainee Meeting, St. Louis, MO
2018	Impact of Disclosing Genetic Risk for Alzheimer's Disease to Patients with Mild Memory Problems GSA Annual Scientific Meeting, Boston, MA
2019	Impact of Newborn Genomic Sequencing on Short-Term Healthcare Utilization and Associated Costs: Preliminary Findings from the BabySeq Project NHGRI Trainee Meeting, St. Louis, MO

International

2019	Global Developments in Artificial Intelligence and Machine Learning in Healthcare / Special interest panel ISPOR Annual Meeting, New Orleans, LA

International Abstract Oral Presentations

2010	The psychological impact of learning APOE ε4 increases the risk for cardiovascular disease during genetic risk assessment for Alzheimer's disease: findings from the REVEAL Study International Conference on Alzheimer's Disease, Honolulu, HI
2013	The psychological impact of genetic risk information on individuals with mild cognitive impairment at imminent risk for conversion to Alzheimer's disease dementia: findings from the REVEAL Study Alzheimer's Association International Conference, Boston, MA
2014	What is the long-term emotional and behavioral impact of genetic risk assessment for Alzheimer's disease? Findings from the REVEAL Study Alzheimer's Association International Conference, Copenhagen, Denmark

Report of Education of Patients and Service to the Community

No educational materials below were sponsored by outside entities.

Educational Material for Patients and the Lay Community

Patient Educational Material

2005-2006	Preparing for Your Future	Co-manager	Patient education CD-ROM / web-based video, University of Michigan Comprehensive Cancer Center (Lance Armstrong Foundation)
2005-2006	Understanding Genetics	Co-project director	Patient and provider education manual, Washington, DC Department of Health (NIH)

Report of Scholarship

ORCID ID: 0000-0003-4068-776X

Research Investigations

** Mentored trainee

1. Harvey EK, Fogel CE, Peyrot M, **Christensen KD**, Terry SF, McInerney JD. Providers' knowledge of genetics: A survey of 5915 individuals and families with genetic conditions. Genet Med. 2007;9:259-67. PMID:17505202
2. **Christensen KD**, Roberts JS, Royal CDM, Fasaye, GA, Obisesan T, Cupples LA, Whitehouse PJ, Butson MB, Linnenbringer E, Relkin NR, Farrer L, Cook-Deegan R, Green RC. Incorporating ethnicity into genetic risk assessment for Alzheimer disease: the REVEAL Study experience. Genet Med. 2008;10:20714. PMID:18344711
3. **Christensen KD**, Jayaratne TE, Roberts JS, Kardia SLR, Petty EM. Understandings of basic genetics in the United States: results from a national survey of black and white men and women. Public Health Genomics. 2010;13:467-76. PMID:20203477

4. **Christensen KD**, Roberts JS, Shalowitz DI, Everett JN, Kim SYH, Raskin L, Gruber SB. Disclosing individual CDKN2A research results to melanoma survivors: interest, impact, and demands on researchers. Cancer Epidemiol Biomarkers Prev. 2011;20:522-9. PMID:21307304

5. Hock KT**, **Christensen KD**, Yashar BM, Roberts JS, Gollust SE, Uhlmann WR. Direct-to-consumer genetic testing: an assessment of genetic counselors' knowledge and beliefs. Genet Med. 2011;13: 32532. PMID:21233722

6. **Christensen KD**, Roberts JS, Uhlmann WR, Green RC. Changes to perceptions of the pros and cons of genetic susceptibility testing after APOE genotyping for Alzheimer disease risk. Genet Med. 2011;13:409-14. PMID:21270636

7. Terry SF, **Christensen KD**, Metosky S, Rudofsky G, Deignan KP, Martinez H, Johnson-Moore P, Citrin T. Community engagement about genetic variation research. Popul Health Manag. 2012;15:78-89. PMID:21815821

8. Vassy JL, Lautenbach DM, McLaughlin HM, Kong SW, **Christensen KD**, Krier JB, Kohane IS, Feuerman LZ, Blumenthal-Barby JS, Roberts JS, Lehmann LS, Ho CY, MacRae CA, Seidman CE, Murray MF, McGuire AL, Rehm HL, Green RC. The MedSeq Project: A randomized trial of integrating whole genome sequencing into clinical medicine. Trials. 2014;15:85. PMID:24645908

9. McLaughlin HM, Ceyhan-Birsoy O, **Christensen KD**, Kohane IS, Krier J, Lane WJ, Lautenbach D, Lebo MS, Machini K, MacRae C, Azzariti DR, Murray M, Seidman CE, Vassy JL, Green RC, Rehm HL. A systematic approach to the reporting of medically relevant findings from whole genome sequencing. BMC Med Genet. 2014;15:134. PMID:25714468

10. Vassy JL, **Christensen KD**, Slashinski MJ, Lautenbach DM, Robinson JO, Blumenthal-Barby J, Feuerman LZ, Lehman LS, Murray MF, Green RC, McGuire AL. 'Someday it will be the norm': physician perspectives on the utility of genome sequencing for patient care. Per Med. 2015;12:23-32. PMID:25642274

11. **Christensen KD**, Roberts JS, Zikmund-Fisher BJ, Kardia SLR, McBride CM, Linnenbringer E, Green RC. Associations between self-referral and health behavior responses to genetic risk information. Genome Med. 2015;7:10. PMID:25642295

12. Besser AG, Sanderson SC, Roberts JS, Chen CA, **Christensen KD**, Lautenbach DM, Cupples LA, Green RC. Factors affecting recall of different types of personal genetic information about Alzheimer's disease risk: the REVEAL Study. Public Health Genomics. 2015;18:78-86. PMID:25634646

13. Holm IA, Iles BR, Ziniel SI, Bacon PL, Savage SK, **Christensen KD**, Weitzman ER, Green RC, Huntington NL. Participant satisfaction with a preference-setting tool for the return of individual research results in pediatric genomic research. J Empir Res Hum Res Ethics. 2015;10:414-26. PMID:26376753

14. **Christensen KD**, Dukhovny D, Siebert U, Green RC. Assessing the costs and cost-effectiveness of genomic sequencing. J Pers Med. 2015;5:470-86. PMID:26690481

15. Green RC, **Christensen KD**, Cupples LA, Relkin NR, Whitehouse PJ, Royal CDM, Obisesan TO, Cook-Deegan R, Linnenbringer E, Butson MB, Fasaye G, Levinson E, Roberts JS. A randomized non-inferiority trial of condensed protocols for genetic risk disclosure of Alzheimer's disease. Alzheimers Dement. 2015;11:1222-30. PMID:25499536

16. Robinson CL, Jouni H, Kruisselbrink TM, Austin EE, **Christensen KD**, Green RC, Kullo IJ. Disclosing genetic risk for coronary heart disease: effects on perceived personal control and genetic counseling satisfaction. Clin Genet. 2016;89:251-7. PMID:25708169

17. Lupo PJ, Robinson JO, Diamond PM, Jamal L, Danysh HE, Blumenthal-Barby J, Lehmann LS, Vassy JL, **Christensen KD**, Green RC, McGuire AL. Patients' perceived utility of whole-genome sequencing for their healthcare: findings from the MedSeq Project. Per Med. 2016;16:13-20. PMID:27019659

18. **Christensen KD**, Vassy JL, Jamal L, Soleymani Lehmann L, Slasinski MJ, Perry DL, Robinson JO, Blumenthal-Barby J, Feuerman LZ, Murray MF, Green RC, McGuire AL. Are physicians prepared for whole genome sequencing? A qualitative analysis. Clin Genet. 2016;89:228-34. PMID:26080898

19. **Christensen KD**, Roberts JS, Whitehouse PJ, Royal CDM, Obisesan TO, Cupples LA, Vernarelli JA, Bhatt DL, Linnenbringer E, Butson MB, Fasaye G-A, Uhlmann WR, Hiraki S, Wang N, Cook-Deegan R, Green RC. Disclosing pleiotropic effects during genetic risk assessment for Alzheimer disease: a randomized, controlled trial. Ann Intern Med. 2016;164:155-63. PMID:26810768

    Editorial. Murray MF. Genomics: prediction, prevention, priorities, and Punnett. Ann Intern Med. 2016;164:197-8. PMID: 26810850

20. Robinson JO, Carroll TM, Feuerman LZ, Perry DL, Hoffman-Andrews L, Walsh RC, **Christensen KD**, Green RC, McGuire AL. Participant and study decliners' perspectives about the risks of participating in a clinical trial of whole genome sequencing. J Empir Res Hum Res Ethics. 2016;11:21-30. PMID:26928896

21. Baptista NM**, **Christensen KD**, Carere DA, Broadley SA, Roberts JS, Green RC. Adopting genetics: motivations and outcomes of personal genomic testing in adult adoptees. Genet Med. 2016;18:924-32. PMID:26820063

22. Conway-Pearson LS**, **Christensen KD**, Savage SK, Huntington NL, Weitzman ER, Ziniel SI, Bacon PL, Cacioppo CN, Green RC, Holm IA. Family health history reporting is sensitive to small changes in wording. Genet Med. 2016;18:1308-11. PMID:27148937

23. **Christensen KD**, Savage SK, Huntington NL, Weitzman ER, Ziniel SI, Bacon PL, Cacioppo CN, Green RC, Holm IA. Preferences for the return of individual results from research on pediatric biobank samples. J Empir Res Hum Res Ethics. 2017;12:97-106. PMID:28421887

24. Guan Y**, Roter DL, Erby LH, Wolff JL, Gitlin LN, Robers JS, Green RC, **Christensen KD**. Disclosing genetic risk of Alzheimer's disease to cognitively impaired patients and visit companions: findings from the REVEAL Study. Patient Educ Couns. 2017;100:927-35. PMID:28012682

25. Jamal L, Robinson JO, **Christensen KD**, Blumenthal-Barby J, Slashinski MJ, Perry DL, Vassy JL, Wycliff J, Green RC, McGuire AL. When bins blur: patient perspectives on categories of results from clinical whole genome sequencing. AJOB Empir Bioeth. 2017;8:82-8. PMID:28949844

26. Vassy JL, **Christensen KD**, Schonman EF, Blout CL, Robinson JO, Krier JB, Diamond PM, Lebo M, Machini K, Azzariti DR, Dukhovny D, Bates DW, MacRae CA, Murray MF, Rehm HL, McGuire AL, Green RC. The impact of whole genome sequencing on the primary care and outcomes of healthy adult patients: a pilot randomized trial. Ann Intern Med. 2017;167:159-69. PMID:28654958

27. **Christensen KD**, Uhlmann WR, Roberts JS, Linnenbringer E, Whitehouse PJ, Royal CDM, Obisesan TO, Cupples LA, Butson MB, Fasaye G-A, Hiraki S, Chen CA, Siebert U, Cook-Deegan R, Green RC. A randomized controlled trial of disclosing genetic risk information for Alzheimer's disease via telephone. Genet Med. 2018;20:132-141. PMID:28726810

28. Guan Y**, Roter DL, Wolff JL, Gitlin LN, **Christensen KD**, Roberts JS, Green RC, Erby LH. The impact of genetic counselors' use of facilitative strategies on cognitive and emotional processing of genetic risk disclosure for Alzheimer's disease. Patient Educ Couns. 2018;101:817-23. PMID:29203084

29. **Christensen KD**, Bernhardt BA, Jarvik GP, Hindorff LA, Ou J, Biswas S, Powell BC, Grundmeier RW, Machini K, Karavite DJ, Pennington JW, Krantz ID, Berg JS, Goddard KAB. Anticipated responses of early adopter genetic specialists and nongenetic specialists to unsolicited genomic secondary findings. Genet Med. 2018;20:1186-95. PMID:29388940

30. Roberts JS, Robinson JO, Diamond PM, Bharadwaj A, **Christensen KD**, Lee KB, Green RC, McGuire AL. Patient understanding of, satisfaction with, and perceived utility of whole genome sequencing: findings from the MedSeq Project. Genet Med. 2018;20:1069-76. PMID:29300387

31. Mitchell PB, Ziniel SI, Savage SK, **Christensen KD**, Weitzman ER, Green RC, Huntington NL, Mathews DJ, Holm IA. Enhancing autonomy in biobank decisions: too much of a good thing? J Empir Res Hum Res Ethics. 2018;13:125-38. PMID:29471711

32. **Christensen KD**, Vassy JL, Phillips KA, Blout CL, Azzariti DR, Lu CY, Robinson JO, Lee K, Douglas MP, Yeh JM, Machini K, Stout NK, Rehm HL, McGuire AL, Green RC, Dukhovny D. Short term costs of integrating whole genome sequencing into primary care and cardiology settings: a pilot randomized trial. Genet Med. 2018;20:1544-53. PMID:29565423

33. **Christensen KD**, Phillips KA, Green RC, Dukhovny D. Cost analyses of genomic sequencing – lessons learned from the MedSeq Project. Value Health. 2018;21:1054-61. PMID:30224109

34. Phillips KA, Deverka, PA, Marshall DA, Wordsworth S, Reiger DA, **Christensen KD**, Buchanan Methodological Issues in assessing the economic value of next-generation sequencing tests: many challenges and not enough solutions. Value Health. 2018;21:1033-42. PMID:30224106

35. Holm IA, Agrawal PB, Ceyhan-Birsoy O, **Christensen KD**, Fayer S, Frankel LA, Genetti CA, Krier JB, LaMay RC, Levy HL, McGuire AL, Parad RB, Park PJ, Pereira S, Rehm HL, Schwartz TS, Waisbren SE, Yu TW. The BabySeq Project: implementing genomic sequencing in newborns. BMC Pediatr. 2018;18:225. PMID:29986673

36. Guan Y, Roter DL, Erby LH, Wolff, JL, Gitlin LN, Roberts JS, Green RC, **Christensen KD**. Communication predictors of patient and companion satisfaction with Alzheimer's genetic risk disclosure. J Health Commun. 2018;23:807-14. PMID:30325721

37. Hylind RJ, Chandler SF, Beausejour Ladouceur V, Roberts AE, Bezzerides V, **Christensen KD**, Coggins M, Lakdawala NK, MacRae CA, Abrams DJ. Phenotypic characterization of individuals with variants in cardiovascular genes in the absence of a primary cardiovascular indication for testing. Circ Genom Precis Med. 2019;12:e002463. PMID:30919684

38. Hart MR, Biesecker BB, Blout CL, **Christensen KD**, Amendola LM, Bergstrom KL, Biswas S, Bowling KM, Brothers KB, Conlin LK, Cooper GM, Dulik MC, East KM, Everett JN, Finnila CR, Ghazani AA, Gilmore MJ, Goddard KAB, Jarvik GP, Johnston JJ, Kauffman TL, Kelley WV, Krier JB, Lewis KL, McGuire AL, McMullen C, Ou J, Plon SE, Rehm H, Richards CS, Romasko EJ, Sagardia AM, Spinner NB, Thompson ML, Turbitt E, Vassy JL, Wilfond BS, Veenstra DL, Berg JS, Green RC, Biesecker LG, Hindorff LA. Secondary findings from clinical genomic sequencing: prevalence, patient perspectives, family history assessment, and health-care costs from a multisite study. Genet Med. 2019;21:1100-10. PMID:30287922

39. Robinson JO, Wynn J, Biesecker B, Biesecker LG, Bernhardt B, Brothers KB, Chung WK, **Christensen KD**, Green RC, McGuire AL, Hart MR, Griesemer I, Patrick DL, Rini C, Veenstra D, Cronin AM, Gray SW. Psychological outcomes related to exome and genome sequencing result disclosure: a meta-analysis of seven Clinical Sequencing Exploratory Research (CSER) Consortium studies. Genet Med. 2019;21:2781-90. PMID:31189963

40. **Christensen KD**, Karlawish J, Roberts JS, Uhlmann WR, Harkins K, Wood EM, Obisesan TO, Le LQ, Cupples LA, Zoltick ES, Johnson MS, Bradbury MK, Waterston LB, Chen CA, Feldman S, Perry DL, Green RC. Disclosing genetic risk for Alzheimer's dementia to individuals with mild cognitive impairment. Alzheimers Dement (N Y). 2020;6(1):e12992. PMID:32211507

41. Mackay ZP**, Dukhovny D, Phillips KA, Beggs AH, Green RC, Parad RB, **Christensen KD**. Quantifying downstream health care utilization in studies of genomic testing. Value Health. 2020;23(5):559-65. PMID:32389220
42. Wiesner GL, Rahm AK, Appelbaum P, Aufox S, Bland S, Blout CL, **Christensen KD**, Chung WK, Clayton EW, Green RC, Harr MH, Henrikson N, Hoell C, Holm IA, Jarvik GP, Kullo IJ, Lammers PE, Larson EB, Lindor NM, Marasa M, Myers MF, Peterson JF, Prows CA, Ralston JD, Rasouly HM, Sharp RR, Smith ME, Van Driest SL, Williams JL, Williams MS, Wynn J, Leppig KA. Returning results in the genomic era: Initial experiences of the eMERGE Network. J Pers Med. 2020;10(2):E30 PMID:32349224
43. Pereira S, Hsu RL, Islam R, Robinson JO, Ramapriyan R, Sirotich E, Maxwell MD, Majumder M, Blout C, **Christensen KD**, Mehlman M, Parasidis E, Gardner CL, Killian JM, De Castro M, Green RC, McGuire AL. Airmen and Healthcare Providers' attitudes toward the use of genomic sequencing in the US Air Force: Findings from the MilSeq Project. Genet Med. In Press.

Other peer-reviewed publications

1. Roberts JS, Shalowitz DI, **Christensen KD**, Everett JN, Kim SYH, Raskin L, Gruber SB. Returning individual research results: development of a cancer genetics education and risk communication protocol. J Empir Res Hum Res Ethics 2010;5:17-30. PMID:20831418
2. Roberts JS, **Christensen KD**, Green RC. Using Alzheimer's disease as a model for genetic risk disclosure: implications for personal genomics. Clin Genet 2011;80:407-14. PMID:21696382
3. Lautenbach DM, **Christensen KD**, Sparks JA, Green RC. Communicating genetic risk information for common disorders in the era of genomic medicine. Annu Rev Genomics Hum Genet 2013;14:491-513. PMID:24003856
4. **Christensen KD**, Green RC. How could disclosing incidental information from whole-genome sequencing affect patient behavior? Per Med. 2013;10:377-86. PMID:24319470
5. Gray SW, Martins Y, Feuerman LZ, Bernhardt BA, Biesecker BB, **Christensen KD**, Joffe S, Rini C, Veenstra D, McGuire,AL, for the 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;16:727-35. PMID:24625446
6. **Christensen KD**, Kalia SS, Green RC. Incidental findings from genetic testing. In UpToDate, Raby BA (Ed), UpToDate, Waltham, MA. 2014. Updated 2016, 2017, 2018, 2019.
7. Kahn CM, Rini C, Bernhardt BA, Roberts JS, **Christensen KD**, Evans JP, Brothers KB, Roche MI, Berg JS, Henderson GE. How can psychological science inform questions about clinical genomic sequencing? J Genet Couns. 2015;24:193-204. PMID:25488723
8. **Christensen KD**, Hulick PJ. Overview of genetics concepts and the genetic basis of disease. In UpToDate, Slavotinek A (Ed), UpToDate, Waltham, MA. 2020.

Research publications without named authorship (selected)

1. Kong SW, Lee I-H, Leshchiner I, Krier J, Kraft P, Rehm HL, Green RC, Kohane IS, MacRae CA, and the MedSeq Project*. Summarizing polygenic risks for complex diseases in a clinical whole-genome report. Genet Med. 2015;17:536-44. PMID:25341114 (member of the investigative team cited in the acknowledgments of the manuscript assisting in designing the trial).

2. Green RC, Goddard KA, Jarvik GP, Amendola LM, Appelbaum PS, Berg JS, Bernhardt BA, Biesecker LG, Biswas S, Blout CL, Bowling KM, Brothers KB, Burke W, Caga-Anan CF, Chinnaiyan AM, Chung WK, Clayton EW, Cooper GM, East K, Evans JP, Fullerton SM, Garraway LA, Garrett JR, Gray SW, Henderson GE, Hindorff LA, Holm IA, Lewis MH, Hutter CM, Janne PA, Joffe S, Kaufman D, Knoppers BM, Koenig BA, Krantz ID, Manolio TA, McCullough L, McEwen J, McGuire A, Muzny D, Myers RM, Nickerson DA, Ou J, Parsons DW, Petersen GM, Plon SE, Rehm HL, Roberts JS, Robinson D, Salama JS, Scollon S, Sharp RR, Shirts B, Spinner NB, Tabor HK, Tarczy-Hornoch P, Veenstra DL, Wagle N, Weck K, Wilfond BS, Wilhelmsen K, Wolf SM, Wynn J, Yu JH*. Clinical Sequencing Exploratory Research Consortium: accelerating evidence-based practice of genomic medicine. Am J Hum Genet. 2016;98:1051-66. PMID:27181682 (member of the consortium cited in the author list assisting in study conduct and data analysis).
3. Krieger JL, Murray F, Roberts JS, Green RC*. The impact of personal genomics on risk perceptions and medical decision-making. Nat Biotechnol. 2016;34:912-8. PMID:27606453 (member of the investigative team cited in the acknowledgments of the manuscript assisting in protocol development).
4. Cirino AL, Lakdawala NK, McDonough B, Conner L, Adler D, Weinfeld M, O'Gara P, Rehm HL, Machini K, Lebo M, Blout C, Green RC, MacRae CA, Seidman CE, Ho CY*. A comparison of whole genome sequencing to multigene panel testing in hypertrophic cardiomyopathy patients. Circulation Cardiovascular Genetics. 2017;10:e001768. PMID:29030401 (member of the investigative team cited in the data supplement of the manuscript assisting in protocol development and data analysis).
5. Landry L, Nielsen DE, Carere DA, Roberts JS, Green RC*. Racial minority group interest in direct-to-consumer genetic testing: findings from the PGen Study. J Community Genet. 2017;8:293-301. PMID:28868574 (member of the investigative team cited in the acknowledgments of the manuscript assisting in protocol development).
6. Ceyhan-Birsoy O, Murry JB, Machini K, Lebo MS, Yu TW, Fayer S, Genetti CA, Schwartz TS, Agrawal PB, Parad RB, Holm IA, McGuire AL, Green RC, Rehm HL, Beggs AH*. Interpretation of genomic sequencing results in healthy and ill newborns: results from the BabySeq Project. Am J Hum Genet. 2019;104:76-93. PMID:30609409 (member of the investigative team cited in the consortia section of the manuscript assisting in protocol development).
7. Holm IA, McGuire A, Pereira S, Rehm H, Green RC, Beggs AH*. Returning a genomic result for an adult-onset condition to the parents of a newborn: insights from the BabySeq Project. Peiatrics;143,S37-43. PMID: 30600270 (member of the investigative team cited in the acknowledgments section of the manuscript assisting in protocol development and study execution).
8. Lane WJ, Aguad M, Smeland-Wagman R, Vege S, Mah HH, Joseph A, Blout CL, Nguyen TT, Lebo MS, Sidhu M, Lomas-Francis C, Kaufman RM, Green RC, Westhoff CM*. A whole genome approach for discovering the genetic basis of blood group antigens: independent confirmation for P1 and Xg^a. Transfusion. 2019;59:908-15. PMID:30592300 (member of the investigative team cited in the consortia section of the manuscript assisting in protocol development and study execution).
9. Ceyhan-Birsoy O, Murry JB, Machini K, Lebo MS, Yu TW, Fayer S, Genetti CA, Schwartz TS, Agrawal PB, Parad RB, Holm IA, McGuire AL, Green RC, Rehm HL, Beggs AH*. Interpretation of genomic sequencing results in healthy and ill newborns: results from the BabySeq Project. 2019;104:76-93. PMID: 30609409 (member of the consortium listed near the acknowledgments assisting in protocol development).
10. The eMERGE Consortium*. Harmonizing clinical sequencing and interpretation for the eMERGE III Network. Am J Hum Genet. 2019;105:588-605. PMID:31447099 (member of the consortium listed in the appendix assisting in protocol development and study execution).

Thesis

Christensen KD. Comparing self-referred and systematically recruited participants in genetic susceptibility testing research: implications for uptake and responses to results [dissertation]. Ann Arbor (MI): University of Michigan; 2012.

Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings

1. **Christensen KD**, Roberts JS, Diamond PM, McGuire AL, Green RC. Behavioral and psychological responses to whole genome sequencing: Findings from the MedSeq Project. Broad Institute Annual Retreat; Dec 2017; Boston, MA; Poster # 25
2. **Christensen KD**, Robinson JO, Lu CY, Blout C, Green RC, McGuire AL. Changes to willingness to pay for whole genome sequencing after experience. ACMG Annual Meeting; Apr 2018; Charlotte, NC; Abstract # 555
3. **Christensen KD**, Phillips KA, McGuire AL, Green RC. Patient-reported outcomes in a pilot randomized trial of genome sequencing. ISPOR Europe Meeting; Nov 2018; Barcelona, Spain**;** Abstract # PMU116
4. **Christensen KD**, Dukhovny D, Agrawal P, Genetti C, Holm I, Mackay Z, McGuire AL, Pereira S, Schwartz T, Yu T, Beggs AH, Green RC, Parad R. Screening newborns with genomic sequencing increases short-term downstream health care costs: Preliminary Findings from the BabySeq Project. ACMG Annual Meeting; Apr 2019; Seattle, WA; Abstract # 949
5. **Christensen KD**, Dukhovny D, Agrawal P, Genetti C, Holm I, Mackay Z, McGuire AL, Pereira S, Schwartz T, Yu T, Beggs AH, Green RC, Parad R. Screening newborns with genomic sequencing increases short-term downstream health care costs: Preliminary Findings from the BabySeq Project. Pediatric Academic Societies Meeting; Apr 2019; Baltimore, MD; Publication # 4101.11
6. **Christensen KD**, Gooch M, McMahon PM, Stout NK, Yeh JM, Wu AC. Newborn genomic screening for hypertrophic cardiomyopathy: penetrance estimates from the PreEMPT Model. ASHG Annual Meeting; Oct 2019; Houston, TX; Abstract # 656
7. **Christensen KD**, Gooch M, McMahon PM, Stout NK, Yeh JM, Wu AC. Penetrance of hypertrophic cardiomyopathy during childhood: estimates from The PreEMPT Model. Mar 2020; San Antonio, TX; Abstract # 1668.

Narrative Report

I am an Instructor in Population Medicine at the Harvard Pilgrim Health Care Institute who conducts research about the impact of genomic testing in patient care, especially the care of healthy individuals. My current efforts focus on economic outcomes, although I also continue to contribute to studies focused on medical and behavioral outcomes.

My Area of Excellence is investigation, particularly translational research. I began my research career in 2006 as a co-investigator on the REVEAL Study. My published work in these trials demonstrated the safety and personal utility of genetic risk disclosure about Alzheimer disease to healthy patients, and provided some of the earliest evidence about the unanticipated benefits of disclosing secondary genomic findings. Over time, I expanded my focus to address topics such as genetic literacy and research results disclosure, and I examined the impact of genomic innovations on physicians and healthcare systems in addition to patients. I received postdoctoral training at BWH and HMS, developing skills in genomic variant classification through an individual NIH F32 National Research Service Award. I also used my F32 Award to pursue training at the Harvard School of Public Health in economic analyses, given growing concerns that genomic sequencing may not provide value.

In 2016, I was awarded an NIH K01 Research Career Development Award to further hone skills in cost-effectiveness research and to accelerate my transition to independence. Using these skills, I have been leading the economic analyses on numerous NIH-funded trials of genomic sequencing. I published cost analyses of the MedSeq Project, providing some of the only evidence from randomized trials about economic outcomes; and found that sequencing led to less downstream spending than many experts feared. I am leading a parallel effort in the BabySeq Project, a trial of genomic screening of healthy and sick newborns. I also oversee analyses of healthcare utilization in numerous other clinical studies, and I co-lead an “econogenomics” research group that has collaborated on grant proposals to model the long-term economic consequences of genomic sequencing. The group was funded by NICHD to model the cost-effectiveness of using sequencing to supplement newborn screening. Most recently, I was awarded a grant by Sanford Health to lead research to understand how incorporating genetic screening impacts primary care, including its cost-effectiveness. In recognition of my work, I have given numerous presentations at high-profile national and international conferences and have been invited to contribute to national consortia.

My teaching experiences have capitalized on my expertise in translational genomics. I have given lectures about the clinical and economic impact of genomic testing in undergraduate courses as well as the HMS Advanced Human Genetics Training Program, and I led efforts with the Genetic Alliance to develop genetics education materials suitable for patients and non-specialist physicians alike. I have published a peer-reviewed summary in UpToDate to help physicians respond to incidental findings from genetic testing. The majority of my teaching effort is devoted to mentoring. Four of my trainees have published first-author peer-reviewed manuscripts under my mentorship, and others are well-positioned to accomplish the same.