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| **Date Prepared:** | March 3, 2021 |
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| **Home Address:** | 9 Oak Hill St.  Newton, MA, USA 02459 |
| **Work Phone:** | 617-603-0070 |
| **Work Email:** | skathiresan@vervetx.com |
| **Place of Birth:**  **Citizenship:** | Tirupattur, India  USA |

[Education](http://cv.hms.harvard.edu/index.php?page=education)

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| 1988-1992 | B.A. | History *Summa Cum Laude* | University of Pennsylvania |
| 1992-1997 | M.D. | Medicine | Harvard Medical School |

[Postdoctoral Training](http://cv.hms.harvard.edu/index.php?page=postdoc)

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| Year(s) | Title | | | Specialty/Discipline  (Lab PI for postdoctoral research) | | Institution |
| 07/97-06/00 | | Resident | Medicine | | Massachusetts General Hospital | | |
| 07/00-06/02 | | Clinical Fellow | Medicine | | Massachusetts General Hospital and Harvard Medical School | | |
| 07/02-06/03 | | Chief Resident | Medicine | | Massachusetts General Hospital | | |
| 07/03-06/05 | | Postdoctoral Research Fellow | Genetic epidemiology  Christopher J. O’Donnell, MD, MPH | | The National Heart, Lung, and Blood Institute’s Framingham Heart Study | | |
| 06/05-01/08 | | Postdoctoral Research Fellow | Human genetics  David Altshuler, MD, PhD | | Broad Institute | | |

[Faculty Academic Appointments](http://cv.hms.harvard.edu/index.php?page=academic_appt)

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| Year(s) | | Academic Title | | Department | | Academic Institution |
| 07/02-12/07 | Instructor | | Medicine | | Harvard Medical School | | |
| 01/08-01/12 | Assistant Professor | | Medicine | | Harvard Medical School | | |
| 02/12-06/18 | Associate Professor | | Medicine | | Harvard Medical School | | |
| 06/18-06/19 | Professor | | Medicine | | Harvard Medical School | | |
| 07/19-7/21 | Professor | | Medicine | | Harvard Medical School | | |
| 7/21- | Lecturer | | Medicine | | Harvard Medical School | | |

[Appointments at Hospitals/Affiliated Institutions](http://cv.hms.harvard.edu/index.php?page=hospital_appt)

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| Year(s) | Position Title | | | Department (Division, if applicable) | | Institution | |
| 07/02-06/04 | | Assistant | Medicine | | Massachusetts General Hospital | |
| 07/04-06/05 | | Graduate Assistant | Medicine  Cardiology Division | | Massachusetts General Hospital | |
| 07/05-8/21 | | Assistant Physician | Medicine  Cardiology Division | | Massachusetts General Hospital | |
| 09/09-11/14 | | Associate Member | Medical and Population Genetics | | Broad Institute | |
| 12/14-6/19 | | Institute Member | Medical and Population Genetics | | Broad Institute | |
| 7/19-8/21 | | Institute Member | Medical and Population Genetics | | Broad Institute | |
| 9/21- | | Honorary Physician | Medicine | | Massachusetts General Hospital | |
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[Other Professional Positions](http://cv.hms.harvard.edu/index.php?page=other)

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| Year(s) | Position Title | Institution |
| 2008-2014 | Global Atherosclerosis Scientific Advisory Board | Merck Pharmaceuticals |
| 2011-2012 | AHRQ Healthcare Horizon Scanning System | ECRI Institute |
| 2012-2016 | Scientific Advisory Board | Celera |
| 2013-2014 | Scientific Advisory Board | Global Genomics Group |
| 2013-2017 | Scientific Advisory Board | Catabasis |
| 2014-2020 | Scientific Advisory Board | Regeneron Genetics Center |
| 2016-2019 | Scientific Advisory Board | Genomics plc |
| 2019- | Chief Executive Officer | Verve Therapeutics |

[Major Administrative Leadership Positions](http://cv.hms.harvard.edu/index.php?page=admin)

Local

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| Year(s) | Position Title | Institution (note if specific department) |

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| --- | --- | --- | --- |
| 2002-2003 | | Chief Resident | Massachusetts General Hospital |
|  | | Internal Medicine |  |
| 2004-2005 | | Medical Director | Massachusetts General Hospital |
|  | | Cardiac Rehabilitation Program |  |
| 2005-2007 | | Medical Director | Massachusetts General Hospital |
|  | | Cardiovascular Disease Prevention Center |  |
| 2007-2016 | | Director, Preventive Cardiology | Massachusetts General Hospital |
| 2008-2014 | | Course Co-director | Massachusetts General Hospital |
|  | | Principles of Internal Medicine |  |
| 2008-2015 | | Course Director | Massachusetts General Hospital |
|  | | Cardiology Grand Rounds |  |
| 2015 | Course Co-director | Harvard Medical School |
|  | IN755.0, Human Genetics |  |
| 2014-2019 | Vice-Chair, Faculty | Broad Institute |
| 2015-2019 | Director |  |
|  | Cardiovascular Disease Initiative | Broad Institute |
| 2015-2019 | Co-director |  |
|  | Medical and Population Genetics Program | Broad Institute |
| 2016-2019 | Director |  |
|  | Center for Genomic Medicine | Massachusetts General Hospital |
| Year(s) | Position Title | Institution (note if specific department) |
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| Year(s) | Position Title | Institution (note if specific department) |

[Committee Service](http://cv.hms.harvard.edu/index.php?page=service)

Local

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| Year(s) of  Membership | Name of Committee | Institution/Organization |
| Dates of Role(s) | Title of Role(s) |

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| --- | --- | --- | --- | --- | --- |
| 1993-1994 | | Curriculum Committee | | Harvard Medical School | |
| 1993-1994 | | Admissions Committee | | Harvard Medical School | |
| 1997-2000 | | Teaching and Training Council  1997-2000 | | Massachusetts General Hospital  Class Representative | |
| 1997-2000 | | Curriculum Committee | | Massachusetts General Hospital | |
| 1998-2000 | | Medical Student Education Subcommittee  1998-2000 | | Massachusetts General Hospital  Class Representative | |
| 1999 | | Resident Physicians Section  1999 | | Massachusetts Medical Society  Delegate | |
| 2002-2003 | | Teaching and Training Council  2002-2003 | | Massachusetts General Hospital  Member | |
| 2002-2003 | | Clinical Practice Council | | Massachusetts General Hospital | |
| 2002-2003 | | Internal Medicine Residency Internship Selection Committee | | Massachusetts General Hospital | |
| 2009-2019 | | Cardiology Fellowship Selection Committee | | Massachusetts General Hospital | |
| 2012 | | Honors Thesis Review Committee | | Harvard Medical School | |
|  | | XiaomingJia | |  | |
| 2015 | | Wallenberg Fellowship Selection Committee | | Broad Institute | |
| 2015-2019 | | Partners Personalized Medicine Oversight Committee | | Partners Healthcare | |
| 2016-2019 | | Executive Committee on Research | | Massachusetts General Hospital | |
| Year(s) of  Membership | | Name of Committeefqdq | Institution/Organization |
| Dates of Role(s) | Title of Role(s) |

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| Year(s) of  Membership | Name of Committee | Institution/Organization |
| Dates of Role(s) | Title of Role(s) |

National and International

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| Year(s) of  Membership | Name of Committee | Institution/Organization |
| Dates of Role(s) | Title of Role(s) |

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| 2015 | Working Group of the Advisory Committee to the NIH Director | US Precision Medicine Initiative |
| 2012 | Organizing Committee | Nature Conferences: Genomics of Common Diseases |
| 2016 | Organizing Committee | Keystone Symposia: Atherosclerosis |

[Professional Societies](http://cv.hms.harvard.edu/index.php?page=societies)

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| Year(s) of  Membership | Society Name |  |
| Dates of Role(s) | Title of Role(s) |

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| --- | --- | --- |
| 1992- | Massachusetts Medical Society | Member |
| 1992- | American Medical Association | Member |
| 1997-2019 | American College of Physicians | Member |
| 2000-2019 | American College of Cardiology | Member |
| 2000- | Paul Dudley White Society | Member |
| 2003- | American Heart Association | Member |
| 2004- | American Society of Human Genetics | Member |
| 2011- | The American Society for Clinical Investigation | Member |
| 2011-2014 | American Society of Human Genetics | Program Committee |
| 2015-2018 | American Heart Association | Strategic Planning Task Force, Institute for Precision Cardiovascular Medicine |
| 2016- | Deuel Conference on Lipids | Board Member |

[Grant Review Activities](http://cv.hms.harvard.edu/index.php?page=grant)

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| Year(s) of  Membership | Name of Committee | Institution/Organization |
| Dates of Role(s) | Title of Role(s) |

|  |  |  |
| --- | --- | --- |
| 2009 | NIDDK R21 Study Section  2009 | NIH  Ad hoc Member |
| 2010 | Genetics of Health and Disease  2010 | NIH  Ad hoc Member |
| 2011-2012 | NHLBIK99 Study Section  2011, 2012 | NIH  Ad hoc Member |
| 2011-2013 | Resequencing/Genotyping DNA Service Panel | NHLBI |
|  | 2011, 2012, 2013 | Ad hoc member |
| 2013 | American Heart Association Study Section 2013 | AHA  Ad hoc member |
| 2014 | U24, Collaborative Research Infrastructure to Develop Research Strategies to IdentifyPotential Therapeutic Targets Based on Genetic Factors Influencing Human Life Span and Health Span | NIH  Ad hoc member |
| 2016 | Wellcomme Trust Oxford Centre for Human Genetics: Site Review | Wellcome Trust  Ad hoc member |

[Editorial Activities](http://cv.hms.harvard.edu/index.php?page=editorial)

Ad hoc Reviewer

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| Journals for which you serve as a reviewer |

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| Nature  New England Journal of Medicine  Nature Genetics  Nature Medicine  Science  Cell  JAMA  Lancet  Journal of Clinical Investigation  Circulation  Journal of the American College of Cardiology  Atherosclerosis, Thrombosis, and Vascular Biology  American Journal of Human Genetics  PLoS Biology  PLoS Genetics  Human Molecular Genetics  European Journal of Human Genetics  Circulation Cardiovascular Genetics |

Other Editorial Roles

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| Year(s) | Role | Journal Name |

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| 2009-2014 | Editorial board member | Circulation Cardiovascular Genetics |

[Honors and Prizes](http://cv.hms.harvard.edu/index.php?page=honors)

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| Year | Name of Honor/Prize | | Awarding Organization | | Achievement for which awarded  (if unclear from award title) | |
| 1988 | | National Merit Scholarship | | National Merit Scholarship Corporation | |  | |
| 1991 | | *Phi Beta Kappa* | | University of Pennsylvania | |  | |
| 1992 | | Benjamin Franklin Scholar | | University of Pennsylvania | | Honors coursework | |
| 1992 | | General Honors Certificate | | University of Pennsylvania | | Honors coursework | |
| 1994 | | Linnane Scholarship | | Harvard Medical School | | Outstanding academic work in Year I | |
| 1995 | | Albert Schweitzer Urban Community Service Fellow | | The Albert Schweitzer Fellowship | | Community service | |
| 2001-2002 | | DeSanctis Clinical Scholar in Cardiology | | Massachusetts General Hospital | | Clinical excellence | |
| 2001-2002 | | Chief Administrative Fellow | | Massachusetts General Hospital | | Clinical and administrative excellence | |
| 2002 | | Partners in Excellence Award | | Massachusetts General Hospital Partners HealthCare System | | Internal Medicine training program administration | |
| 2005 | | First place, | | Cardiovascular Young Investigators Forum, Northwestern University | | Clinical Research | |
| 2007, 2008, 2012-2014 | | Excellence in Tutoring Award | | Harvard Medical School, Human Genetics Year I Course | |  | |
| 2008 | | Finalist, Irvine H. Page Young Investigator Research Award | | Council on Atherosclerosis, Thrombosis, and Vascular Biology | |  | |
| 2009 | | Finalist, Young Investigator Competition | | American Heart Association Council on Functional Genomics and Translational Biology | |  | |
| 2010 | | Stephen Krane Outstanding Young Investigator Award | | Department of Medicine, Massachusetts General Hospital | |  | |
| 2011 | | Howard Goodman Award | | Department of Molecular Biology, Massachusetts General Hospital | |  | |
| 2013 | | MGH Research Scholar | | Executive Committee On Research and Research Advisory Council (RAC), Massachusetts General Hospital | |  | |
| 2015 | | Martin Prize  Basic Research | | Executive Committee On Research and Research Advisory Council (RAC), Massachusetts General Hospital | |  | |
| 2015 | | Finalist | | Howard Hughed Medical Investigator Search | |  | |
| 2017 | | Distinguished Scientist Award | | American Heart Association | | Contributions that have advanced understanding, diagnosis and treatment of cardiovascular disease and stroke | |
| 2018 | | Curt Stern Award | | American Society of Human Genetics | | Award recognizes the genetics and genomics researcher who has made outstanding scientific achievements during the last ten years | |
| 2018 | | Joseph A. Vita Award | | The American Heart Association | | The award recognizes an investigator whose published work has had a transformative impact on basic, translational, or clinical cardiovascular research. | |
| 2021 | | Outstanding Contribution to Science Award | | William Harvey Research Institute | | Recognition for outstanding contributions in biomedical research | |

[Funding Information](http://cv.hms.harvard.edu/index.php?page=funded)

Past

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| 1996-1997 | Cloning and characterization of hREC2, a protein involved in DNA repair |
|  | Harvard Medical School Medical Student Research Grant |
|  | PI |
|  | The major goal was to clone and characterize the function of hREC2, a novel protein involved in DNA repair |
| 2004-2005 | Aortic valve calcification detected by cardiac computed tomography: relations to atherosclerotic risk factors, inflammatory biomarkers, and genetic influences |
|  | American College of Cardiology/Merck Adult Cardiology Research Fellowship |
|  | PI |
|  | The main goal of this study was to test the hypothesis that atherosclerotic risk factors are associated with calcification of the aortic and mitral valve as detected by cardiac computed tomography. |
| 2004-2006 | Aortic valve calcification detected by cardiac multidetector computed tomography: relations to atherosclerotic risk factors, inflammatory biomarkers, and genetic influences |
|  | GlaxoSmithKline Research & Education Foundation for Cardiovascular Disease: 2004 Competitive Grants Award |
|  | PI |
|  | The main goal of this study was to test the hypothesis that atherosclerotic risk factors are associated with calcification of the aortic and mitral valve as detected by cardiac computed tomography. |
| 2005-2008 | Osteoprotegerin pathway biomarkers, genes, and cardiovascular disease |
|  | Doris Duke Charitable Foundation Clinical Scientist Development Award |
|  | PI |
|  | The main goal of this study was to test the hypothesis that population variation in the RANK (receptor activator of nuclear factor kappa-B), RANK ligand, and osteoprotegerin pathway influences the risk of developing atherosclerotic vascular remodeling and/or clinical cardiovascular disease. |
| 2006-2008 | Finding genes for heart attack in women |
|  | Fannie E. Rippel Foundation |
|  | PI |
|  | The major goal of this study was to test the hypothesis that common genetic variants relate to risk for early-onset myocardial infarction in women. |
| 2006-2007 | A Genome-wide search for common sequence variants associated with early-onset myocardial infarction |
|  | National Center for Research Resources |
|  | PI |
|  | The major goal of this study was to test the hypothesis that common genetic variants relate to risk for early-onset myocardial infarction. |
| 2006-2009 | Osteoprotegerin pathway: relations of genes and biomarkers to cvd in the community |
|  | National Heart, Lung, and Blood Institute – K23HL083102 |
|  | PI |
|  | The main goal of this study was to test the hypothesis that population variation in the RANK (receptor activator of nuclear factor kappa-B), RANK ligand, and osteoprotegerin pathway influences the risk of developing atherosclerotic vascular remodeling and/or clinical cardiovascular disease. |
| 2006-2010 | Candidate gene association resource |
|  | National Heart, Lung, and Blood Institute – N01HC65226 |
|  | Co-Investigator |
|  | The major goal of this study was to test the association of common genetic variants in ~2000 biologic candidate genes with a range of cardiovascular phenotypes. |
| 2007-2010 | A Genome-wide association study for early-onset myocardial infarction |
|  | National Heart, Lung, and Blood Institute – R01HL87676 |
|  | Co-investigator |
|  | The major goal of this project is to conduct a genome-wide association study for early-onset myocardial infarction in a set of 3000 cases and 3000 matched controls. |
| 2009-2011 | Molecular mechanisms and pathways of novel genomic loci regulating plasma lipids |
|  | National Heart, Lung, and Blood Institute – RC2HL101864 |
|  | PI of subcontract ($524,133) |
|  | The major goal of this proposal is to use high-throughput approaches in mice and cells coupled with molecular network analysis to interrogate 38 of the most compelling novel genes identified by genome-wide association studies for plasma lipids. |
| 2009-2011 | Genetic risk stratification to identify individuals for early statin therapy |
|  | National Heart, Lung, and Blood Institute – RC1HL099634 |
|  | PI of subcontract ($129,490) |
|  | The major goal is to test the ability of a panel of genetic variants to predict benefits and risks with statin therapy. |
| 2009-2011 | Identification of causal variants at novel GWAS loci associated with lipid traits |
|  | National Heart, Lung, and Blood Institute – RC1HL099793 |
|  | PI of subcontract ($615,461) |
|  | The major goal is to identify causal genes and variants by resequencing genetic loci associated with plasma lipids in individuals with extremely high or low lipids. |
| 2010-2011 | Lysosomal acid lipase mutations and risk for myocardial infarction |
|  | Shire Human Genetic Therapies (sponsored research agreement) |
|  | PI ($150,000) |
|  | The major goal is to test the hypothesis that mutations in the LIPA gene relate to risk for MI in humans. |
| 2008-2012 | Genome-wide association study of cardiac structure and function |
|  | National Heart, Lung, and Blood Institute – R01HL093328 |
|  | PI of subcontract ($166,204) |
|  | The major goal of this project is to discover common genetic variants that contribute to inter-individual variation in left ventricular mass, dimensions, systolic function, wall thickness, and left atrial and aortic root size in community-based samples. |
| 2009-2012 | Comprehensive sequencing and analysis of variation in NHLBI cohorts |
|  | Comprehensive sequencing and analysis of variation in NHLBI cohorts |
|  | National Heart, Lung, and Blood Institute – RC2HL102925 |
|  | Co-investigator ($24,870,017) |
|  | The major goal is to conduct whole exome sequencing in population-based cohort samples and correlate rare genetic variation with cardiovascular phenotypes. |
| 2008-2013 | Towards therapeutic targets for type 2 diabetes and MI in the background of type 2 diabetes |
|  | Pfizer |
|  | Co-PI ($15,414,415) |
|  | The major goals of this project are to discover novel therapeutic targets for T2D and its most serious vascular complication, MI, and to gain meaningful insights into disease pathophysiology through detailed physiologic investigation in patients carrying risk mutations for T2D and MI. |
| 2010-2013 | Using human genetics to validate therapeutic targets related to plasma lipids and risk for MI |
|  | Merck & Co. (sponsored research agreement) |
|  | PI ($1,299,790) |
|  | The major goal is to perform deep sequencing of ~1000 lipid genes in patients with and without MI in order to identify mutations that alter plasma lipids and risk for MI in humans. |
| 2011-2015 | Integrating lipid genotypes and phenotypes in iPS derived hepatocytes/adipocytes |
|  | National Heart, Lung, and Blood Institute - U01HL107440 |
|  | MPI ($9,282,560) |
|  | We propose to: (1) develop efficientprotocols to obtain IPS cell lines from blood samples, followed by differentiation into functionalhepatocytes and adipocytes; (2) scale up these protocols to enable high-throughput generation of IPScell lines, hepatocytes, and adipocytes from ~400 Individuals In the Framingham Offspring Cohort; and(3) perform gene expression and metaboiomic profiling from these hepatocytes and adipocytes,enabling Integrative statistical analyses of genotypes with gene expression and metabolite levels, aswell as existing phenotype data such as subclinical measures of atherosclerosis. |
| 2011-2015 | Molecular mechanisms of novel genes associated with plasma lipids and cardiovascular disease |
|  | Fondation Leducq - Transatlantic Networks of Excellence |
|  | Project PI on one of six projects in the network ($949,718) |
|  | The network represents a multidisciplinary effort to elucidate the molecular architecture and molecular mechanisms that underlie six compelling novel genes found by genome-wide association studies to be associated with coronary heart disease. |
| 2014-2015 | Exomic sequencing of LDL genes in the population to define the epidemiology and clinical consequences of familial hypercholesterolemia |
|  | Aegerion (sponsored research agreement) |
|  | PI ($136,664) |
|  | The major goal of this proposal is to assemble previously generated exome sequences from population-based cohorts and perform meta-analysis to understand the epidemiology of familial hypercholesterolemia. |
| 2015-2016 | ANGPTL3 deficiency and coronary artery disease |
|  | Regeneron (sponsored research agreement) |
|  | PI ($84,713) |
|  | The goal of this proposal is to test the hypothesis that rare, high-penetrance mutations in ANGPTL3 pathway genes are associated with reduced risk of early onset myocardial infarction. |
| 2011-2016 | Discovery of mendelian dyslipidemia and heart attack genes using exome sequencing |
|  | National Heart, Lung, and Blood Institute - R01HL107816 |
|  | PI ($2,107,754) |
|  | The major goal of this study is to perform exome sequencing to identify the causal genes and mutations in families where high or low LDL cholesterol segregates in a Mendelian pattern. |
| 2012-2016 | Genomic and proteomic architecture of atherosclerosis |
|  | National Heart, Lung, and Blood Institute - R01HL111362 |
|  | PI of subcontract ($69,152) |
|  | Our goal is to identify variants in the human genome and corresponding changes in the arterial proteome that are correlated with premature atherosclerosis. To accomplish this goal, we plan detailed molecular characterization of arterial tissue from subjects in the Pathobiologic Determinants of Atherosclerosis in Youth (PDAY) repository. We will integrate genomic and proteomic data from the PDAY samples and use additional systems biology tools and data from other NIH funded genomic resources to optimize the search for molecular correlates of early disease. |
| 2014-2018 | Identification of common genetic variants for atrial fibrillation and PR interval  National Heart, Lung, and Blood Institute - R01HL092577  Co-investigator ($131,460)  The goal of the supplement is to discover the full spectrum of alleles associated with atrial fibrillation through whole genome sequencing of cases with early-onset atrial fibrillation and a reference group drawn from the Framingham Heart Study. |
| 2014-2019 | Rare variants and NHLBI traits in deeply phenotyped cohorts  National Heart, Lung, and Blood Institute - R01HL120393  PI of subcontract ($35,138)  Using an array focused on coding variants (Exome Chip) genotyped in 9 well-phenotyped cohorts, the primary aim is to discover novel candidate genes and putative functional variants for high-priority heart, lung and blood phenotypes in multi-ethnic cohorts. |
| 2015-2018 | Towards genomic-based prevention of sudden cardiac death  PI ($932,400)  Broad Institute – Broad Next10  The goal of this proposal is to examine the role of Familial Hypercholesterolemia (FH), a known cause of sudden cardiac death (SCD) via myocardial infarction, within the Estonian population as a focused pilot study for genetic-based prevention of SCD. |
| 2015-2019 | eMERGE phase III clinical center at Partners HealthCare |
|  | National Human Genome Research Institute - U01HG008685 |
|  | Co-investigator ($600,000) |
|  | The eMERGE III Clinical Center at Partners HealthCare will leverage a large Biobank and a rich electronic medical record to define the phenotypic impact of mutations emerging from sequencing and then return results on selected variants to Biobank participants using a clinical trial. |
| 2015-2019 | Using genetic variation to study biology of blood lipids and coronary heart disease  National Heart, Lung, and Blood Institute - R01HL127564  MPI ($298,748)  The goal of this proposal is to identify genes and genetic variants associated with blood lipid levels to inform our understanding of the biology of lipids and cardiovascular disease and identify new targets for therapies for cardiovascular disease. |
| 2015-2020 | Discovery of therapeutic agents for cardiovascular diseases based on genomic insights  Bayer (sponsored research agreement)  PI ($2,102,459)  The goal of this proposal is to develop drug therapies to better treat cardiovascular diseases. Specifically, we aim to use deep insights from human genetics to help define a new generation of high-quality cardiovascular targets. |
| 2016-2018 | Association of DNA sequence variants in EPA genes with coronary artery disease  Amarin (Sponsored research agreement)  PI ($91,928)  The main goal of this project is to determine the association of common and low frequency variants in EPA associated genes with coronary artery disease, and discover rare variants in EPA associated with coronary artery disease. |
| 2016-2019 | Systematic cell-based functional screening for LDL and triglyceride genes  National Heart, Lung, and Blood Institute – R33HL120781  MPI ($395,286)  A critical barrier facing human genetic studies is distinguishing alleles causal for disease from nonpathogenic variants. To overcome this challenge, we propose a systematic cell-based functional genomics approach that: 1) establishes cell-based assays to measure apoB biology; 2) tests the effect of specific genes and variants on cellular assays; and 3) analyzes association with either lipids or MI risk after weighting alleles based on their functional significance in these cellular assays. |
| 2016-2019 | Center for common disease genetics  National Heart, Lung, and Blood Institute - UM1HG008895  MPI ($37,129,701)  We aim to develop, apply and test a powerful, reliable and general strategy for comprehensive identification of risk and protective variants that contribute significantly to common diseases. Toward this end, we have assembled a Common Disease Consortium (including >1,100,000 samples from cases and controls for nine diseases and participants from two unusual national biobanks). We aim to sequence and analyze DNA and phenotypes from 450,000 samples, as well as to improve methods for sequencing and analysis. |
| 2016-2019 | Jackson Heart Study renewal - coordinating center - TOPMed analysis supplement  National Heart, Lung, and Blood Institute - HHSN268201300046C |
|  | PI of subcontract ($70,259) |
|  | The goals are to 1) produce a coding and non-coding annotation and analysis pipeline that can be applied to an array of heart, lung, and blood traits to identify candidate causal variants for functional variants and 2) to carry out primary association analyses within these sequence data to identify variants associated with CHD and its quantitative risk factors as well as blood cell traits. |
| 2016-2019 | Data and Research Center (Precision Medicine Initiative)  National Institutes of Health, Office of the Director - U2C OD023196  MPI ($2,593,230)  The Data and Research Center will acquire, organize and provide secure access to data from the ‘All of US’ Research Program of the US Precision Medicine Initiative. The All of Us Research Program will be a participant-engaged, data-driven prospective cohort supporting research at the intersection of lifestyle, environment, and genetics to produce new knowledge with the goal of developing more effective ways to prolong health and treat disease. The cohort expects to recruit 1 million or more volunteers. The Data and Research Center will provide research support for the scientific data and analysis tools for the program, helping to build a vibrant community of researchers from community colleges to top healthcare research institutions and industries, and including citizen scientists, who can propose studies using this information. |
| 2016-2019 | ANGPTL3 deficiency and atherosclerosis in humans |
|  | National Heart, Lung, and Blood Institute - R01 HL131961 |
|  | PI of subcontract ($46,464) |
|  | The goal of this project is to determine the vascular and metabolic effects of ANGPTL3 deficiency in individuals from both Mendelian families and population-based cohorts. |

Current

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[Teaching of Students in Courses](http://cv.hms.harvard.edu/index.php?page=students)

Local

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| --- | --- | --- |
| 2002 | Introduction to Clinical Medicine | Harvard Medical School |
|  | Year II, Two Medical Students | Contact: 80 hours |
| 2002-2003 | Massachusetts General Hospital Medicine Sub-internship | Harvard Medical School |
|  | Year IV, Eight Medical Students | Contact: 1 hour/month |
| 2002-2008 | Massachusetts General Hospital Medicine Core Clerkship | Harvard Medical School |
|  | Year III, Twenty-Four Medical Students | Contact: 1 hour/3 months |
| 2003-2005 | Human Systems Cardiovascular Course | Harvard Medical School |
|  | Year II, Forty Medical Students | Contact: 4 hours |
| 2007-2010, 2013 | GN711.0, Genetics in Medicine: From Bench to Bedside | Harvard Medical School |
|  | BBS students | Contact: 3 hours |
| 2009-2012 | EPI507, Genetic Epidemiology | Harvard School of Public Health |
|  | HSPH students | Contact: 1 hour |
| 2012 | i2b2, Informatics for Integrating Biology & the Bedside | Harvard-MIT Health Sciences & Technology |
|  | Harvard and MIT summer students | Contact: 1 hour |
| 2014-2015 | HST.S14, Big Data in Health/Biomedicine | Harvard Medical School/Massachusetts Institute of Technology |
|  |  | Contact: 2 hours |
| 2006-2008, 2011-2019, | IN755.0, Human Genetics  Year I, Eight Medical Students | Harvard Medical School  Contact: 15 hours |
| 2021 | Personalized Genomics, Foundations course | Harvard Medical School |
|  |  | Contact: 2 hours |
| 2021 | MS/MBA Biotechnology: Life Sciences | Harvard Business School |
|  |  | Contact: 2.5 hours |
| 2022 | 2032, CRISPR, Human Editing & Synthetic Biology | Harvard Business School  Contact: 3.5 hours |

[Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)](http://cv.hms.harvard.edu/index.php?page=residents)

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| --- | --- | --- |
| 2002-2003 | Cardiac Arrhythmia Unit | Massachusetts General Hospital |
|  | Eight Medical Residents | Contact: 2 hours/month |
| 2003 | Ambulatory Care Core Curriculum Lecture Series | Massachusetts General Hospital |
|  | Sixteen Medical Residents | Contact: 1 hour every 3 months |
| 2003-2019 | Internal Medicine Residency Core Curriculum Lecture Series | Massachusetts General Hospital |
|  | Eight Medical Residents | Contact: 2 hours |
| 2005-2019 | Adult Cardiology Fellowship Core Curriculum Lecture Series | Massachusetts General Hospital |
|  | Eight Cardiology Fellows | Contact: 2 hours/year |
| 2010 | Clinical research panel member, 5th Annual Fellowship Retreat, Department of Medicine | Massachusetts General Hospital |
|  | Twenty sub-specialty fellows | Contact: 2 hours |
| 2011 | Endocrine Fellows Conference | Massachusetts General Hospital |
|  | 20 1st, 2nd, and 3rd year fellows | Contact: 1 hour |
| 2011-2014 | Tools for Human Investigation | Massachusetts General Hospital |
|  | 12 Medical Residents | Contact: 4 hours |

[**Clinical Supervisory and Training Responsibilities**](http://cv.hms.harvard.edu/index.php?page=clinical)

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| --- | --- | --- |
| 2002-2003 | Internal Medicine Residency  Chief Resident / Massachusetts General Hospital | 70-90 hours per week supervising and training of ~250 residents in the internal medicine residency program |
| 2004-2016 | Director, Preventive Cardiology Fellowship Rotation/Massachusetts General Hospital | 2 fellows a month, one-half day session per week |

[**Laboratory and Other Research Supervisory and Training Responsibilities**](http://cv.hms.harvard.edu/index.php?page=clinical)

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| 2008-2019 | Supervision of 23 post-doctoral research fellows, Massachusetts General Hospital and Broad Institute; primary mentor on six K awards from NIH (see bold in section below) | ~5 hours of 1:1 meetings and 1 hour of lab meeting per week |
| 2008-2019 | Supervision of 6 medical students, Massachusetts General Hospital and Broad Institute | 1 hour of 1:1 meetings and 1 hour of lab meeting per week |
| 2008-2019 | Supervision of 4 research scientists, Massachusetts General Hospital and Broad Institute  Primary mentor on six K awards from NIH | 1 hour of 1:1 meetings and 1 hour of lab meeting per week |

Mentored Trainees and Faculty

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| --- | --- |
| 2006-2008 | Aarti Surti, MD - Physician in Family Medicine, Mount Sinai Beth Israel |
|  | Career stage: pre-doctoral student. Mentoring role: research advisor. Accomplishments:  published two manuscripts while working as a research technician in my group, prior to entering medical school at University of Michigan |
| 2007-2009 | Mary Keebler, MD - Medical Director, Ventricular Assist Device Program & Assistant Professor of Medicine, Vanderbilt Heart and Vascular Institute |
|  | Career stage: post-doctoral fellow. Mentoring role: research advisor. Accomplishments:  Published one manuscript; served as a mentor on a training grant from Charles A. King Trust, and served as a mentor for a clinical research loan repayment program award from NIH. |
| 2008-2011 | Kiran Munsunuru, MD, PhD – Associate Professor of Medicine, Perelman School of Medicine, University of Pennsylvania |
|  | Career stage: post-doctoral fellow. Mentoring role: research advisor. Accomplishments:  published 11 manuscripts including two in *Nature* and one in the *N Engl J Med*; primary mentor on a **K99 award** (3rd percentile score) and Young Investigator Award from American Heart Association Council on Functional Genomics and Translational Biology. |
| 2008-2011 | Kenechi Ejebe, MD - Fellow in Psychiatry, Mt. Sinai School of Medicine  Career stage: medical student. Mentoring role: research advisor. Accomplishments:  published five manuscripts and served as mentor, for two years, on the Sarnoff Cardiovascular Research Foundation fellowship award. |
| 2009-2012 | Vera Ruda, PhD - Research Scientist, Novartis |
|  | Career stage: post-doctoral fellow. Mentoring role: research advisor. Accomplishments:  published one manuscript and served as a mentor on projects focused on the investigation of newly-discovered lipid genes in mouse models. |
| 2009-2011  2018-2019 | James Pirruccello, MD - Cardiology fellow, Massachusetts General Hospital  Career stage: medical student. Mentoring role: research advisor. Accomplishments:  published four manuscripts, one in *N Engl J Med,* and served as mentor, for two years, on the Sarnoff Cardiovascular Research Foundation fellowship award.  Career stage: post-doctoral fellow. Mentoring role: research advisor. |
| 2009-2015 | Ron Do, PhD - Assistant Professor, Department of Genetics and Genomic Sciences, Icahn School of Medicine at Mount Sinai |
|  | Career stage: post-doctoral fellow. Mentoring role: research advisor. Accomplishments:  published 18 manuscripts and served as a mentor on a project focused on studying rare coding variants and risk for myocardial infarction. |
| 2010-2015 | Nathan Stitziel, MD, PhD - Director, Center for Cardiovascular Genetics and Assistant Professor of Medicine and Genetics, Washington University School of Medicine |
|  | Career stage: post-doctoral fellow. Mentoring role: research advisor. Accomplishments:  published three manuscripts and served as a primary mentor on his **K08 award** from NHLBI; selected as the Eugene Braunwald Research Fellow by the Cardiovascular Medicine Division at the Brigham and Women’s Hospital. |
| 2011-2013 | Chi Gao – PhD student at Harvard School of Public Health |
|  | Career stage: pre-doctoral student. Mentoring role: research advisor. Accomplishments:  published one manuscript while working on a project characterizing the function of ANGPTL3, a gene we discovered as causing familial combined hypolipidemia. |
| 2011-2015 | Gina Peloso, PhD - Assistant Professor, Boston University  Career stage: post-doctoral fellow. Mentoring role: research advisor. Accomplishments:  published 23 manuscripts and served as a primary mentor on a training grant and her **K01** **award**. |
| 2011-2016 | Vered Levy, PhD – Research Scientist, Massachusetts General Hospital |
|  | Career stage: research scientist. Mentoring role: research advisor. Accomplishments: served as a mentor on a project characterizting the function of PHACTR1, a gene we discovered as contributing to risk for early-onset myocardial infarction. |
| 2012-2013 | Aniruddh Patel, MD – Fellow in Cardiovascular Medicine, Massachusetts General Hospital |
|  | Career stage: medical student. Mentoring role: research advisor. Accomplishments:  published one manuscript and served as mentor on a Sarnoff Cardiovascular Research Foundation fellowship award. |
| 2012-2014 | Hayato Tada, MD - Assistant Professor in the Division of Cardiovascular Medicine, Kanazawa University Graduate School of Medicine |
|  | Career stage: post-doctoral fellow. Mentoring role: research advisor. Accomplishments:  published 3 manuscripts and served as mentor on a project focused on studying families of Japanese descent with rare Mendelian dyslipidemias. |
| 2012-2015 | Hong-Hee Won, PhD - Assistant Professor, Sungkyunkwan University |
|  | Career stage: post-doctoral fellow. Mentoring role: research advisor. Accomplishments:  published 18 mnauscripts and served as mentor an AHA Postdoctoral Fellowship award while working on a project focused on using imputation and targeted resequencing approaches to discover genes for myocardial infarction. |
| 2012-2014 | Heiko Runz, MD, PhD - Director, Head of Genetics at Merck & Co. |
|  | Career stage: research scientist. Mentoring role: research advisor. Accomplishments:  published one manuscript and served as MPI on R21/R33 NIH grant focused on functional characterization of novel lipid genes in cellular models. |
| 2012-2013 | Suthesh Sivapalaratnam, MD, PhD - Clinical Research Fellow, University of Cambridge |
|  | Career stage: medical student. Mentoring role: research advisor. Accomplishments: published four manuscripts and served as a mentor on the International Atherosclerosis Society travel fellowship. |
| 2013-2014 | Andreas Mauer, MD - Interventional Cardiology, Healthcare Partners Nevada |
|  | Career stage: post-doctoral fellow. Mentoring role: research advisor. Accomplishments:  served as a mentor on a project studying the genetics of aortic valve disease. |
| 2015-2016 | Joseph Hadaya, MD - Resident in Surgery, UCLA |
|  | Career stage: medical student. Mentoring role: research advisor. Accomplishments:  published 1 manuscript and served as a mentor working on a project to use genome-editing to create cellular models of human risk variants and better understand mechanisms underlying coronary artery disease. |
| 2014-2016 | Akihiro Nomura, MD - Assistant Professor, Kanazawa University  Career stage: post-doctoral fellow. Mentoring role: research advisor. Accomplishments:  published 8 manuscripts and served as a mentor on a project focused on studying the genetics basis for dyslipidemia in East Asians. |
| 2013-2017 | Pradeep Natarajan, MD, MMSc - Assistant Professor of Medicine, Harvard Medical School; Director of Preventive Cardiology, Massachusetts General Hospital |
|  | Career stage: post-doctoral fellow. Mentoring role: research advisor. Accomplishments:  published 28 manuscripts, served as a mentor on projects to understand the inherited basis for plasma lipids, and currently primary mentor on his **K08** **award** from NHLBI. |
| 2015-2017 | Derek Klarin, MD – Resident in Surgery, Massachusetts General Hospital |
|  | Career stage: post-doctoral fellow. Mentoring role: research advisor. Accomplishments:  published 1 manuscript and served as a mentor on a training grant while working on a project on understanding the inherited basis for peripheral vascular disease. |
| 2011-2019 | Yu-Xin Xu, PhD - Research Scientist, Massachusetts General Hospital |
|  | Career stage: research scientist. Mentoring role: research advisor. Accomplishments:  published 1 manuscript and serving as a mentor on a project characterizing the function of ANGPTL3, a gene we discovered as causing familial combined hypolipidemia. |
| 2013-2019 | Rajat Gupta, MD - Postdoctoral Research Fellow, Brigham and Women’s Hospital  Career stage: post-doctoral fellow. Mentoring role: research advisor. Accomplishments:  published 1 manuscript and serving as a primary mentor on his **K08** **award** related to regultatory sequence variation and cardiovascular disease. |
| 2015-2019 | Amit Khera, MD, MSc - Postdoctoral Research Fellow, Massachusetts General Hospital |
|  | Career stage: post-doctoral fellow. Mentoring role: research advisor. Accomplishments:  published 18 manuscripts and served as a primary mentor on his **KL2** **award** on research related to genomic medicine. |
| 2015-2019 | Qiuyu Martin Zhu, MD, PhD - Postdoctoral Research Fellow, Massachusetts General Hospital  Career stage: post-doctoral fellow. Mentoring role: research advisor. Accomplishments:  published 1 manuscript and serving as a mentor on a project to gain functional understanding of non-lipid genes for myocardial infarction. |
| 2015-2019 | Connor Emdin, D.Phil - Postdoctoral Research Fellow, Harvard Medical School  Career stage: post-doctoral fellow. Mentoring role: research advisor. Accomplishments:  published 14 manuscripts and serving as a mentor on projects related to analysis of cardiometablic phenotypes in the UK Biobank study. |
| 2016-2019 | George Hindy, MD, PhD - Postdoctoral Research Fellow, Broad Institute  Career stage: post-doctoral fellow. Mentoring role: research advisor. |
| 2016-2019 | Mary Haas, PhD - Postdoctoral Research Fellow, Broad Institute  Career stage: post-doctoral fellow. Mentoring role: research advisor. |
| 2016-2019 | Krishna Aragam, MD - Postdoctoral Research Fellow, Massachusetts General Hospital  Career stage: post-doctoral fellow. Mentoring role: research advisor. |
| 2017-2019 | Shamsudheen Karuthedath Vellarikkal, Ph.D - Postdoctoral Research Fellow, Massachusetts General Hospital  Career stage: post-doctoral fellow. Mentoring role: research advisor. |
| 2018-2019 | Taiji Mizoguchi, MD, PhD - Postdoctoral Research Fellow, Massachusetts General Hospital  Career stage: post-doctoral fellow. Mentoring role: research advisor. |
| 2018-2019 | Akl Fahed, MD, MPH - Postdoctoral Research Fellow, Massachusetts General Hospital  Career stage: post-doctoral fellow. Mentoring role: research advisor. |
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[**Formal Teaching of Peers (e.g., CME and other continuing education courses)**](http://cv.hms.harvard.edu/index.php?page=peers)

No presentations below were sponsored by outside entities

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| --- | --- | --- |
| 2005-2009 | Hyperlipidemia and metabolic syndrome: What’s New | Single presentation |
|  | Update in Clinical Cardiology | Boston |
| 2006-2019 | Metabolic Syndrome | Single presentation |
|  | Internal Medicine: Comprehensive Review and Update, Massachusetts General Hospital | Boston |
| 2008-2019 | Genetics | Single presentation |
|  | Internal Medicine: Comprehensive Review and Update, Massachusetts General Hospital | Boston |
| 2014 | Blackburn Course in Obesity Medicine, Massachusetts General Hospital | Single presentation Boston |
| 2015 | Genetics of Arterial and Venous Thrombosis | Single presentation |
|  | Thrombosis & Thromboembolism Course, Brigham and Women’s Hospital | Boston |
| 2015 | Controversies in Vascular and Endovascular Surgery, Harvard postgraduate, Massachusetts General Hospital | Single presentation Boston |
| 2017 | Genetics and new frontiers in cardiology | Single presentation |
|  | Internal Medicine: Comprehensive Review and Update, Massachusetts General Hospital | Boston |
| 2021 | Rewriting the Genome for Health: From Bench to Biotech, Harvard Medical School Executive Education | Single presentation, webinar Boston |
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[Local Invited Presentations](http://cv.hms.harvard.edu/index.php?page=presentations_local)

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| --- | --- | --- |
| 2003 | Genetic susceptibility to atherosclerosis / Medical Grand Rounds | |
|  | Massachusetts General Hospital, Boston, MA | |
| 2007 | Inherited basis for blood lipids and myocardial infarction / Cardiology Grand Rounds | |
|  | Massachusetts General Hospital, Boston, MA | |
| 2007 | Inherited basis for blood lipids and risk for myocardial infarction / Invited Speaker | |
|  | Broad Institute Scientific Retreat, Cambridge, MA | |
| 2008 | Understanding the inherited basis for blood lipids and myocardial infarction / Invited Speaker | |
|  | Broad Institute Board of Scientific Counselors Annual Meeting, Cambridge, MA | |
| 2008 | Understanding the inherited basis for blood lipids and myocardial infarction / Cardiology Grand Rounds | |
|  | Beth Israel Deaconess Medical Center, Boston, MA | |
| 2008 | Understanding the inherited basis for blood lipids and risk for myocardial infarction / Invited Speaker | |
|  | Broad Institute Medical and Population Genetics Weekly Seminar, Cambridge, MA | |
| 2008 | Common DNA sequence variants, blood lipids, and risk for myocardial infarction / Invited Speaker | |
|  | Cardiovascular Research Center Yearly Retreat, Massachusetts General Hospital, Boston, MA | |
| 2008 | Can human genetics help answer if HDL cholesterol is a causal risk factor for heart attack? / Invited Speaker | |
|  | Broad Institute Yearly Scientific Retreat, Cambridge, MA | |
| 2008 | Genetic prediction of lipid levels and cardiovascular events / Invited Speaker | |
|  | Doris Duke/Broad Workshop on Genetics of Complex Disorders for Clinical Investigators, Cambridge, MA | |
| 2009 | Predicting risk for myocardial infarction: is there a role for integrating genetic profiles? / Invited Speaker | |
|  | Broad Institute Medical and Population Genetics Weekly Seminar, Cambridge, MA | |
| 2009 | Common DNA sequence variants, blood lipids, and risk for myocardial infarction / Invited Speaker | |
|  | Cardiovascular Research Center Seminar, Beth Israel Deaconess Medical Center, Boston, MA | |
| 2009 | Common DNA sequence variants, blood lipids, and myocardial infarction / Invited Speaker | |
|  | Broad Institute Board of Scientific Counselors Annual Meeting, Cambridge, MA | |
| 2009 | Next-generation sequencing as a discovery tool/ Invited Speaker | |
|  | Broad Institute Medical and Population Genetics Weekly Seminar, Cambridge, MA | |
| 2009 | From locus discovery to function / Invited Speaker | |
|  | Center for Human Genetic Research Yearly Retreat, Massachusetts General Hospital, Boston, MA | |
| 2009 | DNA sequence variants related to plasma high density lipoprotein cholesterol or triglycerides and risk for myocardial infarction/ Invited Speaker | |
|  | Doris Duke/Broad Workshop on Genetics of Complex Disorders for Clinical Investigators, Cambridge, MA | |
| 2010 | Common DNA sequence variants, blood lipids, and risk for myocardial infarction / Invited Speaker | |
|  | TIMI Research Group Research Seminar, Brigham and Women’s Hospital, Boston, MA | |
| 2010 | Genetic mapping for blood lipids and myocardial infarction in humans: What have we learned? / Invited Speaker | |
|  | Broad Institute Metabolism Initiative, Cambridge, MA | |
| 2010 | Genetic mapping for blood lipids and myocardial infarction in humans / Invited Speaker | |
|  | Catalyst Lecture Series, Massachusetts General Hospital, Boston, MA | |
| 2010 | From GWAS to function: examples from blood lipids and myocardial infarction / Invited Speaker | |
|  | Primer on Genetics, Clinical Research Program, Massachusetts General Hospital, Boston, MA | |
| 2010 | Genetic mapping for blood lipids and myocardial infarction in humans: What have we learned? / Medicine Grand Rounds | |
|  | Massachusetts General Hospital, Boston, MA | |
| 2010 | Exome sequencing to discover genes causing mendelian dyslipidemias / Invited Speaker | |
|  | Center for Human Genetic Research Retreat, Massachusetts General Hospital, Boston, MA | |
| 2010 | Genetic mapping for blood lipids and myocardial infarction in humans: What have we learned? / Cardiology Grand Rounds | |
|  | Brigham and Women’s Hospital, Boston, MA | |
| 2010 | Exome sequencing as a discovery tool for medical genetics / Invited Speaker | |
|  | First Biennial Symposium on Age-Related Macular Degeneration, Massachusetts Eye and Ear Infirmary, Boston, MA | |
| 2010 | Exome sequencing to discover genes for plasma lipids / Invited Speaker | |
|  | Broad Institute Annual Scientific Retreat, Cambridge, MA | |
| 2011 | Genetic mapping for blood lipids and risk for myocardial infarction:  what have we learned? / Invited Speaker | |
|  | Gastrointestinal Unit Seminar, Massachusetts General Hospital, Boston, MA | |
| 2011 | Genetic mapping for blood lipids and risk for myocardial infarction in humans: From SNP to function to clinical application / Invited Speaker | |
|  | 64th Annual meeting of the MGH Scientific Advisory Committee, Massachusetts General Hospital, Boston, Massachusetts | |
| 2011 | Understanding the inherited basis for myocardial infarction / Invited Speaker | |
|  | Cardiovascular Research Center Annual Retreat, Academy of Arts and Sciences, Cambridge, Massachusettes | |
| 2011 | Understanding the inherited basis for blood lipids and risk for myocardial infarction / Invited Speaker | |
|  | Human Genetics Seminar Series, Harvard Medical School, Boston, MA | |
| 2011 | A rare view of genetic variation and risk for myocardial infarction / Invited Speaker | |
|  | Frontiers in Cardiovascular Medicine, Brigham and Women’s Hospital, Boston, MA | |
| 2011 | Understanding the inherited basis for blood lipids and risk for myocardial infarction / Invited Speaker | |
|  | BSP Seminar, Broad Institute, Cambridge, MA | |
| 2012 | Mendelian randomization: A human genetics approach to evaluate the causal relevance of a given biomarker / Invited Speaker | |
|  | Medical and Population Genetics Seminar, Broad Institute, Cambridge, MA | |
| 2012 | Understanding the genetic basis for myocardial infarction / Invited Speaker | |
|  | Eliot B. Shoolman Lectureship and Visiting Professor Series, Massachusetts General Hospital, Boston, MA | |
| 2012 | Nature’s randomized trial to reassess the ‘good’ in HDL cholesterol / Cardiology Grand Rounds | |
|  | Massachusetts General Hospital, Boston, MA | |
| 2013 | Understanding the inherited basis for HDL cholesterol and risk for myocardial infarcation / Women’s Heart Health Program Grand Rounds | |
|  | Masachusetts General Hospital, Boston, MA | |
| 2013 | Using human genetics to understand if triglyceride-rich lipoproteins cause coronary heart disease / Invited Speaker | |
|  | Medical and Population Genetics Seminar, Broad Institute, Cambridge, MA | |
| 2013 | Sequencing to identify lipid and myocardial infarction genes / Invited Speaker | |
|  | A Primer on Complex Trait Genetics: Basic Principles for the Beginning Investigator, Massachusetts General Hospital, Boston, MA | |
| 2013 | A rare view of coding sequence mutations and risk for heart attack Myocardial infarction/ Invited Speaker | |
|  | Genomics Platform Community Meeting, Broad Institute, Cambridge, MA | |
| 2013 | Uncovering nature's gifts:  genes that protect against heart attack / Invited Speaker | |
|  | Executive Committee on Research Seminar, Massachusetts General Hospital, Boston, MA | |
| 2014 | Biomarker X is associated with disease Y but does X cause Y?: Examples from Cardiovascular Disease / General Medicine Division Faculty Rounds | |
|  | Massachusetts General Hospital, Boston, MA | |
| 2014 | Uncovering nature's gifts: Genes that protect against heart attack / Invited Speaker | |
|  | Broad Metabolism Initiative, Broad Institute, Cambridge, MA | |
| 2014 | Leveraging human genetics to validate targets and allocate treatments / Invited Speaker | |
|  | Cardiovascular Research Center Annual Retreat, Massachusetts General Hospital, Cambridge, MA | |
| 2015 | Leveraging human 'knockouts' to understand wellness and disease / Invited Speaker | |
|  | CVRC Science Social, Massachusetts General Hospital, Boston, MA | |
| 2015 | Leveraging human 'knockouts' to understand wellness and disease / Invited Speaker | |
|  | SAC Annual Celebration of Science, Massachusetts General Hospital, Boston, MA | |
| 2015 | Genetics of cardiovascular disease / Invited Speaker | |
|  | Board of Scientific Counselors, Broad Institute, Cambridge, MA | |
| 2015 | Industry interactions / Invited Speaker  Massachusetts General Hospital Research Institute Launch, Massachusetts General Hospital, Boston, MA | |
| 2015 | Developing medicines that mimic natural genomic successes / Invited Speaker | |
|  | Understand Your Genome Symposium, Brigham and Women’s Hospital, Boston, MA | |
| 2015 | Cardiovascular disease initiative at the broad:  a vision for the next decade / Invited Speaker | |
|  | The Joint Seminar Series of the Broad Metabolism Program & Cardiovascular Disease Initiative, Broad Institute, Cambridge, MA | |
| 2016 | What surprises have emerged from genetic studies of ASCVD? / Invited Speaker | |
|  | Advances in Lipid Management and Cardiovascular Risk Reduction: New Horizons, Brigham Women’s Hospital, Boston, MA | |
| 2016 | The science of you / Invited Speaker | |
|  | Research Scholar Innovations, Massachusetts General Hospital, Naples, FL | |
| 2016 | The Center for Human Genetic Research update and vision / Invited Speaker | |
|  | SAC Annual Celebration of Science, Massachusetts General Hospital, Boston, MA | |
| 2016 | Discovering genes that protect against heart attack / Invited Speaker | |
|  | Broad Ignite Seminar, Broad Institute, Cambridge, MA | |
| 2016 | Gene discovery and follow-up in cardiovascular disease / Invited Speaker | |
|  | International Stroke Genetics Consortium, Broad Institute, Cambridge, MA | |
| 2016 | What is precision medicine / Invited Speaker | |
|  | OSAP Innovation & IP Symposium, Broad Institute, Cambridge, MA | |
| 2016 | Inherited basis for myocardial infarction / Invited Speaker | |
|  | The Center for Human Genetic Research Seminar Series, Massachusetts General Hospital, Boston, MA | |
| 2016 | Genes and risk for heart attack, the mission for the Center for Human Genetic Research, and Precision Medicine / Invited Speaker  Summer Student Research Program, Massachusetts General Hospital, Boston, MA | |
| 2016 | Inherited basis for myocardial infarction / Invited Speaker  Center for Systems Biology Science Talk Series, Massachusetts General Hospital, Boston, MA | |
| 2016 | Inherited basis for myocardial infarction / Invited Speaker  Tools of Human Investigation-MGH Physician-Scientist Course, Massachusetts General Hospital, Boston, MA | |
| 2016 | Inherited basis for myocardial infarction / Invited Speaker  Paul Dudley White Society Scientific Session, Massachusetts General Hospital, Boston, MA | |
| 2016 | Genetic risk, adherence to a healthy lifestyle, and risk for coronary artery disease / Invited Speaker  Cardiology Grand Rounds, Beth Israel Deaconess Medical Center, Boston, MA | |
| 2017 | Myocardial infarction: From gene discovery to clinical translation, functional biology, and therapeutics / Invited Speaker  Thirteenth Annual Broad Retreat, Broad Institue, Cambridge, MA | |
| 2018 | From variant to function at cardiovascular gene loci / Invited Speaker  Broad Institute Medical and Population Genetics Weekly Seminar, Broad Institue, Cambridge, MA | |
| 2018 | All of Us Launch / Invited Speaker  Broad Institute Medical and Population Genetics Weekly Seminar, Broad Institue, Cambridge, MA | |
| 2018 | Polygenic risk impacting clinical care / Invited Speaker  2018 Broad Board of Scientific Counselors: Medical and Population Genetics, Broad Institute, Cambridge, MA | |
| 2018 | Risk and protective genetic factors for myocardial infarction / Invited Speaker  MGH Cardiology Grand Rounds, Massachusetts General Hospital, Boston, MA | |
| 2018 | Genetic basis for heart attack / Invited Speaker  Broad Genomics Community Meeting, Broad Institute, Cambridge, MA | |
| 2018 | From genes to new medicines for heart attack / Invited Speaker  Precision Cardiology Lab Symposium, Broad Institute, Cambridge, MA | |
| 2018 | Genetic basis for heart attack / Invited Speaker  Sixth Annual Broad-Israel Science Foundation (ISF) Symposium, Broad Institute, Cambridge, MA | |
| 2018 | Genetic basis for heart attack / Invited Speaker  Department of Epidemiology Seminar Series, Harvard Chan School, Boston, MA | |
| 2018 | Genetic architecture of complex traits: common variants, rare variants, and somatic mutations / Invited Speaker  Harvard-MIT Program in Health Sciences and Technology Genetic course, MIT, Boston, MA | |
| 2018 | CVRC Keynote: Genetics of myocardial infarction: discover, biology, clinical translation / Invited Speaker  Annual Cardiovascular Research Center Retreat, Cardiovascular Research Center, Massachusetts General Hospital, Boston MA | |
| 2018 | Panel on All of US / Invited Speaker  Fourteenth Annual Broad Retreat, Broad Institue, Cambridge, MA | |
| 2018 | Leveraging social media to communicate your science / Invited Speaker  Fourteenth Annual Broad Retreat, Broad Institue, Cambridge, MA | |
| 2019 | Precision Medicine in Cardiovascular Research / Invited Speaker  Omics Unit & CGM: Research in Precision and Genomic Medicine Court, Massachusetts General Hospital, Boston, MA | |
| 2019 | Understanding cardiovascular disease: protective alleles and target identification / Invited Speaker  Human Genetics and cardiovascular disease, Broad/Deerfield closed Symposium, Broad Institute, Cambridge, MA | |
| 2019 | Human Genetics as the Gateway to Industry-Academic Collaborations / Invited Speaker | |
|  | | Harvard Biotechnology Club Symposium, Cambridge, MA |
| 2020 | From reading the genome for risk to rewriting it for cardiovascular health / Invited Speaker | |
|  | Program in Quantitative Genomics, Harvard School of Public Health, Vitrual | |
| 2021 | Becoming the Right Leader for the Job / Invited Speaker | |
|  | iD2D: Case Workshop, Brigham Womens Hospital, Boston, MA | |
| 2021 | | From reading the genome for risk to rewriting it for cardiovascular health / Invited Speaker |
|  | 30th Irwin M. Arias, M.D. Symposium, Cambridge, MA, Virtual | |
| 2021 | | From reading the genome for risk to rewriting it for cardiovascular health / Opening Address |
|  | | 41st Annual Scientific Meeting, Sarnoff Foundation, Boston, MA |
| 2022 | | From reading the genome for risk to rewriting it for cardiovascular health / Invited Speaker |
|  | | Cell Biology of Disease Seminar, Blavatnik Institute of Cell Biology (HMS), Boston, MA |
| 2022 | | From reading the genome for risk to rewriting it for cardiovascular health / Invited Speaker |
|  | | Cardiology Grand Rounds, Massachusetts General Hospital, Boston, MA |
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**Regional, National and International Invited Teaching and Presentations**

Those presentations below sponsored by outside entities are so noted and the sponsor is identified

Regional

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| --- | --- | --- | --- |
| 2006 | | Hypercholesterolemia: the latest concepts in cholesterol reduction / Invited speaker  PriMed East Conference, Boston, MA | |
| 2006 | | Predicting myocardial infarction risk: traditional risk factors, biomarkers, imaging, and genes / Medical Grand Rounds Somerville Hospital, Somerville, MA | |
| 2008 | | Common DNA sequence variants, blood lipids, and myocardial infarction / Invited Speaker | |
|  | | Gordon Research Conference on Lipoproteins, Waterville Valley, NH | |
| 2009 | | Common DNA sequence variants, blood lipids, and risk for myocardial infarction / Cardiology Grand Rounds | |
|  | | University of Massachusetts Medical Center, Worchester, MA | |
| 2009 | | Common DNA sequence variants, blood lipids, and risk for myocardial infarction / Cardiology Grand Rounds Tufts Medical Center, Boston, MA | |
| 2009 | | Translational lipidology: what science brings to practice / Invited Speaker | |
|  | | Northeast Lipid Association 5th Annual Scientific Forum, Boston, MA | |
| 2009 | | Genetic profiles and predicting risk for myocardial infarction / Invited Speaker | |
|  | | Pfizer Scientific Advisory Board, Cambridge, MA (Pfizer) | |
| 2009 | | Role of genomics in cardiovascular drug development / Invited Speaker | |
|  | | Daiichi Sankyo Scientific Advisory Board, Boston, MA (Daiichi Sankyo) | |
| 2009 | | Genetic variants altering individual plasma lipid components and risk for myocardial infarction / Abstract | |
|  | | Gordon Research Conference on Human Genetics and Genomics, Biddeford, Maine | |
| 2009 | | Genetic variants altering individual plasma lipid components and risk for myocardial infarction / Invited Speaker | |
|  | | Gordon Research Conference on Atherosclerosis, Tilton, New Hampshire | |
| 2010 | | Genetic mapping for blood lipids and myocardial infarction: What have we learned? / Invited Speaker | |
|  | | Novartis Biomedical Research Institute, Cambridge, MA (Novartis) | |
| 2010 | | Genetic mapping for blood lipids and myocardial infarction: What have we learned? / Invited Speaker | |
|  | | External Scientific Advisory Board Meeting, Alnylam Pharmaceuticals, Cambridge, MA (Alnylam) | |
| 2011 | | Understanding the inherited basis for blood lipids and risk for myocardial infarction in humans / Keynote Speaker | |
|  | | Gordon Research Conference on Atherosclerosis, Newport, RI | |
| 2012 | | Understanding the inherited basis for blood lipids and myocardial infarction risk / Cardiology Grand Rounds | |
|  | | Boston Medical Center, Boston, MA | |
| 2012 | | From prioritized GWAS hits to causal variants / Invited Speaker | |
|  | | Nature Colloquium on Biomedicine: From Human Genetics to Validated Drug Target, Merck Research Laboratories, Boston, MA (Merck) | |
| 2013 | | The genetic roots of heart disease / Invited Speaker | |
|  | | Jeresaty Cardiovascular Symposium, St. Francis Hospital and Medical Center, Hartford, CT | |
| 2014 | | Uncovering nature’s gifts: discovering alleles that protect against disease / Cardiology Grand Rounds | |
|  | | Beth Israel Deaconess Medical Center, Boston, MA | |
| 2014 | | Discovering genes that protect against disease / Invited Speaker | |
|  | | Cardiovascular and Metabolism (CVM) Group Seminar, Novartis Institutes for Biomedical Research, Cambridge, MA (Novartis) | |
| 2014 | | Cardiovascular genomics: from discovery to therapeutic insights / Invited Speaker | |
|  | | Boston Children’s Hospital Cardiology Clinic Seminar, Boston, MA | |
| 2014 | | Resolving causal influences among correlated risk factors for coronary artery disease / Invited Speaker | |
|  | | Causal Inference: Algorithms, Methods and Resources Industry Workshop, Boston, MA | |
| 2014 | | Implications of recent genetic findings on management of cardiovascular risk / Invited Speaker | |
|  | | Cardiometabolic Health Congress, Boston, MA | |
| 2014 | | Genetic insights into mechanisms underlying regulation of LDL-C / Invited Speaker | |
|  | | Cardiometabolic Health Congress, Boston, MA | |
| 2015 | | Lipids: bench to bedside to population and vice versa / Invited Speaker | |
|  | | Genetic Epidemiology and Functional Genomics for Investigators: Framingham Heart Study July Workshop, Boston University School of Medicine, Boston, MA | |
| 2015 | | Leveraging human genetics to understand risk for and protection from cardiovascular disease / Cardiovascular Medicine Grand Rounds | |
|  | | Yale University, New Haven, CT | |
| 2015 | | Plasma triglycerides and risk for coronary heart disease: what does human genetics teach us? / Invited Speaker | |
|  | | 10th Annual Cardiometabolic Health Congress, Boston, MA | |
| 2015 | | Developing medicines that mimic the natural successes of the human genome / Invited Speaker | |
|  | | Biogen Genetics Days Symposium, Boston, MA (Biogen) | |
| 2015 | | Large-scale exome sequencing to identify novel genes for myocardial infarction / Invited Speaker | |
|  | | Heart Rhythm Society’s 36th Annual Scientific Sessions, Boston, MA | |
| 2016 | | Inherited basis for myocardial infarction / Pathology Grand Rounds | |
|  | | University of Vermont, Burlington, VT | |
| 2016 | | Inherited basis for myocardial infarction / Invited Speaker | |
|  | | Merck Research Symposium, Merck Research Laboratories, Boston, MA (Merck) | |
| 2016 | | Inherited basis for myocardial infarction / Invited Speaker | |
|  | | CV and Metabolic Seminar, Pfizer Research Unit, Cambridge, MA (Pfizer) | |
| 2016 | | Medicines that mimic protective mutations / Invited Speaker | |
|  | | Genetic Modifiers TRUST meeting, Cambridge, MA (Third Rock Ventures) | |
| 2016 | | Utilizing PCSK9 therapies for better long-term outcomes in dyslipidemia patients / Invited Speaker | |
|  | | Elsevier Office of Continuing Medical Education and AcademicCME (Amgen Inc.) | |
| 2017 | | Genetic risk, adherence to a healthy lifestyle, and heart attack / Invited Speaker | |
|  | | Undergraduate Biology Course, Boston College, Boston, MA | |
| 2017 | | Genetic risk, adherence to a healthy lifestyle, and coronary disease / Invited Speaker | |
|  | | Human Genetics & Genomics, Gordon Research Conference, Stowe, VT | |
| 2017 | | Human knockout alleles and protection from disease / Invited Speaker | |
|  | | Intellia Therapeutics, Cambridge, MA | |
| 2017 | | Human Knockout Project / Invited Speaker | |
|  | | Novartis Institutes for Biomedical Research, Cambridge, MA (Novartis) | |
| 2018 | | Genetic basis for heart attack/ Invited Speaker | |
|  | | 2017-2018 FHS Research Seminar Series, the Framingham Heart Study, Framingham, MA | |
| 2018 | | Inherited and mechanistic basis for heart attack/Invited Speaker | |
|  | | Vertex Science, Boston, MA | |
| 2018 | | Residual Risk and Role of Triglyceride-Rich Lipoproteins/Invited Speaker | |
|  | | Medscape CME Program, Boston, MA | |
| 2018 | | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | |  | | --- | |  | | | |   PCSK9, Lipid Expertise Lunch Panel Boston/Invited Speaker | |
|  | | ExpertConnect, Boston, MA | |
| 2018 | | Can AI Based Drug Development Feed A Hungry Pipeline?/Invited Speaker | |
|  | | World Medical Innovation Forum, Boston, MA | |
| 2018 | | Genetic basis for myocardial infarction/Invited Speaker | |
|  | | Sarnoff Cardiovascular Research Foundation 38th Annual Scientific Meeting, Boston, MA | |
| 2018 | | Genetic basis for heart attack/ Invited Speaker | |
|  | | Boston University School of Medicine CVI Seminar Series, Boston University, Boston, MA | |
| 2018 | | Genetic basis for myocardial infarction/Invited Speaker | |
|  | | Beth Israel Deaconess Medical Center Surgical Horizon’s seminar series, Beth Israel Deaconess Medical Center, Boston, MA | |
| 2019 | | Genetic Basis for Heart Attack/Invited Speaker | |
|  | | Goldfich Bio, Cambridge, MA | |
| 2019 | | Genetic basis for myocardial infarction/Invited Speaker | |
|  | | Vascular Discovery: From Genes to Medicine 2019 Scientific Sessions, American Heart Association, Boston, MA | |
| 2019 | Clinical Genomics — What’s Real & What’s to Come/Invited Speaker | |
|  | OptumLabs Research & Translation Forum, Boston, MA | |
| 2020 | | From reading the genome for risk to rewriting it for cardiovascular health / Cardiology Grand Rounds | |
|  | | Brown University, Providence, RI | |
| 2021 | | From reading the genome for risk to rewriting it for cardiovascular health / Invited Speaker | |
|  | | UConn Physician-Scientist Career Development Virtual Colloquium, Storrs, CT (virtual) | |

National

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| 2002 | | | Cardiac biomarkers in the management of acute coronary syndromes / Internal Medicine Grand Rounds | | | |
|  | | | Resurrection Health Care Medical Center, Chicago, IL | | | |
| 2007 | | | The inherited basis for blood lipids and myocardial infarction / Invited Speaker | | | |
|  | | | Eugene McDermott Center for Growth and Development, University of Texas Southwestern, Dallas, TX | | | |
| 2007 | | | Defining the inherited basis for blood lipids and myocardial infarction / Abstract | | |
|  | | | Cold Spring Harbor Clinical Cardiovascular Genomics, Cold Spring Harbor, NY | | |
| 2008 | | | Understanding the inherited basis for blood lipids and myocardial infarction / Cardiology Grand Rounds | | | |
|  | | | Albert Einstein Medical Center, Philadelphia, PA | | | |
| 2008 | | | Understanding the inherited basis for blood lipids and myocardial infarction / Invited Speaker | | | |
|  | | | International Society for Cardiovascular Translational Research, LaJolla, CA | | | |
| 2008 | | | Understanding the inherited basis for blood lipids and myocardial infarction / Invited Speaker | | | |
|  | | | University of Pennsylvania Cardiovascular Institute, Philadelphia, PA | | | |
| 2008 | | | Understanding the inherited basis for blood lipids and myocardial infarction / Invited Speaker | | | |
|  | | | International Society for Cardiovascular Translational Research, San Diego, CA | | | |
| 2008 | | | Using the inherited basis for blood lipids and risk for myocardial infarction / Invited Speaker | | | |
|  | | | Arteriosclerosis, Thrombosis and Vascular Biology Annual Conference, Atlanta, GA | | | |
| 2008 | | | Common DNA sequence variants, blood lipids, and risk for myocardial infarction / Invited Speaker | | | |
|  | | | Jackson Heart Study Research Seminar, Jackson, MS | | | |
| 2008 | | | Genes for prognosis: integrating genetic determinants into risk scores / Invited Speaker | | | |
|  | | | American Heart Association Scientific Sessions, New Orleans, LA | | | |
| 2008 | | | Common DNA sequence variants at thirty loci contribute to polygenic dyslipidemia / Abstract | | | |
|  | | | American Society of Human Genetics Scientific Sessions, Philadelphia, PA | | | |
| 2008 | | | Common DNA sequence variants, blood lipids, and risk for myocardial infarction / Human Genetics Grand Rounds | | | |
|  | | | UCLA, Los Angeles, CA | | | |
| 2009 | | | Genome-wide screens to identify new genes for blood lipids and myocardial infarction in humans / Invited Speaker | | | |
|  | | | Deuel Conference on Lipids, Borrego Springs, CA | | | |
| 2009 | | | Common DNA sequence variants, blood lipids, and myocardial infarction / Invited Speaker | | | |
|  | | | Columbia University, New York, NY | | | |
| 2009 | | | Large-scale association studies and mendelian randomization: lipid levels and cardiovascular disease / Invited Speaker | | | |
|  | | | University of Michigan/GlaxoSmithKline Pharmacogenomics Symposium, Ann Arbor, MI (GlaxoSmithKline) | | | |
| 2009 | | | Common DNA sequence variants, blood lipids, and myocardial infarction / Cardiology Grand Rounds | | | |
|  | | | Case Western University School of Medicine, Cleveland, OH | | | |
| 2009 | | | Analysis of gene effects on complex trait phenotypes / Invited Speaker | | | |
|  | | | Spring 2009 Pharmacogenetics Research Network Scientific Meeting, Rochester, MN | | | |
| 2009 | | | Common DNA sequence variants, blood lipids, and myocardial infarction / Cardiology Grand Rounds | | | |
|  | | | Montefiore Medical Center, Bronx, NY | | | |
| 2009 | | | Common DNA sequence variants, blood lipids, and myocardial infarction / Invited Speaker | | | |
|  | | | Arteriosclerosis, Thrombosis and Vascular Biology Annual Conference, Washington, DC | | | |
| 2009 | | | Common DNA sequence variants, blood lipids, and risk for myocardial infarction / Cardiology Grand Rounds | | | |
|  | | | New York University, New York, NY | | | |
| 2009 | | | Genes for prognosis: New targets and patient scores / Invited Speaker | | | |
|  | | | Heart Failure Society of America 13th Annual Meeting, Boston, MA | | | |
| 2009 | | | DNA sequence variants related to plasma triglycerides or high-density lipoprotein cholesterol and risk of myocardial infarction / Abstract | | | |
|  | | | American Heart Association Scientific Sessions 2009, Orlando, FL | | | |
| 2010 | | | Genetic mapping for blood lipids and myocardial infarction: What have we learned? / Cardiology Grand Rounds | | | |
|  | | | Johns Hopkins University School of Medicine, Baltimore, MD | | | |
| 2010 | | | Genetic mapping for blood lipids and myocardial infarction: What have we learned? / Cardiology Grand Rounds | | | |
|  | | | Northwestern University, Chicago, IL | | | |
| 2010 | | | Genetic mapping for blood lipids and myocardial infarction: what have we learned? / Keynote Speaker | | | |
|  | | | University of Mississippi Annual Research Day, Jackson, MS | | | |
| 2010 | | | From DNA sequence variant to lipoprotein phenotype at the sortilin locus / Invited Speaker | | | |
|  | | | Gordon Research Conference on Lipoprotein Metabolism, Waterville Valley, NH | | | |
| 2010 | | | Role of genome-wide association studies to elucidate risk for cardiovascular disease / Invited Speaker | | | |
|  | | | 19th Annual Lipid Disorders Training Center: Advanced Update 2010, Baltimore, MD | | | |
| 2010 | | | Myocardial infarction and whole exome sequencing / Invited Speaker | | | |
|  | | | American Heart Association Scientific Sessions, Chicago, IL | | | |
| 2010 | | | Advances in genetics and genomics 2010 / Invited Speaker | | | |
|  | | | American Heart Association Scientific Sessions, Chicago, IL | | | |
| 2010 | | | Genome-wide association studies: an overview and implications for cardiovascular research/ Invited Speaker (webinar) | | | |
|  | | | Abbott Laboratories, Citrus Heights, CA (Abbott) | | | |
| 2011 | | | Genetic mapping for blood lipids and risk for myocardial infarction:  What have we learned? / Cardiology Grand Rounds | | | |
|  | | | Emory University School of Medicine, Atlanta GA | | | |
| 2011 | | | Novel genes for blood lipoproteins and myocardial infarction:  from genomic localization to function / Vascular Biology Grand Rounds | | | |
|  | | | Emory University School of Medicine, Atlanta, GA | | | |
| 2011 | | | Understanding the inherited basis for blood lipids and risk for myocardial infarction / Invited Speaker | | | |
|  | | | Rockefeller University Seminars in Clinical Research, New York, NY | | | |
| 2011 | | | Next generation sequencing as a discovery tool: Applications to plasma lipids and risk for myocardial infarction / Invited Speaker (webinar) | | | |
|  | | | The American Heart Association's [Functional Genomics and Translational Biology Council](http://click.heartemail.org/?qs=cd6b8506e39ffd5cdf62222b994418f82ffd8600c1643ddf6f58f261777ec38a) and [Circulation Cardiovascular Genetics](http://click.heartemail.org/?qs=cd6b8506e39ffd5c666ddc395879df627d7529a8c7f206257b001bf06d93c22f), Dallas, TX | | | |
| 2011 | | | Understanding the inherited basis for blood lipids and risk for myocardial infarction / Invited Speaker | | | |
|  | | | 1st Annual Cardiovascular Genetics Symposium, Northwestern University, Chicago, IL | | | |
| 2011 | | | Understanding the inherited basis for plasma lipids and risk for heart attack / Invited Speaker | | | |
|  | | | Cardiovascular Research Seminar, Washington University, St. Louis, MO | | | |
| 2011 | | | Genetic mapping for blood lipids and risk for myocardial infarction: What have we learned? / Invited Speaker | | | |
|  | | | Sarnoff Cardiovascular Research Foundation 31st Annual Scientific Meeting, National Harbor, MD | | | |
| 2011 | | | Understanding the inherited basis for blood lipids and risk for myocardial infarction / Invited Speaker | | | |
|  | | | Genentech Seminar Series, San Francisco, CA (Genentech) | | | |
| 2011 | | | Understanding the inherited basis for blood lipids and risk for myocardial infarction / Cardiology Grand Rounds | | | |
|  | | | University of California, San Francisco, CA | | | |
| 2011 | | | Understanding the inherited basis for blood lipids and risk for myocardial infarction / Invited Speaker | | | |
|  | | | Cardiovascular Research Institute Seminar, University of California, San Francisco, CA | | | |
| 2011 | | | Rare coding mutations and risk for myocardial infarction / Invited Speaker | | | |
|  | | | NHLBI Genomics Symposia, Washington, DC | | | |
| 2011 | | | Understanding the inherited basis for blood lipids and risk for myocardial infarction / Invited Speaker | | | |
|  | | | Celera Genomics, Oakland, CA (Celera) | | | |
| 2011 | | | Genetic risk factors in complex diseases / Invited Speaker | | | |
|  | | | American Heart Association Scientific Sessions, Orlando, FL | | | |
| 2011 | | | Who is at risk and why: making sense of the explosion of genetic data, lipid disorders/ Invited Speaker | | | |
|  | | | American Heart Association Scientific Sessions, Orlando, FL | | | |
| 2012 | | | A mendelian randomization study for plasma high-density lipoprotein cholesterol and risk for myocardial infarction / Invited Speaker | | | |
|  | | | Keystone Symposia on Complex Traits: Genomics and Computational Approaches, Breckenridge, CO | | | |
| 2012 | | | Rare coding variants and risk for myocardial infarction / Invited Speaker | | | |
|  | | | Arteriosclerosis, Thrombosis and Vascular Biology 2012 Scientific Sessions, Chicago, IL | | | |
| 2012 | | | Understanding the inherited basis for blood lipids and risk for myocardial infarction / Invited Speaker | | | |
|  | | | Regeneron Pharmaceuticals, Tarrytown, NY (Regeneron) | | | |
| 2012 | | | Understanding the inherited basis for blood lipids and risk for myocardial infarction / Medical Grand Rounds | | | |
|  | | | University of Rochester, Rochester, NY | | | |
| 2012 | | | A rare view of coding DNA sequence variation and risk for myocardial infarction / Medical Grand Rounds | | | |
|  | | | Baylor College of Medicine, Houston, TX | | | |
| 2012 | | | A rare view of coding DNA sequence variation and risk for myocardial infarction / Invited Speaker | | | |
|  | | | Frontiers in Cardiovascular Science, Stanford University, Palo Alto, CA | | | |
| 2012 | | | Nature’s randomized trial to reassess the ‘good’ in HDL cholesterol/ Invited Speaker | | | |
|  | | | 1000 Genomes Project Community Conference, Ann Arbor, MI | | | |
| 2012 | | | Leveraging human genetics to guide drug discovery / Invited Speaker | | | |
|  | | | Isis Pharmaceuticals Drug Discovery Seminar Series, Carlsbad, CA (Isis) | | | |
| 2012 | | | A rare view of coding variation and risk for myocardial infarction / Invited Speaker | | | |
|  | | | Mount Sinai School of Medicine, New York, NY | | | |
| 2012 | | | HDL and LDL molecular variants and risk for myocardial infarction / Invited Speaker | | | |
|  | | | 21st Annual Lipids Disorders Training Center: State of the Art and Science of Lipidology and Coronary Artery Disease, Johns Hopkins School of Medicine, Baltimore, MD | | | |
| 2012 | | | Leveraging human genetics to guide drug discovery / Invited Speaker | | | |
|  | | | Amgen Seminar Series, Thousand Oaks, CA (Amgen) | | | |
| 2012 | | | Low-frequency alleles with strong effects on myocardial infarction risk / Invited Speaker | | | |
|  | | | American Heart Association Scientific Sessions, Los Angeles, CA | | | |
| 2012 | | | Massively parallel sequencing of mendelian and complex cardiovascular diseases / Invited Speaker | | | |
|  | | | American Heart Association Scientific Sessions, Los Angeles, CA | | | |
| 2013 | | | Exome sequencing for common complex diseases: myocardial infarction / Invited Speaker | | | |
|  | | | Deuel Conference on Lipids, Nappa Valley, CA | | | |
| 2013 | | | Genetic profiles: can we and how do we use them? / Invited Speaker | | | |
|  | | | American College of Cardiology Scientific Sessions, San Francisco, CA | | | |
| 2013 | | | Genetic testing- when will it be ready for prime time? / Invited Speaker | | | |
|  | | | American College of Cardiology Scientific Sessions, San Francisco, CA | | | |
| 2013 | | | Common variants and risk for atherosclerosis / Invited Speaker | | | |
|  | | | American Heart Association Scientific Sessions, Dallas, TX | | | |
| 2013 | | | Do triglyceride-rich lipoproteins causally influence risk for CHD? / Invited Speaker American Heart Association Scientific Sessions, Dallas, TX | | | |
| 2014 | | | Uncovering nature's gifts: genes that protect against heart attack / Invited Speaker | | | |
|  | | | Molecular Biology Institute Seminar, UCLA, Los Angeles, CA | | | |
| 2014 | | | Uncovering nature’s gifts: genes that protect against risk for myocardial infarction / Invited Speaker | | | |
|  | | | Perelman School of Medicine Department of Pharmacology Lecture Series, University of Pennsylvania, Philadelphia, PA | | | |
| 2014 | | | How close are we to personalizing CVD prevention with genetics? We are not there yet / Invited Speaker | | | |
|  | | | National Lipids Association Scientific Sessions, Maui, HI | | | |
| 2014 | | | Should we change the endpoints in cardiovascular research outcomes? / Invited Speaker | | | |
|  | | | National Lipids Association Scientific Sessions, Maui, HI | | | |
| 2014 | | | Cardiovascular genomics: from discovery to therapeutic insights / Invited Speaker | | | |
|  | | | Cardeza Seminar Series, Thomas Jefferson University, Philadelphia, PA | | | |
| 2014 | | | Cardiovascular genomics: from discovery to therapeutic insights / Invited Speaker | | | |
|  | | | Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA | | | |
| 2014 | | | Impact of human gene knockouts on lipoproteins and risk for myocardial infarction / Invited Speaker | | | |
|  | | | Gordon Research Conference on Lipoprotein Metabolism, Waterville Valley, NH | | | |
| 2014 | | | Leveraging human genetics to guide the development of medicines for cardiovascular disease / Invited Speaker | | | |
|  | | | Eli Lilly, Indianapolis, IN (Eli Lilly) | | | |
| 2014 | | | Personalized preventive approaches to cardiovascular disease / Invited Speaker | | | |
|  | | | American Heart Association Scientific Sessions, Chicago, IL | | | |
| 2014 | | | Large-scale genome studies of dyslipidemia and its risk for CVD / Invited Speaker | | | |
|  | | | American Heart Association Scientific Sessions, Chicago, IL | | | |
| 2015 | | | Cardiovascular genomics: from discovery to therapeutic insights / Invited Speaker | | | |
|  | | | Vascular Cell Biology Gordon Conference, Ventura, CA | | | |
| 2015 | | | Cardiovascular genomics: from discovery to therapeutic insights / Medical Center Grand Rounds | | | |
|  | | | Columbia University, New York, NY | | | |
| 2015 | | | Data and views on mendelian randomization with respect to CETP / Invited Speaker | | | |
|  | | | Eli Lilly and Company U.S. Atherosclerosis Advisory Board, Boston, MA (Eli Lilly) | | | |
| 2015 | | | Getting from methods to understanding: statistical methods and progress / Invited Speaker | | | |
|  | | | Gordon Conference Human Genetics Genomics, Salve Regina University, Newport, RI | | | |
| 2015 | | | Leveraging human ‘knockouts’ to understand risk for and protection from disease / Invited Speaker | | | |
|  | | | OHSU Rare Disease Research Symposium, Portland, OR | | | |
| 2015 | | | Understanding the genetic basis of myocardial infarction / Invited Speaker | | | |
|  | | | Carol Dietrich Symposium, Butler Hospital, Butler, PA | | | |
| 2015 | | | Genomics for evaluation of premature CAD / Invited Speaker | | | |
|  | | | American Heart Association Scientific Sessions, Orlando, FL | | | |
| 2015 | | | HDL is dead / Invited Speaker | | | |
|  | | | American Heart Association Scientific Sessions, Orlando, FL | | | |
| 2016 | | | Inherited basis for myocardial infarction / Cardiology Grand Rounds | | | |
|  | | | NYU Langone Medical Center, New York, NY | | | |
| 2016 | | | Inherited basis for myocardial infarction / Invited Speaker | | | |
|  | | | Genetics and Molecular Biology Program, University of North Carolina, Chapel Hill, NC | | | |
| 2016 | | | The human KO project: from concept to data / Invited Speaker | | | |
|  | | | Deuel Conference on Lipids, Napa Valley, CA | | | |
| 2016 | | | President Obama's Precision Medicine Initiative / Invited Speaker | | | |
|  | | | American College of Cardiology Scientific Sessions, Chicago, IL | | | |
| 2016 | | | Identifying new targets – insights from human genetics / Invited Speaker | | | |
|  | | | American College of Cardiology Scientific Sessions, Chicago, IL | | | |
| 2016 | | | Inherited basis for myocardial infarction / Invited Speaker | | | |
|  | | | Cornell Medical College Cardiology Grand Rounds, New York, NY | | | |
| 2016 | | | Genetics, environment and coronary artery disease / Invited Speaker | | | |
|  | | | Human and Mammalian Genetics and Genomics: The 57th McKusick Short Course, Johns Hopkins University, Bar Harbor, ME | | | |
| 2016 | | | Inherited basis for myocardial infarction / Invited Speaker | | | |
|  | | | BioData World Congress 2016, Hyatt Regency Boston, MA (The Broad Institute) | | | |
| 2016 | | | Genetic risk, adherence to a healthy lifestyle, and risk for coronary artery disease / Invited Speaker | | | |
|  | | | American Heart Association Scientific Sessions, New Orleans, LA | | | |
| 2016 | | | Using the genome to stratify patients at risk for disease / Invited Speaker | | | |
|  | | | American Heart Association Scientific Sessions, New Orleans, LA | | | |
| 2016 | | | Translating results from GWAS to the clinic / Invited Speaker | | | |
|  | | | American Heart Association Scientific Sessions, New Orleans, LA | | | |
| 2017 | | | Inherited basis for myocardial infarction / Invited Speaker | | | |
|  | | | Cardiology Grand Rounds, Allegheny General Hospital, Pittsburgh, PA | | | |
| 2017 | | | Genetic risk, adherence to a healthy lifestyle, and heart attack / Invited Speaker | | | |
|  | | | Johns Hopkins University Annual Genetics Research Day, Baltimore MD | | | |
| 2017 | | | Genetic risk, adherence to a healthy lifestyle, and heart attack / Invited Speaker | | | |
|  | | | 10th Annual Future of Genomic Medicine Conference Program, La Jolla, CA | | | |
| 2017 | | | Genetic risk, adherence to a healthy lifestyle, and coronary disease / Invited Speaker | | | |
|  | | | James T. Willerson, M.D. Cardiovascular Seminar Series, Texas Heart Institute, Houston, TX | | | |
| 2017 | | | Polygenic risk for CVD and interventions to reduce risk / Invited Speaker | | | |
|  | | | National Lipid Association’s Annual Scientific Sessions, Philadelphia, PA | | | |
| 2017 | | | Genetic risk, adherence to a healthy lifestyle, and heart attack / Invited Speaker | | | |
|  | | | Columbia-Cornell-Rockefeller Inter-University Seminar, New York, NY | | | |
| 2017 | | | Genetics, environment and coronary artery disease / Invited Speaker | | | |
|  | | | Human and Mammalian Genetics and Genomics: The 58th McKusick Short Course, Johns | | | |
|  | | | Hopkins University, Bar Harbor, ME | | | |
| 2017 | | | Inherited basis for myocardial infarction / Invited Speaker | | | |
|  | | | Dean’s Distinguished Lecture Series, University of Kentucky, College of Medicine, Lexington, KY | | | |
| 2017 | | | Leveraging human genetics to guide medicines development / Invited Speaker  Breakthrough Innovation Medical Seminar Series, Bayer HealthCare LLC, Whippany, NJ | | | |
| 2017 | | | Genetic risk, adherence to a healthy lifestyle, and coronary disease/ Invited Speaker Cardiology Grand Rounds, Henry Ford Hospital, Detroit, MI | | | |
| 2017 | | | Rewriting Family History: Can You Outrun and Out-Eat Your Genes?/Invited Speaker  American Heart Association Scientific Sessions, Anaheim, CA | | | |
| 2018 | | | Genes, lifestyle, and risk for heart attack/Invited Speaker  MedGenome, Foster City, CA | | | |
| 2018 | | | Heart attack: From gene discovery to risk prediction, biology, and therapeutics/ Invited Speaker,  2017-2018 Frontiers in Biology Seminar Series, Stanford University, Stanford, CA | | | |
| 2018 | | | Inherited Basis for Myocardial Infarction/Invited Speaker and organizer  Keystone Symposium, Atherosclerosis: Lessons Learned and Concepts, Taos, New Mexico | | | |
| 2018 | | | Inherited basis for myocardial infarction/Invited Speaker, Obesity & Diabetes Seminar Series, University of Texas Southwesten Medical Center, Dallas, TX | | | |
| 2018 | | | Leveraging the Genome to Understand Risk and Protection from Heart Attack/Invited Speaker,  Five Points Lectures, New York Genome Center, New York, NY | | | |
| 2018 | | | Working with multi-ethnic data/Invited Speaker  Global Genomic Medicine Collaborative (G2MC) - First International Cohorts Summit, Duke University, Durham, NC | | | |
| 2018 | | | Genetic basis for heart attack/Invited Speaker  Genome Sciences Seminar, University of Washington, Seattle, WA | | | |
| 2018 | | | Genetic basis for heart attack/Invited Speaker  Frontiers in Science, University of Michigan, Ann Arbor, MI | | | |
| 2018 | | | Genetics in CVD Prevention: Insights and Opportunities/Invited Speaker  American Society of Preventive Cardiology Meeting, Santa Ana Pueblo, New Mexico | | | |
| 2018 | | | A conversation on Cardiology Genomics with Sek Kathiresan/Invited Speaker  Illumina, San Diego, CA | | | |
| 2018 | | | Genetic basis for heart attack/Invited Speaker  2018 Precision Medicine meeting, American Society of Human Genetics, La Jolla, CA | | | |
| 2018 | | | Why do some have heart attacks at a young age and what can we do about it?/Invited Speaker  Vascular Medicine Institute Distinguished Lecturer, University of Pittsburgh, Pittsburgh, PA | | | |
| 2018 | | | Genetic and environmental factors promoting CH associated atherosclerosis/Invited Speaker  Fondation Leducq Transatlantic Networks of Excellence in Cardiovascular Research Clonal hematopoiesis and atherosclerosis meeting, New York, NY | | | |
| 2018 | | | ASHG 2018 Curt Stern Award recipient/ Plenary Abstract Presentation/ Invited speaker  American Society of Human Genetics, San Diego, CA | | | |
| 2018 | | | Invited Session on Polygenic Scores/ Invited speaker  American Society of Human Genetics, San Diego, CA | | | |
| 2018 | | | Genetic basis for heart attack/Invited Speaker  Weill Cornell Third Annual Dept of Medicine Research Retreat, Weill Cornell College, New York, NY | | | |
| 2018 | | | Genetic basis for heart attack/Invited Speaker  University of Chicago Cardiovascular Sciences Training Program, University of Chicago, Chicago, IL | | | |
| 2018 | | | Genetic basis for heart attack/Invited Speaker  University of Chicago Cardiology Grand Rounds, University of Chicago, Chicago, IL | | | |
| 2018 | | | Genetic basis for myocardial infarction: understanding risk and resistance/Invited Speaker  The DeWitt Goodman Lecture at Medicine Grand Rounds, Columbia University, New York, NY | | | |
| 2018 | | | Lessons learned from UK BioBank and Center for Genomic Medicine, MGH/Invited Speaker  Cleveland Clinic, Cleveland, OH | | | |
| 2019 | | | Genetic basis for heart attack/Invited Speaker  Genetic Medicine Seminar, John Hopkins University, Baltimore, MD | | | |
| 2019 | | | Polygenic scoring and risk for common, complex disease/Invited Speaker  CSHL Biology of Genomes, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY | | | |
| 2019 | | | Genes, lifestyle, and risk for heart attack/Invited Speaker  NIH Director's Wednesday Afternoon Lecture Series, National Institutes of Health, Bethesda, MD | | | |
| 2019 | | | Genetic basis for risk and resistance of heart attack/Invited Speaker | | | |
|  | | | Daniel T. O’Connor Memorial Lecture, University of California, San Diego, CA | | | |
| 2019 | | | Precision FH care/Invited Speaker | | | |
|  | | FH Summit, Atlanta, GA | | |
| 2019 | | Polygenic scores for cardiovascular risk prediction/Invited Speaker | | |
|  | | American Heart Association Scientific Sessions, Philadelphia, PA | | |
| 2019 | | Inherited basis for risk and resistance to heart attack/Cardiology Grand Rounds | | |
|  | | | Myles Schwartz Lecture, Mt. Sinai School of Medicine, New York, NY | | | |
| 2020 | | | From reading the genome for risk to rewriting it for heart attack protection: A personal Journey from Viramathi to Verve/Braunwald Keynote | | | |
|  | | | American College of Cardiology Scientific Sessions, Virtual | | | |
| 2020 | | | Genetic basis for risk and resistance of heart attack/Invited speaker | | | |
|  | | | UCSF Seminars in Biomedical Sciences, University of California, San Francisco, Virtual | | | |
| 2020 | | | Genome editing medicines to mimic mutations protective against heart attack/Keynote speaker | | | |
|  | | | International Society for Stem Cell Research, Virtual | | | |
| 2020 | | | Therapies for CVD prevention in 2050: Gene therapy and silencing, vaccines,  immunotherapy, and more!/Invited Speaker | | | |
|  | | | American Heart Association Scientific Sessions, Virtual | | | |
| 2020 | | | Manipulating the genome for therapy/Invited Speaker | | | |
|  | | | American Heart Association Scientific Sessions, Virtual | | | |
| 2021 | | | From reading the genome for risk to rewriting it for cardiovascular health / Medicine Grand Rounds | | | |
|  | | | Vanderbilt University, Nashville, TN, Virtual | | | |
| 2021 | | | From reading the genome for risk to rewriting it for cardiovascular health / Grand Rounds | | | |
|  | | | Cleveland Clinic, Cleveland, OH, Virtual | | | |
| 2021 | | | From reading the genome for risk to rewriting it for cardiovascular health / Invited speaker | | | |
|  | | | Advances in Genome Biology and Technology Precision Health Meeting, Virtual | | | |
| 2021 | | | From reading the genome for risk to rewriting it for cardiovascular health / Grand Rounds | | | |
|  | | | Montefiore Medical Center, Bronx, NY, Virtual | | | |

International

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| 2005 | Defining the inherited basis for blood lipids and myocardial infarction / Invited Speaker |
|  | Lund University Internal Medicine Research Seminar, Malmo, Sweden |
| 2006 | High-density lipoprotein cholesterol: the new frontier / Invited Speaker |
|  | Third Partners International Cardiovascular Conference, Dubai, United Arab Emirates |
| 2007 | Defining the inherited basis for blood lipids and myocardial infarction / Invited Speaker |
|  | University of Milan Internal Medicine Research Seminar, Milan, Italy |
| 2007 | Defining the inherited basis for blood lipids and myocardial infarction / Invited Speaker |
|  | Montreal Heart Institute, Montreal, Canada |
| 2007 | Genotypes and predicting risk for cardiovascular disease / Invited Speaker |
|  | Fourth Partners International Cardiovascular Conference, Dubai, United Arab Emirates |
| 2008 | Understanding the inherited basis for blood lipids and myocardial infarction / Invited Speaker |
|  | First Cardiogenics Progress Meeting, Lubeck, Germany |
| 2008 | Understanding the inherited basis for blood lipids and myocardial infarction / Invited Speaker |
|  | 77th European Atherosclerosis Society Congress, Istanbul, Turkey |
| 2008 | Understanding the inherited basis for blood lipids and myocardial infarction / Invited Speaker |
|  | McMaster University Population Health Research Institute, Hamilton, Canada |
| 2009 | Common DNA sequence variants, blood lipids, and myocardial infarction / Invited Speaker | |
|  | XV International Symposium on Atherosclerosis, Boston, MA | |
| 2009 | Defining the spectrum of alleles that contribute to polygenic dyslipidemia / Invited Speaker |
|  | British Atherosclerosis Society Autumn Meeting 2009, Cambridge, United Kingdom |
| 2009 | Genetic variants altering individual plasma lipid components and risk for myocardial infarction / Abstract |
|  | The Genomics of Common Diseases 2009, Cambridge, United Kingdom |
| 2009 | Genetic variants altering individual plasma lipid components and risk for myocardial infarction / Invited Speaker |
|  | XVI Lipid Meeting, Leipzig, Germany |
| 2010 | Mapping genes for plasma lipids and myocardial infarction in humans / Invited Speaker |
|  | Keystone Symposia on Atherosclerosis, Banff, Alberta, Canada |
| 2010 | Genetic mapping for blood lipids and myocardial infarction in humans: What have we learned? / Invited Speaker |
|  | 21st International Congress on Thrombosis 2010, Milan, Italy |
| 2010 | Gene discovery for blood lipids and myocardial infarction in humans: What have we learned? / Invited Speaker |
|  | University of Verona Internal Medicine Research Seminar, Verona, Italy |
| 2010 | Plasma HDL cholesterol: new genes and some surprising finding/ Invited Speaker |
|  | 6th International Atherosclerosis Society Workshop, Whistler, British Columbia Canada |
| 2010 | Genetic mapping for blood lipids and risk for myocardial infarction: What have we learned? / Invited Speaker |
|  | Michael Potter and Family Cardiovascular Genetics Endowed Lectureship, University of Ottawa, Ottawa, Canada |
| 2010 | Exome sequencing, rare coding mutations, and risk for myocardial infarction / Abstract |
|  | The Genomics of Common Diseases 2009, Houston, TX |
| 2010 | Genetic mapping for blood lipids and risk for myocardial infarction: What have we learned? / Invited Speaker |
|  | Jerome Markovitz Oration, South Asian Society on Atherosclerosis and Thrombosis 2010, Bengaluru, India |
| 2011 | Exome sequencing to discover genes for plasma lipids and risk for myocardial infarction / Invited Speaker |
|  | Dutch Cardiovascular Conference, Amsterdam, Denmark |
| 2011 | Cardiovascular genomics: From discovery to clinical practice / Invited Speaker |
|  | British Cardiovascular Society Annual Conference, Manchester, UK |
| 2011 | A multi-locus genetic risk score for incident coronary heart disease / Invited Speaker |
|  | 79th European Atherosclerosis Society, Gothenburg, Sweden |
| 2011 | Rare coding mutations and risk for early-onset myocardial infarction: An exome sequencing study of >2,000 cases and controls / Invited Speaker |
|  | The Genomics of Common Diseases, Cambridge, UK |
| 2012 | Genetic testing in clinical practice / Invited Speaker |
|  | International Workshop on “Antithrombotic therapy in Acute Coronary Syndromes”, Como, Italy |
| 2012 | A rare view of coding mutations and risk for myocardial infarction / Invited Speaker |
|  | International Symposium on Atherosclerosis, Sydney, Australia |
| 2012 | Understanding the inherited basis for HDL cholesterol and risk for myocardial infarction / Invited Speaker |
|  | HDL Satellite Symposium, Cairns, Australia |
| 2012 | Nature's randomized trial to reassess the 'good' in HDL cholesterol / Invited Speaker |
|  | University of Bristol Seminar Series, Bristol, UK |
| 2012 | A rare view of coding variation and risk for myocardial infarction / Invited Speaker |
|  | Wellcome Trust Centre for Human Genetics, Merton College, Oxford, UK |
| 2013 | Genetic determinants of high density lipoprotein cholesterol and risk for myocardial infarction / Invited Speaker |
|  | European Society of Cardiology, Amsterdam, Netherlands |
| 2013 | Challenges that remain for genetics / Invited Speaker |
|  | European Society of Cardiology, Amsterdam, Netherlands |
| 2013 | A rare view of coding mutations and risk for myocardial infarction / Invited Speaker |
|  | Munich Heart Alliance, Munich, Germany |
| 2013 | Genetic of ischemic heart disease / Invited Speaker |
|  | Cadiovascular genetics: From bench to bedside, University of Parma, Parma, Italy |
| 2014 | Biomarker X is associated with disease Y but does X cause Y?/ Invited Speaker |
|  | Keystone Symposia, Challenges and Opportunities in Diabetes Research and Treatment,Vancouver, Canada |
| 2014 | Genetic scope of lipid and metabolic disorders / Invited Speaker |
|  | Metabolic Disorders: Their Rising Importance in the Age of Personalized Medicine, Montreal, Canada |
| 2014 | New insights into “good” and “bad” cholesterol from human genetics / Invited Speaker |
|  | Great Wall International Congress of Cardiology, Beijing, China |
| 2015 | Genetics: use in causality CVD / Invited Speaker |
|  | 17th International Symposium on Atherosclerosis, Amsterdam, Netherlands |
| 2015 | Why reducing LDL cholesterol matters / Invited Speakers |
|  | Merck Symposium at International Symposium on Atherosclerosis, Amsterdam, Netherlands (Merck) |
| 2015 | Developing medicines that mimic the natural successes of the human genome / Keynote Speaker |
|  | Cardiac Regeneration and Vascular Biology conference, Venice, Italy |
| 2015 | New numbers – an update on HoFH prevalence / Invited Speaker |
|  | Aegerion Symposium at European Society of Cardiology, London, UK (Aegerion) |
| 2016 | Inherited basis for myocardial infarction / Invited Speaker  deCODE Genetics, Reykjavik, Iceland |
| 2016 | Genes, lifestyle, and risk for heart attack / Invited Speaker  2016 NextGen Genomics, Biology, Bioinformatics and Technologies Conference, Cochin, India |
| 2017 | Genetics of coronary artery disease: discovery, biology and clinical translation / Invited Speaker  Annual Scientific Meeting of the Japanese Circulation Society (JCS2017), Kanazawa, Japan |
| 2017 | Genetic risk, adherence to a healthy lifestyle, and coronary disease / Invited Speaker  Annual Scientific Meeting of the Japanese Circulation Society (JCS2017), Kanazawa, Japan |
| 2017 | Genetics of coronary artery disease / Invited Speaker  Metabolism – the foundation of life. A symposium to celebrate The Knut and Alice Wallenberg Foundation’s 100th Anniversary, Gothenberg, Sweden |
| 2018 | Genes and risk for or protection against coronary disease /Invited Speaker  Oxford University Seminar, the Big Data Institute, Headington, Oxford, UK |
| 2018 | Making the most of UK Biobank genotype data/Invited Speaker  UK Biobank Scientific Conference, UK Biobank, London, UK |
| 2018 | Genetic basis for heart attack/Invited Speaker  [Institute Hospital del Mar d'Investigacions Mèdiques](https://www.imim.es/), Barcelona, Spain |
| 2019 | Biomarkers & Patient Segmentation/Invited Speaker  Novo Nordisk, Copenhagen, Denmark |
| 2019 | Why do some have a heart attack at a young age and what can we do to prevent these?/Invited Speaker  MRC IEU and NIHR BRC Joint Seminar, NIHR Bristol Biomedical Research Centre, University of Bristol, Bristol, UK |
| 2019 | Genetic basis for myocardial infarction/ Invited Speaker  CNIC Broad Interest Seminar, Centro Nacional de Investigaciones Cardiovasculares, Madrid, Spain |
| 2019 | Genetic basis for myocardial infarction/ Invited Speaker  Research Rounds, Ottawa Heart Institute, Ottawa, ON, Canada |
| 2021 | From reading the genome for risk to rewriting it for cardiovascular health / Invited Speaker |
|  | William Harvey Research Institute, Queen Mary University of London, London, UK (virtual) |
| 2022 | From reading the genome for risk to rewriting it for cardiovascular health / Invited Speaker |
|  | iDEA Congress, Rome, Italy (virtual) |

[Current Licensure and Certification](http://cv.hms.harvard.edu/index.php?page=licensure)

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| 2000- | License, Massachusetts Board of Registration in Medicine |
| 2002- | Certified, American Board of Internal Medicine, Internal Medicine |
| 2010- | Certified, American Board of Internal Medicine, Cardiovascular Disease |

[Practice Activities](http://cv.hms.harvard.edu/index.php?page=practice)

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| 2005-2016 | Heart attack primary prevention program (HAP) | Cardiovascular Disease Prevention Center, Massachusetts General Hospital | One session a month |
| 2005-2015 | Cardiac rehabilitation program | Cardiac Unit Associates, Boston, MA | Two sessions a month |
| 2005-2021 | Outpatient cardiology clinical practice | Cardiac Unit Associates  Boston, MA | One session a month |
| 2005-2021 | In-patient cardiology consult service | Heart Center, Massachusetts General Hospital | Two weeks a year |

If you have no current clinical activities, but have practiced in the past you may provide a brief (1-2 sentence) description of those prior activities

[**Technological and Other Scientific Innovations**](http://cv.hms.harvard.edu/index.php?page=innovations_tech)

|  |  |
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| Causal polymorphism rs12740374 at sortilin locus as a diagnostic marker | US Patent Application, PCT/US2010/048142, filed 9/8/2010 (Pending)  “Methods for Risk Assessment, Treating and Diagnosing Myocardial Infarction” |
| Method of identifying and treating a person having a predisposition to or afflicted with a cardiometabolic disease, June 2, 2016 | WO2016086197A9 (awarded), The invention relates to method for identifying and selecting a subject with increased risk of developing a cardiometabolic disease and optionally, providing a personalized medicine method, which may involve sequencing at least part of a genome of one or more cells in a blood sample of the subject and identifying from said sequencing one or more mutations in one or more somatic mutations. |
| Genetic risk predictor, January 17, 2019 | US20190017119 (awarded), The present disclosure relates to a method of determining a risk of developing coronary artery disease in a subject, the method comprising identifying whether at least 95 single nucleotide polymorphisms (SNPs) from Table D is present in a biological sample from the subject, wherein the presence of a risk allele of a SNP from Table D indicates that the subject has an increased risk of coronary artery disease, and wherein the presence of an alternative allele indicates that the subject has a decreased risk of coronary artery disease. |

**Education of Patients and Service to the Community**

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| 2010 | Broad Institute Midsummer Nights’ Science Seminar Series to Cambridge, MA community; Delivered lectured entitled “Genetic roots of heart disease” |

**Report of Scholarship**

### Peer-Reviewed Publications in print or other media

**Research Investigations**

\*Denotes Equal Contribution

**†Formally Supervised Trainees**

1. Punt JA, Kubo RT, Saito T, Finkel TH, **Kathiresan S,** Blank KJ, and Hashimoto Y. Surface expression of a T cell Receptor β (TcR-β) in the absence of TCR -α, -δ, and -γ proteins. *J Exp Med.* 1991; 174(4): 775-83.
2. Black P, **Kathiresan S**, Chung W. Meningioma surgery in the elderly: a case-control study assessing morbidity and mortality. *Acta Neurochirurgica.* 1998; 140(10): 1013-16.
3. **Kathiresan S**, Jordan MK, Gimelli G, Lopez-Cuellar J, Madhi N, Jang IK. Frequency of silent myocardial ischemia following coronary stenting. *AmJ Cardiol.* 1999; 84(8): 930-32.
4. Ingraham SE, Lynch RA, **Kathiresan S**, Buckler AJ, Menon AG. hREC2, a RAD51-like gene, is disrupted by t(12;14) (q15;q24.1) in a uterine leiomyoma.*Cancer Genet Cytogenet.*1999; 15(1): 56-61.
5. Januzzi JL, Lewandrowski K, MacGillivray TE, Newell JB, **Kathiresan S**, Servoss SJ, Lee-Lewandrowski E. A comparison of cardiac troponin T and creatine kinase-MB for patient evaluation after cardiac surgery. *J Am Coll Cardiol.*2002; 39(9): 1518-23.
6. **Kathiresan S**, MacGillivray TE, Lewandrowski K, Servoss SJ, Lewandrowski E, Januzzi JL. Off-Pump coronary bypass grafting is associated with less myocardial injury than coronary bypass surgery with cardiopulmonary bypass. *Heart Surg Forum.* 2003; 6(6): 509-13.
7. **Kathiresan S**, Lewandroski K, MacGillivray TE, Servoss SJ, Lee-Lewandrowski E, Newell JB, Januzzi JL. Troponin T elevation following cardiac surgery is associated with increased one year mortality and morbidity. *Am J Cardiol.*2004; 94(7): 879-881.
8. **Kathiresan S**, Larson MG, Corey D, Benjamin EJ, Fox CS, Wilson P, Meigs J, Levy D, Vasan RS. Clinical and genetic correlates of serum aldosterone in the community: the Framingham heart study. *Am J Hypertens.*2005; 18(5 pt 1): 657-665.
9. McDermott DH, Yang Q, **Kathiresan S**, Cupples LA, Massaro JM, Keaney JF, Larson MG, Vasan RS, Hirschhorn JN, O’Donnell CJ, Murphy PM, Benjamin EJ. *CCL2* polymorphisms are associated with serum MCP-1 Levels and myocardial infarction in the Framingham heart study. *Circulation.*2005; 112(8): 1113-1120.
10. **Kathiresan S**, Larson MG, Vasan RS, Guo CY, Vita JA, Mitchell GF, Keyes MJ, Newton-Cheh C, Musone SL, Lochner AL, Drake JA, Levy D, O'Donnell CJ, Hirschhorn JN, Benjamin EJ. Common genetic variation at the endothelial nitric oxide synthase locus and relations to brachial artery vasodilator function in the community. *Circulation.*2005; 112(10): 1419-1427.
11. **Kathiresan S**, Gabriel SB, Yang Q, Lochner AL, Larson MG, Levy D, Tofler GH, Hirschhorn JN, O’Donnell CJ. Comprehensive survey of common genetic variation at the plasminogen activator inhibitor-1 locus and relations to circulating plasminogen activator inhibitor-1 levels. *Circulation.* 2005; 112(12): 1728-1735.
12. Low AF, O'Donnell CJ, **Kathiresan S**, Everett B, Chae, CU, Shaw SY, Ellinor PT, MacRae CA. Aging syndrome genes and premature coronary artery disease. *BMC Med Genet.* 2005; 6: 38. PMCID: PMC1289285.
13. **Kathiresan S**, Otvos JD, Sullivan LM, Keyes MJ, Schaefer EJ, Wilson PWF, D’Agostino RB, Vasan RS, Robins SJ. Increased small LDL particle number: A prominent feature of the metabolic syndrome in the Framingham heart study. *Circulation.*2006; 113(1): 20-29.
14. **Kathiresan S**, Gona P, Larson MG, Vita JA, Mitchell GF, Tofler GH, Levy D, Newton-Cheh C, Wang TJ, Benjamin EJ, Vasan RS. Cross-sectional relations of multiple biomarkers from distinct biologic pathways to brachial artery endothelial function. *Circulation.* 2006; 113(7): 938-945.
15. **Kathiresan S**, Larson MG, Vasan RS, Guo CY, Gona P, Keaney JF, Wilson PWF, Newton-Cheh C, Musone SL, Camargo AL, Drake JA, Levy D, O’Donnell CJ, Hirschhorn JN, Benjamin EJ. Contribution of clinical correlates and 13 C-reactive protein gene polymorphisms to inter-individual variability in serum C-reactive protein level. *Circulation.* 2006; 113(11): 1415-1423.
16. Muller JE, Tawakol A, **Kathiresan S**, Narula J. New opportunities for identification and reduction of coronary risk: treatment of vulnerable patients, arteries, and plaques. *J Am Coll Cardiol.*2006; 47(8 Suppl): C2-C6*.*
17. Meigs JB, Dupuis J, Liu C, O’Donnell CJ, Fox CS, **Kathiresan S**, Gabriel SB, Larson MG, Yang Q, Herbert AG, Wilson PWF, Feng D, Tofler GH, Cupples LA. The PAI-1 gene 4G/5G polymorphism and risk of type 2 diabetes in a population-based sample of men and women. *Obesity.*2006; 14(5): 753-758.

1. **Kathiresan S**, Yang Q, Larson MG, Camargo, AL, Tofler GH, Hirschhorn JN, Gabriel SB, O’Donnell CJ. Common genetic variation in five thrombosis genes and relations to plasma hemostatic protein level and cardiovascular disease risk. *Arterioscler Thromb Vasc Biol.*2006; 26(6): 1405-1412*.*
2. Cupples LA, Arruda HT, Benjamin EJ, D'Agostino RB, Sr., Demissie S, DeStefano AL, Dupuis J, Falls KM, Fox CS, Gottlieb DJ, Govindaraju DR, Guo CY, Heard-Costa NL, Hwang SJ, **Kathiresan S**, Kiel DP, Laramie JM, Larson MG, Levy D, Liu CY, Lunetta KL, Mailman MD, Manning AK, Meigs JB, Murabito JM, Newton-Cheh C, O'Connor GT, O'Donnell CJ, Pandey M, Seshadri S, Vasan RS, Wang ZY, Wilk JB, Wolf PA, Yang Q, Atwood LD. The Framingham heart study 100K SNP genome-wide association study resource: overview of 17 phenotype working group reports. *BMC Med Genet.* 2007; 8 Suppl 1:S1. PMCID: PMC1995613.
3. **Kathiresan S**, Larson MG, Keyes MJ, Polak JF, Wolf PA, D’Agostino RB, Jaffer FA, Clouse ME, Levy D, Manning WJ, O’Donnell CJ. Assessment by cardiovascular magnetic resonance, electron beam computed tomography and carotid ultrasonography of the distribution of subclinical atherosclerosis across Framingham risk strata. *Am J Cardiol.* 2007; 99(3): 310-314.
4. Jefferson AL, Massaro JM, Wolf PA, Seshadri S, Au R, Vasan RS, Larson MG, Meigs JB, Keaney JF Jr, Lipinska I, **Kathiresan S**, Benjamin EJ, DeCarli C. Inflammatory biomarkers are associated with total brain volume: the Framingham Heart Study. *Neurology.* 2007; 68(13): 1032-1038.PMCID: PMC2758770.
5. Newton-Cheh C, Guo CY, Gona P, Larson MG, Benjamin EJ, Wang TJ, **Kathiresan S**, O'Donnell CJ, Musone SL, Camargo AL, Drake JA, Levy D, Hirschhorn JN, Vasan RS. Clinical and genetic correlates of aldosterone-to-renin ratio and relations to blood pressure in a community sample. *Hypertension.* 2007; 49(4): 846-856.
6. Mitchell GF, Guo CY, **Kathiresan S**, Vasan RS, Larson MG, Vita JA, Keyes MJ, Vyas M, Newton-Cheh C, Musone SL, Camargo AL, Drake JA, Levy D, O'Donnell CJ, Hirschhorn JN, Benjamin EJ. Vascular stiffness and genetic variation at the endothelial nitric oxide synthase locus: The Framingham heart study. *Hypertension.* 2007; 49(6): 1285-1290.
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10. Yang Q, **Kathiresan S**, Lin JP, Tofler GH, O'Donnell CJ. Genome-wide association and linkage analyses of hemostatic factors and hematological phenotypes in the Framingham heart study. *BMC Med Genet.* 2007; 8 Suppl 1:S12. PMCID: PMC1995619.
11. Benjamin EJ, Dupuis J, Larson MG, Lunetta KL, Booth SL, Govindaraju DR, **Kathiresan S**, Keaney JF, Jr., Keyes MJ, Lin JP, Meigs JB, Robins SJ, Rong J, Schnabel R, Vita JA, Wang TJ, Wilson PW, Wolf PA, Vasan RS. Genome-wide association with select biomarker traits in the Framingham heart study. *BMC Med Genet.* 2007; 8 Suppl 1:S11. PMCID: PMC1995615.
12. **Kathiresan S**, ManningAK, DemissieS, D’AgostinoRB, SurtiA, GuiducciC, GianninyL, BurttNP, MelanderO, Orho-MelanderM, ArnettDK, PelosoGM, OrdovasJM, CupplesLA. A genome-wide association study for blood lipid phenotypes in the Framingham heart study. *BMC Med Genet.* 2007; 8 Suppl. 1:S17. PMCID: PMC1995614.
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15. **Kathiresan S**, Melander O, Guiducci C, Surti A, Burtt NP, Rieder MJ, Cooper GM, Roos C, Voight BF, Havilunna AS, Hedner T, Berglund G, Vartianen E, Jousilahti P, Hedblad B, Newton-Cheh C, Salomaa V, Peltonen V, Groop L, Altshuler DM, Orho-Melander M. Six new loci associated with blood low-density lipoprotein cholesterol, high-density lipoprotein cholesterol, and triglycerides in humans. *Nat Genet.* 2008; 40(2): 189-197. PMCID: PMC2682493.
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17. **Kathiresan S**, Melander O, Anevski D, Guiducci C, Burtt NP, Roos C, Hirschhorn, JN, Berglund G, Hedblad B, Groop L, Altshuler DM, Newton-Cheh C, Orho-Melander, M. Polymorphisms associated with blood cholesterol and risk of incident cardiovascular disease events. *N Engl J Med.* 2008; 358(12):1240-1249. PMCID: PMC2682493.
18. Verzilli C, Shah T, Casas JP, Chapman J, Sandhu M, Debenham SL, Boekholdt MS, Khaw KT, Wareham NJ, Judson R, Benjamin EJ, **Kathiresan S**, Larson MG, Rong J, Sofat R, Humphries SE, Smeeth L, Cavalleri G, Whittaker JC, Hingorani AD. Bayesian meta-analysis of genetic association studies with different sets of markers. *Am J Hum Genet.* 2008; 82(4): 859-872. PMCID: PMC2665011.
19. Samelson EJ, Broe KE, Demissie S, Beck TJ, Karasik D, **Kathiresan S**, Kiel DP. Increased plasma osteoprotegerin concentrations are associated with indices of bone strength of the hip. *J Clin Endocrinol Metab.* 2008; 93(5): 1789-1795. PMCID: PMC2386280.
20. **Kathiresan S,** Myocardial Infarction Genetics Consortium. A *PCSK9* missense variant associated with a reduced risk of early-onset myocardial infarction. *N Engl J Med.* 2008; 358(21): 2299-2300.
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22. **Kathiresan S**, Willer CJ, Peloso GM, Demissie S, Musunuru K, Schadt EE, Kaplan L, Bennett D, Li Y, Tanaka T, Voight BF, Bonnycastle LL, Jackson AU, Crawford G, Surti A, Guiducci C, Burtt NP, Parish S, Clarke R, Zelenika D, Kubalanza KA, Morken MA, Scott LJ, Stringham HM, Galan P, Swift AJ, Kuusisto J, Bergman RN, Sundvall J, Laakso M, Ferrucci L, Scheet P, Sanna S, Uda M, Yang Q, Lunetta KL, Dupuis J, de Bakker PI, O'Donnell CJ, Chambers JC, Kooner JS, Hercberg S, Meneton P, Lakatta EG, Scuteri A, Schlessinger D, Tuomilehto J, Collins FS, Groop L, Altshuler D, Collins R, Lathrop GM, Melander O, Salomaa V, Peltonen L, Orho-Melander M, Ordovas JM, Boehnke M, Abecasis GR, Mohlke KL, Cupples LA. Common DNA sequence variants at thirty genetic loci contribute to polygenic dyslipidemia. *Nat Genet.* 2009; 41(1): 56-65. PMCID: PMC2881676.
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**Research publications without named authorship**

1. Diabetes Genetics Initiative of Broad Institute of Harvard and MIT\*, Lund University, and Novartis Institutes for Biomedical Research. Genome-wide association analysis identifies loci for type 2 diabetes and triglyceride levels. *Science* 2007; 316(5829): 1331-1336.

My roles in this collaborative project were to: 1) design the phenotype modeling for all lipid phenotypes; 2) develop the association analysis plan for lipids; 3) interpret results; 4) design and execute follow-up experiments to validate initial association findings for the triglyceride phenotype; and 5) prepare the description of the lipid results.

1. Tobacco and Genetics Consortium\*. Genome-wide meta-analyses identify multiple loci associated with smoking behavior. *Nat Genet.* 2010; 42(5): 441-7.PMCID: PMC2914600.

My role in this study included design of genetic association study, acquisition of genotype and phenotype data, and conduct of association analysis.

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3. IBC 50K CAD Consortium\*. Large-scale gene-centric analysis identifies novel variants for coronary artery disease. *PLoS Genet*. 2011 Sep; 7(9): e1002260. PMCID: PMC3178591.
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| In general, we suggest the following structure for the narrative:   * An opening paragraph that provides an overall summary of your major activities and achievements. Include an estimate of the proportion of your effort dedicated to teaching, research, clinical service, administrative activities and other relevant professional roles * Description of achievements in your **Area of Excellence** (Investigation, Teaching and Educational Leadership, or Clinical Expertise and Innovation); may include a description of work in progress such as pending grants or manuscripts in preparation * Description of contributions to **Teaching and Education** (if not your area of excellence). This may include a description of mentorship activities not discussed elsewhere in the CV * Description of contributions in **Significant Supporting Activities**, if any * A final paragraph that integrates and summarizes the contributions described above |
| **Narrative Report**  The goal of my research program has been to understand the genetic architecture of diseases which are complex in etiology (i.e., an interplay of genes and environment) and use this understanding to improve human health. I have focused on one complex disease - myocardial infarction (MI) - as well as its quantitative risk factors, namely blood lipid levels. My approach has been collaborative and multidisciplinary, combining genomics and statistical genetics with classic population science and molecular biology. In 2018, I founded a biotechnology company – Verve Therapeutics – which is developing a gene editing therapeutic that confers enduring protection against MI. I now lead Verve as its Chief Executive Officer.  Major research questions have included:  1. What are the genes and pathways that cause MI in humans?  2. How do DNA variants in non-coding sequence lead to human disease?  3. Can DNA variants be used to inform causal inference, therapeutic target selection, and risk prediction?  4. Can we develop a medicine which mimics naturally-occurring resistance mutations and confers enduring protection against MI?  To discover genes and pathways that underlie MI and blood lipids, I first assembled the required tools. Beginning during my internship at MGH, I recruited several hundred patients who suffered an MI at a young age. Using this cohort as a foundation, I formed the Myocardial Infarction Genetics (MIGen) Consortium in 2006. MIGen and the subsequently larger CARDIoGRAM consortium now include >40 centers in Europe, North America, Australia and Asia committed to cardiovascular genetics studies. In parallel, I built an infrastructure for research on plasma lipids. The Global Lipids Genetics Consortium (GLGC) now includes >50 centers focused on lipids genetics. Over the past decade, we have leveraged these resources to traverse the ‘genomic medicine research cycle’, moving from locus discovery to causal gene to molecular mechanism to clinical translation. Results from our studies, described below, have transformed cardiovascular and complex trait genetics.  A. Locus discovery: genetic architecture of MI and blood lipids. I have led the discovery of nearly all common variant genetic loci identified to date for MI (>100) and lipids (~250). In parallel, we have pioneered rare variant association studies for the same phenotypes. Combined, these common and rare variant genetic studies show that for about 1 in 250 people, MI risk is mongenic, largely due to mutations in genes that raise the blood level of apoB-containing lipoproteins. For the remaining 249, inherited risk is largely polygenic, reflecting the additive effects of hundreds of alleles across the frequency spectrum. The polygenes fall into several discrete pathways: LDL and lipoprotein(a), triglyceride-rich lipoproteins, cellular proliferation, vascular remoleding, and nitric oxide signaling. However, ~40% of the loci do not relate to known risk factors, suggesting new mechanisms to atherosclerosis, many of which are being explored by laboratories around the world.  B. New genes and mechanisms: causal non-coding variants. Most of the common polymorphisms discovered for MI are in non-coding sequence (i.e., they do not affect protein structure) and as such, it was initially unclear if and how these non-coding variants affect human phenotype. At the chromosome 1p13 gene region, we demonstrated that a non-coding variant disrupts a transcription factor-binding site and thereby alters expression of a nearby gene, sortilin, in a tissue-specific manner. In mouse models, we showed that sortilin regulates LDL cholesterol by decreasing VLDL secretion. This work set the standard for functional follow-up of discoveries from genome-wide association studies.  C. Causal inference. Mendelian randomization is a technique grounded in human genetics to help infer causality between a given biomarker and risk of coronary disease. Using this approach, we showed that HDL - the ‘good cholesterol’ - is *unlikely* to be a causal factor. We predicted that medicines developed to raise plasma HDL cholesterol will not be efficacicous and in several subsequent randomized trials, HDL-raising therapies have failed to lower MI risk.  We have used Mendelian randomization to clarify a long-standing controversy as to the role of plasma triglyceride-rich lipoproteins in coronary disease. At five genes which regulate plasma triglyceride-rich lipoproteins, we showed that rare mutations in coding sequence affect MI risk. These five genes include lipoprotein lipase (*LPL*) and its endogenous regulatory proteins apolipoprotein A5 (*APOA5*), angiopoietin like 4 (*ANGPTL4*), angiopoietin like 3 (*ANGPTL3*), and apolipoprotein C3 (*APOC3*). Beyond LDL cholesterol, a major route to MI is decreased activity in the lipoprotein lipase pathway; interventions which enhance this pathway are likely to be cardioprotective and this therapeutic hypothesis is currently being tested.  D. Therapeutic target selection. In 2010, we described a new Mendelian syndrome, familial combined hypolipidemia, where blood lipid levels were extremely low; we discovered the molecular cause – complete deficiency of the gene *ANGPTL3* due to compound heterozygous null mutations. Beyond *ANGPTL3*, I have shown that rare, loss-of-function mutations in four more genes confer resistance to MI. Null mutations in *NPC1L1*, *APOC3*, *ANGPTL4*, and *LPA* all lead to extremely low plasma lipids and reduced risk for MI. These findings have inspired and/or validated therapies targeting each of these genes. More generally, we have pioneered the strategy of identifying human ‘knockouts’ for genes and testing how these protein-disruptive mutations impact human phenotypes.  E. Polygenic scores and risk prediction. In 2008, we first tested the concept that multiple common variants (each with a modest effect) in combination can contribute to risk for MI. Since this initial report, polygenic scores have been widely applied in the human genetics literature. Most recently, we showed that a polygenic score comprised of a genome-wide set of 6.6 million polymorphisms can identify individuals at risk equivalent to monogenic mutations. Further, we showed that high polygenic risk for MI may be offset by two interventions: a healthy lifestyle or statin therapy.  F. Developing a new medicine for MI. Building on the identification of MI resistance mutations at eight genes, I developed the concept of a gene editing medicine that would mimic naturally-occurring resistance mutations. We raised $123M US in capital for this idea and have built a biotechnology company – Verve Therapeutics – which is developing a CRISPR/Cas9-based treatment to disrupt a target gene in liver, thereby leading to permanent reduction of blood lipids and enduring protection against MI. In July 2019, I took a leave from my academic posts and moved full-time to lead Verve as its Chief Executive Officer.  *In summary,* I started with a research vision to understand the inherited basis for complex traits and specifically, MI, with the ultimate goal of improving preventive cardiac care. We have systematically dissected the *genetic architecture* of MI and blood lipids, elucidating the number and magnitude of genetic risk factors that exist in each patient and in the population and their frequencies and interactions. We have leveraged these genetic discoveries to uncover new biology, to distinguish causal risk factors from reactive biomarkers, to pinpoint new genes and pathways where naturally-occurring mutations protect against MI risk, and to enhance risk prediction. And now, at Verve Therapeutics, we are developing a new gene editing treatment to shift the treatment of MI from a chronic disease/chronic care model to a once-and-done approach. In concert with this research and leadership effort, I have practiced clinical cardiology at MGH since 2005. | |