CURRICULUM VITAE

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Place of Birth: Winchester, MA

Education

Years	Degree	Field of Study	Institution
9/1986 - 6/1989	B.S. summa cum laude	Biology	University of Cincinnati
8/1990 - 6/1996	M.D.	Medicine	Stanford University
8/1990 - 1/1996	Ph.D.	Physiology (Richard W. Tsien, PhD)	Stanford University

Postdoctoral Training

6/1996 - 6/1998	Medical Intern & Resident	Medicine	Brigham & Women's Hospital
6/1998 – 6/2000	Cardiology Fellow	Cardiology	Massachusetts General Hospital
7/2000 – 6/2001	Cardiac Electrophysiology Fellow	Cardiology	Massachusetts General Hospital
7/2001 – 7/2003	Clinical and Research Fellow	Cardiology	Massachusetts General Hospital

Faculty Academic Appointments

7/2003 - 6/2006	Instructor	Medicine	Harvard Medical School
7/2006 - 6/2010	Assistant Professor	Medicine	Harvard Medical School
8/2010 - 5/2017	Associate Professor	Medicine	Harvard Medical School
5/2017 -	Professor	Medicine	Harvard Medical School

Appointments at Hospitals/Affiliated Institutions

7/1998 - 6/2002	Clinical and Research Fellow in Medicine	Internal Medicine	Massachusetts General Hospital
7/2002 - 1/2007	Assistant in Medicine	Internal Medicine	Massachusetts General Hospital
2/2006-	Faculty	Cardiovascular Research Center	Massachusetts General Hospital
1/2007 - 9/2010	Assistant Physician	Internal Medicine	Massachusetts General Hospital
1/2008-	Affiliated Faculty	Center for Human Genetic Research	Massachusetts General Hospital
10/2014 -	Associate Member		Broad Institute of Harvard and MIT
10/2010 - 9/2016	Associate Physician	Internal Medicine	Massachusetts General Hospital
9/2016 -	Physician	Internal Medicine	Massachusetts General Hospital

Major Administrative Leadership Positions

4/2003-3/2016	Director, Medical Step-Down Unit	Massachusetts General Hospital
7/2006-	Assistant Director, Clinical Cardiac Electrophysiology Fellowship Program	Massachusetts General Hospital
3/2016-	Director, Cardiac Arrhythmia Service	Massachusetts General Hospital

Committee Service

National

2016	Master Thesis Committee for Elizabeth Abraham	Boston University

International

12/2013	Doctoral Thesis Committee for Ingrid Christophersen	Faculty of Health Sciences University of Copenhagen

Professional Societies

2000- American Heart Association

2003-2005	Young Investigators Committee
2005-2009	Electrocardiography & Arrhythmias Committee
2009-2013, 2014-2017	Functional Genomics and Translational Biology Leadership Committee
2009-2013	Clinical Cardiology Leadership Committee (FGTB Liason)
2010-14	Committee on Scientific Sessions Resource Planning
2012-2017	Writing group, AHA/ACC/HRS 2014 Guidelines for Atrial Fibrillation
2012-	Chair, AHA Atrial Fibrillation Advisory Task Force
2014-	Functional Genomics and Translational Biology Leadership Committee, Vice Chair of Scientific Programming

2005- Heart Rhythm Society (formerly NASPE)

2005-	Member
2010-	Abstract Grader
2014	Scientific Sessions Planning Committee, Co-Chair of Basic Science Programming
2015-	Scientific Sessions Planning Committee, Chair of Basic Science Programming

2011- European Cardiac Arrhythmia Society

2013- American Society of Clinical Investigation

2014- Cardiac Electrophysiology Society

2015- American Society of Human Genetics

Grant Review Activities

2010	Ad hoc review of a Program Project Grant, NIH/NHLBI
2012	Ad hoc review of a Dutch grant
2012	Ad hoc review of British Heart Foundation award
2012-14	Basic Electrophysiology Study Section, American Heart Association
2015	Doris Duke Charitable Foundation, review of Clinical Scientist Development Awards

Editorial Activities

Ad hoc Reviewer

New England Journal of Medicine
Nature Genetics
Circulation
Circulation Research
Journal of the American College of Cardiology
Circulation: Arrhythmia and Electrophysiology
Circulation: Cardiovascular Genetics
Pacing and Clinical Electrophysiology
European Heart Journal
Heart Rhythm
Europace
Cardiovascular Research
American Journal of Medical Genetics - Part A
Journal of Cardiovascular Electrophysiology
Canadian Journal of Cardiology

Other Editorial Roles

2008-	Editorial Board	Circulation: Cardiovascular Genetics
2012-	Editorial Board	Journal of Interventional Cardiovascular Electrophysiology
2012-	Editorial Board	Canadian Journal of Cardiology
2017-	Editorial Board	Circulation: Arrhythmia & Electrophysioloy

Honors and Prizes

1986	Albert B. Voorheis Scholarship	University of Cincinnati
1989	Phi Beta Kappa	University of Cincinnati
1989	Outstanding Undergraduate Thesis	Dept. of Biological Sciences, University of Cincinnati
1996	Dean's Award for Excellence in Clinical Medicine	Stanford University School of Medicine
2001	NASPE Fellowship Award	NASPE
2002	Finalist, Samuel A. Levine Young Investigator Award	American Heart Association
2003	Second Place	Astra-Zeneca Young Investigators Competition
2010	Fellow, American Heart Association	
2012	Nominee, Excellence in Mentoring Award	Harvard Medical School
2013	Nominee, Excellence in Mentoring Award	Harvard Medical School
2013	American Society for Clinical Investigation	
2014	Nominee, Excellence in Mentoring Award	Harvard Medical School
2015	Michael Potter & Family Cardiovascular Genetic Lectureship	University of Ottawa Heart Institute
2016	Functional Genomics and Epidemiology Mid-Career Research Award	American Heart Association

Report of Funded and Unfunded Projects

Past

2001-2002 Genetics of Lone Atrial Fibrillation
North American Society of Pacing and Electrophysiology
Ellinor ($65,000)
The major goal of this project is to permit the initial identification and collection of individuals and families with atrial fibrillation.

2003-2007 The Genetic Basis of Atrial Fibrillation
NIH/NHLBI 5K23 HL71632
Ellinor ($726,625)
The major goals of this project are to characterize the genetic architecture of lone atrial fibrillation, identify families with inherited atrial fibrillation and to isolate the responsible genes.

2003-2005 Exploring the Endophenotypes of Atrial Fibrillation
Smith Family Foundation
Ellinor ($200,000)
The major goal of this project is to attempt to identify endophenotypes or subclinical traits that co-segregate with atrial fibrillation, and to use these endophenotypes to facilitate the mapping and cloning of the causative genes for this arrhythmia.

2008 Identification of common genetic variants for atrial fibrillation and the PR interval.
MGH Interim Support
Ellinor ($50,000)
To use GWAS to conduct a meta-analysis of atrial fibrillation and PR interval, a quantitative intermediate phenotype for AF, in the CHS, FHS, Rotterdam, MONICA/KORA and PREVENT-IT studies, to replicate GWAS findings for AF and PR intervals, to study the mechanisms of replicated SNPs in cellular and zebrafish model systems and to examine gene-environment and gene-gene interactions.

2007-2008 Genome wide association studies for atrial fibrillation.
Ellinor ($398,318)
Deane Foundation for Integrative Research in Atrial Fibrillation and Stroke
Funding was obtained from the Deane Institute at MGH to 1) replicate the variants on Chromosome 4q25 associated with AF in populations from Vanderbilt University, the Rotterdam Study, the German AF Network and Framingham Heart Study. 2) To genotype 350 cases from MGH with lone AF in a genome wide association study.

2004- 2009 Genetic Modulators of Sudden Death
NIH/NHLBI R01HL077398
Ellinor (Site PI); Barry London, University of Pittsburgh (Overall PI)
The purpose of this study is to identify genes and polymorphisms responsible that correlate with implantable cardioverter defibrillator events in long-term follow up.

2005 -2009 The Genetic Basis of Atrial Fibrillation
NIH/NHLBI 5RO1HL075431
PI: MacRae; Ellinor Co-Investigator
This project proposes to use a kin-cohort study to define the clinical and molecular genetic architecture of lone atrial fibrillation, including the positional cloning of a novel locus on Chromosome 6q14-21.

2007-2010 Cloning the gene for sudden death, fibrosis & cardiomyopathy on Chromosome 10q25
AHA
Ellinor ($165,000)
The goal of this grant is to identify the gene on Chromosome 10q25-q26 responsible for sudden cardiac, fibrosis and cardiomyopathy through the following Specific Aims: 1. Refine the genetic interval and physical map; 2. Identify and screen transcripts within the minimal interval; and 3. Define the role of the identified gene in a cohort with ventricular arrhythmias and non-ischemic cardiomyopathy.

2009-2011 Electrical Silencing of the Pulmonary Veins
NIH/NHLBI R21HL096009-01A1
Milan (PI), Ellinor (Collaborating Investigator)
This project proposes to evaluate the *KCNK0* gene for its ability to silence cardiomyocytes as a treatment for atrial fibrillation.

2010-2011 Exome Sequencing in Atrial Fibrillation
MGH Heart Center SPARK award
Ellinor ($25,000)
The goal of this project is to provide seed funding to enable exome based sequencing of families with familial atrial fibrillation.

2009-2013 Identification of Common Genetic Variants for Atrial Fibrillation and PR interval
NIH/NHLBI 1R01HL092577
Joint-PIs: Ellinor & Benjamin ($2,000,000)

To use GWAS to conduct a meta-analysis of atrial fibrillation and PR interval, a quantitative intermediate phenotype for AF, in the CHS, FHS, Rotterdam, MONICA/KORA and PREVENT-IT studies, to replicate GWAS findings for AF and PR intervals, to study the mechanisms of replicated SNPs in cellular and zebrafish model systems and to examine gene-environment and gene-gene interactions.

2012-2013 Translating Genetic Discoveries for Atrial Fibrillation into Clinical Risk Markers for Stroke
MGH Heart Center SPARK award
Ellinor ($80,000)
The goal of this project is to provide funding to support Dr. Steven Lubitz' salary for his first year on staff and to enable an examination of the relation between genetic variants for atrial fibrillation and stroke risk.

2008-2013 Molecular mechanisms of electrical remodeling in cardiac hypertrophy
NIH/NHLBI K08HL089319
PI: Das; Ellinor (Co-mentor)

2010-2013 Michael Mazzini, MD, Research Fellow, Boston University
AHA, Fellow to Faculty Award
PI: Mazzini; Ellinor (Co-mentor)

2012-2017 Steven A. Lubitz, MD, MPH
AHA, Fellow to Faculty Award
PI: Lubitz; Ellinor (Mentor)
This award was returned when the K23 award funding began in July 2013.

2013-2014 Sequencing and Functional Analyses to Identify Atrial Fibrillation Risk Variants
MGH Executive Committee on Research
Role: PI

2010-2014 Determining the Role of the Potassium Channel, *KCNN3*, in Atrial Fibrillation
NIH/NHLBI 1R01HL104156
PI: Ellinor ($1,174,790, currently in NCE)
The goals of this proposal are to 1) Determine if genetic variation in *KCNN3* is associated with AF risk; 2) Identify and characterize mutations and rare variants in *KCNN3* in subjects with AF; 3) Identify conserved, non-coding regulatory elements associated with *KCNN3* function; and 4) Characterize the cardiac phenotypes of two mouse lines with alterations in *KCNN3* function

2010-2015 Pharmacogenomics of Arrhythmia Therapy
NIH/NHLBI 5U01HL65962
Roden (PI), Ellinor (Subcontract PI)
This project proposes to administer procainamide to patients undergoing pulmonary vein isolation procedures in order to assess the relation between genetic variation and the response to procainamide therapy.
Role: PI on subcontract to MGH

2013-2015 ADAM-15 and AF: Evaluating the role of ADAM-15 in Atrial Fibrillation
European Union - 328352
Marie Curie Fellowship Award
Role: Mentor to Dr. Sebastian Clauss

2014-2015 Ingrid Christophersen, MD, PhD
Heart Rhythm Society, $50,000
Identifying the Genetic Basis of Atrial Fibrillation
Role: Mentor

Current

2009-2018 Identification of Common Genetic Variants for Atrial Fibrillation and PR interval
NIH/NHLBI 2R01HL092577 ($2,500,000)
Joint-PIs: Ellinor, Benjamin & Lunetta
In this renewal application we will sequence the 9 genome-wide significant loci for atrial fibrillation in 1000 cases and controls. We will use a combination of cellular electrophysiology, mouse and zebrafish models to identify the functional risk variants for atrial fibrillation.
Role: Contact PI and Co-Principal Investigator with Drs. Emelia Benjamin and Kathryn Lunetta of FHS/BU.

2010-2021 Mentoring in Arrhythmia Research
NIH/NHLBI 2K24HL105780 ($560,000)
The goals of this proposal are to allow Dr. Ellinor to reduce his clinical time and focus on the mentoring of promising investigators in arrhythmia research.
Role: PI

2013-2018 Genetic and Translational Approaches to Identifying Novel Pathways for Atrial Fibrillation
AHA Established Investigator Award 13EIA14220013 ($460,000)
The goal of this proposal is to 1) support the ongoing patient collection in the MGH AF Study and 2) to enable the collection of patients needed to determine if *de novo* genetic variation is associated with atrial fibrillation.
Role: PI

2014-2019 Deciphering the Genomic Topology of Atrial Fibrillation
Fondation Leducq ($6,000,000)
Role: American coordinator and overall PI of the Network
European coordinator: Vincent Christoffels; American PIs: Ivan Moskowitz, James F. Martin; European PIs: Paulus Kirchhof, Wouter de Laat.

2014-2017 Identification of Common Genetic Variants for Atrial Fibrillation and PR interval
NIH/NHLBI 2R01HL092577S1 ($6,965,000)
Joint-PIs: Ellinor, Benjamin & Lunetta
The goal of this supplement is to perform whole genome sequencing in 2,799 individuals with early-onset atrial fibrillation from the AFGen Consortium.

2015-2020 AFGen Consortium: Atrial Fibrillation Genomics to Functional Analyses
NIH/NHLBI 5R01HL128914 ($2,500,000)
The goal of this proposal is to analyze extant exome chip and exome sequencing data in the AFGen Consortium. The identified variants will be replicated in independent cohorts and characterized in iPSC derived cardiomyocytes and in embryonic zebrafish. ($2,500,000)
Role: Co-PI with Dr. Emelia Benjamin at BU/FHS

2015-2020 Discovery of Therapeutic Agents for Cardiovascular Diseases Based on Genomic Insights
Bayer HealthCare ($35,000,000)
A collaboration between the Broad Institute and Bayer HealthCare: The goal of this collaboration is to use human genetic data to guide the development of new therapeutics for atrial fibrillation and myocardial infarction.
Role: Co-PI with Dr. Sekar Kathiresan

Pending

2017 Genome Sequencing of Atrial Fibrillation: Unraveling a Complex Disease
1X01HL139401-01
The goal of the proposal is to expand the current whole genome sequencing efforts for atrial fibrillation to a total of 25,000 cases from multiple races and ethnicities.
Role: Contact and Co-PI with Dr. Kathryn Lunetta

2017 Genetic Discovery in Mitral Valve Prolapse
1X01HL139392-01
The current proposal is to perform whole genome sequencing in well-characterized individuals with mitral valve prolapse from the MVPGen Consortium.
Role: Co-PI with Drs. David Milan and Susan Slaugenhaupt

Current Unfunded Projects

2013-2017 Steven A. Lubitz, MD, MPH
NIH/NHLBI K23HL114724
Atrial Fibrillation: Bridging Genetic Discovery and Clinical Associations
Role: Mentor

2016-2017 Heather Jameson, PhD
Heart Rhythm Society
The role of CAND2 in atrial fibrillation.
Role: Mentor on fellowship award.

Report of Local Teaching and Training

Teaching of Students in Courses

2003-06	Electrocardiography Review for HMS III Medicine Core Rotation	Lecturer 2 one hour sessions every 3 months

Clinical Supervisory and Training Responsibilities

2002-	Cardiology Fellows Ambulatory Clinic Preceptor, Massachusetts General Hospital	3 half day sessions per year

2003-	Cardiac Electrophysiology Fellows Ambulatory Clinic, Preceptor, Massachusetts General Hospital	One half day per week
2006-2010	Cardiac Fellows Ambulatory Clinic in Cardiac Electrophysiology, Preceptor, Massachusetts General Hospital	One half day per week

Formally Supervised Trainees (Research)

2006-08	Subbarao Choudry, MD, Cardiac Electrophysiologist and Assistant Clinical Professor, Mount Sinai Hospital.
2008-	Steven A. Lubitz, MD, Assistant Professor, MGH & Harvard Medical School Completed an MPH at the Harvard School of Public Health, co-authored more than 30 manuscripts including first author manuscripts in *JAMA*, *Circulation* and *Nature Genetics*, finalist for junior investigator awards at two successive AHA meetings, received NIH K23 award.
2008-	Jared Magnani, MD, Assistant Professor, Boston University & Framingham Heart Study; received AHA Fellow to Faculty award
2010-11	Michiel Rienstra, MD, PhD, Associate Professor, University Medical Center Groningen, The Netherlands
2010-12	Moritz Sinner, MD, MPH, Assistant Professor, LMU, Munich, Germany Completed an MPH at the Harvard School of Public Health, recipient of German National Research Fellowship award, finalist in the AHA Young Investigator Award
2010-13	Saagar Mahida, MB, ChB
2011-14	Vincenzo Macri, PhD Recipient of Heart Rhythm Society Fellowship award in two successive years
2012-	Nathan Tucker, PhD First author manuscript in *Nature Genetics.* Recipient of T32 training award and MGH Goodman fellowship, finalist in the AHA Functional Genomics and Translational Biology Young Investigators Competition
2012-15	Elena Dolmatova, MD Recipient, Functional Genomics and Translational Biology Young Investigator Award for the American Heart Association
2012-16	Sebastian Clauss, MD Recipient of Marie Curie Fellowship award from the European Union.
2012-	Jiangchuan Ye, MD
2103-15	Mary Banks, MD Recipient of T32 training award.
2014-	Ingrid Christophersen, MD, PhD Recipient of Heart Rhythm Society Fellowship and Fellowship support from the Norwegian Research Council.
2015-	William Hucker, MD, PhD Recipient of T32 training award.
2015-	Alan Hanley, MB, ChB Recipient of a fellowship award from the Irish Cardiac Society.
2015-	Heather Jameson, PhD Recipient of Heart Rhythm Society Fellowship
2016-	Anthony Retournard, graduate student

Formal Teaching of Peers

2005	Biventricular Device Therapy Update and Review of Echocardiography	Single Presentation Boston

Local Invited Presentations

None of the presentations below were sponsored by outside entities.

Local Grand Rounds

2006 Arrhythmia Genetics: AF, ARVD and SCD,
V.A. Medical Center, West Roxbury

2007 Genetics of Atrial Fibrillation
Cardiology Division, Massachusetts General Hospital

2007 Genetics of Atrial Fibrillation
Cardiology Division, Boston University Medical Center

2009 Genetics of Atrial Fibrillation
Cardiovascular Research Institute, Beth Israel Deaconess Medical Center, Boston, MA

2012 Using Genetics to Identify Novel Pathways for Atrial Fibrillation
Cardiology Division, Beth Israel Deaconess Medical Center, Boston, MA

2013 Identification of Novel Molecular Pathways for Atrial Fibrillation
Cardiology Division, Massachusetts General Hospital, Boston, MA

2014 Atrial Fibrillation: Can Genetics Inform Patient Care?
Department of Medicine, Massachusetts General Hospital, Boston, MA

2016 Cardiac Electrophysiology Service in 2016: Where have we been? How can we help? Medical Grand Rounds, Massachusetts General Hospital, Boston, MA

Local Seminars

2003 Lone Atrial Fibrillation
Arrhythmia Service, Brigham and Women's Hospital

2004 Genetics of Atrial Fibrillation
Arrhythmia Service, Brigham and Women's Hospital

2005 Arrhythmogenic Right Ventricular Dysplasia
Arrhythmia Service, Brigham and Women's Hospital

2007 Arrhythmogenic Right Ventricular Dysplasia
Arrhythmia Service, Brigham and Women's Hospital

2007 Genetics of Atrial Fibrillation
Arrhythmia Service, Brigham and Women's Hospital

2007 Genetics of Atrial Fibrillation
Center for Human Genetic Research, Massachusetts General Hospital

2009 Genetics of Atrial Fibrillation
Arrhythmia Service, Beth Israel Deaconess Medical Center

2010 Using Genetics to Identify Novel Pathways for Atrial Fibrillation
Center for Human Genetic Research, Massachusetts General Hospital

2010 Genetic Conditions Predisposing to Sudden Cardiac Death: Right ventricular dysplasia, Brugada syndrome, Long QT syndrome, & Hypertrophic cardiomyopathy
MGH ICD Patient Education Day, Boston, MA

2011 Using Genetics to Identify Novel Pathways for Atrial Fibrillation
Brigham and Women's Hospital, Boston, MA
2012 Genetics of Atrial Fibrillation,
Cardiac Arrhythmia Service, Brigham and Women's Hospital, Boston, MA
2012 Using Genetics to Identify Novel Pathways for Atrial Fibrillation,
Neurology Service, Massachusetts General Hospital, Boston, MA
2013 Using Genetics to Identify Novel Pathways for Atrial Fibrillation,
Arrhythmia Service, Beth Israel Deaconess Medical Center, Boston, MA
2014 Can Atrial Fibrillation Genetics Inform Clinical Care? Arrhythmia
Service, Beth Israel Deaconess Medical Center, Boston, MA
2015 Using Genetics to Identify Novel Pathways for Atrial Fibrillation,
Arrhythmia Service, Beth Israel Deaconess Medical Center, Boston, MA
2015 Using Genetics to Identify Novel Pathways for Atrial Fibrillation,
Cardiac Grand Rounds, Massachusetts General Hospital, Boston, MA
2016 Atrial Fibrillation: From Associations to Mechanisms, Brigham Research
Institute, Brigham and Women's Hospital, Boston, MA
2016 Atrial Fibrillation in the Next 100 Years, Paul Dudley White Centennial
Celebration, Massachusetts General Hospital, Boston, MA
2017 Atrial Fibrillation: From Associations to Mechanisms, Arrhythmia
Service, Beth Israel Deaconess Medical Center, Boston, MA

Report of Regional, National and International Invited Teaching and Presentations

None of the presentations below were sponsored by outside entities.

Regional, National and International Invited Presentations and Courses

Regional

2006 Nonpharmacologic Therapies for Atrial Fibrillation,
Mount Kisco Medical Group
2011 Using Genetics to Identify Novel Pathways for Atrial Fibrillation
Tufts Medical Center, Boston, MA

National

2003 Heritability of Lone Atrial Fibrillation / Seminar
University of California, San Francisco
2006 Repolarization / Lecture
Heart Rhythm 2006, Boston
2006 Genetics Techniques for the Electrophysiologist / Lecture
Heart Rhythm 2006, Boston
2006 Arrhythmogenic Right Ventricular Dysplasia / Lecture
American Heart Association Scientific Sessions, New Orleans
2007 Genetics of Atrial Fibrillation / Lecture
American College of Cardiology, Chicago
2007 Forging the Critical Links between Genotype and Clinical Presentations: Translation into
Tomorrow's Therapy / Lecture
Heart Rhythm 2007, Denver

2008 Meet the Experts: Evaluation of the Patient With a Suspected Heritable Arrhythmia / Lecture
American College of Cardiology, New Orleans

2008 Common Genetic Variants and Atrial Fibrillation / Lecture
Heart Rhythm 2008, San Francisco

2008 Forging the Critical Links between Genotype and Clinical Presentations: Translation into Tomorrow's Therapy / Lecture
Heart Rhythm 2008, San Francisco

2008 Genetic Basis for Atrial Fibrillation in Patients / Lecture
Heart Rhythm, San Francisco

2009 Genetics of Atrial Fibrillation / Lecture
Experimental Biology, The American Physiological Society (APS), New Orleans

2009 Genetics of Atrial Fibrillation / Lecture
California Heart Rhythm Society, San Francisco

2009 Atrial Fibrillation - Genetics, Genomics and Drug Therapy/ Lecture
Heart Rhythm 2009, Boston

2009 Pathophysiology of Atrial Fibrillation: Genetics, Atrial Structure and Neurologic Input/ Lecture, American Heart Association, Orlando

2009 Genomics of Atrial and Ventricular Arrhythmias / Moderator
American Heart Association, Orlando

2009 Genetics of Atrial Fibrillation
Cardiovascular Research Institute, Mt. Sinai School of Medicine

2009 Genetics of Atrial Fibrillation
Cardiology Division, University of Michigan

2010 Ask the Experts / Panel discussion
American College of Cardiology, Atlanta

2010 Using Zebrafish to Follow Up GWAS Hits / Lecture
CHARGE Investigators Meeting, Houston

2010 Future Role of Genetics in the Management and Treatment of Atrial Fibrillation
Columbia University, New York

2010 Emerging Novel Pathways for Atrial Fibrillation
MGH-Yale Retreat, Boston

2010 Targeting Triggers of Atrial Fibrillation: Identifying Novel Triggers for Atrial Fibrillation from Population Studies, Heart Rhythm 2010, Denver

2010 What Do We Know about Genetic Risks for Atrial Fibrillation? Lecture
Heart Rhythm 2010, Denver

2010 SS.08. Atrial Fibrillation: Taking Science to the Street---Beat to Beat, Moderator
American Heart Association, Chicago

2010 ADD.400.03. Inherited Arrhythmias: Testing/Risk Assessment, Moderator
American Heart Association, Chicago

2010 Using Genetics to Identify Novel Pathways for Atrial Fibrillation
NYU Langone Medical Center , New York, NY

2010 Using Genetics to Identify Novel Pathways for Atrial Fibrillation
Rhode Island Hospital/Brown University, Providence, RI

2010 Using Genetics to Identify Novel Pathways for Atrial Fibrillation
Cardiology Division, Metro Health Campus of Case Western Reserve University, Cleveland, OH

2010 Epidemiology, Heritability, Genetics and Emerging Therapies for Atrial Fibrillation; Department of Medicine, Metro Health Campus of Case Western Reserve University, Cleveland, OH

2011 0630-13 - Forging the Links between Genotype and the Clinical Presentations of AF/ Lecture,
American College of Cardiology, New Orleans

2011 0639-11 - Gene Therapy for AF / Lecture,
American College of Cardiology, New Orleans

2011 Genome Wide Association Studies - Hope or Hype? Meet-The-Experts Luncheon, Heart Rhythm 2011, San Francisco

2011 Human Genetic Evidence of a Role for SK Channels in Atrial Fibrillation / Lecture,
Heart Rhythm 2011, San Francisco

2011 Genomic and Proteomic Approaches to Complex Heart, Lung, Blood & Sleep Disorders
Using Genetics to Identify Novel Pathways for Atrial Fibrillation
The Jackson Laboratory, Bar Harbor (Sponsored by the NIH, NHLBI)

2011 SMP.304 Systems Biology Strategies in Models of Cardiovascular Disease, Moderator
American Heart Association, Orlando

2011 CVS.401 Who Is at Risk and Why: Making Sense of the Explosion of Genetic Data,
Lecture American Heart Association, Orlando

2011 Using Genetics to Identify Novel Pathways for Atrial Fibrillation
Northwestern University, Chicago, IL

2011 Using Genetics to Identify Novel Pathways for Atrial Fibrillation
Indiana University, Indianapolis, IN

2011 Using Genetics to Identify Novel Pathways for Atrial Fibrillation
Northwestern University, Chicago, IL

2012 Genetics of Atrial Fibrillation, Lecture, International Stroke Conference, New Orleans

2012 Genetics of Atrial Fibrillation, Lecture, Western Atrial Fibrillation Symposium, Park City, Utah

2012 Emerging Novel Pathways for Atrial Fibrillation, Stanford University, Stanford, CA

2012 Update on Genomics of AF: Where Are We in 2012? Heart Rhythm 2012, Boston, MA

2012 Molecular Basis of Atrial Arrhythmias, American Society of Hypertension, 2012 Annual Scientific Meeting and Exposition, New York, NY

2012 Genomic and Proteomic Approaches to Complex Heart, Lung, Blood & Sleep Disorders
Using Genetics to Identify Novel Pathways for Atrial Fibrillation
The Jackson Laboratory, Bar Harbor (Sponsored by the NIH, NHLBI)

2012 Using Genetics to Identify Novel Pathways for Atrial Fibrillation
Cardiology Division, Loyola University, Chicago, Il

2012 Atrial Fibrillation in 2012: From Epidemiology and Genetics to Emerging Therapies,
Department of Medicine, Loyola University, Chicago, Il

2013 What Have We Learned from Genetic Studies of AF, Lecture, Western Atrial Fibrillation Symposium, Park City, Utah

2013 Using Genetics to Identify Novel Pathways for Atrial Fibrillation
Cardiology Division, Case Western Reserve University, Cleveland, OH

2013 Insights from Genome Wide Association Studies into the Pathophysiology of AF,
Genomic and Proteomic Approaches to Complex Heart, Lung, Blood & Sleep Disorders,
The Jackson Laboratory, Bar Harbor (Sponsored by the NIH, NHLBI)

2013 Discussant for the EU-PACT Warfarin Study & COAG Trial, Late Breaking Clinical Trials,
AHA Scientific Sessions, Dallas, Texas,

2013 Relation Between *SCN10A* Variation and the PR Interval, Lecture, AHA Scientific Sessions, Dallas, Texas,

2013 Genetic Risk Markers of AF: Are They Ready for Prime Time? Lecture, AHA Scientific Sessions, Dallas, Texas,

2014 Advances in the Genetics of Atrial Fibrillation, Boston Atrial Fibrillation Symposium, Orlando, Florida

2014 What is next after GWAS? Moving from Associations to Mechanisms for Atrial Fibrillation, Cardiovascular Research Institute Seminar, University of Pennsylvania, Pennsylvania

2014 Insights from Genome Wide Association Studies into the Pathophysiology of AF, Cardiology Grand Rounds, University of Pennsylvania, Pennsylvania

2014 Genetic Screening for Treatment Responders, Lecture, Western Atrial Fibrillation Symposium, Park City, Utah

2014 Rare Variation in Common Arrhythmias: What have we learned?
Heart Rhythm Society, San Francisco

2014 Discussant, Genomic Tools and Arrhythmia Mechanisms
Heart Rhythm Society, San Francisco

2014 Genetics of Atrial Fibrillation, Session 005 - Mechanisms of Atrial Arrhythmias, Lecture, AHA Scientific Sessions, Chicago, Illinois,

2014 Personalizing AF Using Common Genetic Variants, Session CVS.404 - Mechanism-Based, Personalized Concepts in Therapy for Atrial Fibrillation, Lecture, AHA Scientific Sessions, Chicago, Illinois,

2014 Genomics of Atrial Fibrillation and Related Risk of Stroke, Session CVS.233.gc - What Have We Learned from Large-Scale Genomics in Cardiovascular Disease and Stroke?, Lecture, AHA Scientific Sessions, Chicago, Illinois,

2014 Using Genetics to Identify Novel Pathways for Atrial Fibrillation
New York University, New York, NY

2015 Advances in the Genetics of Atrial Fibrillation, Boston Atrial Fibrillation Symposium, Orlando, Florida

2015 Genetics of Atrial Fibrillation, Keystone Symposium, Copper City, Colorado

2015 Implications of Genome Studies for Arrhythmia Therapy, Stanford Biodesign New Arrhythmia Technologies Retreat, Boston, Massachusetts

2015 AF Genetics: Present and Future, Heart Rhythm Society Scientific Sessions, Boston, Massachusetts

2015 Gene Expression and Genetic Variation in Human Atria, Heart Rhythm Society Scientific Sessions, Boston, Massachusetts

2015 AFGen Consortium: Exomes, Genomes and AF, Heart Rhythm Society Scientific Sessions, Boston, Massachusetts

2015 Using Genetics to Identify Novel Pathways for Atrial Fibrillation, Lecture in a course entitled "Genetic Epidemiology and Functional Genomics for Investigators: Applied Learning Workshop" hosted by the Framingham Heart Study & Boston University School of Medicine, Boston, Massachusetts

2015 Atrial Fibrillation: Challenges and Opportunities, Cardiac Grand Rounds, Beth Israel Deaconess Medical Center, Boston, Massachusetts

2015 What are the Genetic Influences that make AF Persistent, Resistant or Difficult to Treat?
Persistent AF Think Tank, Orlando, Florida

2015 Genetics of Atrial Fibrillation, Arrhythmia Summit, American Heart Association Scientific Sessions, Orlando, Florida

2015 Epidemiology and Genetics of Atrial Fibrillation, Plenary Session, American Heart Association Scientific Sessions, Orlando, Florida

2015 Genetic Markers to Risk Stratify for Atrial Arrhythmias, American Heart Association Scientific Sessions, Orlando, Florida

2015 Grant Writing 101, American Heart Association Scientific Sessions, Orlando, Florida

2015 Genetics of Atrial Fibrillation, Benning Lecture, University of Utah, School of Medicine, Salt Lake City, UT

2016 Genetics of Atrial Fibrillation: Challenges and Opportunities, Cardiac Grand Rounds, Columbia University School of Medicine, New York, NY

2016 Genetics of Atrial Fibrillation: Challenges and Opportunities, Cardiac Grand Rounds, University of Illinois, Chicago; Chicago, IL.

2016 Translational Opportunities in Cardiac Phenotypes, International Stroke Genetics Consortium, Cambridge, MA

2016 Inherited Arrhythmias: Does AF count? Heart Rhythm Society Scientific Sessions, San Francisco, CA

2016 Emerging Directions in the Genetics of Atrial Fibrillation, Heart Rhythm Society Scientific Sessions, San Francisco, CA

2016 Atrial Fibrillation, Genetics, and Channelopathies, Heart Rhythm Society Scientific Sessions, San Francisco, CA

2016 Not So Fast…There is Still a Role for GWAS, Heart Rhythm Society Scientific Sessions, San Francisco, CA

2016 Plenary lecture entitled, Making Functional Sense of GWAS Data, Gordon Conference on Cardiac Regulatory Mechanisms, New Lebanon, NH

2016 Atrial Fibrillation: Is it in the Genes?, STOP AFib.org Annual Atrial Fibrillation Patient Conference, Dallas, TX

2016 Translating the Genetics of Atrial Fibrillation, Lecture in a course entitled "Genetic Epidemiology and Functional Genomics for Investigators: Applied Learning Workshop" hosted by the Framingham Heart Study & Boston University School of Medicine, Boston, Massachusetts

2016 Functional Genomics & Epidemiology Mid-Career Research Award and Lecture: Translating the Genetics of AF: From Associations to Mechanisms American Heart Association Scientific Sessions, New Orleans, Louisiana

2016 What Have We Learned From GWAS in Atrial Fibrillation?, American Heart Association Scientific Sessions, New Orleans, Louisiana

2016 Tips for Grant Writers, American Heart Association Scientific Sessions, New Orleans, Louisiana

2016 Atrial Fibrillation: From Associations to Mechanisms NHLBI Trans-Omics for Precision Medicine (TOPMed) Program Meeting, Washington D.C.

2017 AF Genetics and Genome Sequencing in 2017: What Have We Learned? AF Symposium, Orlando, FL

2017 Atrial Fibrillation: From Associations to Mechanisms, Cohorts for Heart and Aging Research in Genomic Epidemiology Consortium (CHARGE) Meeting, New York, New York

2017 Genetic Basis of Atrial Fibrillation; Basic Translational Science Forum. C-BS01. Integrating Genetic Variation with Disease Mechanisms, Heart Rhythm Society Scientific Sessions, Chicago, IL

2017 Chair, C-EP09. Global Humanitarian Efforts: Pacemakers in Underserved Countries, Heart Rhythm Society Scientific Sessions, Chicago, IL

2017 Chair, C-116 - Mentoring Roundtable: One-on-One with Leaders in the Field, Heart Rhythm Society Scientific Sessions, Chicago, IL

International

2010 Genetics of Atrial Fibrillation / Lecture
Yungang Conference of Cardiology, Datong, China

2010 Genetics of Atrial Fibrillation / Lecture
Tongji University, Shanghai, China

2010 Calcium Activated Potassium Channels in Atrial Fibrillation
ENAFRA Scientific Meeting, Montreal

2011 Using Genetics to Identify Novel Pathways for Atrial Fibrillation
The Panum Institute, University of Copenhagen, Copenhagen Denmark

2011 Using Genetics to Identify Novel Pathways for Atrial Fibrillation
Denis Escande Symposium, Nantes France

2011 Genetics of Atrial Fibrillation
Heart Rhythm Congress, Birmingham, UK

2011 Genetics of Atrial Fibrillation
Taiwan Heart Rhythm Society, His-An, Taiwan

2011 Genetics of Atrial Fibrillation / Lecture
Tongji University, Shanghai, China

2012 SESSION HD-03 Arrhythmias and Heart Disease – Lessons learned from Basic Science, Chairperson, European Cardiac Arrhythmia Society, Munich, Germany

2012 Genetics of AF – Why does it matter? Lecture, European Cardiac Arrhythmia Society, Munich, Germany

2012 SK Channels and the Genetic Basis of Atrial Fibrillation, Lecture, Cardiostim 2012, Nice, France

2012 Genome wide association studies of cardiac diseases, Lecture
Korean Heart Rhythm Society, Seoul, Korea

2012 Clinical genomics of atrial fibrillation, Lecture
Korean Heart Rhythm Society, Seoul, Korea

2013 Insights from Genome Wide Association Studies into the Pathophysiology of AF, Lecture, ENAFRA Scientific Meeting, Utrecht, Netherlands

2013 Insights from Genome Wide Association Studies into the Pathophysiology of AF, Lecture, University of Copenhagen, Copenhagen, Denmark

2014 Relevance of subthreshold hits in GWAS – potential role in AF pathophysiology, Lecture, European Cardiac Arrhythmia Society, Munich, Germany

2014 Translational Mechanisms of Arrrhythmias, Session chair, European Cardiac Arrhythmia Society, Munich, Germany

2014 Lessons from GWAS and Next Generation Sequencing
Copenhagen Meeting on Cardiac Arrhythmia , Copenhagen, Denmark

2015 Adding a Third Dimension to Genomic Analysis and SNPs for AF
AF Network, Nice, France

2015 Using Genetics to Identify Novel Pathways for Atrial Fibrillation
University of Ottawa Heart Institute, Ottawa, Ontario, Canada

2015 Using Genetics to Identify Novel Pathways for Atrial Fibrillation
Libin Cardiovascular Institute, University of Calgary, Calgary, Alberta, Canada

2015 Which anticoagulants should we be using in our AF patients?, Cardiac Society of Australia & New Zealand, Melbourne, Australia

2015	Epidemiology of Atrial Fibrillation, Cardiac Society of Australia & New Zealand, Melbourne, Australia
2015	Common Genetic Variants in Atrial Fibrillation, Cardiac Society of Australia & New Zealand, Melbourne, Australia
2015	Genetics of Atrial Fibrillation, Victor Chang Cardiovascular Research Institute, Sydney, Australia
2015	Update on the Genetics of Atrial Fibrillation, Leducq AF Transatlantic Network, Amsterdam, The Netherlands
2015	How Much of AF is a Genetically Determined Disease? Europe AF meeting, London, England
2016	Deciphering the Genomic Topology of Cardiomyopathies and Arrhythmias, German Cardiac Society, Mannheim Germany
2016	Can we translate AF genetic findings using iPSC derived cardiomyocytes? Life Sciences Workshop Series, Induced Pluripotent Stem Cells: Applications and Technologies for Drug Discovery, Dusseldorf, Germany (Sponsored by Bayer).

Report of Clinical Activities and Innovations

Current Licensure and Certification

1998	Massachusetts Medical License
2000-2010	ABIM, Internal Medicine
2003-2013	ABIM, Cardiovascular Disease
2005-2015	ABIM, Clinical Cardiac Electrophysiology

Practice Activities

2001-2011	Cardiac Electrophysiology	Cardiac Arrhythmia Service, MGH	EP lab, one day per week
2001-2015	Cardiac Electrophysiology	Cardiac Arrhythmia Service, MGH	Clinic, one day per week
2015-	Cardiac Electrophysiology	Cardiac Arrhythmia Service, MGH	Clinic, two days per month

Report of Technological and Other Scientific Innovations

Methods for detecting atrial fibrillation and related conditions
USPTO Application #: #20110097710
We determined that levels of a small, neuropeptide hormone, apelin, were markedly reduced in subjects with lone atrial fibrillation; the use of apelin as a diagnostic tool for the detection of atrial fibrillation was patented.

Report of Education of Patients and Service to the Community

Activities

Year(s)	Role	Organization or institution
2003-2010	Treasurer, Lecturer for a foundation started by Dr. Brian McGovern committed to patient education and research on atrial fibrillation.	Atrial Fibrillation Foundation
2013-	Advisory Board	StopAF.org

2014-	National Spokesperson for AHA MyAFibStory campaign	American Heart Association

Educational Material for Patients and the Lay Community

2017 Radio media tour on behalf of the American Heart Association. As a spokesperson for the AHA on topics related to atrial fibrillation, I conducted a series of 28 five to ten-minute interviews at local and syndicated radio stations throughout the US to promote greater awareness about atrial fibrillation.

Report of Scholarship

Research Investigations

1. Koch WJ, Hui A, Shull GE, **Ellinor P**, Schwartz A. Characterization of cDNA clones encoding two putative isoforms of the alpha 1 subunit of the dihydropyridine-sensitive voltage-dependent calcium channel isolated from rat brain and rat aorta. *FEBS Lett*. 1989;250(2):386-8.
2. Koch WJ, **Ellinor PT**, Schwartz A. cDNA cloning of a dihydropyridine-sensitive calcium channel from rat aorta. Evidence for the existence of alternatively spliced forms. *J Biol Chem*. 1990; 265(29): 17786-91.
3. Hui A, **Ellinor PT**, Krizanova O, Wang JJ, Diebold RJ, Schwartz A. Molecular cloning of multiple subtypes of a novel rat brain isoform of the alpha 1 subunit of the voltage-dependent calcium channel. *Neuron.* 1991;7(1):35-44.
4. Cox DA, **Ellinor PT**, Kirley TL, Matlib MA. Identification of a 17-kDa protein associated with the peripheral-type benzodiazepine receptor in vascular and other smooth muscle types. *J PharmacolExpTher*. 1991;258(2):702-9.
5. Diebold RJ, Koch WJ, **Ellinor PT**, Wang JJ, Muthuchamy M, Wieczorek DF, Schwartz A. Mutually exclusive exon splicing of the cardiac calcium channel alpha 1 subunit gene generates developmentally regulated isoforms in the rat heart. *ProcNatlAcadSci U S A*. 1992;89(4):1497-501.
6. Horne WA, **Ellinor PT**, Inman I, Zhou M, Tsien RW, Schwarz TL. Molecular diversity of Ca2+ channel alpha 1 subunits from the marine ray Discopygeommata. *ProcNatlAcadSci U S A*. 1993; 90(9): 3787-91.
7. **Ellinor PT**, Zhang JF, Randall AD, Zhou M, Schwarz TL, Tsien RW, Horne WA. Functional expression of a rapidly inactivating neuronal calcium channel. *Nature*. 1993;363(6428):455-8.
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11. **Ellinor PT**, Zhang JF, Horne WA, Tsien RW. Structural determinants of the blockade of N-type calcium channels by a peptide neurotoxin. *Nature*. 1994;372(6503):272-5.
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13. Zhang JF, **Ellinor PT**, Aldrich RW, Tsien RW. Multiple structural elements in voltage-dependent Ca2+ channels support their inhibition by G proteins. *Neuron*. 1996;17(5):991-1003.
14. **Ellinor PT**, Guy ML, Ruskin JN, McGovern BA. Variability in implantable cardioverter defibrillator pulse generator longevity between manufacturers. *Pacing Clin Electrophysiol*. 2003;26(1 Pt 1):71-5.
15. **Ellinor PT**, Shin JT, Moore RK, Yoerger DM, MacRae CA. Locus for atrial fibrillation maps to chromosome 6q14-16. *Circulation*. 2003;107(23):2880-3.
16. Gerull B, Heuser A, Wichter T, Paul M, Basson CT, McDermott DA, Lerman BB, Markowitz SM, **Ellinor PT**, MacRae CA, Peters S, Grossmann KS, Drenckhahn J, Michely B, Sasse-Klaassen S, Birchmeier W, Dietz R, Breithardt G, Schulze-Bahr E, Thierfelder L. Mutations in the desmosomal protein plakophilin-2 are common in arrhythmogenic right ventricular cardiomyopathy. *Nat Genet*. 2004;36(11):1162-4.
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22. Ho IC, Passeri JJ, Guy ML, Ruskin JN, **Ellinor PT**. Impact of the multicenter automatic defibrillator implantation trial on clinical practice. *Ann Noninvasive Electrocardiol*. 2006;11(1):20-7.
23. **Ellinor PT**, Low AF, Macrae CA. Reduced apelin levels in lone atrial fibrillation. *Eur Heart J*. 2006;27(2):222-6.
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galectin-3, and apelin for the evaluation of patients with acute heart failure. *J Am Coll Cardiol*. 2006;48(6):1217-24.

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Clinical Communications

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2. Marill KA, Wolfram S, Desouza IS, Nishijima DK, Kay D, Setnik GS, Stair TO, **Ellinor PT**. The use of adenosine in patients with wide complex supraventricular tachycardias. Crit Care Med. 2010 Mar;38(3):1017. PMID: 20168182
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Thesis

1. **Ellinor, PT**. Structural and Functional Studies of Voltage Dependent Calcium Channels. Stanford, CA: Stanford University;1996.

Narrative Report

Area of Excellence: Investigation

The primary objective of my research work has been to attempt to elucidate the mechanism of heritable arrhythmias using techniques ranging from human molecular genetics to cellular electrophysiology. After medical school and graduate school, I completed training at MGH in cardiology and cardiac electrophysiology. Although my role has evolved over the years, I now spend 20% of my time in patient care and administrative activities and 80% in research.

After completion of my clinical training, I established the MGH AF Study which currently consists of over 1800 individuals and family members with early-onset atrial fibrillation. We have used this cohort to identify novel biomarkers, mutations, and genetic loci associated with atrial fibrillation. As an extension of work initiated at MGH, I founded the AFGen Consortium, an international group of investigators studying the genetics of atrial fibrillation. The Consortium currently consists of over 50 studies throughout the US, Europe, and Asia all of which have detailed phenotypic patient data on atrial fibrillation integrated with genomic datasets. In a series of papers in *Nature Genetics, Circulation,* and *JACC* from 2009 to 2017, we have described the majority of the known genetic loci for atrial fibrillation. We currently have many other ongoing projects in the Consortium including the analyses of large-scale, whole genome sequencing data.

Over the last six years, I have had a close collaboration with Dr. Emelia Benjamin, a senior investigator at the Framingham Heart Study, on the epidemiology and genetics of atrial fibrillation. This collaboration has provided a unique opportunity for fellows to be able to undertake a wide-range of projects, to experience different types of investigation ranging from epidemiology to basic science, and to be jointly mentored by investigators with complementary skills.

My laboratory in the Cardiovascular Research Center at MGH focuses on trying to identify the underlying molecular mechanisms by which common genetic variants for atrial fibrillation lead to the arrhythmia. We are currently using a combination of cell lines, zebrafish and mouse model systems to delineate the function of the atrial fibrillation genes identified by genome wide association studies. Over the last year, the analytic portion of my lab has moved to the Broad Institute to enable us to take advantage of the rich genetic resources and the highly collaborative environment available within the Institute.

My research work on atrial fibrillation has served as the foundation for four RO1 awards, an R21 award, and a K24 award from the NIH as well as an AHA Established Investigator Award. Last year, I was fortunate to receive support from the Fondation Leducq to fund a transatlantic research network focused on the genomics of atrial fibrillation. In 2014, we also received a supplement to an ongoing RO1 award to enable a large genome sequencing project for early-onset atrial fibrillation; in 2016, this project was further extended to allow for whole genome sequencing of an additional 6,000 individuals.

Contributions in Teaching and Education

Since my arrival to MGH in 1998, I have had a longstanding commitment to the education of medical students, clinical fellows, postdoctoral research fellows and graduate students. The primary focus of my teaching was directed at the education of medical residents on the Cardiac Step Down Unit at MGH. I served as the Medical Director of the Unit for thirteen years and during that time, I organized a daily lecture for the residents designed to provide a comprehensive didactic education for common cardiac conditions. Typical lectures by the faculty included talks on acute coronary syndromes, pacemaker function, management of atrial fibrillation, and recognition and treatment of supraventricular and ventricular arrhythmias. During this time, I also gave a monthly opening lecture on Step Down Unit Emergencies for the medical house staff team. For the Clinical Cardiac Electrophysiological Training Program at MGH, I have participated in the training of more than 25 clinical fellows since joining the faculty in 2001.

In the research setting, I have mentored more than a dozen postdoctoral research fellows and students. The vast majority of the postdoctoral fellows have been supported by independent grant funding from the Heart Rhythm Society, European Union, and the German Research Foundation among others. One prior trainee is an Associate Professor, and four are Assistant Professors at academic medical centers throughout the US and Europe.

Significant Supporting Activity (Clinical Expertise)
I remain an active member of the Cardiac Arrhythmia Service at MGH and I see patients in clinic every other Monday. For ten years, I also performed procedures in the electrophysiology laboratory one day a week. Given my research interests, I am often consulted to see patients with lone or isolated atrial fibrillation. Similarly, I have also initially developed a practice focused on the management of arrhythmia genetic syndromes. To extend these efforts beyond electrophysiology and to complement our research, I helped to found the Cardiovascular Genetics Program at MGH.

As my research activities increased, I was able to secure funding from an NIH K24 mid-career mentoring award. I therefore reduced my clinical time in the electrophysiology laboratory to focus on mentoring the postdocs and fellows in my research laboratory. Fortunately, this K24 award was recently renewed for another five years. For thirteen years, I served as the Medical Director of the Cardiac Step Down Unit. In March 2016, I became the Director of the Cardiac Arrhythmia Service at MGH.

Outside of MGH, I have been actively involved in the American Heart Association having served continuously on a committee since 2003. For four years, I served on the AHA Committee for Scientific Session Planning and I helped to plan session on genetics and cardiac electrophysiology. Three years ago, I joined the Scientific Planning Committee for the Heart Rhythm Society and I oversee the basic science sessions for the Society. I regularly lecture nationally and internationally, and in 2013 I was inducted into the American Society for Clinical Investigation.