

Sumeet S. Chugh MD, FACC, FHRS, FAHA
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CURRICULUM VITAE

BRIEF BIOSKETCH

Dr. Chugh is the Pauline and Harold Price Professor of Cardiac Electrophysiology, Director of the Heart Rhythm Center and Associate Director of the Heart Institute at Cedars-Sinai Los Angeles; and Professor of Medicine-in-Residence at the David Geffen School of Medicine at UCLA. He received his medical education at Punjabi University in India followed by an internship in internal medicine at the Tufts Newton-Wellesley Hospital program in Massachusetts and residency at Hennepin County Medical Center in Minneapolis. He trained as a fellow in cardiology at the University of Minnesota, and fellow in clinical cardiac electrophysiology at the Mayo Clinic, Rochester, MN. Dr. Chugh joined the faculty at Oregon Health and Science University, Portland, Oregon in 1999 and was appointed section chief of Clinical Electrophysiology in 2006. In 2008, he was recruited to the Cedars-Sinai Medical Center in Los Angeles as Associate Director of the Heart Institute. As Director of the Heart Rhythm Center at the Cedars-Sinai Heart Institute, he leads a clinical, teaching, and research operation that involves over 80 personnel, including 12 FTEs in clinical cardiac electrophysiology.

His scientific career has been dedicated to understanding the etiology and mechanisms of sudden cardiac death in the community, with the goal of improving management and prevention. For this purpose, he founded a real-time population cohort in an entire community of one million (The Oregon Sudden Unexpected Death Study, Oregon SUDS), bringing together all regional hospitals, the emergency medical system and the medical examiner to build a unique database of phenotyped patients linked to a biobank. Ongoing since 2002, this approach has helped to set the standard for population science approaches to sudden death. In 2015, he expanded the Oregon study to include a new population cohort of 850,000 in Ventura County, California under the PRESTO (PREdiction of Sudden death in mulTi-ethnic cOMmunities) umbrella that will allow for race and ethnicity-specific evaluation of sudden death risk predictors. The mechanisms, as well as, clinical, plasma, and genomic biomarkers his team continues to identify are being explored as tools to enhance management and prevention of sudden cardiac death.

He has been recognized by elected membership in the American Society for Clinical Investigation, elected membership the Association of University Cardiologists (current Secretary-Treasurer), the Howard Morgan Award for distinguished achievements in cardiovascular research, the Simon Dack Award, Associate Editorship of IJC Heart & Vessels, Section Editorship of the JACC and other national and international scientific and leadership responsibilities. Today, his population science laboratory at the Cedars-Sinai Heart Institute in Los Angeles continues to mentor and collaborate with researchers who have an interest in investigation of sudden cardiac death. Dr. Chugh has led an independent and continuously funded research program since 2001 (R01 mechanism since 2007, currently two R01 grants) and has >200 scientific publications (including 133 original scientific papers, 31 review papers, 19 editorials, 8 letters, 6 book chapters) and more than 225 scientific abstracts in the fields of cardiac electrophysiology and sudden cardiac death. He is a frequent lecturer on sudden death and arrhythmia-related topics and has accepted more than 280 national, international and regional invited speaking engagements.

PRESENT APPOINTMENT

Pauline and Harold Price Endowed Chair in Cardiac Electrophysiology
Associate Director of the Heart Institute
Section Chief, Clinical Cardiac Electrophysiology
Director, Heart Rhythm Center
Professor of Medicine at Cedars-Sinai
Cedars-Sinai Medical Center, Los Angeles, CA, USA
Professor of Medicine-In-Residence, David Geffen School of Medicine at
UCLA, Los Angeles, CA, USA

Office Address: The Heart Institute
Cedars-Sinai Medical Center
Advanced Health Sciences Pavilion Suite 3100
127 South San Vicente Blvd
Los Angeles CA 90048
(310) 423-3300

Education: POST-GRADUATE TRAINING

*July 1 1997 to
June 30 1999* Fellow, Clinical Cardiac Electrophysiology
Mayo Clinic, Rochester, MN

*July 1 1994 to
June 30 1997* Fellow, Cardiology
University of Minnesota, Minneapolis, MN

*July 1 1992 to
June 30 1994* PGY-2,3 Resident (Internal Medicine)
Hennepin County Medical Center, Minneapolis, MN

*July 1, 1991 to
June 30, 1992* PGY-1 Resident (Internal Medicine)
Newton Wellesley Hospital, Tufts University, Boston, MA

*July 1, 1989 to
June 30, 1991* Research Associate
Tufts New England Medical Center, Boston, MA

UNDERGRADUATE TRAINING

*July 1983 to
Dec 1988* Medical School,
Government Medical College, Patiala, Punjab, India
Honors, graduated 3rd in class of 150

*July 1981 to
June 1983* Premedical Studies
D.A.V. College, Chandigarh, India

Licensure: California Medical License, 2009-
Washington Medical License 2008
Oregon Medical License 1999-
Minnesota Medical License 1993-
DEA Certificate 1993-

Board Certification:

- American Board of Internal Medicine (Diplomate in Internal Medicine) 1993-2003
- American Board of Internal Medicine (Diplomate in Cardiovascular Disease) 1999 (valid 2019)
- American Board of Internal Medicine (Added Qualifications in Clinical Cardiac Electrophysiology) 2000 (valid 2020)

Professional Experience:

ACADEMIC APPOINTMENTS

2017-	Professor of Medicine-in-Residence Step V, David Geffen School of Medicine at UCLA
2014-2017	Professor of Medicine-in-Residence Step IV, David Geffen School of Medicine at UCLA
2011-2014	Professor of Medicine-in-Residence Step III, David Geffen School of Medicine at UCLA
2010-	Professor of Human Genetics, Medical Genetics Institute, Cedars-Sinai Medical Center
2009-	Pauline and Harold Price Chair in Cardiac Electrophysiology
2009-	Professor of Medicine, Cedars-Sinai Professorial Series
2009-	Professor of Emergency Medicine (Affiliate), Oregon Health & Science University
2008-	Associate Director of the Heart Institute, Cedars-Sinai Medical Center
2008-2011	Professor of Medicine-in-Residence Step I, David Geffen School of Medicine at UCLA
2008-	Section Chief, Clinical Cardiac Electrophysiology, Cedars-Sinai Medical Center
2008-	Program Director, Fellowship Training Program in Clinical Cardiac Electrophysiology, Cedars-Sinai Medical Center
2006-2008	Section Chief, Clinical Cardiac Electrophysiology, Oregon Health & Science University
2006-2008	Director, Cardiac Arrhythmia Center, Oregon Health & Science University
2003-2008	Associate Professor of Medicine, Oregon Health & Science University
2007-2008	Associate Professor of Anesthesiology & Perioperative Medicine
2008-2009	Associate Professor of Emergency Medicine, Oregon Health & Science University
2002-2008	Director, Fellowship Training Program, Clinical Cardiac Electrophysiology, Oregon Health & Science University
2001-2006	Director, Heart Rhythm Research Laboratory, Oregon Health & Science University
2005-2008	Graduate Faculty, School of Medicine, Oregon Health & Science University
1999-2003	Assistant Professor of Medicine, Oregon Health & Science University

Leadership and Program Development:

Oregon Health & Science University, Portland OR: In 2002 Dr. Chugh founded (and continues to lead) The Oregon Sudden Unexpected Death Study (Oregon SUDS). This population-based effort studies the entire population of the Portland Oregon metro area, comprising approximately one million residents. Besides Dr. Chugh's core scientific team, the research group involves 16 hospitals, a network of medical examiners, and all fire and ambulance crews in the Portland area. This effort has been productive, leading to over 50 published peer-reviewed papers and over \$15 million in academic funding (including unbroken NIH R01 mechanism grants since 2007). As Section Chief, Clinical Electrophysiology (2006-08), he established the first clinical outreach in electrophysiology in a secondary service area with enhancement of clinical EP volume at the University by approximately 30% per year.

Cedars-Sinai Medical Center, Los Angeles CA: As the first Associate Director of the Heart Institute to be appointed, Dr. Chugh worked with the Director to grow and expand the clinical, teaching, and academic programs. Since 2008, the Heart Institute has approximately doubled in size with total staff and personnel that exceed 600. As Director of the Heart Rhythm Center, Dr. Chugh leads a staff of >80, which includes clinical electrophysiologists (12 FTE, both academic and private practice colleagues), clinical/research trainees, allied health providers, and researchers. This is a busy clinical practice that has at least doubled in size since Dr. Chugh took over. As an example, in FY 2016, >4000 interventional EP procedures were performed by the extended group. On the scientific front, as of 2015, he has expanded the Oregon study to include a new population cohort of 850,000 in Ventura County, California under the PRESTO (PREdiction of Sudden death in mulTi-ethnic cOMmunities) umbrella that will allow for race and ethnicity-specific evaluation of sudden death risk predictors.

Professional Activities:

COMMITTEE RESPONSIBILITIES (NATIONAL LEVEL)

2017-2021	Permanent Member, Clinical and Integrative Cardiovascular Sciences [CICS] Study Section, Center for Scientific Review, National Institutes of Health
2016-	Member (Ad hoc), Cancer, Heart, and Sleep Epidemiology Study Section [CHSA], Center for Scientific Review, National Institutes of Health
2016-	Member (Ad hoc), Clinical and Integrative Cardiovascular Sciences Study Section [CICS], Center for Scientific Review, National Institutes of Health
2016-	Member, Observational Safety and Monitoring Board, Lifestyle and Exercise in Hypertrophic Cardiomyopathy/Lifestyle and Exercise in the Long QT Syndrome Study funded by NHLBI
2016	Invited expert, NHLBI Prevention of Sudden Cardiac Death Workshop
2016-	Appointed Council Member, Association of University Cardiologists
2016-	Member, Heart Rhythm Society, Quality Initiatives Task Force

2015- Member, Young Investigator Awards Subcommittee, Heart Rhythm Society

2014- Member, Advisory Committee, National Registry for Sudden Death in the Young

2014- Member, North American Council, International Academy of Cardiovascular Sciences

2013- Phase 1 reviewer, 2013 NIH Director's New Innovator Award Program (ZRG1 MOSS-C)

2008-2012 Charter Member, Electrical Signaling, Ion Transport, and Arrhythmias Study Section (ESTA), Center for Scientific Review, National Institutes of Health

2008-2009 Member, American Heart Association Peer Review committee for Electrophysiology Research (National)

2010- Member, American Heart Association Peer Review committee for Genomics and Observational Epidemiology (National)

2009- ACC/AHA Electrophysiology Data Standards Update Writing Committee

2008-2009 Member, Steering Committee, NHLBI-Heart Rhythm Society Working Group on Prediction and Prevention of Sudden Cardiac Death

2008 Reviewer (Ad hoc), Cardiovascular and Sleep Epidemiology Study Section (CASE), Center for Scientific Review, National Institutes of Health

2007 Reviewer (Ad hoc), Special Emphasis Panel, Vascular Cell and Molecular Biology Study Section (VCMB), Center For Scientific Review, National Institutes of Health

2007-2008 Reviewer (Ad hoc), Electrical Signaling, Ion Transport, and Arrhythmias Study Section (ESTA), Center for Scientific Review, National Institutes of Health

2007 Reviewer (Ad hoc), Bioengineering, Technology and Surgical Sciences Study Section (BTSS), Center for Scientific Review, National Institutes of Health

2007-2009 Chair, National Clinical Research and Training Committee, Heart Rhythm Society

2007-2009 Member, National Sudden Cardiac Arrest 360 Task Force, Heart Rhythm Society

2006-2009 Member, National ICD Registry, Research and Publications Subcommittee

- 2006-2007 Member, Scientific Advisory Board, International Academy of Cardiology
- 2006 Reviewer (Ad hoc), Special Emphasis Panel (ZRG1 CVS D-90) National Heart Lung Blood Institute
- 2005-2007 Chair, Nominating Committee, Functional Genomics Interdisciplinary Working Group, American Heart Association
- 2005-2007 Membership and Communications Committee, Working Group on Functional Genomics and Translational Biology, American Heart Association
- 2005-2006 Vice-Chair, National Clinical Research and Training Committee, Heart Rhythm Society
- 2005-2006 Chair, Fellowship Sub-committee, Heart Rhythm Society
- 2005-2006 Member, Legislative Task Force on Sudden Cardiac Arrest, Heart Rhythm Society
- 2004 National Strategic Planning Task Force, Heart Rhythm Society

INTERNATIONAL COMMITTEES / LEADERSHIP

- 2008- Chair, Arrhythmia Expert Panel, World Health Organization Global Burden of Disease Project
- 2012- Member, Scientific Advisory Board, Asia-Pacific Heart Rhythm Society Annual Scientific Sessions
- 2013- Reviewer, Singapore National Medical Research Council Translational and Clinical Research Flagship Program
- 2014- Member, Scientific Advisory Board, European Cardiac Arrhythmia Society Scientific Sessions
- 2014- Member, Scientific Program Development Committee, CardioRhythm Sessions, Hong Kong

EDITORIAL RESPONSIBILITIES

Section Editor (Rhythm Disorders)

- 2014- Journal of the American College of Cardiology

Associate Editor (Heart Rhythm Disorders)

- 2013- International Journal of Cardiology, Heart & Vessels

Chapter Coordinator

2016 European Society of Cardiology Textbook of Cardiovascular Medicine

Guest Editor

2013-

Circulation

2014-

Journal of the American College of Cardiology

Guest Editor (ad hoc)

- Heart Rhythm Journal

Member, Editorial Boards:

2017- Circulation: Arrhythmia and Electrophysiology
2013-2016 Arrhythmia Grand Rounds: Patient-Based
2012- International Journal of Cardiology: Heart and Great Vessels
2012-2016 Experimental & Clinical Cardiology
2011- Journal of the American College of Cardiology
2011-2016 Journal of Cardiac Failure
2010- Circulation
2010- Heart Rhythm Journal
2010-2017 Journal of Interventional Cardiac Electrophysiology
2005-2010 Journal of Cardiovascular Pharmacology and Therapeutics

Reviewer:

- Circulation
- Circulation: Arrhythmia and Electrophysiology
- Circulation: Cardiovascular Quality and Outcomes
- Circulation Research
- Diabetes Research and Clinical Practice
- Journal of the American College of Cardiology
- European Heart Journal
- Cardiovascular Research
- International Journal of Cardiology
- The American Journal of Cardiology
- Journal of Cardiovascular Electrophysiology
- Pacing and Clinical Electrophysiology
- Experimental and Molecular Pathology
- Resuscitation
- Critical Care Medicine
- Expert Opinion on Pharmacotherapy
- Heart
- Mayo Clinic Proceedings
- Arteriosclerosis, Thrombosis, and Vascular Biology
- The Lancet
- Hypertension
- The New England Journal of Medicine

Abstract Grader:

- American Heart Association Annual Scientific Sessions: Human Genetics of Cardiovascular Disease and Therapy (FGTB) 2005-present.
- Heart Rhythm Society Annual Scientific Sessions 2007-present
- American College of Cardiology Annual Scientific Sessions

PROFESSIONAL ORGANIZATIONS

- Fellow, Heart Rhythm Society
- Fellow, American College of Cardiology
- Fellow, American Heart Association
- Fellow, International Academy of Cardiovascular Sciences
- Member, Association of University Cardiologists
- Member, Western Association of Physicians
- Mayo Alumni Association
- Honorary Member, Korean Society of Cardiology

LOCAL ADMINISTRATIVE/TEACHING RESPONSIBILITIES

1999-	Teaching Faculty, undergraduate core curriculum, Introduction to Cardiac Electrophysiology
2002-	Director, Fellowship Training Program, Clinical Cardiac Electrophysiology, Oregon Health & Science University
2001-2006	Director, Heart Rhythm Research Laboratory, Oregon Health & Science University
2005-	Graduate Faculty, School of Medicine, Oregon Health & Science University
2006-	Section Chief, Clinical Electrophysiology, Cardiovascular Medicine, Oregon Health and Science University
2006-	Director, Cardiac Arrhythmia Center, Cardiovascular Medicine, Oregon Health and Science University
2007-	Member, Promotion and Tenure Committee, Department of Medicine, Oregon Health and Science University
Nov 2008-	Associate Director of the Heart Institute (Genomic Cardiology), Cedars-Sinai Heart Institute
Nov 2008-	Section Chief, Clinical Cardiac Electrophysiology, Division of Cardiology
Nov 2008-	Program Director, Fellowship Training Program in Clinical Cardiac Electrophysiology, Cardiology Division, Cedars-Sinai Medical Center
Dec 2008-	Member, Physician Advisory Committee for the Electronic Medical Record, Cedars-Sinai Medical Center

2012-	Chair, Clinical Database Repository and Bioinformatics Committee, Cedars-Sinai Heart Institute
Feb 2012-2016	Member, Information Sciences Committee, Cedars-Sinai Health System
2012-2015	Member, Clinical Programs Growth Initiative Advisory Committee, Cedars-Sinai Health System
2013	Member, Search Committee for Director, Medical Genetics Research Institute, Cedars-Sinai Health System
2014-present	Director, Clinical Cardiogenetics program, Cedars-Sinai Heart Institute
2014-present	Member, Executive Committee, Department of Biomedical Sciences, Cedars-Sinai Medical Center
2016-	Faculty Oversight Committee for the Biobank, Cedars-Sinai Health System

HONORS AND SPECIAL AWARDS

- Leonard N. Horowitz, MD Memorial Lecture, 25th Annual State-of-the-Art Arrhythmia Symposium, Philadelphia, Pennsylvania, September 9, 2017
- Key Note Speaker, Sudden Cardiac Death International Congress 2017, Prague, Czech Republic, March 30, 2017
- Elected to Leadership Council, Association of University Cardiologists, 2016
- Elected Member, American Society for Clinical Investigation, 2015
- Simon Dack Award for Outstanding Scholarship, from the Journal of the American College of Cardiology, 2014
- Elite Reviewer, Journal of the American College of Cardiology for the Year 2013
- Howard Morgan Award for Distinguished Achievements in Cardiovascular Research, from the International Academy of Cardiovascular Sciences, Aug 15, 2013
- Fellow, International Academy of Cardiovascular Sciences 2012
- Elected Member, Association of University Cardiologists 2012
- Elite Reviewer, Journal of the American College of Cardiology 2011
- Elite Reviewer, Journal of the American College of Cardiology 2010
- 2007-08 Excellence in Teaching Award, School of Medicine, Oregon Health and Science University, Portland OR

- 2005 Annual Heart Research Center Award for Excellence in Research, Oregon Health and Science University, Portland OR
- Reynolds Visiting Professor, The Johns Hopkins University, Division of Cardiology, Jan 2004
- Doris Duke Innovation in Clinical Research Award 2001
- New Investigator Award, American Heart Association 2001 (for “*Molecular Basis of Atrial Arrhythmia Following Myocardial Infarction*”)
- STEP Award, American Association for the Advancement of Science 1990, New Orleans LA

EXAMINING PROFESSOR

- PhD Defense at the University of Adelaide, February 2015, Candidate Dr. Christopher Wong
- PhD Defense at the University of Amsterdam, May 2015, Candidate Dr. Abdenasser Bardai

RESEARCH GRANTS

Current

- R01 HL126938, PI – Chugh 1/1/16 – 11/30/19
NIH NHLBI
Total Costs: \$2,513,288
Sudden Cardiac Death with Preserved Left Ventricular Ejection Fraction
This study will evaluate mechanisms of sudden cardiac arrest in patients with preserved left ventricular systolic function.
- R01 HL122492, PI – Chugh 11/14/14 – 11/13/18
NIH NHLBI
Total Costs: \$2,357,464
Sudden Cardiac Death in Middle Age
This study is a population-based translational approach to identify novel mechanisms of ventricular arrhythmogenesis in middle-aged residents of a large community.

Completed

- R01 HL105170, PI – Chugh 7/1/10 – 3/31/15
NIH NHLBI
Total Costs: \$1,660,000
Prolonged Ventricular Depolarization and Sudden Death in the Community
This project focuses on mechanisms and clinical utility of prolonged ventricular depolarization as a predictor of sudden cardiac death in the general population.

- R01 HL088416, PI – Chugh 7/13/07 – 4/31/12
 Total Costs: \$2,075,000
 Determinants of Sudden Death Risk with Left Ventricular Hypertrophy
 This study was a population-based translational approach to identifying mechanisms of fatal arrhythmia among subjects with left ventricular hypertrophy.
- R01 HL088416-03S1, PI – Chugh 7/15/09 – 6/30/11
 Total Costs: \$406,250
 Administrative Supplement for Determinants of Sudden Death Risk with Left Ventricular Hypertrophy
- Co-investigator (10%) – Chugh 7/2007 – 7/2010
 Reynolds Foundation Center of Excellence in Heart Disease at the Johns Hopkins University
 Total Costs: \$150,000
 Genomic Determinants of Sudden Cardiac Death
- HL04001, Co-Investigator (5%) – Chugh, PI – Jerris Hedges, MD 7/1/04 – 6/30/09
 National Heart, Lung, and Blood Institute
 Total Costs: \$2,998,698
 Emergency Prehospital Investigative Consortium (EPIC)
- Co-investigator (20%) – Chugh 7/2003 – 7/2007
 Reynolds Foundation Center of Excellence in Heart Disease at the Johns Hopkins University
 Total Costs: \$24,000,000 (\$1,500,000)
 Genomic Determinants of Sudden Cardiac Death
- Fellowship Award 2004 – 2007
 North American Society of Pacing and Electrophysiology, Advanced Training Clinical
 Total Costs: \$150,000
 Clinical Cardiac EP Training Program at Oregon Health & Science University
- Project TS 0660, PI (20%) – Chugh 2001 – 2004
 US Centers for Disease Control and Prevention
 Total Costs: \$838,442
 Mechanisms of Unexplained Sudden Cardiac Death: A Population-Based Cohort Study in Multnomah County, Oregon
- Doris Duke Innovation in Clinical Research Award 2001 – 2004
 Doris Duke Charitable Foundation
 Total Costs: \$200,000
 Mechanisms of Unexplained Sudden Cardiac Death: A Prospective, Population-based Investigation
- Grant-in-Aid 2001 – 2003
 American Heart Association
 Total Costs: \$80,000
 Mechanisms of Unexplained Sudden Cardiac Death: Clinical, Pathologic and Genetic Analysis of Archived Hearts from a 13-year Autopsy Series

- Collins Medical Trust 2000 – 2001
Total Costs: \$25,000
Genetic Mechanisms of Cardiac Arrhythmia in Heart Failure: Gene Expression Profiling in the Rat Model of Myocardial Infarction
- Minneapolis Medical Research Foundation 4/1994 – 5/1994
National Heart and Lung Institute, London, United Kingdom
Total Costs: \$5,000
Alterations in Chemoreceptor Function in Heart Failure

RESEARCH GRANTS/AWARDS TO TRAINEES (Dr. Chugh as Primary Mentor)

- National Institutes of Health K-12 Scholar Award (NHLBI; \$390,000, 2013-2017) to Eric C. Stecker, MD for “*Influence of pre-existing cardiovascular disease on response to cardiac arrest resuscitation (The Oregon Sudden Unexpected Death Study).*”
- 2012 National Center Research Program Scientist Development Grant (American Heart Association; \$308,000, 2013-2017) to Adriana Huertas-Vazquez, PhD for “*Evaluation of Three Genetic Loci Associated with Sudden Cardiac Death.*”
- 2012 Western States Affiliate Beginning Grant-in-Aid (American Heart Association; \$140,000, 2013-2015) to Adriana Huertas-Vazquez, PhD for “*Fine Mapping and Gene Network Analysis of Selected Sudden Cardiac Death Loci.*” (Declined)
- 2017 Paul Rubenstein, MD Prize for Excellence in Resident Research to Yang Yang, MD for “*Novel Measure of Autonomic Remodeling Associated with Sudden Cardiac Arrest in Diabetes.*”
- 2016 Paul Rubenstein, MD Prize for Excellence in Resident Research to Navid Darouian, MD for “*Delayed Intrinsicoid Deflection of the QRS Complex is Associated with Sudden Cardiac Arrest.*”
- 2014 James Willerson Award for Excellence in Post-Doctoral Research (International Academy of Cardiovascular Sciences) to Kumar Narayanan, MD for “*QRS Fragmentation Predicts Increased Risk of Sudden Cardiac Death.*”
- 2011 AHA-Phillips Resuscitation Fellowship Award (American Heart Association Post-Doctoral Grant; \$103,000, 2011-2013) to Carmen Teodorescu, MD PhD for “*Risk Factors of Pulseless Electrical Activity.*”
- 2008 Heart Research Trainee of the Year, Oregon Health and Science University, Portland OR to Stacey Clegg, MD for “*Gender Differences and Sudden Cardiac Death in the General Population: Is There Equal Opportunity for Prevention?*”
- 2005 American College of Cardiology Young Investigator Award to Eric Stecker, MD for “*The Large Majority of Sudden Cardiac Death Cases Do Not Have Severe Left Ventricular Dysfunction: Prospective Evaluation of Alternative Risk Predictors in a Two-Year, Community-Based Study.*”

- American Heart Association Post-Doctoral Fellowship Award (2003-2005) to Eric Stecker, MD for “*Phenotype-Genotype Correlations in Sudden Death with Coronary Artery Disease.*”
- 2004 American Heart Association New Investigator Award to Benjamin John, MD for “*Distinctive Remodeling of Myocardial Interstitium but No Connexin 43 Alterations in LVH Associated with Sudden Cardiac Death.*”
- Fourjay Foundation (\$50,000; 2003-04) to Benjamin John, MD (Fellow, Cardiovascular Medicine, Oregon Health & Science University) for “*Contributions of the Cardiac Interstitium to Fatal Arrhythmogenesis in Patients with Isolated Left Ventricular Hypertrophy and Sudden Cardiac Death.*”
- National Institutes of Health Summer Scholarship (*May-Aug 2002*) to Nasreen Ilias, second year medical student, Oregon Health & Science University.
- American Heart Association Medical Student Research Grant (*May-Aug 2002*) to Nasreen Ilias, second year medical student, Oregon Health & Science University.
- National Institutes of Health Summer Scholarship (*May-Aug 2002*) to Richard Shih, second year medical student, Oregon Health & Science University.

TRAINING GRANTS

Faculty mentor, NIH T32 grant, Cedars-Sinai Heart Institute Training Program in Advanced Heart Disease Research

SYMPOSIA ORGANIZED

Arrhythmia Symposium at the Cedars-Sinai Heart Institute (Organized and chaired, Dec 2009, Dec 2010, Dec 2012, Dec 2014, Dec 2016).

INVITED LECTURES AND CHAIRED SESSIONS

National/International

1. Invited Faculty Speaker, Cardiology Grand Rounds, University of Texas, Houston, Texas, January 1999. (Consequences of Ventricular Electrical Remodeling in Heart Failure)
2. Invited Faculty Speaker, University of Utah, Cardiology Division, Salt Lake City, Utah, February 1999. (Consequences of Ventricular Electrical Remodeling in Heart Failure)
3. Invited Faculty Speaker, New Mexico Heart Institute, Cardiology Division, Albuquerque, New Mexico, February 1999. (Sudden Cardiac Death with Apparently Normal Heart)
4. Invited Faculty Speaker, Duke University, Division of Cardiac Electrophysiology, Durham North Carolina, March 1999. (Consequences of Ventricular Electrical Remodeling in Heart Failure)
5. Invited Faculty Speaker, Loyola University, Cardiology Division, Chicago Illinois, March 1999. (Sudden Cardiac Death with Apparently Normal Heart)

6. Invited Faculty Speaker, Post Graduate Institute for Medical Education and Research, Chandigarh, India, February 2001. (Sudden Cardiac Death – Population to Bedside to Bench)
7. Invited Faculty Speaker, All India Institute of Medical Sciences, New Delhi, India, February 2001. (Mechanisms of Sudden Cardiac Death)
8. Invited Faculty Speaker, Cardiology Grand Rounds, University of Arkansas Medical Sciences, Little Rock, Arkansas, January 25, 2002. (Proximal Mechanisms of Fatal Arrhythmia)
9. Invited Faculty Speaker, North American Society of Pacing and Electrophysiology (NASPE) 23rd Scientific Sessions, San Diego, California, May 9, 2002. (Current Understanding of the Genetic Epidemiology of the Acquired Long QT Syndrome)
10. Invited Faculty Speaker, US Centers for Disease Control & Prevention, Cardiovascular Health Branch, Atlanta, Georgia, June 3, 2002. (Seminar - A Translational Approach to Sudden Cardiac Death: The Genetic Connection)
11. Invited Faculty Speaker, Cardiology Grand Rounds, University of Texas, Houston, Texas, October 17, 2002. (Sudden Cardiac Death in the Genetic Age: Implications for the Clinical Approach)
12. Invited Faculty Speaker, XII World Congress of Cardiac Pacing and Electrophysiology, Hong Kong, February 19-22, 2003. (Acquired long QT and pre-prescription genotyping)
13. Invited Faculty Speaker, American College of Cardiology Annual Scientific Sessions, Chicago, March 30 - April 2, 2003. (Who Should the Practicing Cardiologist Refer for EP Consultation?)
14. Invited Faculty Speaker, North American Society of Pacing and Electrophysiology (NASPE) 24th Scientific Sessions, Washington, DC, May 14-17, 2003. (Management of the ICD Patient)
15. Invited Faculty Speaker, Functional Genomics in Heart Failure, Herz Zentrum Gottingen, Georg-August-Universität Göttingen, Germany, June 26-28, 2003. (Population-Based Analysis of Unexplained Sudden Death)
16. Reynolds Center Visiting Professor and Speaker, Grand Rounds, The Johns Hopkins University, Division of Cardiology, January 7, 2004. (Unexplained Sudden Cardiac Death- Scope of the Problem and Pursuit of Concealed Etiologies)
17. Invited Seminar Speaker, Cedars Sinai Medical Center, Division of Cardiology, Los Angeles, California, March 17, 2004.
18. Invited Faculty Speaker, Cardiology Grand Rounds, New England Medical Center, Cardiology Division, Tufts University, Boston, Massachusetts, April 16, 2004.
19. Invited Faculty Speaker, American Medical Athletic Association, 33rd Annual Sports Medicine Symposium at Boston, Massachusetts, April 17-18, 2004. (Sudden Cardiac Death with an Apparently Healthy Heart)
20. Session Chair, NASPE/Heart Rhythm Society Annual Scientific Sessions, San Francisco, California, May 21, 2004. (Risk Stratification in Genetic Disorders)
21. Session Chair, NASPE/Heart Rhythm Society Annual Scientific Sessions, San Francisco California, May 21, 2004. (Clinical Electrophysiology V: Genetics of Arrhythmias)
22. Invited Faculty Speaker, Featured Symposium - Celebrating the Past, Shaping the Future, Sudden Cardiac Death: An Evolving Paradigm, NASPE/Heart Rhythm Society Annual Scientific Sessions, San Francisco, California, May 21, 2004. (The Epidemiology of SCD: Scope of the Problem)

23. Invited Faculty Speaker, American College of Cardiology Combined International Symposium on Congenital Heart Disease in the Adult, Skamania, Washington, June 6-9, 2004. (Utility of Resynchronization Therapy in Heart Failure)
24. Invited Faculty Speaker, 14th World Congress on Cardiac Electrophysiology and Cardiac Techniques (CARDIOSTIM), Nice, France, June 16-19, 2004. (Epidemiology and Risk Stratification of Sudden Cardiac Death: Role of Genetic Screening)
25. Invited Faculty Speaker, Second National CDC Prevention Conference on Heart Disease and Stroke, Atlanta, Georgia, August 17-20, 2004. (Current Burden of Sudden Cardiac Arrest in the Community)
26. Invited Faculty Speaker, Circulation Research Symposium: The Fundamental Biology of Cardiac Arrhythmias, American Heart Association Annual Scientific Sessions, New Orleans, Louisiana, November 7-10, 2004. (Genomics of Sudden Cardiac Death)
27. Invited Faculty Speaker, International Summit on Coronary Artery Disease and Cardiovascular Interventions, Mumbai, India, February 19, 2005. (Sudden Cardiac Arrest and the Human Genome – Unlocking the Secrets of Biology’s Storehouse)
28. Invited Faculty Speaker, International Summit on Coronary Artery Disease and Cardiovascular Interventions, Mumbai, India, February 20, 2005. (Clinical Selection of the ICD Candidate- Can we look beyond the ejection fraction?)
29. Session Co-Chair, Rama K. Bernstein Program for Fellows, Heart Rhythm Society Annual Scientific Sessions, May 4, 2005. (Sudden Academic Arrest: Resuscitate or Abandon?)
30. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, May 7, 2005. (Genetic Screening in Sudden Death)
31. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, May 7, 2005. (Long QT Syndrome- What we know and what we are learning)
32. Invited Faculty Speaker, Cardiology Grand Rounds, SUNY at Stony Brook, Division of Cardiology, Stony Brook, New York, June 13, 2005. (Novel Predictors of Sudden Cardiac Death)
33. Invited Faculty Speaker, Cardiology Grand Rounds, Mayo Clinic, Division of Cardiology, Rochester, Minnesota, August 26, 2005. (Novel Predictors of Sudden Cardiac Death in the General Population)
34. Invited Faculty Speaker, The Great Wall of China International Cardiology Symposium, Beijing, China, November 3-6, 2005. (Clinical Selection of the ICD Candidate- Can we look beyond the ejection fraction?)
35. Invited Faculty Speaker, UCLA, Division of Cardiology, Los Angeles, California, November 30, 2005. (Predicting the Perfect Storm: Determinants of Sudden Cardiac Arrest in the General Population)
36. Invited Faculty Speaker, Cardiology Grand Rounds, UCI, Irvine, California, December 1, 2005. (Predicting the Perfect Storm: Determinants of Sudden Cardiac Arrest in the General Population)
37. Invited Faculty Speaker, Cardiology Grand Rounds, Mount Sinai Medical Center, Division of Cardiology, New York, New York, December 6, 2005. (Predicting the Perfect Storm: Determinants of Sudden Cardiac Arrest in the General Population)
38. Invited Faculty Speaker, Cardiology Grand Rounds, St Lukes-Roosevelt Hospital Center, Division of Cardiology, New York, New York, December 7, 2005. (Predicting the Perfect Storm: Determinants of Sudden Cardiac Arrest in the General Population)

39. Invited Faculty Speaker, Harborview Medical Center Citywide Resuscitation Research Rounds, University of Washington, Seattle, Washington, February 21, 2006. (Predicting the Perfect Storm: Determinants of Sudden Cardiac Arrest in the General Population)
40. Invited Faculty Speaker, Christian Medical College, Department of Anesthesiology, Ludhiana, Panjab, India, March 6, 2006. (Management of Intra-Operative and Post-Operative Cardiac Arrhythmias)
41. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, Boston, Massachusetts, May 18-20, 2006. (Sudden Death in Young Adults)
42. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, Boston, Massachusetts, May 18-20, 2006. (Mutations in Cardiomyopathies: What Are the Clinical Implications?)
43. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, Boston, Massachusetts, May 18-20, 2006. (Chronic Resynchronization Therapy: An Update)
44. Invited Faculty Speaker, 15th World Congress on Cardiac Electrophysiology and Cardiac Techniques (CARDIOSTIM), Nice, France, June 14-17, 2006; (Molecular abnormalities in unexplained sudden death)
45. Invited Faculty Speaker, US-Wide Race Directors Conference, the Portland Marathon, Portland, Oregon, September 29, 2006. (Sudden Cardiac Arrest in Marathon Runners)
46. Invited Faculty Speaker, University of Minnesota, Division of Cardiology, Minneapolis, Minnesota, December 15, 2006. (A Perfect Storm: Determinants of Sudden Cardiac Death in the General Population)
47. Invited Faculty Speaker, Medical Grand Rounds, Hennepin County Medical Center, Minneapolis, Minnesota, March 8, 2007.
48. Invited Faculty Speaker, American College of Cardiology Annual Scientific Sessions, March 26, 2007. (Sudden Cardiac Death Symposium- Autopsy Negative Sudden Death)
49. Invited Faculty Speaker, The Great Wall of China International Cardiology Symposium, Beijing, China, October 10-13, 2007.
50. Invited Faculty Speaker, Cardiology Grand Rounds, University of Texas at Houston, October 25, 2007.
51. Invited Faculty Speaker, Cardiology Grand Rounds, Northwestern University, Feinberg School of Medicine, Chicago, November 16, 2007.
52. Invited Faculty Speaker, Keynote Address for the Second Annual Heart Disease and Stroke Educational Conference, Partnership for a Heart Healthy and Stroke Free Massachusetts, Marlboro, Massachusetts, January 25, 2008. (Community Approaches to Reducing Out of Hospital Deaths)
53. Invited Faculty Speaker, Cardiology Grand Rounds, Evergreen Health Care, Kirkland, Washington, April 18, 2008.
54. Invited Faculty Speaker, Cardiology Grand Rounds, Cedars-Sinai Medical Center, Division of Cardiology, Los Angeles, California, April 24, 2008.
55. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, Denver, Colorado, May 2008. (Ablation of Focal Tachycardia in the Right Atrium)
56. Session Co-Chair, Stem Cell and Gene Therapy for Cardiac Conditions, Cardiovascular Diseases in the Elderly, CARDIOSTIM, Nice, France, June 19, 2008.

57. Invited Faculty Speaker, Stem Cell and Gene Therapy for Cardiac Conditions, Cardiovascular Diseases in the Elderly, CARDIOSTIM, Nice, France, June 19, 2008. (Sudden Cardiac Death and Population Genetics: Evidences and Promises)
58. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, Boston, Massachusetts, May 13-16, 2009. (RF ablation of focal atrial tachycardia)
59. Session Chair, Heart Rhythm Society Annual Scientific Sessions, Boston, Massachusetts, May 13-16, 2009. (VT/VF Summit Update: Sudden Cardiac Arrest - Epidemiology and Early Management)
60. Invited Faculty Speaker, Cardiology Grand Rounds, UCSD, Cardiology Division, San Diego, California, September 9, 2009.
61. Invited Faculty Speaker, Medical Grand Rounds, UCSD, Department of Medicine, San Diego, California, September 9, 2009.
62. Invited Faculty Speaker, Cardiology Grand Rounds, University of Pittsburgh, Cardiology Division, Pittsburgh, Pennsylvania, December 1, 2009.
63. Invited Faculty Speaker, Cardiology Grand Rounds, Case Western Reserve University, Metro-Health Medical Center, Cardiology Division, Cleveland, Ohio, December 2, 2009.
64. Invited Faculty Speaker, Medicine Grand Rounds, Case Western Reserve University, Metro-Health Medical Center, Department of Medicine, Cleveland, Ohio, December 3, 2009.
65. Session Co-Chair, Heart Rhythm Society Annual Scientific Sessions, Denver, Colorado, May 2010. (Cardiac Resynchronization Therapy)
66. Session Chair, Heart Rhythm Society Annual Scientific Sessions, Denver, Colorado, May 2010. (Annual CCEP Program Directors Meeting)
67. Visiting Professor and Invited Faculty Speaker, Grand Rounds, Korea University, Cardiovascular Center, Seoul, Korea, June 16, 2010. (Novel predictors of sudden cardiac death in the general population)
68. Invited Faculty Speaker, Atrial Fibrillation Research Summit, Washington, DC, June 11-13, 2010. (Global burden of atrial fibrillation)
69. Visiting Professor and Invited Faculty Speaker, Grand Rounds, Fuwai Hospital, National Cardiovascular Center, Beijing, China, June 18, 2010. (Novel predictors of sudden cardiac death in the general population)
70. Invited Faculty Speaker, World Heart Federation Annual Sessions, Beijing, China, June 17-19, 2010. (Nature Cardiovascular Reviews Symposium – Early Detection of Risk Factors for Sudden Cardiac Death)
71. Invited Faculty Speaker, World Heart Federation Annual Sessions, Beijing, China, June 17-19, 2010. (Global Burden of Sudden Cardiac Death)
72. Invited Faculty Speaker, World Heart Federation Annual Sessions, Beijing, China, June 17-19, 2010. (Global Burden of Atrial Fibrillation)
73. Session Co-Chair, American Heart Association Annual Scientific Sessions, Chicago, Illinois, November 14-16, 2010. (Genetics of sudden death)
74. Invited Faculty Speaker, American Heart Association Annual Scientific Sessions, Chicago, Illinois, November 14-16, 2010. (Genetics of sudden death in coronary artery disease)
75. Visiting Professor and Invited Faculty Speaker, Grand Rounds, University of Leicester, Cardiovascular Department, Leicester, United Kingdom, January 9, 2011. (Sudden death in the general population)

76. Visiting Professor and Invited Faculty Speaker, Grand Rounds, University of Cape Town, Hatter Cardiovascular Research Institute, Faculty of Health Sciences, Cape Town, South Africa, January 12, 2011. (Genomics of sudden death)
77. Visiting Professor and Invited Faculty Speaker, Grand Rounds, Department of Medicine at Groote Schuur Hospital and the University of Cape Town, January 13, 2011. (Sudden death in the general population)
78. Visiting Professor and Invited Faculty Speaker, Grand Rounds, Tel Aviv University, Sheba Medical Center, Department of Cardiology, Tel Aviv, Israel; Israeli Electrophysiology Society, Tel Aviv Israel, Mar 3, 2011. (Sudden Death with Structurally Normal Heart; Arrhythmias and the Genomic Revolution; Sudden Death in the General Population- Can We Predict and Prevent?)
79. Session Chair, Heart Rhythm Society Annual Scientific Sessions, San Francisco, California, May 2011. (Annual CCEP Program Directors Meeting)
80. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, San Diego, California, May 2011. (Utility of the Electrocardiogram in Risk Stratification)
81. Visiting Professor and Invited Faculty Speaker, University of Tokyo, Department of Cardiology, Tokyo, Japan, September 20, 2011. (Genomics of Sudden Cardiac Death)
82. Invited Faculty Speaker, Sudden Cardiac Death Symposium, Asia-Pacific Heart Rhythm Society, Fukuoka, Japan, September 22, 2011. (Clinical and Genetic Epidemiology of SCD: One Decade of the Ore-SUDS)
83. Visiting Professor and Invited Faculty Speaker, Fortis Hospital, Mohali, Panjab, India, December 19, 2011. (Sudden Cardiac Death: New Insights and Opportunities)
84. Invited Faculty Speaker, American College of Cardiology Annual Scientific Sessions, Chicago, Illinois, March 26, 2012. (Genetics of Sudden Death in the General Population)
85. Invited Faculty Speaker, American College of Cardiology Annual Scientific Sessions, Chicago, Illinois, March 26, 2012. (Assessment of LV Function for Sudden Death Risk Stratification in Heart Failure)
86. Visiting Professor and Invited Faculty Speaker, New York University, Langone Medical Center, Division of Cardiology, New York, New York, April 13, 2012. (Prediction of Sudden Cardiac Death in the Community: One Decade of the Oregon Sudden Unexpected Death Study)
87. Invited Faculty Speaker, World Congress of Cardiology Annual Scientific Sessions, Dubai, United Arab Emirates, April 17, 2012. (Epidemiology of Sudden Cardiac Death)
88. Session Co-Chair, European Cardiac Arrhythmia Society Annual Scientific Sessions, Munich, Germany, April 20, 2012. (Genetics of Inherited Arrhythmia Syndromes)
89. Invited Faculty Speaker, European Cardiac Arrhythmia Society Annual Scientific Sessions, Munich, Germany, April 20, 2012. (Genetics of Sudden Cardiac Death)
90. Invited Faculty Speaker, Stanford Biodesign New Arrhythmia Technologies Retreat, Boston, Massachusetts, May 17, 2012. (Mechanisms of Sudden Death)
91. Chair, Heart Rhythm Society, Boston, Massachusetts, May 9-12, 2012.
92. Invited Faculty Speaker, Heart Rhythm Society, Boston, Massachusetts, May 9-12, 2012. (Mechanisms of Sudden Death Not Related to VT or VF)
93. Visiting Professor and Invited Faculty Speaker, Grand Rounds, INSERM University of Paris, Paris Cardiovascular Research Center, Paris, France, June 12, 2012. (Sudden Death in the Population: New Risk Factors)

94. Invited Faculty Speaker, CARDIOSTIM Annual Scientific Sessions, Nice, France, June 13-14, 2012. (Genomics of Out-of-Hospital Sudden Cardiac Arrest)
95. Co-Chair, American College of Cardiology Tutorial on Atrial Fibrillation, Sao Paulo, Brazil, August 4, 2012.
96. Invited Faculty Speaker, American College of Cardiology Tutorial on Atrial Fibrillation, Sao Paulo, Brazil, August 4, 2012. (Non-Pharmacologic Therapy)
97. Invited Faculty Speaker, American College of Cardiology Tutorial on Atrial Fibrillation, Sao Paulo, Brazil, August 4, 2012. (Anti-thrombotic therapy – Risk of Bleeding)
98. Invited Faculty Speaker, Conference and Advanced Research Workshop “Sudden Cardiac Death & Cardioprotection”, "Victor Babes" University of Medicine & Pharmacy, Timisoara, Romania, September 6-8, 2012. (Population Genomics of Sudden Cardiac Death)
99. Invited Faculty Speaker, Pathway to Sudden Cardiac Death Risk Stratification, Schiller Park, Illinois, September 12, 2012. (Population based risk stratification/ out-of-hospital cardiac arrest –VF and non VF)
100. Invited Faculty Speaker, Cardiology Grand Rounds, UCSD, San Diego, California, January 18, 2013. (Personalized Medicine for the Cardiac Patient: Are We There Yet?)
101. Invited Faculty Speaker, Sudden Cardiac Arrest in Children & Adolescents: Current Controversies, Anaheim, California, January 25, 2013. (Sudden Cardiac Arrest in the Young: Lessons from Community-Based Studies)
102. Moderator, American Heart Association Annual Scientific Sessions, Los Angeles, California, November 3-6, 2012. (Abstract Oral Session - Ventricular Arrhythmias: Innovations and Inherited Syndromes)
103. Invited Faculty Speaker, 2013 Gordon Research Conference, Cardiac Arrhythmia Mechanisms, Ventura, California, February 17-22, 2013. (Clinical Genomics of Sudden Cardiac Death)
104. Visiting Professor and Invited Faculty Speaker, Shanghai Jiao Tong University School of Public Health, Shanghai, China, Mar 3-6, 2013. (Workshop and visiting professor lecture)
105. Invited Faculty Speaker, American College of Cardiology Scientific Sessions, San Francisco, California, March 11, 2013. (Predicting SCD: Role of Imaging)
106. Visiting Professor and Invited Faculty Speaker, Electrophysiology Grand Rounds, Duke University School of Medicine, Durham, North Carolina, March 21-22, 2013. (Sudden Cardiac Death in the General Population)
107. Invited Faculty Speaker, European Cardiac Arrhythmia Society Annual Scientific Sessions, Paris, France, April 13-16, 2013. (Pulseless activity versus ventricular fibrillation: determining factors)
108. Invited Faculty Speaker, Stanford Biodesign New Arrhythmia Technologies Retreat, Denver, Colorado, May 7, 2013. (Mechanisms of Sudden Death)
109. Session Chair, Heart Rhythm Society Annual Scientific Sessions, Denver, Colorado, May 2013. (Sudden Cardiac Arrest: State of the Art 2013)
110. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, Denver, Colorado, May 2013. (Sudden Cardiac Death Not Due to Ventricular Arrhythmias)
111. Invited Faculty Speaker, The National Space Biomedical Research Institute Cardiovascular Team Symposium, Houston, Texas, May 20, 2013. (Clinical and Genetic Markers of Sudden Cardiac Death)

112. Invited Faculty Speaker, Advances in Cardiovascular Research: From the Bench to the Bedside, Bratislava, Slovakia, May 23-26, 2013. (Clinical Genomics of Sudden Cardiac Death)
113. Co-Chair, Advances in Cardiovascular Research: From the Bench to the Bedside, Bratislava, Slovakia, May 23-26, 2013. (Drug Therapy and New Approaches to Management of Cardiovascular Diseases)
114. Invited Faculty Speaker, Annual Cardiovascular Forum of the International Academy of Cardiovascular Sciences, University of Louisville, Kentucky August 15-16, 2013. (Clinical Genomics of Sudden Cardiac Death)
115. Session Co-Chair, Asia Pacific Heart Rhythm Society Annual Sessions, Hong Kong, October 3, 2013. (Global Burden and Stand against Out-Of-Hospital Sudden Cardiac Death)
116. Invited Faculty Speaker, Asia Pacific Heart Rhythm Society Annual Sessions, Hong Kong, October 3, 2013. (Sudden Cardiac Death: North American Experience and Lessons from the Oregon Sudden Death Study)
117. Session Chair, Asia Pacific Heart Rhythm Society Annual Sessions, Hong Kong, October 4, 2013. (Clinical Case-Based Focus Session on Sudden Cardiac Death)
118. Invited Faculty Speaker, Asia Pacific Heart Rhythm Society Annual Sessions, Hong Kong, October 4, 2013. (Reduction of Sudden Cardiac Death in Hypertrophic Cardiomyopathy)
119. Invited Faculty Speaker, American Heart Association Annual Scientific Sessions, November 18, 2013. (Sudden Cardiac Death: State of the Science - Genetics of sudden death of non-inherited arrhythmia syndromes)
120. Invited Faculty Speaker, American Heart Association Annual Scientific Sessions, November 19, 2013. (CVS.415 - Ventricular Fibrillation: From Bench to Bedside - Sudden Cardiac Death: Predictable?)
121. Visiting Professor and Invited Faculty Speaker, Grand Rounds, CARE Group Hospitals Cardiovascular Institute, Hyderabad, India, December 28, 2013. (Sudden Cardiac Death - Challenges and Opportunities)
122. Visiting Professor and Invited Faculty Speaker, CARE Group Hospitals Cardiovascular Institute, Hyderabad, India, December 28, 2013. (Sudden Death in Hypertrophic Cardiomyopathy: Clinical Approach to Prevention and Management)
123. Session Chair, European Cardiac Arrhythmia Society Annual Scientific Sessions, Munich, Germany, March 23-25, 2014. (Sudden Cardiac Death: Risk Factors, Epidemiology, and prevention)
124. Invited Faculty Speaker, European Cardiac Arrhythmia Society Annual Scientific Sessions, Munich, Germany, March 23-25, 2014. (Genetics of sudden cardiac death and the role of molecular autopsy)
125. Invited Faculty Speaker, Heart Rhythm Society Annual Scientific Sessions, San Francisco, California, May 2013. (Sudden Cardiac Death not due to Ventricular Arrhythmias)
126. Invited Faculty Speaker, World Congress of Cardiology Scientific Sessions, Melbourne, Australia, May 5, 2014. (The Global Burden of Atrial Fibrillation: What we know and future directions)
127. Invited Faculty Speaker, Heart Rhythm Society – 35th Annual Scientific Sessions, San Francisco, California, May 8, 2014. (Observational Population Research)
128. Invited Faculty Speaker, Heart Rhythm Society – 35th Annual Scientific Sessions, San Francisco, California, May 8, 2014. (The Role of Sleep Apnea Diagnosis and Treatment in the Preventions of Atrial Fibrillation)

129. Session Chair, Cardiostim Scientific Sessions, Nice, France June 18-20, 2014. (Management of Arrhythmias in the Elderly)
130. Invited Faculty Speaker, 2nd Cardiovascular Forum for Promoting Centers of Excellence and Young Investigators, Winnipeg, Manitoba, Canada, September 5, 2014. (Thematic Symposium: Sudden Cardiac Death and Arrhythmias)
131. Session Co-Chair, 2nd Cardiovascular Forum for Promoting Centers of Excellence and Young Investigators, Winnipeg, Manitoba, Canada, September 5, 2014. (Genetics of Sudden Cardiac Death and Role of the Molecular Autopsy)
132. Invited Faculty Speaker, Medicine Grand Rounds, Brown University, Rhode Island Hospital, Cardiovascular Institute, Providence, Rhode Island, September 30, 2014. (Prediction of Sudden Death in the General Population)
133. Invited Faculty Speaker, International Academy for Cardiovascular Sciences, 2014 European Section Meeting, Balatongorok, Hungary, October 8, 2014. (Sudden Cardiac Death in the Middle-aged Athlete)
134. Invited Faculty Speaker, The 7th Asia-Pacific Heart Rhythm Scientific Session, New Delhi, India, October 30, 2014. (Burden of AF)
135. Session Chair, The 7th Asia-Pacific Heart Rhythm Scientific Session, New Delhi, India, November 1, 2014. (Primary Prevention of SCD in Asia)
136. Session Chair and Moderator, American Heart Association Annual Scientific Sessions, Chicago, Illinois, November 17, 2014. (Atrial Fibrillation Epidemic: Clinical and Research Implications at a Global Level)
137. Poster Professor, Abstract Poster Session, American Heart Association Annual Scientific Sessions, Chicago, Illinois, November 18, 2014. (Sudden Cardiac Death: Arrhythmia: Clinical Electrophysiology, Diagnosis and Risk Stratification)
138. Invited Faculty Speaker, American Heart Association Annual Scientific Sessions, Chicago, Illinois, November 19, 2014. (Community Based Studies on Sudden Death)
139. Invited Faculty Speaker, CardioRhythm, Hong Kong, January 30, 2015. (Approach to Genetic Testing for Heritable Arrhythmias: How to...: Optimizing the yield of genetic testing: Avoiding unnecessary testing)
140. Invited Faculty Speaker, CardioRhythm, Hong Kong, January 30, 2015. (Exercise Activity and Sudden Death Cardiac Death: Assessing risk of SCD in the older athlete)
141. Invited Faculty Speaker, CardioRhythm, Hong Kong, January 30, 2015. (How to Prevent Sudden Cardiac Death Today: Rising burden of pulseless electrical activity: Causes and implications)
142. Invited Faculty Speaker, 40th Annual Conference, International Society for Computerized Electrocardiology, San Jose, California, April 15, 2015. (Epidemiology of Sudden Cardiac Death)
143. Invited Faculty Speaker, 2015 Stanford Biodesign New Arrhythmia Technologies Retreat, Logan Airport, Boston, Massachusetts, May 12, 2015. (Mechanisms of Sudden Cardiac Arrest)
144. Invited Faculty Speaker, Heart Rhythm Society – 36th Annual Scientific Sessions, San Francisco, California, May 14, 2015. (What's New in the Epidemiology of AF: Risk Factors and Predictors of New Onset AF)
145. Session Chair, 36th Annual Scientific Sessions, Heart Rhythm Society 2015, Boston Convention & Exhibition Center, Boston, Massachusetts, May 15, 2015. (Epidemiology and Management of AF)

146. Visiting Professor and Invited Faculty Speaker, Grand Rounds, University of Amsterdam, the Academic Medical Center, Department of Cardiology, the Netherlands, May 29, 2015. (Master Class in Ongoing Cardiac Research)
147. Visiting Professor and Invited Faculty Speaker, Cardiology Grand Rounds, Post Graduate Institute for Medical Education and Research, Advanced Cardiac Center, Chandigarh, India, July 4, 2015. (Sudden cardiac death in the younger vs. older athlete)
148. Invited Faculty Speaker, American Heart Association Annual Scientific Sessions, Orlando, Florida, November 9, 2015. (Community Based Studies on Sudden Death)
149. Invited Faculty Speaker, American Heart Association Annual Scientific Sessions, Orlando, Florida, November 10, 2015. (Rising Prevalence of Non-Shockable Cardiac Arrest)
150. Session Chair/Moderator, American Heart Association Annual Scientific Sessions, Orlando, Florida, November 10, 2015. (Prevention of Sudden Cardiac Death: Challenges and Opportunities)
151. Invited Faculty Speaker, APHRS Scientific Sessions 2015, Melbourne, Australia, November 21, 2015. (Sudden death prevention – CPR training and public access defibrillators)
152. Invited Faculty Speaker, APHRS Scientific Sessions 2015, Melbourne, Australia, November 21, 2015. (The growing importance of pulseless electrical activity)
153. Invited Faculty Speaker, APHRS Scientific Sessions 2015, Melbourne, Australia, November 21, 2015. (Incidence and etiology of sudden death in young and middle aged athletes)
154. Invited Faculty Speaker, APICON 2016, Hyderabad, India, January 29, 2016. (Sudden Cardiac Death: Challenges and Opportunities)
155. Plenary Speaker, 2016 Korean Society of Cardiology Spring Scientific Sessions, Apr 15, 2016. (Strategic Approaches to Minimize Sudden Cardiac Death in Our Society)
156. Invited Faculty Speaker, 2016 Korean Society of Cardiology Spring Scientific Sessions, April 15, 2016. (Management of Atrial Arrhythmia Detected in HF-CIED)
157. Invited Faculty Speaker, 2016 Stanford Biodesign New Arrhythmia Technologies Retreat, Stanford University, May 3, 2016. (Mechanisms of Sudden Cardiac Arrest)
158. Invited Faculty Speaker, 2016 Stanford Biodesign New Arrhythmia Technologies Retreat, Stanford University, May 3, 2016. (Mechanisms of Sudden Cardiac Arrest in the Young)
159. Session Chair, The Science Behind the Sudden Death Investigation, Heart Rhythm Society – 37th Annual Scientific Sessions, San Francisco, CA, May 4, 2016.
160. Visiting Professor and Invited Faculty Speaker, Cardiology Grand Rounds, Virginia Commonwealth University, Richmond, Virginia, May 26, 2016. (Prevention of Sudden Death in Coronary Disease: Progress and Pitfalls)
161. Visiting Professor and Invited Faculty Speaker, Electrophysiology Grand Rounds, Virginia Commonwealth University, Richmond, Virginia, May 26, 2016. (Ventricular Arrhythmias in Younger Vs. Older Athletes)
162. Invited Faculty Speaker, World Congress of Cardiology and Cardiovascular Health, Mexico City, Mexico, June 5, 2016. (Global Burden of Atrial Fibrillation in Developed and Developing Nations)
163. Invited Faculty Speaker, World Congress of Cardiology and Cardiovascular Health, Mexico City, Mexico, June 6, 2016. (Out of Hospital Cardiac Arrest)

164. Invited Faculty Speaker and Expert, Path to Improved Risk Stratification for Sudden Cardiac Death, Bethesda, Maryland, June 20, 2016. (Population risk stratification: better individual risk prediction)
165. Visiting Professor and Invited Faculty Speaker, Grand Rounds, Jacobs School of Medicine and Biomedical Sciences, University at Buffalo, Buffalo New York, September 8, 2016. (Prevention of Sudden Cardiac Death: From Vulnerable Ejection Fraction to Vulnerable Patient)
166. Invited Faculty Speaker, The 9th Asia Pacific Hearth Rhythm Society Scientific Session, Seoul, Republic of Korea, October 13, 2016. (Warning Symptoms Before Sudden Cardiac Arrest: Clinical Significance)
167. Young Investigator Award Judge, The 9th Asia Pacific Hearth Rhythm Society Scientific Session, Seoul, Republic of Korea, October 13, 2016.
168. Invited Faculty Speaker, The 9th Asia Pacific Hearth Rhythm Society Scientific Session, Seoul, Republic of Korea, October 14, 2016. (Global Burden of Atrial Fibrillation: Future Perspective for Asia-Pacific)
169. Session Chair, The 9th Asia Pacific Hearth Rhythm Society Scientific Session, Seoul, Republic of Korea, October 15, 2016. (Step-Up Session)
170. Invited Faculty Speaker, Cardiology Grand Rounds, UT Southwestern Medical Center, Dallas, Texas, November 2, 2016. (Prevention of Sudden Cardiac Death: From Vulnerable Ejection Fraction to Vulnerable Patient)
171. Invited Faculty Speaker, American Heart Association Scientific Sessions 2016, New Orleans, Louisiana, November 15, 2016. (Using Novel Tests to Predict Sudden Cardiac Death)
172. Keynote Lecture, Sudden Cardiac Death International Congress 2017, Prague, Czech Republic, March 30, 2017 (Sudden Cardiac Death in 2017)
173. Co-Chair, Sudden Cardiac Death International Congress 2017, Prague, Czech Republic, March 31, 2017. (Overview on Epidemiology)
174. Co-Chair, 13th Annual Congress of the European Cardiac Arrhythmia Society, Rome, Italy, April 4, 2017. (Sudden Cardiac Death in the Young)
175. Invited Faculty Speaker, 13th Annual Congress of the European Cardiac Arrhythmia Society, Rome, Italy, April 4, 2017. (Novel Clinical Tests to Predict Sudden Cardiac Death)
176. Chair, Heart Rhythm Society Scientific Sessions 2017, Chicago, Illinois, May 10, 2017. (State of the Art Strategies to Predict and Prevent Sudden Cardiac Death)
177. Invited Faculty Speaker, Heart Rhythm Society Scientific Sessions 2017, Chicago, Illinois, May 11, 2017. (Echocardiography for Risk Stratification: Beyond EF)
178. Chair, Heart Rhythm Society Scientific Sessions 2017, Chicago, Illinois, May 12, 2017. (Pioneers in SCD)
179. Invited lecture, 2017 University of Minnesota Electrophysiology Seminar, Minneapolis, Minnesota, May 15, 2017. (Prevention of Sudden Cardiac Death: From the Vulnerable Ejection Fraction to the Vulnerable Patient)
180. Invited Faculty Speaker, EHRA Europace-Cardiostim 2017, June 18, 2017. (Genetics of SCD and Idiopathic VF: The Clinical Value of Molecular Autopsy and Family Screening)
181. Visiting Professor and Cardiology Grand Rounds speaker, Department of Medicine, The University of Alabama at Birmingham, Birmingham, Alabama, August 23, 2017. (Prevention of Sudden Cardiac Death: Challenges and Opportunities)

182. *Keynote Speaker (Leonard Horowitz Memorial Lecture)*, Mark E. Josephson 25th Annual State of the Art Arrhythmia Symposium, University of Pennsylvania Health System, Philadelphia, Pennsylvania, September 9, 2017.
183. *Keynote Lecture*, The 10th Asia Pacific Heart Rhythm Society Scientific Session, Yokohama, Japan, September 15, 2017. Beyond the Ejection Fraction: Novel Approaches to Sudden Cardiac Death Prediction
184. Chair, Oral Presentation Session 37. The 10th Asia Pacific Heart Rhythm Society Scientific Session, Yokohama, Japan, September 15, 2017.
185. Invited Faculty Speaker, The 10th Asia Pacific Heart Rhythm Society Scientific Session, Yokohama, Japan, September 17, 2017. Progress of Detecting Methods (Invasive, Non-Invasive, and Imaging) for High Risk Patients with SCD. (Improved Prediction of SCD Using ECG)
186. Visiting Professor and Grand Rounds speaker, Libin Cardiovascular Institute, The University of Calgary, Calgary Canada, Nov 6, 2017. (Prevention of Sudden Cardiac Death in the General Population)
187. Poster Professor, American Heart Association Scientific Sessions 2017, Sudden Cardiac Death – Epidemiology and Prevention, Anaheim, CA, November 13, 2017
188. Visiting Professor and Grand Rounds speaker, Cardiology Division, The University of Minnesota, Mpls, MN, Dec 6, 2017. (Sudden Cardiac Death: Rules of Engagement in 2018)

Regional

1. Faculty Speaker, Oregon Health & Science University, Medical Grand Rounds, September 1999. (Supraventricular Tachycardia: Does Radiofrequency Ablation Offer a Cure?)
2. Faculty Speaker, Cardiology 2000 for Nurses, Oregon Health Sciences University: Applications for Practice and Research, September 2000. (Devices: Pacemakers and Internal Cardiac Defibrillators)
3. Faculty Speaker, St. Charles Medical Center, Bend, Oregon, February 2001. (Beyond Bradycardia – New Developments in Cardiac Pacemakers)
4. Faculty Speaker, Grand Rounds, Oregon Health & Science University, Department of Molecular and Medical Genetics, March 2001. (Sudden Cardiac Death – An Investigative Approach)
5. Faculty Speaker, Continuing Medical Education Lecture, Mercy Medical Center, Roseburg, Oregon, April 2001. (Non-Pharmacologic Treatment of Arrhythmia)
6. Faculty Speaker, Oregon Health Sciences University 8th Annual Internal Medicine Review Course, April 2001. (Pacemakers – Primer and Update for Primary Care)
7. Faculty Speaker, Medical Grand Rounds, Oregon Health & Science University, July 10, 2001. (Unexplained Sudden Cardiac Death)
8. Invited Faculty Speaker, NIH Human Investigations Program (K-30), Oregon Health & Science University, January 7, 2002. (Basis, Initiation and Conduct of a Clinical Research Project: Lessons from Sudden Death Research)
9. Invited Faculty Speaker, Oregon Health & Science University Annual Family Practice Review Course, February 2001. (Fundamentals of Electrocardiography)
10. Invited Faculty Speaker, The Salishan Conference, Cardiology Update for the Primary Care Physician, October 4-6, 2002. (Biventricular Pacing: Is improvement on a 6-minute walk test worth the effort?)

11. Invited Faculty Speaker, The Salishan Conference, Cardiology Update for the Primary Care Physician, Oct 4-6, 2002. (Prevention of Sudden Cardiac Death in Heart Failure: Is Documentation of Arrhythmias necessary?)
12. Honorary Chairman, Heart Research Center Annual Scientist Retreat, Oregon Health & Science University, November 2, 2002.
13. Faculty Speaker, Oregon Health & Science University Annual Family Practice Review Course, February 14, 2003. (Update on Ventricular Pacing)
14. Faculty Speaker, Oregon Health & Science University 10th Annual Internal Medicine Review Course, April 17, 2003. (Cardiology Update 2003)
15. Invited Faculty Speaker, Oregon College of Emergency Physicians Winter Conference, Sunriver, Oregon, February 1-4, 2004. (Cardiac Devices: A Practical Approach to Pacemakers & Defibrillators)
16. Faculty Speaker, Oregon Health & Science University Annual Family Practice Review Course, February 14, 2003. (Electrocardiography Basics)
17. Invited Faculty Speaker, The Salishan Conference, Cardiology Update for the Primary Care Physician, October 1-3, 2004. (Update on Management of Syncope; Utility of the Automatic External Defibrillator)
18. Invited Faculty Speaker, Oregon Health & Science University 12th Annual Internal Medicine Review Course, April 8, 2005. (Cardiology Update 2003)
19. Invited Faculty Speaker, 2006 Northwest Electrophysiology Society Annual Meeting, Sunriver, Oregon. (Predicting the Perfect Storm: Determinants of Sudden Cardiac Arrest in the General Population).
20. Faculty Speaker, Medical Grand Rounds, Oregon Health and Science University, Portland Oregon, October 24, 2006. (Sudden Death in the Young Athlete: Preventable or Destined to Happen?)
21. Faculty Speaker, Oregon Health & Science University Annual Family Practice Review Course, February 13, 2007. (Update on Management of Atrial Fibrillation)
22. Invited Faculty Speaker, Oregon American College of Cardiology Chapter Meeting, February 28, 2007. (The Oregon Sudden Unexpected Death Study: Lessons Learned and Promises to Keep)
23. Invited Faculty Speaker, 13th Cardiovascular Conference in the Cascades, Bend, Oregon, August 2007. (Bangs, Bucks and Prevention of Sudden Cardiac Death: Can We Do Better?)
24. Invited Faculty Speaker, Cardiology Update, St. John Medical Center, Longview, Washington, October 20, 2007. (Management of Atrial Fibrillation)
25. Invited Faculty Speaker, Grand Rounds, Cardiovascular Institute of the Cascades, Bend, Oregon, February 18, 2008. (Sudden Death in the Young Athlete: Preventable or Destined to Happen?)
26. Invited Faculty Speaker, Kaiser Permanente Center for Health Research Seminar, Portland, Oregon, April 9, 2008. (Lessons from a population: The Oregon Sudden Unexpected Death Study)
27. Invited Faculty Speaker, Controversies and Advances in the Treatment of Cardiovascular Diseases, Beverly Hills, California, September 4-5, 2008. Organized by Cedars-Sinai Medical Center, Los Angeles, California. (1. Sudden Death Treatment Debate: ICD Costs Outweigh Modest Benefits 2. Atrial Fibrillation Debate– Medical management is the treatment of choice for the majority of patients)

28. Invited Faculty Speaker, Cardiovascular Update for Primary Care – 2008, Yuba City, California, September 26-27, 2008. (Hypertrophic Cardiomyopathy and Sudden Death in the Young Athlete)
29. Invited Faculty Speaker, The Second Annual Dysrhythmias Symposium, San Antonio, Texas, December 5-6, 2008. Organized by the Division of Cardiology, Texas A&M University. (How to Approach a Patient with Palpitations?) and (Non-invasive Studies for Risk Stratification - Cardiac Substrates and Functions)
30. Invited Faculty Speaker, The Oklahoma Chapter American College of Cardiology Annual Scientific Meeting, Oklahoma City, Oklahoma, April 18, 2009. (Sudden Cardiac Death in Coronary Disease — Who Is Most Susceptible?)
31. Session Chair, Electrophysiology Program, Controversies and Advances in the Treatment of Cardiovascular Diseases, Beverly Hills California, October 1-2, 2009.
32. Invited Faculty Speaker, Lakewood Regional Medical Center, Lakewood, California, February 5, 2009. (Cardiac Electrophysiology Update)
33. Invited Faculty Speaker, University of Southern California Heart Failure Symposium, Los Angeles, California, January 30, 2010. (Implantable Defibrillators in Patients with Heart Failure: Have They Stood the Test of Time?)
34. Invited Faculty Speaker, Los Angeles County Coroner Weekly Seminar, Los Angeles, California, February 4, 2010. (Autopsy Negative Sudden Death: Implications for the Pathologist and Electrophysiologist)
35. Invited Faculty Speaker, Northwest Electrophysiology Society Annual Meeting, Bend, Oregon March 5-7, 2010. (Sudden Cardiac Arrest in the Community: Who is Susceptible?)
36. Faculty Speaker, Cedars-Sinai Medical Center Heart Institute Grand Rounds, April 13, 2010.
37. Faculty Speaker, Cedars-Sinai Medical Center Heart Institute Grand Rounds, June 29, 2010. (Acute management of the arrhythmia while minimizing risk of stroke – what is the evidence?)
38. Faculty Speaker, Cedars-Sinai Medical Center Medical Grand Rounds, September 17, 2010.
39. Invited Faculty Speaker, Primed Symposium, Anaheim, California, May 5, 2010. (Atrial fibrillation- magnitude and susceptibility)
40. Invited Faculty Speaker, Kaiser Permanente 12th Annual Cardiovascular Medicine and Surgery (COAST) Conference, San Francisco, California, September 24-26, 2010. (Epidemiology of atrial fibrillation; sudden cardiac arrest)
41. Invited Faculty Speaker, Medicine Grand Rounds, Harbor-UCLA Medical Center, November 30, 2010. (Sudden cardiac arrest: mechanisms and management)
42. Invited Faculty Speaker, Cardiology Grand Rounds, Harbor-UCLA Medical Center, November 30, 2010. (Susceptibility to sudden death in the general population)
43. Invited Faculty Speaker, Women and Ischemic Heart Disease Symposium, Los Angeles, California, April 29, 2011. (SCD in Women: Prediction, Prevention, and Treatment)
44. Faculty Speaker, Cedars-Sinai Optimal Care and New Therapies for Advanced Heart Disease Symposium, Bakersfield, California, May 21, 2011. (Cardiac Resynchronization, ICD's, and Device Monitoring for Heart Failure)
45. Invited Faculty Speaker, San Diego Electrophysiology and Pacing Society Meeting, June 2, 2011. (Sudden Cardiac Death and Ventricular Arrhythmias—An Epidemiologic Perspective)
46. Invited Faculty Speaker, Sharp Memorial Hospital, San Diego, California, June 3, 2011. (Young Athletes and Sudden Death—Should We Screen or Let Them Be?)

47. Invited Faculty Speaker, The California Heart Rhythm Symposium, San Diego, California, September 3, 2011. (Genomic Factors/ Inheritability of SCA)
48. Session Chair, The California Heart Rhythm Symposium, San Diego, California, September 3, 2011. (Ablation of VT/VF)
49. Invited Faculty Speaker, Cedars-Sinai Optimal Care and New therapies for Advanced Heart Disease Symposium, Newport Beach, California, September 17, 2011. (Cardiac Resynchronization, ICD's, and Device Monitoring for Heart Failure)
50. Invited Faculty Speaker, Mercy Heart & Vascular Institute 21st Annual Symposium 2011 Concepts & Controversies, Sacramento, California, October 8, 2011. (Sudden Death in the General Population: Can We Predict and Prevent?)
51. Faculty Speaker, Cedars-Sinai Optimal Care and New therapies for Advanced Heart Disease Symposium, Las Vegas, Nevada, October 22, 2011. (Cardiac Resynchronization, ICD's, and Device Monitoring for Heart Failure)
52. Invited Faculty Speaker, Cardiology Grand Rounds, CA Pacific Medical Center, San Francisco, California, March 7, 2012. (Susceptibility to Sudden Cardiac Death: Nature vs. Nurture)
53. Faculty Speaker, Cedars-Sinai Medical Center Medical Grand Rounds, March 23, 2012. (Sudden Cardiac Arrest: Prevention and Management)
54. Invited Faculty Speaker, Annual Kansas City Heart Rhythm Symposium, Kansas City, Kansas, August 18-19, 2012. (Protagonist: Heart Failure Patients with an EF <35% and Who Failed to Respond to Optimal Therapy Should Get a CRTD!)
55. Invited Faculty Speaker, Providence Tarzana Medical Center, Tarzana, California, September 14, 2012. (Personalized Medicine for the Cardiac Patient: Are we There Yet?)
56. Faculty Speaker, Cedars-Sinai Optimal Care and New Therapies for Advanced Heart Disease Symposium, Riverside, California, September 15, 2012. (Cardiac Resynchronization, ICD's, and Device Monitoring for Heart Failure)
57. Invited Faculty Speaker, Harbor UCLA Medical Grand Rounds, Los Angeles, California, November 20, 2012. (Personalized Medicine for the Cardiac Patient: Are We There Yet?)
58. Invited Faculty Speaker, Pacific Hospital, Long Beach, California, January 14, 2013. (Management of Atrial Fibrillation: When to Ablate, Medicate or Refrain from Either)
59. Faculty Speaker, Cedars-Sinai Medical Center Medicine Grand Rounds, October 18, 2013. (Prevention of Sudden Cardiac Death: Challenges and Opportunities)
60. Invited Faculty Speaker, Pomona Valley Hospital, Pomona, California, September 3, 2013. (Atrial Fibrillation: When to Ablate, Medicate or Refrain from Either)
61. Session Chair, Electrophysiology Program, Controversies and Advances in the Treatment of Cardiovascular Diseases, Beverly Hills, California, November 21, 2013.
62. Session Chair, Electrophysiology Program, Controversies and Advances in the Treatment of Cardiovascular Diseases, Beverly Hills, California, November 22, 2013.
63. Invited Faculty Speaker, Controversies and Advances in the Treatment of Cardiovascular Diseases, Beverly Hills, California, November 21-22, 2013. (Assessing risk of sudden death in the older athlete)
64. Invited Faculty Speaker, Mayo Clinic 2nd Annual Heart Rhythm Course: A Case-Based Approach, Scottsdale, Arizona, December 6, 2013. (Medications for Maintaining Sinus Rhythm: what do the guidelines say?)

65. Invited Faculty Speaker, Mayo Clinic 2nd Annual Heart Rhythm Course: A Case-Based Approach, Scottsdale, Arizona, December 6, 2013. (Stroke in Atrial Fibrillation - Guidelines and Practical Tips)
66. Faculty Speaker, Cedars-Sinai Heart Institute Grand Rounds, January 14, 2014. (Atrial Fibrillation Epidemic: Results & Implications of the WHO's Global Burden of AF Project)
67. Invited Faculty Speaker, Symposium on Personalized Medicine, Western Association of Physicians Annual Scientific Sessions, Carmel, California, January 23, 2014. (Personalized Medicine for The Cardiac Patient: Are We There Yet?)
68. Invited Faculty Speaker, 18th Annual Heart Failure Symposium 2014: Update on Diagnosis and Therapy, Los Angeles, California, April 5, 2014. (The expanding role of CRT- How to maximize the patient's response)
69. Invited Faculty Speaker, Cardiology Grand Rounds, University of Hawaii, Queens Hospital, Oahu, Hawaii, April 7, 2014. (Screening for Sudden Death in the Younger vs. Older Athlete)
70. Invited Faculty Speaker, Cardiology Grand Rounds, Harbor-UCLA Medical Center, Los Angeles, California, April 21, 2014. (Atrial Fibrillation Epidemic: Results and Implications of the WHO's Global Burden of AF Project)
71. Invited Faculty Speaker, 8th Annual Women and Ischemic Heart Disease Symposium, Los Angeles, California, April 25, 2014. (Genomics, Channelopathies and Cardiovascular Disease in Women)
72. Invited Faculty Speaker, 8th Annual Women and Ischemic Heart Disease Symposium, Los Angeles, California, April 25, 2014. (Cardiac Rhythm Devices in Women: Differences and Similarities)
73. Invited Faculty Speaker, Pathway to Risk Stratification Meeting, Washington, DC, April 29, 2014. (Current SCD risk stratification strategies)
74. Faculty Speaker, Cedars-Sinai Medical Center Emergency Medicine Grand Rounds, Los Angeles, California, September 11, 2014. (Management of Atrial Fibrillation: When to Ablate, Medicate, or Retrain from Either)
75. Session Chair, Session VI Electrophysiology Debate, 25th Annual Controversies and Advances in the Treatment of Cardiovascular Diseases, Beverly Hills, California, November 21, 2014.
76. Invited Faculty Speaker, 25th Annual Controversies and Advances in the Treatment of Cardiovascular Diseases, Beverly Hills, California, November 21, 2014. (Impact of the Prophylactic ICD in the Community, Low Impact, Need to Change Strategy)
77. Invited Faculty Speaker, 3rd Annual Mayo Clinic Heart Rhythm Course: A Case-Based Approach, Scottsdale, Arizona, December 6, 2014. (PVC's and Cardiomyopathy Cases)
78. Invited Faculty Speaker, 3rd Annual Mayo Clinic Heart Rhythm Course: A Case-Based Approach, Scottsdale, Arizona, December 6, 2014. (Debate: Con – VT Ablation Should be Performed Before ICD Implantation Secondary Prevention)
79. Faculty Speaker, Cedars-Sinai Heart Institute Grand Rounds, October 20, 2015. (Prevention of Sudden Cardiac Death Progress and Pitfalls)
80. Invited Faculty Speaker, Los Robles Hospital and Medical Center, Thousand Oaks, California. October 21, 2015. (Wrestling with Sudden Cardiac Arrest: It Takes a Community).
81. Invited Faculty Speaker, Newport Beach Symposium, Newport Beach, California, October 23, 2015. (Personalized Medicine for the Arrhythmia Patient – Are We There Yet?)

82. Invited Faculty Speaker, Bakersfield Heart Symposium, 2nd Annual Cardiovascular Symposium, Bakersfield, California, November 14, 2015. (Prevention of Sudden Cardiac Death)
83. Invited Faculty Speaker, Mayo Heart Rhythm Course 2015, Scottsdale, Arizona, December 5, 2015. (Sudden Death in the Young: Evaluation)
84. Invited Faculty Speaker, Mayo Heart Rhythm Course 2015, Scottsdale, Arizona, December 5, 2015. (Commotio Cordis)
85. Faculty Speaker, Cedars-Sinai Biomedical and Translational Science Seminar Series, August 31, 2016. (Mechanisms of Sudden Cardiac Death)
86. Faculty Speaker, Cedars-Sinai Heart Institute Grand Rounds, October 25, 2016. (Age, Atrial Fibrillation and the Fountain of Youth)
87. Invited Faculty Speaker, Central Cardiology Medical Clinic, 3rd Annual Cardiovascular Symposium, Bakersfield, California, November 5, 2016. (Management of Cardiac Arrhythmias)
88. Faculty Speaker, Controversies and Advances in the Treatment of Cardiovascular Disease 2016, Beverly Hills, California, November 18, 2016. (Quiet Yet Serious, Management Immediately)
89. Invited Faculty Speaker, Saint Vincent Medical Center, Los Angeles, California, January 12, 2017. (Advances in Treating Cardiac Arrhythmias)
90. Faculty Speaker, Cedars-Sinai Medical Center, Department of Internal Medicine, Grand Rounds, September 27, 2017. (Sex Differences in Cardiac Arrhythmias)

Media and the Press

ACCEL Interview – American College of Cardiology Extended Learning Audio CD

Genomics of Sudden Cardiac Death in coronary artery disease (2011 January, Volume 43, No. 01)

ACCEL Interview – American College of Cardiology Extended Learning Audio CD

Genomics of Sudden Cardiac Death (2005 July issue, CD-2)

American Heart Association National News Conference, Annual Scientific Sessions, Dallas, Nov 05
- Optimizing Location of the AED: Does Neighborhood Socioeconomic Status Matter?

Chugh SS. Community-Wide Analysis of Sudden Cardiac Death: Clinical and Research Implications. ISHNE World Wide Sudden Cardiac Death Internet Symposium, October 2006.

American Heart Association National News Conference, Annual Scientific Sessions, Dallas, Nov 2013- Warning Signs Preceding Sudden Cardiac Death in Middle Age.

Chugh S. Protein Biomarkers Identify Patients Unlikely to Benefit From Primary Prevention ICDs. PracticeUpdate website. Available at: <http://www.practiceupdate.com/journalscan/13180>. Accessed October 31, 2014.

PUBLICATIONS (Total: 198; Citations >29,500, h-index 49, December 2017)

Original Papers (Total: 134)

1. Chugh SS, Wilson RF, Amplatz K. New cusp catheters for improved visualization of ostial left main coronary artery lesions. *Journal of Vascular & Interventional Radiology* 1997; 8(5): 898-9. PMID:9314387
2. Anand IS, Liu D, Chugh SS, Prahash AJ, Gupta S, John R, Popescu F, Chandrashekar Y. Isolated Myocyte Contractile Function Is Normal in Postinfarct Remodeled Rat Heart With Systolic Dysfunction. *Circulation* 1997; 96 (11): 3974-84. PMID:9403622
3. Anand IS, Prasad BAK, Chugh SS, Rao RM, Cornfield DN, Milla CE, Singh N, Singh S, Selvamurthy W. Effects of Inhaled Nitric Oxide and Oxygen in High-Altitude Pulmonary Edema. *Circulation* 1998; 98(22): 2441-5. PMID:9832490
4. Chugh SS, Chan RC, Johnson SB, Packer DL. Catheter Tip Orientation Affects Radiofrequency Ablation Lesion Size in the Canine Left Ventricle. *Pacing Clin Electrophysiol* 1999;22(3):413-20. PMID:10192850
5. Chugh SS, Shen WK, Luria DM, Smith HC. First evidence of premature ventricular complex induced cardiomyopathy: a potentially reversible cause of heart failure. *J Cardiovasc Electrophysiol* 2000;11(3):328-9. PMID:10749356
6. Luria DM, Chugh SS, Munger TM, Friedman PA, Rea RF, Packer DL, et al. Electrophysiologic characteristics of diverse accessory pathway locations of antidromic reciprocating tachycardia. *Am J Cardiol* 2000;86(12):1333-8. PMID:11113408
7. Pierpont GL, Chugh SS, Hauck JA, Gornick CC. Endocardial activation during ventricular fibrillation in normal and failing canine hearts. *Am J Physiol Heart Circ Physiol* 2000;279(4):H1737-47. PMID:11009461
8. Chugh SS, Kelly KL, Titus JL. Sudden Cardiac Death With Apparently Normal Heart. *Circulation* 2000;102(6):649-54. PMID:10931805
9. Luria DM, Nemej J, Etheridge SP, Compton SJ, Klein RC, Chugh SS, et al. Intra-atrial conduction block along the mitral valve annulus during accessory pathway ablation: evidence for a left atrial "isthmus". *J Cardiovasc Electrophysiol* 2001;12(7):744-9. PMID:11469420
10. Luria D, Glikson M, Brady PA, Lexvold NY, Rasmussen MJ, Hodge DO, Chugh SS, et al. Predictors and mode of detection of transvenous lead malfunction in implantable defibrillators. *Am J Cardiol* 2001;87(7):901-4. PMID:11274950
11. Chugh SS, Johnson SB, Packer DL. Altered response to ibutilide in a heart failure model. *Cardiovasc Res* 2001;49(1):94-102. PMID:11121800
12. Chugh SS, Johnson SB, Packer DL. Amplified effects of d,l-sotalol in canine dilated cardiomyopathy. *Pacing Clin Electrophysiol* 2001;24(12):1783-8. PMID:11817813
13. Kammeraad J, Balaji S, Oliver R, Chugh SS, Halperin BD, Kron J, McAnulty JH. Nonautomatic focal atrial tachycardia: characterization and ablation of a poorly understood arrhythmia in 38 patients. *Pacing Clin Electrophysiol* 2003;26(3):736-42. PMID:12698675
14. Chugh SS, Whitesel S, Roberts C, Nagalla S. Genetic basis for chamber-specific ventricular phenotypes in the rat infarct model. *Cardiovasc Res* 2003; 57(2): 477-85. PMID:12566120
15. Chugh SS, Chung K, Zheng Z-J, John B, Kelly K, Titus JL. Cardiac Pathologic Findings Reveal A High Rate of Sudden Cardiac Death of Undetermined Etiology in Younger Women. *Am Heart J* 2003; 146(4): 635-9. PMID:14564316

16. Dogra V, Oliver R, Lapidus J, Balaji S, Kron J, McAnulty J, Chugh SS. Apparent Protective Effect of Increased Left Ventricular Wall Thickness in an ICD Population. *J Cardiac Failure* 2003; 9(5): 412-5. PMID:14583904
17. Chugh SS, Senashova O, Watts A, Tran PT, Zhou Z, Gong Q, Titus JL and Hayflick SJ. Postmortem Molecular Screening in Unexplained Sudden Death. *J Am Coll Cardiol* 2004; 43(9):1625-9. PMID:15120823
18. John B, Titus JL, Edwards WD, Shen W-K, Chugh SS. Global Remodeling of the Ventricular Interstitium in Idiopathic Myocardial Fibrosis and Sudden Cardiac Death. *Heart Rhythm* 2004; 1(2):141-9. PMID:15851145
19. Chugh SS, Jui J, Gunson K, Stecker EC, John BT, Thompson B, Ilias N, Vickers C, Dogra V, Daya M, Kron J, Zheng Z-J, Mensah G, McAnulty J. Current Burden of Sudden Cardiac Death: Multiple Source Surveillance Versus Retrospective Death Certificate-Based Review in a Large US Community. *J Am Coll Cardiol* 2004;44(6):1268-75. PMID:15364331
20. Raitt MH, Connor WE, Morris C, Kron J, Halperin B, Chugh SS, et al. Fish oil supplementation and risk of ventricular tachycardia and ventricular fibrillation in patients with implantable defibrillators: a randomized controlled trial. *JAMA* 2005;293(23):2884-91. PMID:15956633
21. Stecker EC, Vickers C, Waltz J, Socoteanu C, John BT, Mariani R, McAnulty JH, Gunson K, Jui J, Chugh SS. Population-based analysis of sudden cardiac death with and without left ventricular systolic dysfunction: two-year findings from the Oregon Sudden Unexpected Death Study. *J Am Coll Cardiol* 2006;47(6):1161-6. PMID:16545646
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26. Chugh SS, Socoteanu C, Reinier K, Waltz J, Jui J, Gunson K. A Community-Based Evaluation of Sudden Death Associated with Therapeutic Levels of Methadone. *Am J Med* 2008;121(1):66-71. PMID:18187075
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RESEARCH MENTEES/POST-DOCTORAL FELLOWS

1. Benjamin John, MD: 1999-2006; Resident, Internal Medicine Program, Oregon Health & Science University (Presently Staff Cardiologist, Vancouver Clinic, Vancouver, WA). Recipient, American Heart Association New Investigator Award July 2004.
2. Eric Stecker, MD: 2001-2007; Resident, Internal Medicine Program, Oregon Health & Science University (Presently Associate Professor, Cardiovascular Medicine, Oregon Health & Science University, Portland, OR). American College of Cardiology Young Investigator Award March 2005.
3. Vivek Dogra, MD: August 2001 to September 2003; Research Fellow, Cardiac Electrophysiology (Presently Director, Somnique Health, Portland OR)
4. Balaji Tamarappoo, MD, PhD: August 2002 to 2007; Presently Associate Medical Director, Biomedical Imaging Research Institute, S. Mark Taper Foundation Imaging Center and Cardiologist, Cedars-Sinai Heart Institute, Los Angeles, CA.
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7. Stacey Clegg MD, 2008, Trainee, Oregon Health and Science University, Portland OR, (Presently Assistant Professor at University of New Mexico Cardiac Catheterization Center, Albuquerque, NM.
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15. Eloi Marijon, MD, PhD: November 2012 – June 2014 (Visiting Faculty Scientist), Associate Professor at Paris Descartes University, Associate Professor in Electrophysiology at European Georges Pompidou Hospital Paris Cardiology, Paris, France.
16. Lin Zhang MD: Oct 2013 – Feb 2015 (Visiting PhD Grad Student, currently faculty at Shanghai Jiaotong University School of Public Health, Shanghai, China).
17. Navid Darouian MD: July 2014- present (Resident, internal medicine, Cedars-Sinai Medical Center, Los Angeles, CA) 2016 Paul Rubenstein, M.D. Research Award.
18. Derek Phan, MD: July 2014- present (Resident, internal medicine, Cedars-Sinai Medical Center, Los Angeles, CA).

19. Aapo Aro MD: July 2015 – present (Visiting postdoctoral scientist, University of Helsinki, Finland).
20. Sandeep Nair MD: July 2015-present (Visiting postdoctoral scientist, CARE Hospitals, Hyderabad, India), presently Cardiac Electrophysiology Fellow, Cedars-Sinai Heart Institute, Los Angeles, CA.
21. Reshmy Sandeep MD: July 2015-June 2016 (Visiting postdoctoral scientist, Early Career Poster Winner for American Heart Association Scientific Sessions 2016, CARE Hospitals, Hyderabad, India).
22. Yang Yang, MD: July 2015- present (Resident, internal medicine, Cedars-Sinai Medical Center, Los Angeles, CA).
23. Hiran Yarmohammadi MD: Oct 2015-June 2016 (Post-doctoral fellow, University of Minnesota, Minneapolis, MN).

CV revision date: 1/29/2018