

CURRICULUM VITAE

Daniel Bernstein, M.D.
Division of Pediatric Cardiology
750 Welch Road Suite 305
Palo Alto, California 94304.

A. PERSONAL DATA

Date of Birth: January 7, 1953
Place of Birth: New York, New York
Citizenship: United States

B. ACADEMIC HISTORY

EDUCATION

Undergraduate:

B.S. (Biology), 1970-1974
Massachusetts Institute of Technology,
Cambridge, Mass.

Medical School:

M.D. Degree 1974-1978
New York University School of Medicine,
New York, New York.

POST-DOCTORAL AND RESIDENCY TRAINING

Residency:

Resident in Pediatrics 1978-1981
Montefiore Medical Center,
Bronx, New York

Chief Resident in Pediatrics 1981-1982
Montefiore Medical Center,
Bronx, New York

Fellowships:

Fellow in Medical Education, 1982-1983
Department of Pediatrics,
Albert Einstein College of Medicine,
Bronx, New York

POST-DOCTORAL AND RESIDENCY TRAINING (CONTINUED)

Research Fellow in Pediatric Cardiology, Cardiovascular Research Institute, University of California, San Francisco San Francisco, California	1983-1986
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CERTIFICATION

Sub-Board of Pediatric Cardiology American Board of Pediatrics	1985
American Board of Pediatrics	1984
National Board of Medical Examiners	1979
California Medical License	No. G50857
New York State Medical License (inactive)	No. 139634

C. EMPLOYMENT

Assistant Professor of Pediatrics Stanford University School of Medicine Stanford, California	1986-1993
Associate Professor of Pediatrics Stanford University School of Medicine Stanford, California	1993-2001
Chief, Division of Pediatric Cardiology Stanford University and Lucile Salter Packard Children's Hospital	1994-2011
Director, Children's Heart Center Lucile Salter Packard Children's Hospital Stanford, California	2001-2011
Professor of Pediatrics Stanford University School of Medicine Stanford, California	2002-present
Alfred Woodley Salter and Mabel G. Salter Endowed Professor of Pediatrics Stanford University School of Medicine Stanford, California	2004-present

C. EMPLOYMENT (Continued)

Course Director, Cardiovascular Block, Human Health and Disease (First year medical student course) Stanford University School of Medicine	2015-present
Associate Dean for Curriculum and Student Scholarship Stanford University School of Medicine	2018-present

D. PUBLIC AND PROFESSIONAL SERVICE

MEMBERSHIPS AND COMMITTEES (Extramural)

Western Society for Pediatric Research	1988-present
Grant Peer Review Committee American Heart Association, Calif. Affiliate	1988-1993
Lung and Development Study Section American Heart Association, National Center	1989-1995
Society for Pediatric Research	1991-present
Council on Cardiovascular Disease in the Young, American Heart Association	1991-present
International Society for Heart and Lung Transplantation	1992-present
Pediatric Heart and Lung Transplant Study Group	1992-present
Executive Committee, Pediatric Heart and Lung Transplant Study Group	1993-1995
Research Committee, American Heart Association, California Affiliate	1993-1997
Executive Committee, Council on Cardiovascular Disease in the Young American Heart Association	1993-1997
Council, Society for Pediatric Research	1995-1998
Chairman, Richard D. Rowe Award Selection Committee, Society for Pediatric Research	1997-1999
Co-Chair, Scientific Council on Pediatric Transplantation, International Society for Heart and Lung Transplantation	1998-2000

MEMBERSHIPS AND COMMITTEES (Extramural, continued)

Pediatric Heart Failure Society	2000-present
Molecular Signaling Study Section, American Heart Association	2000-2005
Council, Society for Pediatric Research	2000-2004
Vice-President, Society for Pediatric Research	2000-2001
President-Elect, Society for Pediatric Research	2001-2002
Research Committee, American Heart Association National Center	2002-2006
President, Society for Pediatric Research	2002-2003
Protocol Review Committee, NIH Pediatric Cardiology Clinical Trials Network	2003-2004
American Pediatric Society	2004-present
NIH External Advisory Committee for University of Hawaii Research Scientist Award in Molecular Cardiology	2004-present
NIH Extramural Loan Repayment Program Special Emphasis Panel	2007-present
NIH Cardiac Contractility, Hypertrophy and Failure (CCHF) Study Section	2009-2014
American Heart Association Council on Cardiovascular Disease in the Young Nominating Committee	2010-present
Board of Directors Ronald McDonald House at Stanford	2011-present
Medical Advisory Board Saving Tiny Hearts Society	2012-present
Scientific Advisory Board Canadian Pharmacogenomics Network for Drug Safety	2013-present

MEMBERSHIPS AND COMMITTEES (Extramural, continued)

National Institutes of Health, NHLBI Resequencing and Genotyping (RS&G) Service Ad-Hoc Reviewer	2014-2015
Scientific Committee, Pediatric Heart Transplant Study	2014-2018

JOURNAL REVIEWS AND EDITORSHIPS

Pediatric Research, ad hoc reviewer	1987-present
J. Clinical Investigation, ad hoc reviewer	1988-present
Amer. J. of Cardiology, ad hoc reviewer	1990-present
Pediatrics, ad hoc reviewer	1990-present
Circulation, ad hoc reviewer	1991-present
J. Amer. Coll. Card., ad hoc reviewer	1995-present
J. Adolescent Medicine, ad hoc reviewer	1991-present
Amer. J. Physiol., ad hoc reviewer	1995-present
J. Cardiac Failure, ad hoc reviewer	2002-present
J. Mol. Cell. Cardiol., ad hoc reviewer	2002-present
Pediatric Research, Consulting Editor	2004-2010
Circulation, Guest Editor	2007-2016
Scandinavian Journal of Medicine and Science in Sports, ad hoc reviewer	2012-present
Section Editor (Cardiology), Current Opinions in Pediatrics	2014-present
PLoS One, ad hoc reviewer	2015-present

MEMBERSHIPS AND COMMITTEES (Intramural)

Committee on Housestaff Well-Being Stanford University	1987-1989
Director, Pediatric Heart Transplant Service, Stanford University	1988-2008
Facilities Committee Department of Pediatrics	1989-1995
Administrative Panel for Laboratory Animal Care, Stanford University	1989-1994
Director, Pediatric Clinical Clerkships Stanford University	1989-1993
Operations Excellence Planning Committee Packard Children's Hospital at Stanford	1990-1991
Intern Selection Committee Department of Pediatrics	1991-1995
Research Development Committee Department of Pediatrics	1992-2000
Curriculum Committee Department of Pediatrics	1992-2000
Medical Board Packard Children's Hospital at Stanford	1994-2011
Advisory Committee, NIH Child Health Research Center at Stanford	1995-2000
Steering Committee Pediatric Hospital Integration Pilot	1996-1997
Operations and Program Development Comm. LPCH Children's Services	1997-2002
Physician Management Committee LPCH Children's Services	1997-2002
Steering Committee Children's Services UCSF/Stanford Health Services	1997-2000

MEMBERSHIPS AND COMMITTEES (Intramural, Continued)

Operations Committee Children's Cardiac Service Line UCSF/Stanford Health Services	1998-2000
Capital Budget Committee LPCH Children's Hospital at Stanford	2000-2008
Biotechnology Steering Committee LPCH Children's Hospital at Stanford	2003-3006
Operations Committee LPCH Children's Hospital at Stanford	2004-3007
Conflict of Interest Committee Stanford University School of Medicine	2005-present
Finance Committee, Faculty Practice Org. LPCH Children's Hospital at Stanford	2006-2011
Executive Committee, Faculty Practice Org. LPCH Children's Hospital at Stanford	2006-2011
Executive Committee, Stanford Cardiovascular Institute	2005-2007
Co-Chair, Cardiomyopathy and Transplant Working Group, Stanford Cardiovascular Instit.	2006-2012
Steering Committee, Stanford Cardiovascular Institute	2007-2015
Chair, Education Committee, Stanford Cardiovascular Institute	2011-present
Co-Director, Cardiovascular Block Human Health and Disease (1 st Year Medical Student Course) Stanford School of Medicine	2015-present
Member, Scientific Foundations of Medicine Curriculum Redesign Committee Stanford School of Medicine	2016-2017
Member, Dean's Senior Leadership Committee on Curriculum Reform	2016-present
Co-Chair, Education Planning Committee Stanford School of Medicine	2017-present

MEMBERSHIPS AND COMMITTEES (Intramural, Continued)

Chair, Committee on Curriculum and Academic Policy (CCAP) Stanford School of Medicine	2018-present
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E. POST-DEGREE HONORS AND AWARDS

Leo. M. Davidoff Society Award for excellence in teaching, Albert Einstein College of Medicine	1982
House Officer of the Year Award, Montefiore Medical Center Alumni Association	1982
Mellon Foundation Fellow, Stanford University	1986-1987
Hume Faculty Scholar, Stanford University	1987-1988
Stanford Pediatric Faculty Teaching Award	1988
Hume Faculty Scholar, Stanford University	1989-1990
President, Society for Pediatric Research	2002-2003
Elected to Membership, American Pediatric Society	2004
Best Lecture Award, Stanford School of Medicine	2013
Stanford Stole (Fellow Mentorship Award)	2014

GRANTS (ACTIVE)**American Heart Association Collaborative Investigator Award** 7/1/17-6/30/20

Co-PIs: Blau, Helen; Bernstein, Daniel and Pruitt, Beth Annual Costs: \$250,000

Alterations in Mechanosensing and Telomere Homeostasis Impact Progression of Dilated Cardiomyopathy

The goal of this project is to evaluate the role of telomere shortening in the pathogenesis of dilated cardiomyopathy and the mechanisms by which altered biomechanical stress affect telomere homeostasis.

Stanford Institute for Immunity, Transplantation and Infection (ITI) 7/1/18-6/30/19**NIH Cooperative Centers for Translational Research in Human Immunology (CCHI) Pilot Project Grant**

PI: Daniel Bernstein; Co-PI: Meghna Patel Total Costs: \$40,000

Immunologic adaptations correlated to risk of infection in pediatric heart failure patients after left ventricular assist device placement.

Stanford University Translational and Clinical Innovation Grant 1/1/17-12/31/18

PI: Daniel Bernstein Annual costs: \$100,000

“Solving the Genotype-Phenotype Conundrum in Hypertrophic Cardiomyopathy Utilizing hiPSC-Derived Cardiomyocytes”

The goal of this study is to compare the biomechanical alterations induced by HCM mutations in individual myosin molecules with cellular alterations utilizing patient-derived and CRISPR-edited hiPSC-cardiomyocytes.

American Heart Association**AWRP Innovative Research Grant 17IRG33420024** 1/1/17-12/31/18 0.6 calendar

PI: Daniel Bernstein Annual costs: \$75,000

“Identifying the functional consequences of mitochondrial heterogeneity.”

The goal of this study is to develop new high-throughput technologies to quantify heterogeneity in mitochondrial function between single cardiomyocytes, and also between individual mitochondria/mitochondrial regions within individual cardiomyocytes.

Department of Defense

7/1/16-6/30/19

1.2 calendar

CMDRP in Congenital Heart Disease

PI: Daniel Bernstein Annual direct costs \$400,000

“Non-cardiomyocyte microRNAs Mediate Dysregulation of Angiogenesis in RV Failure”

Summary: This project examines the role of miRs 34a and 148a in disordered angiogenesis in RV failure.

NIH R21/R33 HL123655

8/8/14-6/30/19

1.8 calendar

PI: Daniel Bernstein Annual direct costs \$339,000

“hiPSC-Cardiomyocytes to Screen Variants Predictive of Doxorubicin Cardiotoxicity”

This grant uses hiPSC-CMs to determine the mechanism and validity of GWAS variants predicted to influence the risk for development of anthracycline cardiotoxicity.

GRANTS (ACTIVE, CONTINUED)**NIH/NHLBI UM1 HL128761**

7/1/15-6/30/20 0.6 calendar

"Genetics of Hypoplastic Left Heart Syndrome"

Joint-PIs: Daniel Bernstein and Deepak Srivastava (Gladstone Institute, UCSF).

This project is part of the Pediatric Cardiac Genomics Consortium, a program under the NIH Bench to Bassinet Network. The goal is to test the hypothesis that HLHS arises from genetic variants with relatively strong effects and that the same variants disrupt aortic valve and neuronal development.

NIH UO1 AI104342-01

2/1/13-1/31/18

3.6 calendar

PI: Carlos Esquivel; Co-Investigator, Protocol Director: Daniel Bernstein Annual direct costs \$550,000

"Biomarkers for Post-Transplant Lymphoproliferative Disorders in Children"

This Clinical Trials in Organ Transplantation in Children (CTOT-C) application will examine two unique biomarkers for post-transplant lymphoproliferative disorder (PTLD) in children after solid-organ transplants.

NIH R21

4/1/15-3/31/20

0.24 calendar

PI: Beth Pruitt; Co-Investigator: Daniel Bernstein

Total costs \$3,606,239

"Maturing human pluripotent stem cell derived cardiomyocytes as in vitro models"

This project uses biomechanical scaffolding to mature the phenotype of hiPSC-derived cardiomyocytes, as platforms for drug testing and disease modeling.

AHA Established Investigator Award

1/1/16-12/31/20

0.12 calendar

Sean Wu, PI; Daniel Bernstein, Co-Investigator

Annual direct costs: \$4,097

"Transcriptional mechanism of cardiac lineage development at single cell resolution"

Department of Defense

7/1/17-6/30/20

0.12 calendar

CDMRP In Congenital Heart Disease PI: Spiekerkoeter, E; Co-investigator: Daniel Bernstein

"Targeting BMP2 Signaling to improve Right Ventricular Function in Congenital Heart Disease"

T32 HL094274

7/1/2016-6/30/2021

1.2 calendar

PI: Daniel Bernstein; Co-Investigator: Thomas Quertermous

NIH/NHLBI Annual direct costs \$440,652

"Research Training in Myocardial Biology at Stanford"

This is an NHLBI Ruth L. Kirschstein NRSA Institutional Training Grant in myocardial biology. (Renewal recently received a fundable score.)

GRANTS (PENDING)**NIH RO1**

9/1/16-8/31/21

1.2 calendar

PI: Daniel Bernstein

"Physiologic vs. Pathologic Mitochondrial Fragmentation in the Heart"

Summary: This project examines the role of mitochondrial fission in physiologic vs. pathologic cardiovascular stress. Reviewed, discussed but not funded. *Revision in progress.*

GRANTS (PENDING, Continued)**NIGMS/NIH RM1**

PI: James Spudich. Role: Co-PI

“From proteins to cells to tissues: A multi-scale assessment of biomechanical regulation by the myosin molecular motor”

4/1/19-3/31/24 2.4 calendar

Total Costs: \$13,468,859

Department of Defense PRMRP Focused Program Award

PI: James Spudich, Role: Project Associate Director and Co-PI

A multi-scale approach to solving the genotype-phenotype conundrum in hypertrophic cardiomyopathy.

9/1/19-9/31/23 1.2 calendar

Total Costs: \$10,000,000

GRANTS (PAST)**Stanford Child Health Research Institute**

Transdisciplinary Initiatives Program

Daniel Bernstein, PI; J. Spudich, B. Pruitt, A. Dunn, Co-investigators

“iPSC-derived cardiomyocytes to determine mechanisms by which β -MHC mutations cause pediatric hypertrophic cardiomyopathy.”

This grant utilizes iPSC-cardiomyocytes to recreate HCM in a dish and compare the biomechanical alterations induced by β -MHC mutations at the single molecule vs. the whole cell level, with a specific focus on those mutations that cause early severe disease in infants and young children.

11/1/15-10/31/17

\$200,000 (total)

CA Institute of Regenerative Medicine

PI Joseph Wu; Co-Investigator: Daniel Bernstein

“Tissue Collection for Accelerating iPSC Research”

This grant provides the resources to develop iPSC lines on pediatric and adult patients with congenital heart disease, cardiomyopathies and arrhythmias.

1/1/13-9/30/16

0.6 calendar

Annual direct costs \$415,662

Stanford Child Health Research Institute

Manish Butte, PI; Daniel Bernstein, Co-investigator

“Understanding and treating T-cell immunodeficiency of congenital heart disease”

This grant focuses on the mechanisms of T-cell deficiency in patients with complex congenital heart disease and the role of protein-losing enteropathy and thymectomy.

7/1/15-6/30/16

\$35,000 (total)

Stanford Institute for Immunity, Transplantation and Infection

Kenneth Weinberg, PI; Daniel Bernstein, Co-investigator

“Optimizing cytotoxic T lymphocyte therapy of EBV-PTLD by clonal tracking of viral and lymphocyte populations”

This grant focuses on developing immunotherapies for EMV-associated post-transplant lymphoproliferative disorders.

1/1/15-12/31/16

\$50,000 (total)

Stanford Spectrum Pilot Grant

Kenneth Weinberg, PI; Daniel Bernstein, Co-investigator

“Next-Gen Viral and Immunoreceptor Sequencing to Predict Responses to Cytotoxic T Lymphocyte Therapy of Epstein-Barr Virus induced Post-Transplant Lymphoproliferative Disorder”

This grant focuses on developing immunotherapies for EMV-associated post-transplant lymphoproliferative disorders.

1/1/15-12/31/16

\$25,000 (total)

GRANTS (PAST, CONTINUED)**K18 HL11708301**

07/24/2013 – 05/31/2015

8.4 calendar

PI: Daniel Bernstein

NIH/NHLBI

\$398,358 (total)

“iPSC-Derived Cardiomyocytes in Left Ventricular Non-Compaction Cardiomyopathy”

This “Career Enhancement Award for Stem Cell Research” provides mid- or senior-level career investigators with training in stem cell research. The focus of these studies will be on LVNC cardiomyopathy.

The Reddy Foundation

11/1/2013-10/30/15

Sushma Reddy, PI; Daniel Bernstein, Co-investigator \$200,000 (total)

“Murine Models of Congenital Heart Disease to Explore the Pathobiology of Right Heart Failure”

This grant focuses on development of animal models of congenital heart disease to better understand the mechanisms of right heart failure.

Oak Foundation

7/1/2008-6/30/2015

Daniel Bernstein, Michael Longaker and Frank Hanley – co-PIs

“Building a Foundation for Fetal Cardiac Intervention” \$500,000 (annual)

To understand mechanisms of fetal cardiac disease, explore therapeutic options including fetal surgery, and develop mechanisms for cardiac muscle and valve regeneration.

Children’s Cardiomyopathy Foundation

2014-2015

PI: Daniel Bernstein

“iPSC-Derived Cardiomyocytes in Left Ventricular Non-Compaction Cardiomyopathy”

This project utilizes induced pluripotent stem cells to model LVNC, a cardiomyopathy which is common in children, to better understand the mechanisms.

Children’s Heart Foundation

1/1/12-12/31/13

PI Daniel Bernstein; Co-investigator: Sushma Reddy

“Role of microRNAs in Right Ventricular Remodeling and Failure” \$200,000 (total)

This grant examines the mechanisms by which miRs unique to the failing RV mediate gene expression controlling RV remodeling and failure.

Stanford Cardiovascular Research Institute

11/1/13-10/30/14

Daria Mochly-Rosen PI; Daniel Bernstein, Tobias Meyer – Co-investigators

\$20,000 (total)

This is a Stanford seed grant to investigate the mechanisms for the development of a unique form of cardiomyopathy using patient-derived iPSC-cardiomyocytes.

Roche Laboratories, Inc.

2011-2014

0.012 calendar

Daniel Bernstein, Site-PI

“Pharmacokinetics and safety of valganciclovir in pediatric heart transplant recipients <4 months of age.”

GRANTS (PAST, CONTINUED)

- NIH RO1 HL093475-01** 5/1/09-4/30/2014 0.6 calendar
 PI William Fearon; Co-investigator Daniel Bernstein \$250,000 (annual)
 “ACE Inhibition and Cardiac Allograft Vasculopathy.”
 To investigate the effect of ACE-inhibitors on the development of CAV in cardiac transplant recipients using a randomized, double blind, placebo-controlled study design.
- NIH R01 AI92673-01** 8/31/10-8/30/13 0.6 calendar
 PI: Valantine, Hannah Daniel Bernstein, Co-investigator \$514,456 (total)
 “Genome Transplant Dynamics: Non-invasive sequencing-based diagnosis of rejection.”
 This grant examined the use of deep sequencing of circulating naked DNA to detect allograft injury in transplant patients.
- Children’s Health Research Institute** 9/1/12-8/31/13
 Daniel Bernstein, PI
 \$32,362 (total)
 “iPSC-derived cardiomyocytes to determine mechanisms of LV non-compaction cardiomyopathy.”
 This is a Stanford seed grant to investigate the mechanisms for the development of a unique form of cardiomyopathy using patient-derived iPSC-cardiomyocytes.
- Children’s Health Research Institute** 1/1/13-12/31/13
 Daniel Bernstein, PI
 “Early Detection of Post Transplant Lymphoproliferative Disorder By High Throughput V(D)J Sequencing.”
 \$35,000 (total)
 This is a Stanford seed grant to investigate a novel biomarker for post-transplant lymphoproliferative disorder.
- NIH/NHLBI 2 R01 HL061535-06A2** 7/1/2007-6/31/11 2.4 calendar
 PI: Bernstein, Daniel
 Role of β -adrenergic Receptor Signaling in Cardiomyopathy Annual costs \$250,000
 This project examined the role of β 1 vs. β 2 receptors and crosstalk with PKC, MAPK and mitochondrial signaling pathways in the pathogenesis of cardiomyopathy, using both gene targeted mice and cultured myocytes derived from β -receptor null mice.
- NIH/NHLBI 5 RO1 HL052141 (PI Mochly-Rosen, Daria)** 4/5/08-5/30/12 0.6 calendar
 Protein Kinase C Isozymes in Ischemic Heart Annual costs \$250,000
Summary: This project examined the role of PKC isozyme signaling in the cardiac response to ischemic and afterload stress. Dr. Bernstein was responsible for developing and physiologic assessment of murine models.
- Stanford Comprehensive Cancer Center** 2007-2009
 Translational Research Grant
 “Signaling Polymorphisms and Doxorubicin Cardiomyopathy.”
 Daniel Bernstein – P.I.

GRANTS (PAST, CONTINUED)

2004-2009

National Institutes of Health

"Hypertrophy, Heart Failure and PKC"

1 RO1 HL076675

Daria Mochly-Rosen – P.I.

Daniel Bernstein – Co-P.I. (5% effort)

Stanford Bio-X Interdisciplinary Initiatives Program Award

2008-2010

"Functional Assessment of Primary and Embryonic Stem Cell-Derived Cardiomyocytes."

Daniel Bernstein, M.D. – P.I.

Stanford Pediatric Health Research Fund

2006

"Role of β -adrenergic receptor signaling in doxorubicin cardiomyopathy"

Daniel Bernstein, M.D. – P.I.

United States Department of Commerce

2005

SABIT Program

"Clinical and Administrative Aspects of Modern Pediatric Tertiary Care"

Daniel Bernstein, M.D. – P.I.

National Institutes of Health

2004-2009

"Protein Kinase C Isozymes in Heart"

HL052141

Daria Mochly-Rosen – P.I.

Daniel Bernstein – Co-P.I. (5% effort)

National Institutes of Health SCCOR (HL-O2-027)

Optimizing Outcome After Pediatric Heart Transplantation

1 P50 HL074732

2004-2008

Steve Webber, P.I. (Univ. of Pittsburgh)

Daniel Bernstein- Stanford Co-P.I. (5% effort)

Expression Diagnostics, Inc.

2002-2004

"Cardiac allograft rejection gene expression observational (CARGO) study."

Daniel Bernstein, Site P.I. (2%)

American Heart Association National Center (0250204N)

2002-2004

Grant in Aid

"Assessing new therapeutics for cardiac ischemia using porcine model in vivo."

Daria Mochly-Rosen, P.I.

Daniel Bernstein- Co-P.I.

GRANTS (PAST, CONTINUED)

National Aeronautics and Space Administration	1999-2003
"Role of Adrenergic Receptors in Adaptation to Microgravity: Gene Targeted Mice as a Model of Microgravity Research" Daniel Bernstein, M.D. P.I. (25% effort)	
National Institutes of Health	1998-2003
"Collaborative RO1: Role of G proteins in Cardiomyopathy" Bruce Conklin, P.I. Daniel Bernstein, Co-P.I.	
Packard Children's Hospital Child Health Research Fund	1997-1999
"Role of Beta-adrenergic Receptors in Cardiomyopathy" Daniel Bernstein, M.D.- P.I.	
National Institutes of Health	1994-1999
"Regulation of Energy Balance by Melanocortin Antagonists" Gregory Barsh, P.I. Daniel Bernstein, Co-P.I.	
Zeneca Pharmaceuticals Group	1998
"Evaluation of an Alpha Agonist in Mice" Daniel Bernstein, P.I.	
American Heart Association (CA Affiliate) Grant-in-Aid:	
"Regulation of Signal Transduction by G Protein Translocation"	1992-1994
Daniel Bernstein, M.D.- P.I.	
Program in Molecular and Genetic Medicine Director's Research Award:	1992-1997
"Role of β -Adrenergic Receptors in Cardiac Development and Congenital Heart Disease: Evaluation by Targeted Gene Disruption and Transgenesis" Smithkline Beecham Corporation Daniel Bernstein, M.D.-P.I.	
Clinician Scientist Award (Sponsor)	
"Perinatal Regulation of the Hypertrophic Response" American Heart Association Fellow: Erik Strandness, M.D.	
Grant-in-Aid:	1990-1992
"Mechanisms of Growth Failure in Chronic Hypoxemia" American Heart Association, California Affiliate P.I. = Daniel Bernstein, M.D.	

GRANTS (PAST, CONTINUED)

NIH Biomedical Research Support Grant (RR05353) P.I. = Daniel Bernstein, M.D.	1989-1990
American Heart Association Medical Student Research Fellowship Program P.I. = Daniel Bernstein, M.D.	1989-1995
NIH FIRST Award (HL38741): "Myocardial β -Receptor Regulation in Chronic Hypoxemia" P.I. = Daniel Bernstein, M.D.	1988-1993
Biomedical Research Support Grant National Institutes of Health (RR 05353) P.I. = Daniel Bernstein, M.D.	1986-1987
NIH: Individual National Research Service Award National Institutes of Health (HL07143) P.I. = Daniel Bernstein, M.D.	1985-1986

PEER REVIEWED PUBLICATIONS (Total 200)

1. Cooper MJ, Bernstein D, Silverman NH. Recognition of left coronary artery fistula to the left and right ventricles by echocardiography. *J. Am. Coll. Card.*, 6:923-926, 1985.
2. Teitel D, Sidi D, Bernstein D, Heymann MA, Rudolph AM. Chronic hypoxemia in the newborn lamb: cardiovascular, hematopoietic, and growth adaptations. *Pediatr. Res.* 19: 1004-1010, 1985.
3. Bernstein D, Finkbeiner WE, Soifer S, Teitel D. Perinatal myocardial infarction: a case report and review of the literature. *Pediatr. Cardiology* 6:313-317, 1986.
4. Bernstein D, Coupey SM, Schonberg SK. Pulmonary embolism in adolescents. *Amer. J. Dis. Child.* 140:667-671, 1986.
5. Bernstein D, Teitel DF, Sidi D, Heymann MA, Rudolph AM. Redistribution of regional blood flow and oxygen delivery in experimental cyanotic heart disease in newborn lambs. *Pediatric Research* 22: 389-393, 1987.
6. Bernstein D, Teitel DF, Rudolph AM. Chronic anemia in the newborn lamb: cardiovascular adaptations and comparison to chronic hypoxemia. *Pediatric Research* 23:621-627, 1988.
7. Starnes V, Bernstein D, Oyer P, Gamberg PL, Miller JL, Baum D, Shumway NE. Heart Transplantation in Children. *J. Heart Transplant.* 8:20-6, 1989.
8. Bernstein D, Voss E, Huang S, Crane C. Differential regulation of right and left ventricular β -adrenergic receptors in newborn lambs with experimental cyanotic heart disease. *J. Clin. Invest.* 85:68-74, 1990.
9. Bernstein D, Teitel D. Myocardial and systemic oxygenation during severe hypoxemia in the ventilated lamb. *Amer. J. Physiol.* H1856-H1864, 1990.
10. Bernstein D, Crane C. Comparative circulatory effects of isoproterenol and dopamine in lambs with experimental cyanotic heart disease. *Pediatr. Res.* 29: 323-328, 1991.
11. Baum D, Bernstein D, Starnes VA, Oyer P, Pitlick P, Stinson E, Shumway NE. Pediatric Heart Transplantation at Stanford: Results of a fifteen year experience. *Pediatrics* 88: 203-214, 1991.
12. Doshi R, Strandness E, Bernstein D. Regulation of atrial adrenergic and muscarinic receptors in experimental cyanotic heart disease. *Amer. J Physiol.* 261: H1135-1140, 1991.

13. Starnes VA, Pitlick PT, Bernstein D, Griffin ML, Choy M, Shumway NE. Ebstein's anomaly appearing in the neonate: a new surgical approach. *J. Thorac. Cardiovasc. Surg.* 101:1082-1087, 1991.
14. Baum D, Bernstein D, Starnes VA. Pediatric heart transplantation. *California Pediatrician* 7:20-22, 1991.
15. Starnes VA, Miller JL, Gamberg PL, Bernstein D, Baum D, Shumway NE. Heart transplantation in children with cardiomyopathies. *J. of Heart and Lung Transplant.* 10:815-819, 1991.
16. Bernstein D, Kolla S, Miner M, Pitlick P, Griffin M, Starnes V, Rowan R, Billingham M, Baum D. Cardiac growth after pediatric heart transplantation. *Circulation* 85: 1433-1439, 1992.
17. Bernstein D, Jasper J, Rosenfeld R, Hintz R. Decreased serum insulin-like growth factor I associated with growth failure in newborn lambs with experimental cyanotic heart disease. *J. Clin. Invest.* 89: 1128-1132, 1992.
18. Bernstein D, Bell JG, Kwong L, Castillo RO. Alterations in postnatal intestinal function during chronic hypoxemia. *Pediatr. Res.* 31: 234-238, 1992.
19. Starnes VA, Oyer PE, Bernstein D, Baum D, Gamberg P, Miller J, Shumway NE. Heart, heart-lung, and lung transplantation in the first year of life. *Ann. Thorac. Surg.* 53:306-310, 1992.
20. Starnes VA, Griffin ML, Pitlick PT, Bernstein D, Baum D, Ivens K, Shumway NE. Current approach to hypoplastic left heart syndrome: Palliation, transplantation, or both? *J. Thorac. Cardiovasc. Surgery.* 103: 189-195, 1992.
21. Bernstein D, Doshi R, Huang S, Jasper JR, Strandness E. Transcriptional regulation of left ventricular β -adrenergic receptors during chronic hypoxia. *Circulation Research* 71: 1465-1471, 1992.
22. Leiber D, Jasper J, Alousi A, Martin J, Bernstein D, Insel PA. Alteration in Gs-mediated signal transduction in S49 lymphoma cells treated with inhibitors of microtubules. *J. Biol. Chem.* 268: 3833-3837, 1993.
23. Michel-Reher MB, Gross G, Jasper JR, Bernstein D, Brodde E, Michel MC. Tissue- and Subunit-specific regulation of G-protein expression by hypo- and hyperthyroidism. *Biochem. Pharmacol.* 45: 1417-1423, 1993.

24. Bernstein D, Baum D, Starnes V, Stinson E, Shumway NE., Billingham, M. Neoplastic disorders after pediatric heart transplantation. *Circulation*. 88 (part 2): 230-237, 1993.
25. Jasper JR, Link RE, Chruscinski AJ, Kobilka BK, Bernstein D. Primary structure of the mouse β -1 adrenergic receptor gene. *Biochem. Biophys. Acta*. 1178:307-309, 1993.
26. Bernstein D. Update on Cardiac Transplantation in Infants and Children. *Critical Care Medicine*. 21:S354-355, 1993.
27. Michler RE, Edwards NM, Hsu D, Bernstein D, Fricker FJ, Miller J, Copeland J, Kaye MP, Addonizio L. Pediatric Retransplantation. *J Heart Lung Transplant*. 12:S319-327, 1993.
28. Bernstein D, Clayberger C, Baum D. Childhood heart transplantation: Allograft rejection. *Progress in Pediatric Cardiology*. 2:34-41, 1993.
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120. Singh TP, Lipshultz SL, Alvarez J, Careyu A, Canter C, Bernstein D, Pahl E, Towbin JA, Sleeper L, Colan S, Webber S. Association of left ventricular dilation at listing for heart transplant with post-listing and early post-transplant survival in pediatric dilated cardiomyopathy. Presentation at ISHLT, Boston, April, 2008.
121. Girnita DM, Brooks MM, Webber SA, Burckart GJ, Ferrell R, Zdanowicz G, Chinnock R, Canter C, Addonizio L, Bernstein D, Kirklin JK, Naftel D, Girnita A, Zeevi A. Genetic polymorphisms impact the risk of rejection with hemodynamic compromise and chronic allograft vasculopathy – a multi-center study. ATC, 2008.

122. Pavlovic A, Perez M, Absher D, Wheeler M, Ho M, Dewey R, Cretti L, Southwick A, Rosenthal D, Bernstein D, Myers RM, Heidenreich P, Fowler MB, Robbins R, Ashley E. Overrepresentation Of Neuronal Development Pathways In Heart Failure Patients Who Dramatically Responded To Pharmaceutical Therapy. Submitted to Heart Failure Society of America, 2008.
123. Norman J, Simmons C, Arumugam N, Taylor R, Fajardo G, Bernstein D, Pruitt B. Emulating preload and afterload on cardiomyocytes using forcepost detector arrays. Submitted to SES, 2008.
124. Wheeler M, Pavlovic A, Dewey F, Perez M, Absher D, Ho M, Cretti E, Southwick A, Rosenthal D, Bernstein D, Myers RM, Heidenreich P, Fowler MB, Robbins R, Ashley E. Evaluation of Polymorphisms in Candidate Genes in the Dramatic Response to Pharmacologic Therapy of Heart Failure. Submitted to AHA, 2008.
125. Ho M, Fajardo G, Anderson J, Kundu R, Zhao MM, Leeper N, Charo D, Chun H, Bernstein D, Ashley E, Quertermous T. The apelin-APJ pathway is an endogenous regulator of cardiac function and is upregulated in cardiac pressure overload. Presentation at AHA Scientific Sessions, New Orleans, 2008.
126. Ferreira J, Churchill EN, Brum P, Fajardo G, Bernstein D, Mochly-Rosen D. Sustained pharmacological β 1PKC inhibition is cardioprotective in late-stage hypertrophy and end-stage heart failure in two rat models. Presentation at AHA Scientific Sessions, New Orleans, 2008.
127. Girnita DM, Brooks MM, Webber SA, Burckart GJ, Ferrell R, Chinnock R, Canter C, Addonizio L, Bernstein D, Kirklin JK, Naftel D, Girnita A, Zeevi A. Genetic polymorphisms impact the risk of infection in pediatric heart transplantation-a multi-center study. Platform presentation at International Soc. Heart Lung Transpl., Paris, 2009.
128. Stein ML, Robbins R, Sabati A, Reinhartz O, Chin C, Liu E, Bernstein D, Roth S, Wright G, Reitz B, Rosenthal D. Use of INTERMACS criteria to assess major clinical outcomes in children bridged to heart transplant using mechanical circulatory support. Platform presentation at International Soc. Heart Lung Transpl., Paris, 2009.
129. Norman J, Kim K, Samaarajiva S, Suggs M, Fajardo G, Zhao M, Bernstein D, Pruitt B. Mechanical observation of cardiomyocytes using forcepost sensors and AFM studies. Bio-X Interdisciplinary Initiatives Program, Stanford, February, 2009.
130. Girnita DM, Brooks MM, Webber SA, Burckart GJ, Ferrell R, Chinnock R, Canter C, Addonizio L, Bernstein D, Kirklin JK, Naftel D, Girnita A, Zeevi A. Bacterial and viral infections are impacted by different genetic polymorphisms-a multicenter pediatric heart transplant study. Amer. Transplant Congress, Boston, June, 2009.
131. Chin C, Tyan D, Bernstein D, Rosenthal D, Reinhartz O, Vayntrub T. C1q and desensitization with IVIG: use of a novel HLA complement fixing antibody detection technique to guide desensitization therapy for pediatric heart transplantation. Amer. Transplant Congress, 2009.

132. Fajardo G, Fan W, Zhao MM, Wallace D, Bernstein D. Differential modulation of mitochondrial function in doxorubicin cardiotoxicity by β 2-adrenergic receptors in Strain Dependent: Role of mtDNA. Platform presentation at AHA Scientific Sessions, Orlando, November 2009.
133. Ernst KV, Ashley EA, Charo D, Kawana M, Fajardo G, Bernstein D, Quertermous T. Apelin regulates cardiac contractility and rescues neurohormonal heart failure. Presentation at AHA Scientific Sessions, Orlando, November 2009.
134. Charo DN, Ashley EA, Sheikh AY, Chen M, Finsterbach T, Robbins RC, Bernstein D, Quertermous T. Apelin deficient mice exhibit decreased cardiac contractility, peak oxygen consumption, and exercise capacity: Evidence that apelin is an important endogenous inotrope. Presentation at AHA Scientific Sessions, Orlando, November 2009.
135. Auerbach SR, Rosenthal DN, Bernstein D, Chin C. Daclizumab is an Efficacious Induction Agent for Highly Sensitized Pediatric Heart Transplant Recipients. Inter. Society for Heart Lung Transpl, Chicago, 2010.
136. Auerbach SR, Chin C, Bernstein D, Rosenthal DN. A case of Heparin Induced Thrombocytopenia Complicating Left Ventricular Assist Device (LVAD) Bridge to Transplantation: The Use of Alternative Anticoagulation in a Pediatric LVAD and Heart Transplant. Inter. Society for Heart Lung Transpl, Chicago, 2010.
137. Kim K, Sim JY, Bernstein D, Pruitt BL. Calibrated micropost arrays for high throughput biomechanical characterization of cardiomyocytes. Biophysical Society, San Francisco, 2010.
138. Fajardo G, Zhao MM, Urashima T, Bernstein D. Deletion of β 2-adrenergic receptors restores myocyte contractility through improved calcium handling in muscle LIM protein cardiomyopathy. Poster presentation at AHA Basic Cardiovascular Sciences 2010 Scientific Sessions, Rancho Mirage, CA.
139. Reddy S, Fajardo G, Zhao MM, Rajagopalan V, Bernstein D. The right ventricular hypertrophic response does not mirror the left ventricle. Poster presentation at AHA Basic Cardiovascular Sciences 2010 Scientific Sessions, Rancho Mirage, CA.
140. Davis R, Mallidi H, Maeda K, Reinhartz O, Chin C, Rosenthal D, Bernstein D. Lower socioeconomic status predicts poor waitlist and post-heart transplant survival in children. International Society for Heart and Lung Transplantation Scientific Sessions, San Diego, April, 2011.
141. Proteosomal inhibition attenuates right ventricular hypertrophy, but not late hypertrophy and failure. Keystone Symposium on Cardiac Growth, Death and Regeneration, Keystone, CA, February, 2011.
142. Perez MV, Pavlovic A, Wheeler MT MD, Dewey FE, Absher D, Ho M, Cretti E, Southwick A, Garrett L, Sedehi D, Kao D, Salisbury H, Chan K, Rosenthal D, Heidenreich P, Fowler MB, Myers RM, Robbins RC, Bernstein D, Quertermous T, Ashley E. Genetic Determinants of Dramatic Improvement in Left Ventricular Function in Patients with Heart Failure. American College of Cardiology, New Orleans, April, 2011.

143. Taylor RE, Ribeiro A, Fajardo G, Razavi H, Bernstein D, Pruitt BL. Micropost-based functional assay of adult heart cells: does mechanosensing limit force production? Poster presentation at MicroTAS 2011, Seattle, WA. October, 2011.
144. Castleberry C, Chin C, Rosenthal D, Bernstein D, Hollander SA, Tyan D. Complement Fixation by C1q vs MFI: Detection of Clinically Relevant Antibodies. Platform presentation at International Society for Heart Lung Transplant, Prague, April, 2012.
145. Hollander S, Anderson M, Tyan D, Bernstein D, Chin C. A Reduced Immunosuppressive Protocol in Highly Sensitized Pediatric Heart Transplant Patients with a C1q Negative Virtual Crossmatch. Poster presentation at International Society for Heart Lung Transplant, Prague, April, 2012.
146. Castelberry C, Reinhartz O, Maeda K, Hollander SA, Bernstein D, Rosenthal D. Use of Membrane Oxygenator for Recurrent Respiratory Failure in Pediatric Berlin Biventricular Support. Poster presentation at International Society for Heart Lung Transplant, Prague, April, 2012.
147. Feingold B, Brooks MM, Zeevi A, Ohmann EL, Burckart GJ, Ferrell RE, Chinnock R, Canter C, Addonizio L, Bernstein D, Kirklin JK, Naftel DC, Webber SA. Association between renal function and genetic polymorphisms in pediatric heart transplant recipients. Platform presentation at International Society for Heart and Lung Transplant, Prague, April, 2012.
148. Reddy S, Zhao MM, Fajardo G, E. Katznelson, J Spinn, FP Chan, Bernstein D. Murine model of chronic right ventricular diastolic heart failure is associated with energetic alterations and extracellular matrix remodeling. Poster presentation at AHA Basic Cardiovascular Science Meeting, New Orleans, July, 2012.
149. Rajagopalan V, Fajardo G, Zhao M, Urashima T, Bernstein D. Ca²⁺ and calmodulin-dependent protein kinase II mediates a temporal switch between cardiotoxic and cardioprotective signaling by β 2-adrenergic receptors. Poster presentation at AHA Basic Cardiovascular Science Meeting, New Orleans, July, 2012.
150. Coronado, M, Fajardo G, Rajagopalan V, Zhao M, Hu D, Reddy S, Bernstein D. Beta-adrenergic signaling modulates mitochondrial dynamic function. Keystone conference Mitochondria, Metabolism and Myocardial Function – Basic Advances to Translational Studies. Keystone, CO. February, 2013.
151. Rajagopalan V, Fajardo G, Zhao M, Urashima T, Bernstein D. Differential regulation of ubiquitin-proteasomal system in right ventricular vs. left ventricular hypertrophy and failure. Poster presentation at AHA Basic Cardiovascular Science Meeting, New Orleans, July, 2012.
152. Maeda K, Hollander S, Yeh J, Navaratnam M, Millidi H, Liu E, Lin A, Lal A, Bernstein D, Rosenthal D, Reinhartz O. Outcomes following Heartmate II left ventricular assist device implantation in pediatric patients. Platform presentation at ASAIO (American Society of Artificial Internal Organs), Chicago, June, 2013.

153. Reddy S, Hu D-Q, Zhao M, Blay E, Fajardo G, Bernstein D. miR-21 is a biomarker for fibrosis and the progression to right ventricular systolic failure in a model of pulmonary volume and pressure overload. Platform presentation at American Heart Association Scientific Sessions, Dallas, November, 2013.
154. De Vlaminck I, Valentine HA, Luikary H, Weisshaar D, Bernstein D, Quake SR, Khusk KK. Circulating cell-free NDA is a non-invasive marker of heart transplant rejection. International Society for Heart and Lung Transplant, San Diego, April, 2014.
155. Hollander SA, Chen S, Luikary H, Burge M, Rosenthal DN, Maeda K, Hunt S, Bernstein D. Quality of life and metrics of achievement in long-term adult survivors of pediatric heart transplant. International Society for Heart and Lung Transplant, San Diego, April, 2014.
156. Hollander SA, Tyan D, Fernandez M, Rosenthal D, Bernstein D, Kaufman B, Chen S, Barkhof L, Maeda K, Almond C. Does the OPTN cPRA calculator accurately predict HLA antigen frequencies in pediatric donors? International Society for Heart and Lung Transplant, Nice, France, April, 2015.
157. Hollander SA, Maeda K, Rosenthal D, Bernstein D, Kaufman B, McDonald N, Barkhof L, Fernandez M, Almond C. Center-specific variations in donor antigen frequency. Does the OPTN cPRA calculator apply to your center? International Society for Heart and Lung Transplant, Nice, France, April, 2015.
158. Fajardo G, Bezold G, Meyer T, Mochly-Rosen D, Bernstein D. High-throughput single cell tracking of mitochondrial function in cardiomyocytes. AHA Basic Cardiovascular Science Sessions, New Orleans, July, 2015.
159. Kodo K, Ong S-G, Jahanbani F, Termglinchan VT, Rahatloo KI, Ebert A, Shulka R, Abilez O, Churko J, Karakikes I, Jung G, Synder MP, *Bernstein D, *Wu JC. Aberrant TGF β signaling as an etiology of left ventricular non-compaction cardiomyopathy. AHA Basic Cardiovascular Science Sessions, New Orleans, July, 2015. *Drs. Bernstein and Wu are co-corresponding authors.
160. Fajardo G, Bezold G, Meyer T, Mochly-Rosen D, Bernstein D. High-throughput single cell tracking of mitochondrial function in cardiomyocytes. AHA Scientific Sessions, Orlando, November, 2015.
161. Kodo K, Ong S-G, Jahanbani F, Termglinchan VT, Rahatloo KI, Ebert A, Shulka R, Abilez O, Churko J, Karakikes I, Jung G, Synder MP, *Bernstein D, *Wu JC. Aberrant TGF β signaling as an etiology of left ventricular non-compaction cardiomyopathy. AHA Scientific Sessions, Orlando, November, 2015. *Drs. Bernstein and Wu are co-corresponding authors.
162. Coronado M, Fajardo G, Nguyen K, Zhao M, Bezold Kooiker K, Jung G, Hu D-Q, Reddy S, Sandoval E, Stotland A, Gottlieb R, Bernstein D. Physiologic mitochondrial fragmentation is a normal cardiac adaptation to increased energy demand. Late-breaking Basic Science Platform Presentation. AHA Scientific Sessions, Orlando, November, 2015.

163. Dykes JC, Peng DM, Almond CS, Barkoff L, Kaufman B, Bernstein D, Rosenthal DN, Hollander SA. Poverty is an Independent Risk Factor for Death following Pediatric Heart Transplant. Poster presentation at ISHLT, Washington, D.C., April, 2016.
164. Bock MJ, Pahl E, Rusconi PG, Boyle GJ, Parent JJ, Twist CJ, Kirklin JK, Pruitt E, Bernstein D. Cancer recurrence and mortality after pediatric heart transplantation for anthracycline cardiomyopathy. Platform presentation at ISHLT, Washington, D.C., April, 2016.
165. Hollander SA, Dykes J, Chen SH, Barkoff L, Rosenthal DN, Bernstein D, Kaufman BD. The end-of-life experience in pediatric heart transplant recipient. Poster presentation at ISHLT, Washington, D.C., April, 2016.
166. X. Tian, J. Kuang, D. Sudheendra, S. Reddy, M. Zhao, D. Bernstein, E.F. Spiekerkoetter. FK506 reduces right ventricular cardiac fibrosis in a BMP dependent manner. Submitted to ATVS, 2016.
167. Khush JJ, Grskovic M, Luikart H, Cohen G, Strehl C, Wylie J, Thompson K, Christie B, Collins J, Hiller D, Yee J, Bernstein D. Circulating Cell-Free DNA as a Non-Invasive Marker of Pediatric Heart Transplant Rejection. Platform presentation at ISHLT meeting, Washington, D.C., April, 2016.
168. Miller KK, Hua X, Deuse T, Hu X, Neofytou E, Renne T, Reichenspurner H, Schrepfer S, Bernstein D. Thalidomide treatment prevents chronic graft rejection after transplantation in rats. Platform presentation at ISHLT meeting, Washington, D.C., April, 2016.
169. Hollander SA, Peng DM, Mills M, Berry G, Fedrigo M, Chen S, Tyan DB, Bernstein D, Rosenthal DN. Avoidance of a C1q Positive Crossmatch Prevents Both Early & Late Antibody-Mediated Rejection in Pediatric Heart Transplant Recipients. ISHLT, San Diego, April, 2017.
170. Bernstein D, Carleton B, Ross C, Wu S, Wu J, Porteus M, Miller C, Jung G, Burrige P. hiPSC-cardiomyocytes to screen variants predictive of doxorubicin cardiotoxicity. Presentation at NIH R21/R33 Investigators Conference, Bethesda, MD, November, 2016.
171. Sutcliffe DL, Pruitt E, Cantor RS, Godown J, Lane J, Turrentine MW, Law SP, Lantz JL, Naftel DC, Kirklin JK, Bernstein D, Blume E.D. Post-Transplant Outcomes in Pediatric VAD Patients: A Pedimacs-PHTS Linkage Study. Platform presentation at ISHLT meeting, San Diego, April, 2017.
172. Kaufman B, Hollander SA, Chen SH, Bernstein D, Rosenthal DN, Almond C, Murray JM, Burgart AM, Choen HJ, Kirkpatrick JN, Blume ED. Compassionate Deactivation of Ventricular Assist Devices in Children: A Survey of Pediatric VAD Clinicians' Perspectives and Practices. Platform presentation at ISHLT meeting, San Diego, April, 2017.
173. Dykes JC, McElhinney DB, Bernstein D, Chrisant MR, Chen S, Daley KP, Amesuri RK, Knecht KR, Richmond ME, Lin KY, Urschel S, Simmonds J, Simpson KE, Almond CS, Chen S. Hemodynamics of the pediatric failing Fontan. Platform presentation at ISHLT, San Diego, April, 2017.

174. Kaufman BD, Tierney SE, Bernstein D, Chen SH, Dykes J, Hollander SA, Liang DH Maeda K, Priest J, Reinhartz O, Rosenthal DN, Almond C. Outcomes of US Patients with Marfan Syndrome Listed for Heart Transplantation. Poster presentation at ISHLT, San Diego, April, 2017.
175. Schroer A, Kooiker K, Adhikari A, Ruppel K, Bernstein D, Spudich J, Pruitt B. Visualizing human induced pluripotent stem cell derived cardiomyocytes sarcomere remodeling and force generation in tunable single cell platform. Biomedical Engineering Soc., Phoenix, October, 2017.
176. Schroer A, Kooiker K, Adhikari A, Ruppel K, Bernstein D, Spudich J, Pruitt B. Mechanobiology of myosin mutations and myofibril remodeling in iPSC-cardiomyocytes. Submitted to Biophysical Soc. 2018.
177. Potiny P, Haeffele C, Fernandes S, Romfh A, Rogers I, Bernstein D, Ingelsson E, Priest J. Congenital heart disease confers substantial risk of acquired cardiovascular disease amongst 502,638 British adults. Submitted to Amer. Coll. Cardiol., March, 2018.
178. Martinez OM, Krams SM, Lapasaran MG, Boyd S, Bernstein D, Twist C, Weinberg K, Armstrong B, Ikle D, Robien M, Esquivel CO for the CTOTC-06 Investigators. Prospective Analysis of EBV+ PTLD Incidence in Pediatric Transplant Recipients in the Modern Era. Presented at the *Amer. Transpl. Congress*, Seattle, June 2018.
179. Priromprintr B, Dubin A, Motonaga K, Perez M, Trela A, Goenawan N, Chen S, Hollander S, Almond C, Dykes J, Rosenthal D, Bernstein D, Kaufman B, Bulic A, Ceresnak S. Age and Risk of Sudden Death or Appropriate Implantable Cardioverter Defibrillator (ICD) Shock in Non-ischemic Dilated Cardiomyopathy. Poster resentation at *Heart Rhythm Society*, Boston, May 2018.
180. Saha P, Potiny P, Lui G, Romfh A, Bernstein D, Shaw GM, Ingelsson E, Priest J. Congenital heart disease confers substantial risk of acquired cardiovascular disease amongst 500,110 British adults. Moderated poster presentation at Amer. Coll. Cardiol. Orlando, March, 2018.
181. Schroer A, Kooiker K, Adhikari A, Pardon G, Blair C, Jung G, Ruppel K, Spudich J, Bernstein D, Pruitt B. Substrate patterning and stiffness affect dynamics of cell spreading, contraction, and myofibril stability in iPSC-cardiomyocytes with and without hypercontractile myosin mutations. Submitted to the World Congress of Biomechanics, 2018.
182. Haileselassie B, Joshi A, Mukherjee R, Napier B, Massis L, Ostberg N, Monack D, Bernstein D, Mochly-Rosen D. Role of Drp1-Fis1 mediated mitochondrial fragmentation in sepsis induced myocardial dysfunction. Submitted to Soc. Of Critical Care Med. Congress, 2019.

INVITED LECTURES

1. Innovative Strategies for the Correction or Palliation of Congenital Heart Disease. 13th Ross Seminar in Perinatal Medicine: Perinatal Cardiology. Santa Fe, NM, June, 1989.
2. Adaptations to Hypoxemia. Plenary presentation at 3rd World Congress of Pediatric

Cardiology, Bangkok, Thailand, November, 1989.

3. Indications for Pediatric Heart Transplantation. Post-graduate Program on Pediatric Heart Transplantation. American Heart Association, Dallas, TX, November, 1990.
4. Pediatric Heart Transplantation: 15 Years of Experience. University of California at San Francisco, 24th Annual Advances and Controversies in Clinical Pediatrics, San Francisco, CA, May 1991.
5. Platform Program Moderator: Cardiology. Society for Pediatric Research, Washington, May, 1991.
6. Advances in Treating Pediatric Heart Disease. Stanford University Centennial Program, Palo Alto, September, 1991.
7. Hypoplastic Left Heart Syndrome: Options for Treatment. Perinatal Potpourri. Mid-Coastal California Perinatal Outreach Program, Monterey, CA, March, 1992
8. Fetal and Neonatal Echocardiography. Perinatal Potpourri. Mid-Coastal California Perinatal Outreach Program, Monterey, CA, March, 1992
9. Advances in Pediatric Cardiology for the Practitioner. American Academy of Pediatrics California Chapter 1 Spring Meeting, Monterey, CA, May, 1992.
10. New Techniques in the Management of Congestive Heart Failure in Children. American Academy of Pediatrics California Chapter 1 Spring Meeting, Monterey, CA, May, 1992.
11. Is Heart Transplantation in Children Justifiable? American Academy of Pediatrics California Chapter 1 Spring Meeting, Monterey, CA, May, 1992.
12. Update on Cardiac Transplantation in Infants and Children. 1st World Congress of Pediatric Intensive Care, Baltimore, MD, June, 1992.
13. Coronary Artery Disease in Pediatric Heart Transplant Recipients: The Stanford Experience. Pediatric Heart and Lung Transplant Study Group. Dallas, November, 1992.
14. Platform Program Moderator: Neonatal Cardiology. Society for Pediatric Research, Washington, May, 1993.
15. Role of β -receptor subtypes in cardiac function: evaluation by transgenesis and targeted gene disruption. Smith-Kline Beecham Corp. King of Prussia, PA, June, 1993.
16. Interventional Cardiac Catheterization. Packard Children's Hospital Medical Conference, Palo Alto, July, 1993.
17. Alterations in Adrenergic Signal Transduction in Congenital Heart Disease. Annual Meeting of the American Academy of Pediatrics, Washington, October, 1993.
18. Total Lymphoid Irradiation as Therapy for Intractable Rejection in Pediatric Heart Transplant Patients. Pediatric Heart and Lung Transplant Study Group. Atlanta, November, 1993.

19. Management of Infants with Congenital Heart Disease. Mee Memorial Hospital Grand Rounds, King City, CA.
20. Cardiomyopathies in the Pediatric and Adult Patient: Diagnosis, Management, and Future Prospects. Moderator, American Heart Association Scientific Sessions, Dallas, November, 1994.
21. Resting and stressed cardiorespiratory parameters in the mouse: new tools for the assessment of adrenergic receptor biology. NIH Workshop on the Mouse as a Model for Cardiovascular and Pulmonary Research, Bethesda, April, 1995.
22. Total lymphoid irradiation as treatment for intractable rejection in adult and pediatric heart transplant recipients. American Association of Thoracic Surgeons Symposium on Transplantation, Boston, April, 1995.
23. Long-Term follow-up of pediatric heart transplantation: A multicenter study. Second Annual Workshop on Pediatric Cardiovascular Surgery, Laguna Niguel, CA. November, 1995.
24. Cardiovascular seminar: Structural and function assessment of transgenic mice. Moderator. American Heart Association, 68th Scientific Sessions, Anaheim, CA. November, 1995.
25. Cardiac adrenergic receptor physiology studied by targeted gene disruption. International Society for Heart Research XVIII Annual Meeting, Chicago, IL. June, 1996.
26. Transgenic Animal Models in the Study of Cardiac Function and Dysfunction. Co-chairperson. International Society for Heart Research XVIII Annual Meeting, Chicago, IL. June, 1996.
27. Transplant in the Older Child and Adolescent. California Society of Pediatric Cardiology. San Francisco, September, 1996.
28. Congestive Heart Failure in Children. "Save That Child" Pediatric post-graduate course. Makati Medical Center, Manila, The Philippines, October, 1996.
29. Long-term Follow-up of Congenital Heart Disease in Adults. Stanford Asia Cardiovascular Symposium. Manila, Philippines, October, 1996.
30. Pediatric Heart Transplantation in its Third Decade: Is it Worth it? California Pacific Medical Center Department of Pediatrics Grand Rounds, December, 1996.
31. Chest Pain, Syncope and Sudden Death in Adolescents: When to Worry? Society for Adolescent Medicine, San Francisco, March, 1997.
32. Long-term Follow-up of Patients with Congenital Heart Disease. Fifth Annual Pediatric Update, Packard Children's Hospital at Stanford, July, 1997.
33. Molecular and Cellular Mechanisms of Congestive Heart Failure. California Society of Pediatric Cardiology, September, Marina del Rey, CA, 1997.

34. Chest pain, syncope and sudden death in adolescents: when to worry? Fourth Annual Pediatric Update, Packard Children's Hospital at Stanford, July, 1998.
35. State of the Art Lecture on Signal Transduction: Adrenergic Receptors. Heart Failure Society of America Scientific Session, Boca Raton, FL, September, 1998.
36. Chest pain, syncope and sudden death in adolescents: when to worry? Pediatric Rounds. Salinas Valley Memorial Hospital, April, 1999.
37. Visiting Professor, Departments of Medicine and Pharmacology and Cell Biophysics. University of Cincinnati, May, 1999.
38. Role of β -adrenergic receptor subtypes in cardiovascular function and disease. Departments of Medicine and Pharmacology and Cell Biophysics. University of Cincinnati, May, 1999.
39. Role of β -adrenergic receptors in cardiomyopathy. Department of Pediatrics. University of Cincinnati, May, 1999.
40. Clicks, Rubs and Gallops: Sharpening Your Skills in Cardiac Auscultation. Sixth Annual Pediatric Update, Packard Children's Hospital at Stanford, July, 1999.
41. Postoperative Management of Heart Transplant Patients. IV International Workshop on Pediatric Cardiothoracic Surgery. San Diego, October, 1999.
42. How to Study Cardiovascular Function in Mice II: Exercise Physiology. American Heart Association Scientific Sessions, Atlanta, November, 1999.
43. Use of beta adrenergic antagonists in the treatment of congestive heart failure in children. Grand Rounds. University of California at Davis, December, 1999.
44. Update on Pediatric Heart Transplantation. Cardiology-Cardiothoracic Surgery Conference. University of California at Davis, December, 1999.
45. Pediatric Cardiac Transplantation. Y2K Cardiac Transplant Forum in Nagoya. Nagoya University School of Medicine. Toyoake, Aichi, Japan.
46. Analysis of Cardiac Function in Beta-Receptor Knockout Mice. California Society of Pediatric Cardiology Annual Meeting, Napa, September, 2000.
47. Novel Treatments for Heart Failure in Children: From Bench to Bedside to the Internet. Grand Rounds, Stanford University Department of Pediatrics, February 2001.
48. Pediatric Heart Transplantation: First Quarter Century of Experience. Grand Rounds, Santa Clara Valley Medical Center, February, 2001.
49. Evaluation of the Adolescent and Young Adult Patient with Congenital Heart Disease for Heart

- Transplantation. International Society for Heart and Lung Transplantation, Vancouver, April, 2001.
50. Congestive Heart Failure After Surgery for Congenital Heart Disease: Adolescents and Young Adults. 5th Annual Scientific Meeting of the Heart Failure Society of America, Washington, September, 2001.
 51. Management of Adolescents and Young Adults with Congenital Heart Disease. 5th Annual Scientific Meeting of the Heart Failure Society of America, Washington, September, 2001.
 52. Role of β -adrenergic receptor subtypes in cardioprotection/cardiotoxicity. Invited lecture in Topic Symposium: New strategies in pediatric heart failure: basic science to clinical practice. Society for Pediatric Research, Baltimore, May, 2002.
 53. Update on Pediatric Heart Transplantation. Nagoya University Medical Center. Nagoya, Japan, June, 2002.
 54. Update on Pediatric Heart Transplantation. Chiba University Medical Center. Chiba, Japan, July, 2002.
 55. Management of the Child with Arrhythmia. Update in Clinical Pediatrics: Advances in Practice. Hawaii, September, 2002.
 56. Advances in Pediatric Cardiology. Update in Clinical Pediatrics: Advances in Practice. Hawaii, September, 2002.
 57. Cardiogenic Shock in the Pediatric Patient. Innovations in Pediatric and Adult Critical Care. Hawaii, September, 2002.
 58. Phenotyping Mouse Cardiovascular Function and Development: Exercise Models. NIH Symposium on Phenotyping Mouse Cardiovascular Function and Development, Washington, October, 2002.
 59. Pediatric Heart Transplantation: Current Perspectives and Future Advances. Department of Anesthesiology Grand Rounds, Stanford University, May, 2004.
 60. A Quarter Century of Pediatric Heart Transplantation: Long-Term Accomplishments and New Directions. Department of Pediatrics, University of Iowa, Grand Rounds, April, 2005.
 61. From Linearity to Cross-Talk: The Role of Beta-Adrenergic Receptors in Cardiomyopathy. Visiting Professor, Department of Pediatrics, University of Iowa, April, 2005.
 62. Advances in the Management of Heart Failure in Children. 17th Annual Pediatric Update. Packard Children's Hospital at Stanford. July, 2005.

63. Innovations in Pediatric Cardiology: A Collaboration of Physicians, Scientists and Engineers. University of New Mexico, March, 2006.
64. 21st Century Innovations in Pediatric Cardiology: A Collaboration of Physicians, Scientists and Engineers. Grand Rounds, Santa Clara Valley Medical Center, March, 2006.
65. Treatment for the Failing Fontan. Transplantation: Perioperative and Long-term Management and Outcomes. American Heart Association Scientific Sessions, November, 2006.
66. Transplantation for the Failed Fontan Patient. Second International Conference on Heart Failure in Children and Young Adults. Laguna Niguel, November, 2006.
67. Advances in Pediatric Cardiology: A Collaboration Between Physicians, Scientists and Engineers. Pediatric Grand Rounds, Monterey Community Hospital, Monterey, CA, February, 2007.
68. Drug Discovery for Heart Failure: Role of β -Adrenergic Receptors in Mediating Cardiotoxicity vs. Cardioprotection. Dept. of Chemical and Systems Biology, Stanford University, May, 2007.
69. Heart Failure – Clinical, Molecular and Therapeutic Aspects (session chair), Pediatric Academic Societies Meeting, Toronto, May, 2007.
70. Advances in the Management of Heart Failure in Children. 17th Annual Pediatric Update. Packard Children's Hospital at Stanford. July, 2005.
71. Transplantation for the Failed Single Ventricle and Transposition of the Great Arteries. Evolving Concepts in the Management of Complex Congenital Heart Disease. San Diego, CA, October, 2007.
72. How Are They a Decade Later? Late Outcomes in Pediatric Heart Transplant Recipients (session chair), American Heart Association Scientific Sessions, Orlando, November, 2007.
73. When is the Murmur Innocent? Improving Your Cardiac Auscultation Skills. Packard Children's Hospital Pediatric Update, Hawaii, November, 2007.
74. How to Interpret Pediatric ECGs. Packard Children's Hospital Pediatric Update, Hawaii, November, 2007.
75. How Biomedical Technology is Transforming Pediatric Cardiology. Packard Children's Hospital Pediatric Update, Hawaii, November, 2007.
76. Beta Adrenergic Receptors Mediate Cardioprotective and Cardiotoxic Effects in Cardiomyopathy. Hadassah Medical Center, Department of Cardiology Research Series, January, 2008.
78. Minimizing Immunosuppression in Thoracic Transplantation Using Non-Invasive Monitoring. The Dream of Tolerance in Heart and Lung Transplantation Symposium. International Society for Heart and Lung Transplant, Boston, April, 2008.

79. Cell Surface Receptor Signaling in Heart Failure. American Heart Association Scientific Conference: The Scientific Basis of Heart Failure in Children, Estes Park, CO, May, 2008.
80. β -Adrenergic Subtypes Mediating Cardioprotective and Cardiotoxic Signaling. Jikei University, Tokyo, Japan, June, 2008.
81. Pediatric Cardiac Transplantation: Two Decades of Success and Future Challenges. Jikei University, Tokyo, Japan, June, 2008.
81. Cardiac Signaling Pathways Mediating Cardiotoxicity and Cardioprotection. Japanese Society of Pediatric Cardiology and Cardiac Surgery, Koriyama, Japan, July 2008.
82. Update on Pediatric Cardiac Transplantation. Care of the Child with Heart Disease. University of New Mexico, Albuquerque, September, 2008.
83. From Linearity to Crosstalk: The Role of G Protein-Coupled Receptors in Cardiotoxicity and Cardioprotection. Department of Medicine (Cardiology), John Burns School of Medicine, University of Hawaii, Honolulu, December, 2008.
84. Pediatric Cardiac Transplantation: The Next 25 Years. At "Evolving Concepts in the Management of Complex Congenital Heart Disease II." San Diego, CA, January, 2010.
85. "Genetic Mechanisms of Anthracycline Cardiotoxicity and Cardioprotection" Canadian Pharmacogenomics Network for Drug Safety. University of British Columbia, Vancouver, May, 2010.
86. Adrenergic Signaling: The Good, the Bad and the Ugly. Second International Conference on Cardiomyopathy in Children. Bethesda, MD, May, 2010.
87. Pediatric Heart Transplantation: Long-term Successes and Future Challenges. Department of Pediatrics, University of Oregon. August, 2010.
88. Screening Electrocardiograms in Pediatrics. Pediatric Grand Rounds, Sierra Vista Hospital, San Luis Obispo, CA. October, 2010.
88. Mining the Genome for Clues to the Mechanisms for Hypertrophy and Heart Failure: Are These Models Relevant to Pediatric Cardiology. Invited commentary, American Heart Association Scientific Sessions, Chicago, IL. November, 2010.
89. Imaging Animal Models for Basic Research in Pediatric Heart Disease. 8th Society for Pediatric Radiology Symposium on Pediatric Cardiovascular MR. Palo Alto, CA, January, 2011.
90. Recommendations for Cardiac Screening in Pediatrics: Adolescent Athletes and Children Taking ADHD Medications. Packard Children's Hospital 19th Annual Pediatric Update, Palo Alto, July, 2011.
91. Heart Transplantation for Congenital Heart Disease: When is it the Right Time? Evolving Concepts in the Management of Complex Congenital Heart Disease III. San Diego, January, 2012.

92. When to List the Failing Fontan Patient for Transplantation? International Society for Heart and Lung Transplantation, Prague, April, 2012.
93. Animal Models of the Vulnerable Right Ventricle. Scientific Innovations in Pediatric and Congenital Heart Disease, sponsored by the Oak Foundation, Palo Alto, April 2012.
94. Enhancing your Cardiac Physical Exam and ECG Reading Skills. 20th Annual Pediatric Update. Packard Children's Hospital, Stanford, July, 2012.
95. Regulation of Cardiotoxic/Cardioprotective Signaling in Heart Failure. University of Cincinnati, October, 2012.
96. Pediatric Heart Transplantation: Challenges for the Next Quarter Century. University of Cincinnati, October, 2012.
97. β -adrenergic Receptors as a Model for Studying Mechanisms of Cardiotoxicity and Cardioprotection. Florida Atlantic University, November, 2012.
98. Now that β -adrenergic receptors are sexy again...how do they really regulate cardiotoxicity and cardioprotection? Cyotkinetics Corp. South San Francisco, CA, January, 2013.
99. Mechanisms and Pathophysiology of Heart Failure in Children. International Society for Heart and Lung Transplantation Academy. Montreal, April, 2013.
100. The Failing Systemic Right Ventricle. Plenary presentation for the International Society for Heart and Lung Transplantation. Montreal, April, 2013.
101. Pediatric Heart Transplantation: Long-Term Successes and Future Challenges. Boston Children's Hospital, June, 2013.
102. Regulation of Cardiotoxic/Cardioprotective Signaling in Heart Failure. Boston Children's Hospital, June, 2013.
103. New Insights Into Anthracycline Induced Cardiotoxicity. International Society for Heart Research, San Diego, CA, July, 2013.
103. Specific molecular pathways and targeted therapy of right ventricular failure. Invited presentation at the American Heart Association Scientific Sessions, Dallas, November, 2013.
104. Regulation of Cardiotoxic/Cardioprotective Signaling in Heart Failure. Cedars-Sinai Medical Center, January, 2014.
105. Human Induced Pluripotent Stem Cells: Applications for Treating Pediatric Heart Disease. Grand Rounds. Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, April, 2014.
106. New Concepts in the Mechanisms and Pathophysiology of Heart Failure in Children. Dennison Young Symposium, New York Society of Pediatric Cardiology. April, 2014.

107. Shaky Ground: Can We Say No Without Fear of Legal Action? Invited presentation at International Society for Heart Lung Transplantation. San Diego, CA, April, 2014.
108. Role of Pharmacogenomics in Doxorubicin Cardiotoxicity. Pediatric Academic Societies Meeting, May, 2014.
108. Maturation of Cell Signaling in hiPSC-CMs: Regulators of Function and Structure. Invited presentation at International Society for Heart Research, May, 2014.
109. Patient-Specific Pluripotent Stem Cells in Doxorubicin Cardiotoxicity: A New Window into Personalized Medicine. Invited presentation at 3rd Annual Conference on Cardiomyopathy in Children. Bethesda, MD, May, 2014.
110. Mechanisms and Pathophysiology of Heart Failure in Children. Visiting Professor, Sophia Children's Hospital, Erasmus Medical Center, Rotterdam, The Netherlands, May, 2014.
111. Legal and Ethical Implications of Palliative Care Decisions in Pediatric Heart Failure. Invited presentation at American Heart Association Scientific Sessions, Chicago, November, 2014.
112. Stem Cell-Derived Cardiomyocytes: Indications Beyond Ischemic Heart Disease. Borun Lecture, Department of Medicine (Cardiology), UCLA Medical Center, December, 2014.
113. Stem Cell-Derived Cardiomyocytes to Validate GWAS Variants Predictive of Anthracycline Cardiotoxicity. 6th Pediatric Pharmacogenomics and Personalized Medicine Conference, Kansas City, April, 2015.
114. Human induced pluripotent stem cells: Applications for treating pediatric heart disease. Moscow State Scientific Center for Cardiovascular Surgery, Moscow, Russia, May, 2015.
115. The role of mitochondrial dynamics in health and disease. Moscow State Scientific Center for Cardiovascular Surgery, Moscow, Russia, May, 2015.
116. Right ventricular failure in patients with congenital heart disease. First Children's Hospital, St. Petersburg, Russia, May, 2015.
117. Human induced pluripotent stem cells: Applications for treating pediatric heart disease. North-West State Medical University, St. Petersburg, Russia, May, 2015.
118. Validating GWAS Variants Using Patient-Derived Induced Pluripotent Stem Cells. Invited presentation at the Annual Meeting of the Canadian Society of Pharmacology and Therapeutics, Toronto, June, 2015.
119. hiPSC-Cardiomyocytes to Screen Variants Predictive of Doxorubicin Cardiotoxicity. Stanford University Mass Spectrometry Research Applications Symposium. October, 2015.
120. State of the Future for Pediatric Pharmacogenomics and Genomic Medicine. Frontiers in Cardiovascular Research. Stanford Cardiovascular Institute, October, 2015.

121. Human Induced Pluripotent Stem Cells: The Future for Treating Pediatric Heart Disease? Lucile Packard Children's Hospital at Stanford. Grand Rounds, October, 2015.
122. Adrenergic signaling: the good, the bad and the ugly. Innovations in Pediatric Heart Failure. San Diego, December, 2015.
123. The Failing Single Ventricle: When to Refer for Transplantation? 2016 Stanford Solid Organ Transplant Symposium. Palo Alto, June, 2016.
124. Of Mice and Men: Studying Heart Failure Through Animal Models. Keynote presentation at the International Pediatric VAD Summit 2016, Boston, MA. October, 2016.
125. hiPSC-Derived Cardiomyocytes in Pharmacogenomics and Drug Discovery. Cardiology Grand Rounds, University of Colorado, Denver, March, 2017.
125. It's Not Just the Heart: Multi-Organ Transplantation in Fontan Patients. Invited presentation at International Society for Heart and Lung Transplantation Scientific Sessions, San Diego, April, 2017.
126. hiPSC-CMS as a Platform of Understanding the Genetic Susceptibility for Doxorubicin-Induced Cardiotoxicity. NIH Progenitor Cell Biology Consortium Cardiac Workshop, Stanford, CA April 2017.
127. hiPSC-Derived Cardiomyocytes in Pharmacogenomics and Drug Discovery. Stanford Cardiovascular Pharmacology Division and Biomaterials and Advanced Drug Delivery Laboratory Seminar Series. May, 2017.
128. History of the Stethoscope. Interview for 99% Invisible Podcast. July, 2017.
128. Will Stem Cells Cure Heart Disease: Opportunities, Challenges and Fake News. Presented at Pediatric Echocardiography Conference, Packard Children's Hospital, August, 2017.
130. Lifestyle Issues Before and After Transplant. Panel presenter at Pediatric Heart Transplant Summit 2017: Contemporary Challenges and Future Directions. University of Washington, Seattle, September, 2017.
131. The Future of Pediatric Heart Transplantation. Panel presenter at Pediatric Heart Transplant Summit 2017: Contemporary Challenges and Future Directions. University of Washington, Seattle, September, 2017.
129. Stem Cells For Regenerative and Personalized Medicine. Classes Without Quizzes at Stanford Reunion Homecoming Weekend, October, 2017.
130. Genome Editing of Human iPSCs Using CRISPR/Cas9 for Understanding Hypertrophic Cardiomyopathy. Invited presentation. American Heart Association Scientific Sessions, Anaheim, November, 2017.
131. High-throughput Imaging of Single Cell and Individual Mitochondrion Functional Heterogeneity: Recovering Lost Information. Stanford-Merck Scientific Exchange, March, 2018.

132. Thanks to Dr. Shumway. International Pediatric VAD and Heart Failure Summit. Stanford, September. 2018.
133. Reading Pediatric EKGs. Popular Pediatric Clinical Topics 2018. Stanford CME Conference. Maui, HI October, 2018.
134. Pre-Athletic Screening for Cardiac Disease: What is the Current Approach? Stanford CME Conference. Maui, HI October, 2018.
133. Mitochondrial Fission and Cardiac Adaption. Invited presentation at American Heart Association Scientific Sessions, Chicago, November, 2018.
134. Medical Education at Stanford University. Transforming Medical Education. University of Ulsan College of Medicine, Seoul, South Korea, December, 2018.

RESEARCH TRAINEES

- Charles Crane, M.D. (Medical Student) 1987-1988
 Sarnoff Fellow, Duke University Medical Student
 "Alterations in Regional Blood Flow with Catecholamines"
 Current affiliation Practice of Internal Medicine, Sandpoint, Idaho.
- Sheila Huang-Humphries, M.D. (Medical Student) 1988-1989
 Stanford University Medical Student Scholar Award
 "Myocardial β -adrenergic Receptor Regulation with Chronic Hypoxemia"
 Current affiliation: Practice of Internal Medicine, Los Altos, CA.
- Rahul Doshi, M.D. (Medical Student) 1989-1990
 American Heart Association Medical Student Research Fellow
 "Transcriptional Regulation of Cardiac β -receptors During Chronic Hypoxemia"
 Current affiliation: Associate Professor of Medicine, Director of Electrophysiology,
 University of Southern California School of Medicine.
- Srinivas Kolla, M.D. (Medical Student) 1989-1990
 Stanford University Medical Student Scholar Award
 "Regional And Global Left Ventricular Geometry and Function During Chronic
 Right Ventricular Pressure Overload"
 Current affiliation: Cardiothoracic Surgery, Rockford, IL.
- Dana Duncan (Undergraduate Student) 1991-1993
 American Heart Association Undergraduate Student Fellow
 "Developmental Alterations in Cardiac Troponin I"
 Current affiliation: Pediatrics, San Jose, CA.
- Jeffrey Jasper, Ph.D. (Post-doctoral Fellow) 1990-1993
 Developmental and Neonatal Biology Training Program Fellow
 "Signal Transduction Modulated by β -Adrenergic Receptors and G Proteins"
 Current affiliation: Vice President, Preclinical Sciences, Revolution Medicines,
 Redwood City, CA; Co-founder, Altos Therapeutics, Los Altos, CA.
- Erik Strandness, M.D. (Post-doctoral Fellow) 1991-1995
 Clinician Scientist, American Heart Association
 "Perinatal Regulation of the Hypertrophic Response"
 Current affiliation: Neonatologist, Spokane, WA.

- Ray Sato, M.D. (Post-doctoral Fellow) 1993-1995
 Neonatology Fellow
 "Cardiorespiratory Physiology in Transgenic Mice"
 Current affiliation: Neonatologist, Seattle, WA.
- Lucy Ruwitch, M.D. (Medical Student) 1997-present
 Stanford University Medical Student Scholar
 "Exercise Conditioning in the β 1-adrenergic Receptor Knockout Mouse"
 Current affiliation: Oncologist, Portland, OR.
- Eric Schauble, M.S. (Graduate Student) 1997-present
 Graduate Student in Human Biology, Stanford University
 "Role of β -adrenergic receptors in the exercise response"
 Current affiliation: Vice-President, Corporate Development, Colibri Heart Valve, Broomfield, CO.
- Kavin Desai, M.D. (Post-doctoral Fellow) 1991-present
 Clinician-Scientist Award, American Heart Association
 Developmental and Neonatal Biology Training Program Fellow
 " β -receptor Desensitization In Vivo Studied By Gene Modification".
 Current affiliation: Staff Physician, Stanford University
- Daniel Rohrer, Ph.D. (Post-doctoral Fellow) 1994-1997
 Howard Hughes Medical Research Fellow
 "Cardiac β -adrenergic receptor signaling studied by targeted gene disruption"
 Current affiliation: Senior Director, Bristol-Meyers Squibb, Redwood City, CA.
- Chu-Chuan Lin, M.D. (Post-doctoral Fellow) 1999-2000
 Visiting Research Fellow
 "The Role of β -adrenergic Receptors in Regulating Heart Rate Variability"
 Current affiliation: Dept. of Pediatrics, Veterans General Hospital, Kaohsiung, Taiwan, R.O.C.
- Phillip Ecker, M.D. (Medical Student) 2000-2001
 Stanford University Medical Student Scholar
 "Effect of targeted deletions of β 1 and β 2 adrenergic receptor subtypes on heart rate variability."
 Current affiliation: Dermatology, Plymouth, MN.

- Amy Chow, B.S. (Undergraduate and Medical Student) 1999-2002
Stanford Undergraduate and Medical Student
“Influence of β -adrenergic receptors on cardiac hypertrophy”
Current affiliation: Pediatrics, Dublin, CA.
- Giovanni Fajardo, M.D. (Post-doctoral Fellow) 2001-2003
American Heart Association Post-Doctoral Fellowship Awardee
“Cardioprotective/cardiotoxic role of β -adrenergic receptors”
Current affiliation: Research Associate, Department of Pediatrics, Stanford University.
- Michael Ross, B.S. (Medical Student) 2002-2005
University of Chicago Medical Student Research Fellowship
“Ten and Twenty-Year Survivors After Pediatric Heart Transplantation”
Current affiliation: Cardiologist, DuPage Medical Group, Chicago
- Mariska Kemna, M.D. (Post-doctoral Fellow) 2003-2007
“Beta-blockers in Right Ventricular Failure in Patients with Pulmonary Hypertension”
Current affiliation: Associate Professor of Pediatrics (Cardiology), University of Washington
- Takashi Urashima, M.D. (Post-doctoral Fellow) 2004-2007
Research Fellow
“Dyssynchrony and Gene Expression Changes in a Murine Model of Pulmonic Stenosis”
Current Affiliation: Associate Professor of Pediatrics (Cardiology), The Jikei University School of Medicine, Tokyo, Japan.
- Sara Farahani, M.S. (Undergraduate Student) 2006-2007
Stanford University Undergraduate Student
American Heart Association Summer Student Research Fellowship
Current affiliation: Medical Student, University of Indiana.
- James Norman, Ph.D. (Post-doctoral Fellow) 2007-2009
Research Fellow in Bioengineering
Stanford Cardiovascular Institute Fellowship Award
“Functional Assessment of Primary and Embryonic Stem Cell Derived Cardiomyocytes.”
Current affiliation: Director of Life Sciences Analytics, Warner Babcock Research Institute for Green Chemistry, Wilmington, MA.

- Viswanathan Rajagopalan, Ph.D. (Post-doctoral Fellow) 2008-2012
Research Fellow
“Role of the proteasome in hypertrophy and angiogenesis”
Current Affiliation: Assistant Professor, Department of Basic Sciences,
New York Institute of Technology College of Osteopathic Medicine, Old Westbury, NY.
- Keekyoung Kim, Ph.D. (Post-doctoral Fellow) 2009-2010
Research Fellow in Bioengineering
“Biomechanical Profiling of Primary and Embryonic Stem Cell Derived Cardiomyocytes.”
Current Affiliation: Assistant Professor, University of British Columbia, Canada.
- Sushma Reddy, M.D. (Instructor) 2009-2013
Instructor of Pediatrics (Cardiology), Stanford University
“Role of microRNAs in RV remodeling during pressure and volume overload.”
Current Affiliation: Assistant Professor of Pediatrics (Cardiology), Stanford University.
- Michael Coronado, Ph.D. (Post-doctoral Fellow) 2012-present
Research Fellow in Cardiac Biology
NIH T32 Research Training in Myocardial Biology at Stanford Fellow
“Role of adrenergic signaling in regulating mitochondrial structure and function and mitophagy.”
Current Affiliation: Assistant Professor of Biology, Whitman College.
- Sharon Chen, M.D. (Post-doctoral Fellow) 2012-present
Fellow in Pediatric Cardiology
“Risk factors of late de novo humoral rejection after solid organ transplantation.”
Current Affiliation: Clinical Assistant Professor, Stanford University.
- Eddie Blay, M.D. (Medical Student) 2012-2013
Howard Hughes Medical Student Research Fellow
“Role of microRNAs in right ventricular failure.”
Current Affiliation: Research Fellow, Department of Surgery, Feinberg School of
Medicine, Northwestern University, Chicago.
- Gwanghyun (Gina) Jung, Ph.D. (Post-doctoral Fellow) 2013-2018
Research Fellow in Pediatric Cardiology
Oak Foundation Fellow, F32 Recipient
“Cell signaling pathways in iPSC-derived cardiomyocytes.”

- Kristina Bezold, Ph.D. (Post-doctoral Fellow) 2014-2017
Research Fellow in Cardiac Biology
NIH T32 Research Training in Myocardial Biology at Stanford Fellow
Modeling Hypertrophic Cardiomyopathy Using hiPSC-Cardiomyocytes
Current Position: Research Associate, University of Washington, Seattle, WA.
- Vanessa Voltarelli (Graduate Student) 2015-2016
Visiting Graduate Student
School of Physical Education and Sport, University of São Paulo
São Paulo, Brazil
Training grant from Conselho Nacional de Desenvolvimento Científico e Tecnológico,
Ministry of Science, Technology and Innovation of Brazil
“Role of mitochondrial dynamics in skeletal muscle adaptation to exercise.”
- Nefthi Sandeep, M.D. (Post-doctoral Fellow) 2015-2016
Pediatric Cardiology Fellow
“Biomarkers in Right Ventricular Failure”
Current Position: Pediatric Cardiologist, Swedish Medical Center, Seattle, WA.
- Kazuki Kodo, M.D. (Post-doctoral Fellow, co-mentor with Dr. Joe Wu) 2012-2015
Fellow, Stanford Cardiovascular Institute
“hiPSC-CMs to determine mechanisms of LV non-compaction cardiomyopathy”
Current Position: Assistant Professor, Department of Pediatrics, Keio University, Tokyo, Japan
- Alison Schroer, Ph.D. (Post-doctoral Fellow) 2018-2019
Research Fellow in Cardiac Biology
NIH T32 Research Training in Myocardial Biology at Stanford Fellow
Modeling Hypertrophic Cardiomyopathy Using hiPSC-Cardiomyocytes
- Sara Ranjbarvaziri, Ph.D. (Post-Doctoral Fellow) 2018-2020
Research Fellow in Cardiac Biology
NIH T32 Research Training in Myocardial Biology at Stanford Fellow
Modeling Hypertrophic Cardiomyopathy Using hiPSC-Cardiomyocytes