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
Medical License:	G050857 (California)

B. ACADEMIC HISTORY

EDUCATION

Undergraduate:

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

Medical School:

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

POST-DOCTORAL AND RESIDENCY TRAINING

Residency:

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

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

Fellowships:

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

POST-DOCTORAL AND RESIDENCY TRAINING (CONTINUED)

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

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	2002-2004

C. EMPLOYMENT (Continued)

Alfred Woodley Salter and Mabel G. Salter 2004-present
Endowed Professor of Pediatrics
Stanford University School of Medicine
Stanford, California

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

MEMBERSHIPS AND COMMITTEES (Extramural, continued)

Co-Chair, Scientific Council on Pediatric Transplantation, International Society for Heart and Lung Transplantation	1998-2000
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-present
Board of Directors Ronald McDonald House at Stanford	2011-present

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

REVIEWS AND EDITORSHIPS (Continued)

	JOURNAL
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
Consulting Editor, Pediatric Research	2004-2010
Guest Editor, Circulation	2007-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 1992-2000
Department of Pediatrics

MEMBERSHIPS AND COMMITTEES (Intramural Continued)

Curriculum Committee 1992-2000
Department of Pediatrics

Medical Board 1994-2011
Packard Children's Hospital at Stanford

Advisory Committee, 1995-2000
NIH Child Health Research Center at Stanford

Steering Committee 1996-1997
Pediatric Hospital Integration Pilot

Operations and Program Development Comm. 1997-2002
LPCH Children's Services

Physician Management Committee 1997-2002
LPCH Children's Services

Steering Committee 1997-2000
Children’s Services
UCSF/Stanford Health Services

Operating Committee 1998-2000
Children’s Cardiac Service Line
UCSF/Stanford Health Services

Capital Budget Committee 2000-2008
LPCH Children’s Hospital at Stanford

Biotechnology Steering Committee 2003-3006
LPCH Children’s Hospital at Stanford

Operations Committee
LPCH Children’s Hospital at Stanford 2004-3007

Committee on Conflict of Interest
Stanford University School of Medicine 2005-present

Finance Committee, Faculty Practice
Organization
LPCH Children’s Hospital at Stanford 2006-2011

Executive Committee, Faculty Practice 2006-2011

Organization
LPCH Children's Hospital at Stanford

MEMBERSHIPS AND COMMITTEES (Intramural Continued)

Executive Committee, Stanford Cardiovascular Institute	2005-2007
Co-Chair, Cardiomyopathy and Transplant Working Group, Stanford Cardiovascular Institute	2006-present
Steering Committee, Stanford Cardiovascular Institute	2007-present

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

GRANTS (ACTIVE)

Children's Heart Foundation 2012-2013
"Micro RNAs in the Stressed Right Ventricle"
Daniel Bernstein, M.D. – P.I.
Sushma Reddy, M.D. – Co-P.I.

National Institutes of Health 2010-2013
"Genome Transplant Dynamics: Non-invasive sequencing-based diagnosis of rejection"
Hannah Valantine, M.D. – P.I.
Daniel Bernstein, M.D. – Co-P.I. (10% effort)

National Institutes of Health 2011-2015
"Research Training in Myocardial Biology at Stanford" (T32 Training Grant)
Daniel Bernstein, M.D. – P.I. (10% effort)
Tom Quertermous, M.D. – P.I. (10% effort)

GRANTS PENDING

National Institutes of Health "Apelin-APJ Signaling in Cardiovascular Development and Function" Euan Ashley, M.D. – P.I. Daniel Bernstein, M.D. – Co-P.I. (5% effort)	2011-2015
National Institutes of Health "Molecular Mechanisms of Right Ventricular Remodeling" Daniel Bernstein – P.I. (20% effort)	In preparation, 2012
National Institutes of Health R01 HL061535 "Role of ß-adrenergic receptors in cardiomyopathy" Daniel Bernstein – P.I. (20% effort)	Renewal n preparation, 2012

GRANTS (PAST)

National Institutes of Health 2007-2011
R01 HL061535
"Role of Beta-Receptor Signaling in Cardiomyopathy"
Daniel Bernstein, M.D. – P.I. (20% effort)

National Institutes of Health 2008-2011
"Protein Kinase C Isozymes in the Ischemic Heart"
1 RO1 HL052141
Daria Mochly-Rosen – P.I.
Daniel Bernstein – Co-P.I. (5% effort)

Stanford Comprehensive Cancer Center 2007-2009
Translational Research Grant
"Signaling Polymorphisms and Doxorubicin Cardiomyopathy."
Daniel Bernstein – P.I.

National Institutes of Health 2004-2009
"Hypertrophy, Heart Failure and PKC"
1 RO1 HL076675
Daria Mochly-Rosen – P.I.
Daniel Bernstein – Co-P.I. (5% effort)

Stanford Bio-X Interdisciplinary 2008-2010
Initiatives Program Award
"Functional Assessment of Primary and Embryonic Stem Cell-Derived Cardiomyocytes."
Daniel Bernstein, M.D. – P.I.

Stanford Pediatric Health Research Fund 2006
"Role of ß-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 (HL-O2-027) 2004-2008
Optimizing Outcome After Pediatric Heart Transplantation (SCCOR)
1 P50 HL074732
Steve Webber, P.I. (Univ. of Pittsburgh)
Daniel Bernstein- Stanford Co-P.I. (5% effort)

National Institutes of Health 1999-2005
"Role of ß-Receptor Signaling in Cardiomyopathy"
Daniel Bernstein, M.D. – P.I. (25% 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.

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.

GRANTS (PAST, CONTINUED)

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.

Grant-in-Aid: 1992-1994
"Regulation of Signal Transduction by G Protein Translocation"
American Heart Association, California Affiliate.
Daniel Bernstein, M.D.- P.I.

Program in Molecular and Genetic Medicine 1992-1994
Director's Research Award:
"Role of ß-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) 1992-1997
"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)

Biomedical Research Support Grant 1989-1990
National Institutes of Health (RR05353)
P.I. = Daniel Bernstein, M.D.

American Heart Association Medical Student 1989-1995
Research Fellowship Program
P.I. = Daniel Bernstein, M.D.

FIRST Award: 1988-1993
"Myocardial ß-Receptor Regulation in Chronic Hypoxemia"
National Institutes of Health (HL38741)
P.I. = Daniel Bernstein, M.D.

Biomedical Research Support Grant 1986-1987
National Institutes of Health (RR 05353)
P.I. = Daniel Bernstein, M.D.

Individual National Research Service Award 1985-1986
National Institutes of Health (HL07143)

PEER REVIEWED PUBLICATIONS

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 ß-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 ß-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 G_s-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 ß-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.

29. Boucek MM, Bernstein D. Infant heart transplantation. *Progress in Pediatric Cardiology*. 2:20-28, 1993.

30. Baum D, Bernstein D. Pediatric heart transplantation: complications. *Progress in Pediatric Cardiology.* 2:29-33, 1993.

31. 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 (Pt. 2): S319-27, 1993.

32. Sarris GE, Smith JA, Bernstein D, Griffin ML, Pitlick PT, Baum D, Billingham ME, Oyer PE, Stinson EB, Starnes VA; Reitz, BA. Pediatric cardiac transplantation. The Stanford experience. Circulation, 90:II51-5, 1994.

33. Smith JA, Desai K, Bernstein D, Reitz BA. Successful thrombolysis of a thrombosed St. Jude Medical mitral prosthesis in a two-month-old infant. *J. Thorac. Cardiovasc. Surg.* 108:187, 1994.

34. Jasper JR, Desai KH, Insel PA, Bernstein D. Colchicine and cytochalasin B enhance hormone dependent and independent stimulation of cAMP accumulation via post-receptor actions. *J. Pharmacol. Exper. Therap.* 274: 937-942, 1995.

35. Robbins RC, Chin C, Yun KL, Berry GJ, Bernstein D, Reitz BA. Arterial switch and resection of hepatic hemangioendothelioma. *Ann. Thorac. Surg.* 59:1575-7, 1995.

36. Robbins RC, Bernstein D, Berry GJ, VanMeurs KP, Frankel LR, Reitz BA. Cardiac transplantation for hypertrophic cardiomyopathy associated with Senger's syndrome. *Annals of Thoracic Surgery* 60:1425-1427, 1995.

37. Rohrer DK, Desai K, Jasper JR, Stevens ME, Regula DP, Barsh GS, Bernstein D, Kobilka BK. Targeted disruption of the mouse ß1-adrenergic receptor gene: developmental and cardiovascular effects. *Proc. Natl. Acad. Sci. (USA)* 93: 7375-7380, 1996.

38. Link RE, Desai K, Hein L, Stevens MS, Chruscinski A, Bernstein D, Barsh GS, Kobilka, BK. Cardiovascular regulation in α2-adrenoceptor subtypes B and C knockout mice. *Science*, 273:803-5, 1996.

39. Desai K, Sato R, Barsh G, Kobilka B, Bernstein D. Cardiovascular indexes in the mouse at rest and with exercise: new tools to study models of cardiac disease. *Amer. J. Physiol.*, 272: H1053-1061, 1997.

40. Strandness E, Bernstein D. Developmental and afterload stress regulation of heat shock proteins in the ovine myocardium. *Pediatr. Res.*, 41: 51-56, 1997.

41. Sigfusson G, Fricker FJ, Bernstein D, Addonizio LJ, Baum D, Hsu DT, Chin C, Miller SA, Boyle GJ, Miller J, Lawrence KS, Douglas JM, Griffith BP, Reitz BA, Michler RE, Rose EA, Webber SA. Long term survivors of pediatric heart transplantation: a multicenter report of 68 children who have survived greater than five years. *J. Pediatrics* 130: 862-871, 1997.

42. Maxwell AJ, Schauble E, Bernstein D, Cooke JP. Limb blood flow during exercise is dependent upon nitric oxide. *Circulation* 98:369-374, 1998.

43. DeAnda A Jr., Cahill JL, Bernstein D, Starnes VA, Reitz, BA. Elective Transplant Pneumonectomy. *Journal of Pediatric Surgery* 33: 655-6, 1998.

44. Rohrer D, Schauble E, Desai KH, Kobilka BK, Bernstein D. Alterations in dynamic heart rate control in the beta-1 adrenergic receptor knockout mouse. *Amer. J. Physiol.* 274: H1184-1193, 1998.

45. Rohrer DK, Bernstein D, Chruscinski A, Desai KH, Schauble E, Kobilka BK. "The Developmental and Physiological Consequences of Disrupting Genes Encoding ß1 and ß2 Adrenoceptors" *Adv. Pharmacol* 42:499-501, 1998.

46. Desai KH, Schauble E, Rohrer DK, Luo W, Kranias E, Bernstein D. Phospholamban deficiency does not compromise exercise capacity. *Amer. J. Physiol.* 45: H1172-1177, 1999.

47. Bernstein D and the APS/SPR Councils. American Pediatric Society/Society for Pediatric Research Code of Responsible Conduct of Research. *Pediatr. Res.* 45: 613-614, 1999.

48. Fricker FJ, Addonizio L, Bernstein D, Moucek M, Boucek R, Canter C, Chinnock R, Chin C, Kichuk M, Lamour J, Pietra B, Morrow R, Rotundo K, Shaddy R, Pahl-Schuette E, Schowengerdt K, Sondheimer H, Webber S. Heart Transplantation in Children: Indications. *Pediatr. Transplant*, 3:333-42, 1999.

49. Rohrer D, Chruscinski AJ, Schauble EH, Bernstein D, Kobilka BK. Cardiovascular and metabolic alterations in mice lacking both ß1- and ß2-adrenergic receptors. *J. Biol. Chem* 274: 16701-8, 1999.

50. Chruscinski AJ, Rohrer DK, Schauble EH, Desai KH, Bernstein D, Kobilka BK. Targeted Disruption of the ß2 Adrenergic Receptor Gene. *J. Biol. Chem.* 274:16694-700, 1999.

51. Dubin AM, Rosenthal DN, Chin C, Bernstein D. QT Dispersion Predicts Ventricular Arrhythmia I Pediatric Cardiomyopathy Patients Referred for Heart Transplantation. *J. Heart Lung Transplant.* 18: 781-785, 1999.

52. Niebauer J, Maxwell AJ, Lin PS, Tsao PS, Kosek J, Bernstein D, Cooke JP. Impaired aerobic capacity in hypercholesterolemic mice: partial reversal by exercise training. *Am. J. Physiol.* 276: H1346-54, 1999.

53. Chin C, Miller J, Robbins R, Reitz B, Bernstein D. The use of adult donors adversely affects survival in pediatric heart transplantation. *Pediatr. Transplant.* 3:309-314, 1999.

54. Altman JD, Trendelenburg AU, MacMillan L, Bernstein D, Limbird L, Starke K, Kobilka BK, Hein L. Abnormal regulation of the sympathetic nervous system in alpha2A-adrenergic receptor knockout mice. *Mol Pharmacol* 56:154-61, 1999.

55. Chin C, Akhtar MJ, Rosenthal DN, Bernstein D. Safety and utility of the routine surveillance biopsy in pediatric patients two years after heart transplantation. *J. Pediatr*, 136: 238-242, 2000.

56. Redfern CH, Degtyarev MY, Desai K, Lee EK, Kwa A, Coward P, Shah N, Warrington J, Fishman GI, Bernstein D, Baker AJ, Conklin BR. Conditional expression of a Gi-coupled receptor causes intraventricular conduction delay and a lethal cardiomyopathy. *Proc. Nat. Acad. Sci.*, 97:4826-4831 2000.

57. Chin C, Rosenthal D, Gamberg P, Bernstein D. Lipoprotein abnormalities are highly prevalent in pediatric heart transplant recipients. *Pediatric Transplantation* 4: 193-199, 2000.

58. Bernstein D. Heart transplantation in neonates: Achievements, controversies and challenges for the future. *NeoReviews*. 1, 2000.

59. Rosenthal D, Dubin AM, Chin C, Falco D, Gamberg P, Bernstein D. Outcome while awaiting heart transplantation in children: a comparison of congenital heart disease and cardiomyopathy. *J Heart Lung Transplant*. 19:751-755, 2000.

60. Lindner JR, Kahn ML, Coughlin SR, Sambrano GR, Schauble E, Bernstein D, Foy D, Hafezi-Moghadam A, Ley K. Delayed onset of inflammation in protease-activated receptor-2 (PAR-2) deficient mice. J. Immunology 165: 6504-6510, 2000.

61. Maxwell AJ, Ho HV, Le CQ, Lin PS, Bernstein D, Cooke JP. L-arginine enhances nitric oxide synthesis and aerobic exercise capacity. *J. Appl. Physiol.* 90: 933-938, 2001.

62. Dubin AM, Van Hare GF, Collins KK, Bernstein D, Rosenthal DN. Survey of Current Practices in Use of Amiodarone and Implantable Cardioverter Defibrillators in Pediatric Patients with End-Stage Heart Failure. *Amer. J. Cardiol.* 88:809-810, 2001.

63. Chin C, Gamberg P, Miller J, Luikart H, Bernstein D. Efficacy and safety of atorvastatin after pediatric heart transplantation. J. Heart Lung Transplant. 21: 1213-1217, 2002.

64. Bernstein D. Cardiovascular and metabolic alterations in mice lacking ß1 and ß2-adrenergic receptors. *Trends in Cardiovascular Medicine*, 12: 287-294, 2002.

65. Fleisher B, Baum D, Brudos G, Burge M, Carson E, Constantinou J, Duckworth J, Gamberg P, Klein P, Luikart H, Miller J, Stach B, Bernstein D. Infant heart transplantation at Stanford: Growth and neurodevelopmental outcome. *Pediatrics* 109: 1-7, 2002.

66. Chin C, Hunt S, Robbins R, Hoppe R, Reitz, B, Bernstein D, Long term follow-up after total lymphoid irradiation in pediatric heart transplant recipients. *J. Heart Lung Transplant*.21: 667-673, 2002.

67. Brum PC, Kosek J, Patterson A, Bernstein D, Kobilka BK. Abnormal cardiac function asssociated with sympathetic nervous system hyperactivity in mice. *Amer. J. Physiol.* 283: H1838-1845, 2002.

69. Bernstein D. Exercise assessment of transgenic models of human cardiovascular disease. *Physiol. Genomics* 13:217-26, 2003.

70. Collins KK, Thiagarajan RR, Chin C, Dubin AM, Bernstein D, Mazyer JE, Robbins RC, Van Hare GF, Berul CI, Blume ED. Atrial tachyarrhythmias and permanent pacing following pediatric heart transplantation. *J. Heart Lung Transplant* 22:1126-33, 2003.

71. Chin C, Naftel DC, Singh TP, Bulme ED, Luikart H, Bernstein D, Gamberg P, Kirlkin JK, Morrow WR. Risk factors for recurrent rejection in Pediatric Heart Transplantation: A Multicenter Experience. *J. Heart Lung Transplant.*, 23: 178-185, 2004.

72. Rosenthal DN, Chin C, Nishimura K, Perry SB, Robbins RC, Reitz B, Bernstein D, Feinstein JA. Identifying cardiac transplant rejection in children: diagnostic utility of echocardiography, right heart catheterization and endomyocardial biopsy data. *J. Heart Lung Transpl.* 23: 323-9, 2004

73. Bernstein D. New guidelines for prophylaxis of respiratory syncytial virus infection in infants with congenital heart disease. *Ped. Card. Today.* 2: 5-7, 2004.

74. Bernstein D. Linearity vs. Cross-talk: Biological models and the role of the Society for Pediatric Research in the 21st centurty. SPR Presidential Address. *Pediatr. Res.* 56: 177-83, 2004.

75. Zhao M, Chow A, Powers J, Fajardo G, Bernstein D. Microarray analysis of gene expression after transverse aortic constriction in mice. *Physiol. Genomics*. 19: 93-105, 2004.

76. Powers J, Bernstein D. The mouse as a model of cardiovascular adaptations to microgravity. *J. Appl. Physiol.* 97:1686-1692, 2004.

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114. Zhao M, Urashima T, Wagner R, Fajardo G, Farahani S, Kobilka BK, Bernstein D. Both ß1 and ß2-adrenergic receptors are required for pressure overload cardiac hypertrophy. Presentation at Cardiovascular Repair and Regeneratioin: Structureal and Molecular Approaches in the Cellular Era. Fourth annual symposium of the AHA Council on Basic Cardiovascular Research, Keystone, CO, August 2007.

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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.

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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, RTeinhartz 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 ß2-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, Quewrtermous T. Apelin regulates cardiac contractility and rescues neurohormonal heart failuire. 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

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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 ß2-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

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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 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 alteraions 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. Ca^{2+} and calmodulin-dependent protein kinase II mediates a

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temporal switch between cardiotoxic and cardioprotective signaling by ß2-adrenergic receptors. Poster presentation at AHA Basic Cardiovascular Science Meeting, New Orleans, July, 2012.

150. 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.

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 ß-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 ß-adrenergic receptor subtypes in cardiovascular function and disease. Departments of Medicine and Pharmacology and Cell Biophysics. University of Cincinnati, May, 1999.

39. Role of ß-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 ß-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 Physicans, Scientists and Engineers. Pediatric Grand Rounds, Monterey Community Hospital, Monterey, CA, February, 2007.

68. Drug Discovery for Heart Failure: Role of ß-Adrenergic Receptors in Mediating Cardiotoxicity vs. Cardioproction. 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 Ausculation 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. ß-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 Transplantion: 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.

91. When to List the Failing Fontan Patient for Transplantation? International Society for Heart and Lung Transplantation, Prague, April, 2012.

92. Animal Models of the Vulnerable Right Ventricle. Scientific Innovations in Pediatric and Congenital Heart Disease, sponsored by the Oak Foundation, Palo Alto, April 2012.

RESEARCH TRAINEES

Charles Crane, M.D. 1987-1988

Sarnoff Fellow, Duke University Medical Student

"Alterations in Regional Blood Flow with Catecholamines"

Sheila Huang-Humphries, M.D. 1988-1989

Stanford University Medical Student Scholar Award

"Myocardial ß-adrenergic Receptor Regulation with Chronic Hypoxemia"

Current affiliation: Private practice of Ob/Gyn

Rahul Doshi, M.D. 1989-1990

American Heart Association Medical Student Research Fellow

"Transcriptional Regulation of Cardiac ß-receptors During Chronic Hypoxemia"

Current affiliation: Fellow in Cardiac Electrophysiology, Cedars-Sinai Medical Center.

Srinivas Kolla, M.D. 1989-1990

Stanford University Medical Student Scholar Award

"Regional And Global Left Ventricular Geometry and Function During Chronic Right Ventricular Pressure Overload"

Current affiliaton: Fellow in Cardiovascular Surgery, University of Michigan, Ann Arbor, MI.

Dana Duncan 1991-1993

American Heart Association Undergraduate Student Fellow

"Developmental Alterations in Cardiac Troponin I"

Current affiliation: Resident in Pediatrics, Lucile Packard Children’s Hospital at Stanford.

Jeffrey Jasper, Ph.D. 1990-1993

Developmental and Neonatal Biology Training Program Fellow

"Signal Transduction Modulated by ß-Adrenergic Receptors and G Proteins"

Current affiliation: Director of Pharmacology, Cytokinetics, Inc., South San Francisco, CA.

RESEARCH TRAINEES (Continued)

Erik Strandness, M.D. 1991-1995
Clinician Scientist, American Heart Association
"Perinatal Regulation of the Hypertrophic Response"
Current affiliation: Neonatologist, Spokane, WA

Ray Sato, M.D. 1993-1995
Neonatology Fellow
"Cardiorespiratory Physiology in Transgenic Mice"
Current affiliation: Neonatologist, Seattle, WA.

Lucy Ruwitch, M.D. 1997-present
Stanford University Medical Student Scholar
"Exercise Conditioning in the ß1-adrenergic Receptor Knockout Mouse"
Current affiliation: Resident in Internal Medicine, Stanford University Hospital

Eric Schauble, M.S.. 1997-present
Graduate Student in Human Biology, Stanford University
"Role of ß-adrenergic receptors in the exercise response"
Current affiliation: WWMR, Inc. Los Altos, CA.

Kavin Desai, M.D. 1991-present
Clinician-Scientist Award, American Heart Association
Developmental and Neonatal Biology Training Program Fellow
"ß-receptor Desensitization In Vivo Studied By Gene Modification".
Current affiliation: Staff Physician, Stanford University

Daniel Rohrer, Ph.D. 1994-1997
Howard Hughes Medical Research Fellow
"Cardiac ß-adrenergic receptor signaling studied by targeted gene disruption"
Current affiliation: Senior Director, Bristol-Meyers Squibb

RESEARCH TRAINEES (Continued)

Chu-Chuan Lin, M.D. 1999-2000

Visiting Research Fellow

"The Role of ß-adrenergic Receptors in Regulating Heart Rate Variability"

Current affiliation: Dept. of Pediatrics, Veterans General Hospital, Kaohsiung, Taiwan, R.O.C.

Phillip Ecker, M.D. 2000-2001

Stanford University Medical Student Scholar

"Effect of targeted deletions of ß1 and ß2 adrenergic receptor subtypes on heart rate variability."

Current affiliation: Resident in Internal Medicine, University of Wisconsin School of Medicine

Amy Chow, B.S. 1999-2002

Stanford Undergraduate and Medical Student

"Influence of ß-adrenergic receptors on cardiac hypertrophy"

Current affiliation: Pediatric Resident, Lucile Packard Children's Hospital at Stanford.

Giovanni Fajardo, M.D. 2001-2003

American Heart Association Post-Doctoral Fellowship Awardee

"Cardioprotective/cardiotoxic role of ß-adrenergic receptors"

Current affiliation: Research Associate, Department of Pediatrics, Stanford University.

Michael Ross, B.S. 2002-2005

University of Chicago Medical Student Research Fellowship

"Ten and Twenty-Year Survivors After Pediatric Heart Transplantation"

Current affiliation: Medical Resident, New York Hospital

Takashi Urashima, M.D. 2004-2007

Research Fellow

"Dyssynchrony and Gene Expression Changes in a Murine Model of Pulmonic Stenosis"

RESEARCH TRAINEES (Continued)

Current Affiliation: Assistant Professor, Division of Pediatric Cardiology, Department of Pediatrics, The Jikei University School of Medicine, Tokyo, Japan.

Sara Farahani 2006-2007

Stanford University Undergraduate Student

American Heart Association Summer Student Research Fellowship

Current affiliation: Masters student in biology, University of Indiana.

James Norman, Ph.D. 2007-2009

Research Fellow in Bioengineering

Stanford Cardiovascular Institute Fellowship Award

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

Viswanathan Rajagopalan, Ph.D. 2008-present

Research Fellow

"Role of the proteasome in hypertrophy and angiogensis"

Keekyoung Kim, Ph.D. 2009-2010

Research Fellow in Bioengineering

"Biomechanical Profiling of Primary and Embryonic Stem Cell Derived Cardiomyocytes."

Sushma Reddy, M.D. 2009-present

Instructor in Pediatric Cardiology

"Role of microRNAs in RV remodeling during pressure and volume overload."