




Daniel Bernstein

Alfred Woodley Salter and Mabel Smith Salter Endowed Professor in Pediatrics

Pediatrics - Cardiology

 NIH Biosketch available Online

 Curriculum Vitae available Online

CLINICAL OFFICES

- **Heart Center**

725 Welch Rd Ste 120

Palo Alto, CA 94304

Tel (650) 721-2121

Fax (650) 497-8422

ACADEMIC CONTACT INFORMATION

- **Office of Medical Education**

Associate Dean for Curriculum and Scholarship

Email danb@stanford.edu

Tel 650-497-5448

Bio

CLINICAL FOCUS

- Pediatric Cardiology
- Pediatric Heart Transplantation
- Pediatric Heart Failure

ACADEMIC APPOINTMENTS

- Professor, Pediatrics - Cardiology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Faculty Fellow, Stanford ChEM-H

ADMINISTRATIVE APPOINTMENTS

- Associate Dean for Curriculum and Scholarship, Stanford University School of Medicine, (2018- present)
- Director, Children's Heart Center, Packard Children's Hospital at Stanford, (2001-2011)
- Chief, Division of Pediatric Cardiology, Stanford University, (1994-2011)

HONORS AND AWARDS

- Alfred Woodley Salter and Mabel G. Salter Endowed Professor of Pediatrics, Stanford University (April 2004-present)
- Best Lecture Award, Stanford University School of Medicine (2013)
- Stanford Stole, Stanford University Pediatric Cardiology (2014)
- President, Society for Pediatric Research (2002-3)
- Member, American Pediatric Society (2004-present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Board of Directors, Ronald McDonald House at Stanford (2011 - 2016)

PROFESSIONAL EDUCATION

- Fellowship: Albert Einstein College of Medicine Office of the Registrar (1983) NY
- Medical Education: New York University School of Medicine (1978) NY
- Residency: Montefiore Medical Center/Albert Einstein COM (1981) NY
- Board Certification: Pediatrics, American Board of Pediatrics (1984)
- Internship: Montefiore Medical Center/Albert Einstein COM (1979) NY
- Board Certification: Pediatric Cardiology, American Board of Pediatrics (1985)
- Fellowship: UCSF Medical Center (1986) CA

LINKS

- Murine CV Core Lab/Bernstein Lab Site: <http://murinecvcore.stanford.edu>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our lab has several major focuses:

1. The role of alterations in mitochondrial structure and function in normal physiology (such as exercise) and in disease such as dilated and hypertrophic cardiomyopathy.
2. Single cell analysis of mitochondrial function reveals significant heterogeneity.
3. Differences between right and left ventricular responses to stress and in their modes of failure, including gene expression and miR regulation.
4. Using iPSC-derived cardiomyocytes to develop a better understanding of hypertrophic cardiomyopathy and congenital heart disease.
5. Use of iPSC-CMs in pharmacogenomics, specifically determining the role of gene variants in doxorubicin cardiotoxicity.

Specific projects underway in our lab include:

1. Alterations of mitochondrial structure and function, including processes of mitofusion, mitofission, autophagy and mitophagy, in normal physiology and disease.
2. Development of high-throughput single cell imaging technologies to measure single cell mitochondrial function, and to measure single mitochondrial function to determine the role of heterogeneity in cell life-death decision-making.
3. Differences between the right and left ventricles in their responses to stresses such as increased afterload and increased preload, including gene expression and gene regulation by micro-RNAs. The use of plasma miRs as biomarkers for RV failure.
4. Using patient-derived iPSC-cardiomyocytes to understand the mechanisms of cardiomyopathies common in children and to solve the genotype-phenotype conundrum in hypertrophic cardiomyopathy.
5. Development of micro-engineered platforms for assessment of biomechanics of single iPSC-derived cardiomyocytes.
6. Developing tools to further mature hiPSC-CMs to more accurately recapitulate the mechanobiology of adult human CMS.

We also are interested in clinical cardiac transplantation in children, specifically:

1. Understanding alterations in immune system function in patients with single ventricle physiology after the Fontan operation.
2. Development of biomarkers for the detection and monitoring of post-transplant lymphoproliferative disorder in pediatric transplant patients.
3. Immune system biomarkers that predict adverse outcomes after pediatric VAD implantation.

CLINICAL TRIALS

- B-Receptor Signaling in Cardiomyopathy, Not Recruiting
- Biomarkers for Post-Transplant Lymphoproliferative Disorders in Children, Not Recruiting

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Robin Wilson

Postdoctoral Faculty Sponsor

Alison Schroer, Sara Vaziri

Publications

PUBLICATIONS

- **Gene-based genome-wide association studies and meta-analyses of conotruncal heart defects** *PLOS ONE*
Sewda, A., Agopian, A. J., Goldmuntz, E., Hakonarson, H., Morrow, B. E., Taylor, D., Mitchell, L. E., Kim, R., Srivastava, D., Bernstein, D., Brueckner, M., Lifton, R., Newburger, et al
2019; 14 (7): e0219926
- **beta-Cardiac myosin hypertrophic cardiomyopathy mutations release sequestered heads and increase enzymatic activity.** *Nature communications*
Adhikari, A. S., Trivedi, D. V., Sarkar, S. S., Song, D., Kooiker, K. B., Bernstein, D., Spudich, J. A., Ruppel, K. M.
2019; 10 (1): 2685
- **Drp1/Fis1 interaction mediates mitochondrial dysfunction in septic cardiomyopathy** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
Haileselassie, B., Mukherjee, R., Joshi, A. U., Napier, B. A., Massis, L. M., Ostberg, N., Queliconi, B. B., Monack, D., Bernstein, D., Mochly-Rosen, D.
2019; 130: 160–69
- **Compassionate deactivation of ventricular assist devices in children: A survey of pediatric ventricular assist device clinicians' perspectives and practices** *PEDIATRIC TRANSPLANTATION*
Kaufman, B. D., Hollander, S. A., Zhang, Y., Chen, S., Bernstein, D., Rosenthal, D. N., Almond, C. S., Murray, J. M., Burgart, A. M., Cohen, H. J., Kirkpatrick, J. N., Blume, E. D.
2019; 23 (3)
- **Substantial Cardiovascular Morbidity in Adults With Lower-Complexity Congenital Heart Disease** *CIRCULATION*
Saha, P., Potiny, P., Rigdon, J., Morello, M., Tcheandjie, C., Romfh, A., Fernandes, S. M., McElhinney, D. B., Bernstein, D., Lui, G. K., Shaw, G. M., Ingelsson, E., Priest, et al
2019; 139 (16): 1889–99
- **IMPAIRED BIOENERGETICS IN RIGHT VENTRICULAR FAILURE IS ASSOCIATED WITH LIPID PEROXIDATION AND DECREASED MITOCHONDRIAL DYNAMICS**
Hwang, H., Sandeep, N., Zhao, M., Hu, D., Lan, I., Coronado, M., Kooiker, K., Fajardo, G., Bernstein, D., Reddy, S.

ELSEVIER SCIENCE INC.2019: 648

- **Substantial Cardiovascular Morbidity in Adults with Lower-Complexity Congenital Heart Disease.** *Circulation*
Saha, P., Potiny, P., Rigdon, J., Morello, M., Tcheandjie, C., Romfh, A., Fernandes, S. M., McElhinney, D. B., Bernstein, D., Lui, G. K., Shaw, G. M., Ingelsson, E., Priest, et al
2019
- **On the Functional Assessment of Hypertrophic Cardiomyopathy-Causing Mutations in Human beta-Cardiac Myosin and the Role of Myosin Binding Protein-C**
Trivedi, D. V., Sarkar, S. S., Adhikari, A. S., Morck, M. M., Kooiker, K. B., Bernstein, D., Ruppel, K. M., Spudich, J. A.
CELL PRESS.2019: 466A–467A
- **Compassionate deactivation of ventricular assist devices in children: A survey of pediatric ventricular assist device clinicians' perspectives and practices.** *Pediatric transplantation*
Kaufman, B. D., Hollander, S. A., Zhang, Y., Chen, S., Bernstein, D., Rosenthal, D. N., Almond, C. S., Murray, J. M., Burgart, A. M., Cohen, H. J., Kirkpatrick, J. N., Blume, E. D.
2019: e13359
- **Stem cells: will they cure pediatric heart failure?** *Current opinion in pediatrics*
Bernstein, D.
2019
- **Drp1/Fis1 interaction mediates mitochondrial dysfunction in septic cardiomyopathy.** *Journal of molecular and cellular cardiology*
Haileselassie, B., Mukherjee, R., Joshi, A. U., Napier, B. A., Massis, L. M., Ostberg, N. P., Queliconi, B. B., Monack, D., Bernstein, D., Mochly-Rosen, D.
2019
- **Pathologic gene network rewiring implicates PPP1R3A as a central regulator in pressure overload heart failure.** *Nature communications*
Cordero, P., Parikh, V. N., Chin, E. T., Erbilgin, A., Gloudemans, M. J., Shang, C., Huang, Y., Chang, A. C., Smith, K. S., Dewey, F., Zaleta, K., Morley, M., Brandimarto, et al
2019; 10 (1): 2760
- **Macrophage de novo NAD⁺ synthesis specifies immune function in aging and inflammation.** *Nature immunology*
Minhas, P. S., Liu, L., Moon, P. K., Joshi, A. U., Dove, C., Mhatre, S., Contrepois, K., Wang, Q., Lee, B. A., Coronado, M., Bernstein, D., Snyder, M. P., Migaud, et al
2018
- **Aortic valve phenotype associated with filamin-A mutations: a comprehensive echocardiographic and outcomes analyses**
Capoulade, R., Cuff, C., Piriou, N., Toquet, C., Blandin, S., Guimbretiere, G., Omen, T., Aalberts, J., Bernstein, D., Bernstein, J., Trochu, J. N., Le Marec, H., Merot, et al
OXFORD UNIV PRESS.2018: 1123
- **Advances in pediatric cardiology 2018.** *Current opinion in pediatrics*
Bernstein, D.
2018
- **Prospective Analysis of EBV plus PTLD in a Multi-Center Study of Pediatric Transplant Recipients**
Martinez, O. M., Krams, S. M., Lapasaran, M., Boyd, S. D., Bernstein, D., Twist, C., Weinberg, K., Gratzinger, D., Tan, B., Armstrong, B., Ikle, D., Brown, M., Robien, et al
LIPPINCOTT WILLIAMS & WILKINS.2018: S319
- **Post-transplant outcomes in pediatric ventricular assist device patients: A PediMACS-Pediatric Heart Transplant Study linkage analysis** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*
Sutcliffe, D. L., Pruitt, E., Cantor, R. S., Godown, J., Lane, J., Turrentine, M. W., Law, S. P., Lantz, J. L., Kirklin, J. K., Bernstein, D., Blume, E. D.
2018; 37 (6): 715–22
- **Prospective Analysis of EBV plus PTLD Incidence in Pediatric Transplant Recipients in the Modern Era.**
Martinez, O., Krams, S., Lapasaran, M., Boyd, S., Bernstein, D., Twist, C., Weinberg, K., Gratzinger, D., Tan, B., Armstrong, B., Ikle, D., Brown, M., Robien, et al
WILEY.2018: 352–53
- **Apelin and APJ orchestrate complex tissue-specific control of cardiomyocyte hypertrophy and contractility in the hypertrophy-heart failure transition.** *American journal of physiology. Heart and circulatory physiology*
Parikh, V. N., Liu, J., Shang, C., Woods, C., Chang, A. C., Zhao, M., Charo, D. N., Grunwald, Z., Huang, Y., Seo, K., Tsao, P. S., Bernstein, D., Ruiz-Lozano, et al

2018

- **Renin-Angiotensin-Aldosterone System Inhibitors for Right Ventricular Dysfunction in Tetralogy of Fallot Quo Vadis?** *CIRCULATION*
Reddy, S., Bernstein, D., Newburger, J. W.
2018; 137 (14): 1472–74
- **Functional Assays to Screen and Dissect Genomic Hits: Doubling Down on the National Investment in Genomic Research.** *Circulation. Genomic and precision medicine*
Musunuru, K., Bernstein, D., Cole, F. S., Khokha, M. K., Lee, F. S., Lin, S., McDonald, T. V., Moskowitz, I. P., Quertermous, T., Sankaran, V. G., Schwartz, D. A., Silverman, E. K., Zhou, et al
2018; 11 (4): e002178
- **Response by Bernstein to Letter Regarding Article, "Anthracycline Cardiotoxicity: Worrisome Enough to Have You Quaking?"** *CIRCULATION RESEARCH*
Bernstein, D.
2018; 122 (7): E64–E65
- **CONGENITAL HEART DISEASE CONFERS SUBSTANTIAL RISK OF ACQUIRED CARDIOVASCULAR DISEASE AMONGST BRITISH ADULTS**
Saha, P., Potiny, P., Tcheandjieu, C., Fernandes, S. M., Romfh, A., Bernstein, D., Lui, G. K., Ingelsson, E., Priest, J.
ELSEVIER SCIENCE INC.2018: 553
- **Mechanobiology of Myosin Mutations and Myofibril Remodeling in iPSC-Cardiomyocytes**
Schroer, A., Kooiker, K., Adhikari, A., Ruppel, K., Bernstein, D., Spudich, J., Pruitt, B.
CELL PRESS.2018: 496A–497A
- **Anthracycline Cardiotoxicity Worrisome Enough to Have You Quaking?** *CIRCULATION RESEARCH*
Bernstein, D.
2018; 122 (2): 188–90
- **Physiological Mitochondrial Fragmentation Is a Normal Cardiac Adaptation to Increased Energy Demand.** *Circulation research*
Coronado, M., Fajardo, G., Nguyen, K., Zhao, M., Kooiker, K., Jung, G., Hu, D. Q., Reddy, S., Sandoval, E., Stotland, A., Gottlieb, R. A., Bernstein, D.
2018; 122 (2): 282–95
- **EVALUATION OF THE TEMPORAL CHANGES IN CARDIAC BIOENERGETICS IN THE SETTING OF SEPSIS**
Haileselassie, B., Joshi, A., Bernstein, D., Mochly-Rosen, D.
LIPPINCOTT WILLIAMS & WILKINS.2018: 742
- **Human Induced Pluripotent Stem Cell (hiPSC)-Derived Cells to Assess Drug Cardiotoxicity: Opportunities and Problems.** *Annual review of pharmacology and toxicology*
Magdy, T., Schuldt, A. J., Wu, J. C., Bernstein, D., Burrige, P. W.
2018; 58: 83–103
- **Advances in paediatric cardiology 2017: the genetics of paediatric cardiovascular disease** *CURRENT OPINION IN PEDIATRICS*
Bernstein, D.
2017; 29 (5): 511–12
- **Induced pluripotent stem cell-derived cardiomyocytes: A platform for testing for drug cardiotoxicity** *PROGRESS IN PEDIATRIC CARDIOLOGY*
Bernstein, D.
2017; 46: 2–6
- **miR-21 is associated with fibrosis and right ventricular failure.** *JCI insight*
Reddy, S., Hu, D., Zhao, M., Blay, E., Sandeep, N., Ong, S., Jung, G., Kooiker, K. B., Coronado, M., Fajardo, G., Bernstein, D.
2017; 2 (9)
- **Pharmacogenomic screening for anthracycline-induced cardiotoxicity in childhood cancer** *BRITISH JOURNAL OF CLINICAL PHARMACOLOGY*
Aminkeng, F., Ross, C. D., Rassekh, S. R., Rieder, M. J., Bhavsar, A. P., Sanatani, S., Bernstein, D., Hayden, M. R., Amstutz, U., Carleton, B. C.
2017; 83 (5): 1143–45
- **Cancer recurrence and mortality after pediatric heart transplantation for anthracycline cardiomyopathy: A report from the Pediatric Heart Transplant Study (PHTS) group.** *Pediatric transplantation*

Bock, M. J., Pahl, E., Rusconi, P. G., Boyle, G. J., Parent, J. J., Twist, C. J., Kirklin, J. K., Pruitt, E., Bernstein, D.
2017

- **Post-Transplant Outcomes in Pediatric VAD Patients: A Pedimacs-PHTS Linkage Study**
Sutcliffe, D. L., Pruitt, E., Cantor, R. S., Godown, J., Lane, J., Turrentine, M. W., Law, S. P., Lantz, J. L., Naftel, D. C., Kirklin, J. K., Bernstein, D., Blume, E. D.
ELSEVIER SCIENCE INC.2017: S36
- **Hemodynamics of the Pediatric Failing Fontan**
Dykes, J. C., McElhinney, D. B., Bernstein, D., Chrisant, M. R., Chen, S., Daly, K., Ameduri, R. K., Knecht, K. R., Richmond, M. E., Lin, K. Y., Urschel, S., Simmonds, J., Simpson, et al
ELSEVIER SCIENCE INC.2017: S22
- **The miRNome of EBV plus PTLID is Distinct from EBV plus Infectious Mononucleosis**
Balachandran, Y., Kaul, V., Maloney, E., Harris-Arnold, A., Weinberg, K., Boyd, S., Bernstein, D., Esquivel, C., Martinez, O., Krams, S.
WILEY.2017: 402
- **Compassionate Deactivation of Ventricular Assist Devices in Children: A Survey of Pediatric VAD Clinicians' Perspectives and Practices**
Kaufman, B. D., Hollander, S. A., Chen, S. H., Bernstein, D., Rosenthal, D. N., Almond, C., Murray, J. M., Burgart, A. M., Cohen, H. J., Kirkpatrick, J. N., Blume, E. D.
ELSEVIER SCIENCE INC.2017: S37–S38
- **Avoidance of a C1q Positive Crossmatch Prevents Both Early and Late Antibody-Mediated Rejection in Pediatric Heart Transplant Recipients**
Hollander, S. A., Peng, D. M., Mills, M., Berry, G. J., Pedrigo, M., Chen, S., Tyan, D. B., Bernstein, D., Rosenthal, D. N.
ELSEVIER SCIENCE INC.2017: S268
- **Outcomes of US Patients with Marfans Syndrome Listed for Heart Transplantation**
Kaufman, B. D., Tierney, S. E., Bernstein, D., Chen, S. H., Dykes, J., Hollander, S. A., Liang, D. H., Maeda, K., Priest, J., Reinhartz, O., Rosenthal, D. N., Almond, C.
ELSEVIER SCIENCE INC.2017: S393–S394
- **Impact of Heart Transplantation on the Functional Status of US Children With End-Stage Heart Failure.** *Circulation*
Peng, D. M., Zhang, Y., Rosenthal, D. N., Palmon, M., Chen, S., Kaufman, B. D., Maeda, K., Hollander, S. A., McDonald, N., Smoot, L. B., Bernstein, D., Almond, C. S.
2017; 135 (10): 939-950
- **Rehospitalization after pediatric heart transplantation: Incidence, indications, and outcomes.** *Pediatric transplantation*
Hollander, S. A., McElhinney, D. B., Almond, C. S., McDonald, N., Chen, S., Kaufman, B. D., Bernstein, D., Rosenthal, D. N.
2017; 21 (1)
- **The End of Life Experience of Pediatric Heart Transplant Recipients.** *Journal of pain and symptom management*
Hollander, S. A., Dykes, J., Chen, S., Barkoff, L., Sourkes, B., Cohen, H., Rosenthal, D. N., Bernstein, D., Kaufman, B. D.
2017
- **New insights into mitral valve dystrophy: a Filamin-A genotype-phenotype and outcome study.** *European heart journal*
Le Tourneau, T., Le Scouarnec, S., Cuff, C., Bernstein, D., Aalberts, J. J., Lecointe, S., Mérot, J., Bernstein, J. A., Oomen, T., Dina, C., Karakachoff, M., Desal, H., Al Habash, et al
2017
- **Induced Pluripotent Stem Cell-Derived Cardiomyocytes: A Platform for Testing For Drug Cardiotoxicity.** *Progress in pediatric cardiology*
Bernstein, D.
2017; 46: 2–6
- **Passive Stretch Induces Structural and Functional Maturation of Engineered Heart Muscle as Predicted by Computational Modeling.** *Stem cells (Dayton, Ohio)*
Abilez, O. J., Tzatzalos, E., Yang, H., Zhao, M. T., Jung, G., Zöllner, A. M., Tiburcy, M., Riegler, J., Matsa, E., Shukla, P., Zhuge, Y., Chour, T., Chen, et al
2017
- **Angiotensin-Converting Enzyme Inhibition Early After Heart Transplantation.** *Journal of the American College of Cardiology*
Fearon, W. F., Okada, K., Kobayashi, J. A., Kobayashi, Y., Luikart, H., Sana, S., Daun, T., Chmura, S. A., Sinha, S., Cohen, G., Honda, Y., Pham, M., Lewis, et al
2017; 69 (23): 2832–41

- **Reduced Bmpr2 Signaling Impairs Right Ventricular Heart Function And Exaggerates Cardiac Fibrosis Upon Chronic Pressure Overload**
Boehm, M., Tian, X., Zhao, M., Dannewitz, S., Kuramoto, K., Kuang, J., Reddy, S., Bernstein, D., Ashley, E., Spiekerkoetter, E.
AMER THORACIC SOC.2017
- **Thalidomide treatment prevents chronic graft rejection after aortic transplantation in rats - an experimental study.** *Transplant international : official journal of the European Society for Organ Transplantation*
Miller, K. K., Wang, D., Hu, X., Hua, X., Deuse, T., Neofytou, E., Renne, T., Velden, J., Reichenspurner, H., Schrepfer, S., Bernstein, D.
2017; 30 (11): 1181-89
- **Dynamics of Viral and Host Immune Cell MicroRNA Expression during Acute Infectious Mononucleosis.** *Frontiers in microbiology*
Kaul, V., Weinberg, K. I., Boyd, S. D., Bernstein, D., Esquivel, C. O., Martinez, O. M., Krams, S. M.
2017; 8: 2666
- **Impact of the 18th birthday on waitlist outcomes among young adults listed for heart transplant: A regression discontinuity analysis.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
Peng, D. M., Qu, Q., McDonald, N., Hollander, S. A., Bernstein, D., Maeda, K., Kaufman, B. D., Rosenthal, D. N., McElhinney, D. B., Almond, C. S.
2017; 36 (11): 1185-91
- **Early-Onset Hypertrophic Cardiomyopathy Mutations Significantly Increase the Velocity, Force, and Actin-Activated ATPase Activity of Human beta-Cardiac Myosin** *CELL REPORTS*
Adhikari, A. S., Kooiker, K. B., Sarkar, S. S., Liu, C., Bernstein, D., Spudich, J. A., Ruppel, K. M.
2016; 17 (11): 2857-2864
- **The Influence of Race and Common Genetic Variations on Outcomes After Pediatric Heart Transplantation.** *American journal of transplantation*
Green, D. J., Brooks, M. M., Burckart, G. J., Chinnock, R. E., Canter, C., Addonizio, L. J., Bernstein, D., Kirklin, J. K., Naftel, D. C., Girmata, D. M., Zeevi, A., Webber, S. A.
2016
- **Regenerative medicine - From stem cell biology to clinical trials for pediatric heart failure** *PROGRESS IN PEDIATRIC CARDIOLOGY*
Peral, S., Bernstein, D., Nelson, T. J.
2016; 43: 87-89
- **Nat1 Deficiency Is Associated with Mitochondrial Dysfunction and Exercise Intolerance in Mice** *CELL REPORTS*
Chennamsetty, I., Coronado, M., Contrepolis, K., Keller, M. P., Carcamo-Orive, I., Sandin, J., Fajardo, G., Whittle, A. J., Fathzadeh, M., Snyder, M., Reaven, G., Attie, A. D., Bernstein, et al
2016; 17 (2): 527-540
- **iPSC-derived cardiomyocytes reveal abnormal TGF- β signalling in left ventricular non-compaction cardiomyopathy.** *Nature cell biology*
Kodo, K., Ong, S., Jahanbani, F., Termglinchan, V., Hirono, K., Inanloorahatloo, K., Ebert, A. D., Shukla, P., Abilez, O. J., Churko, J. M., Karakikes, I., Jung, G., Ichida, et al
2016; 18 (10): 1031-1042
- **Advances in pediatric cardiology 2016** *CURRENT OPINION IN PEDIATRICS*
Bernstein, D.
2016; 28 (5): 573-74
- **Recommendations for genetic testing to reduce the incidence of anthracycline-induced cardiotoxicity.** *British journal of clinical pharmacology*
Aminkeng, F., Ross, C. J., Rassekh, S. R., Hwang, S., Rieder, M. J., Bhavsar, A. P., Smith, A., Sanatani, S., Gelmon, K. A., Bernstein, D., Hayden, M. R., Amstutz, U., Carleton, et al
2016; 82 (3): 683-695
- **Mitochondrial remodeling: Rearranging, recycling, and reprogramming** *CELL CALCIUM*
Gottlieb, R. A., Bernstein, D.
2016; 60 (2): 88-101
- **Epigenetic response to environmental stress: Assembly of BRG1-G9a/GLP-DNMT3 repressive chromatin complex on Myh6 promoter in pathologically stressed hearts** *BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH*
Han, P., Li, W., Yang, J., Shang, C., Lin, C., Cheng, W., Hang, C. T., Cheng, H., Chen, C., Wong, J., Xiong, Y., Zhao, M., Drakos, et al
2016; 1863 (7): 1772-1781

- **Na⁺-sensitive elevation in blood pressure is ENaC independent in diet-induced obesity and insulin resistance** *AMERICAN JOURNAL OF PHYSIOLOGY-RENAL PHYSIOLOGY*
Nizar, J. M., Dong, W., McClellan, R. B., Labarca, M., Zhou, Y., Wong, J., Goens, D. G., Zhao, M., Velarde, N., Bernstein, D., Pellizzon, M., Satlin, L. M., Bhalla, et al
2016; 310 (9): F812-F820
- **Compassionate deactivation of ventricular assist devices in pediatric patients** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*
Hollander, S. A., Axelrod, D. M., Bernstein, D., Cohen, H. J., Sourkes, B., Reddy, S., Magnus, D., Rosenthal, D. N., Kaufman, B. D.
2016; 35 (5): 564-567
- **Human induced pluripotent stem cell-derived cardiomyocytes recapitulate the predilection of breast cancer patients to doxorubicin-induced cardiotoxicity** *NATURE MEDICINE*
Burrige, P. W., Li, Y. F., Matsa, E., Wu, H., Ong, S., Sharma, A., Holmstrom, A., Chang, A. C., Coronado, M. J., Ebert, A. D., Knowles, J. W., Telli, M. L., Witteles, et al
2016; 22 (5): 547-556
- **Time-dependent evolution of functional vs. remodeling signaling in induced pluripotent stem cell-derived cardiomyocytes and induced maturation with biomechanical stimulation** *FASEB JOURNAL*
Jung, G., Fajardo, G., Ribeiro, A. J., Kooiker, K. B., Coronado, M., Zhao, M., Hu, D., Reddy, S., Kodo, K., Sriram, K., Insel, P. A., Wu, J. C., Pruitt, et al
2016; 30 (4): 1464-1479
- **Thalidomide Treatment Prevents Chronic Graft Rejection after Transplantation in Rats**
Miller, K. K., Hua, X., Deuse, T., Hu, X., Neofytou, E., Renne, T., Reichenspurner, H., Schrepfer, S., Bernstein, D.
ELSEVIER SCIENCE INC.2016: S48
- **Poverty Is an Independent Socioeconomic Risk Factor for Death Following Pediatric Heart Transplant**
Dykes, J. C., Peng, D. M., Almond, C. S., Barkoff, L. M., Kaufman, B., Bernstein, D., Rosenthal, D. N., Hollander, S. A.
ELSEVIER SCIENCE INC.2016: S403-S404
- **Cancer Recurrence and Mortality After Pediatric Heart Transplantation for Anthracycline Cardiomyopathy**
Bock, M. J., Pahl, E., Rusconi, P. G., Boyle, G. J., Parent, J. J., Twist, C. J., Kirklin, J. K., Pruitt, E., Bernstein, D.
ELSEVIER SCIENCE INC.2016: S20-S21
- **Circulating Cell-Free DNA as a Non-Invasive Marker of Pediatric Heart Transplant Rejection and Immunosuppressive Treatment**
Khush, K. K., Grskovic, M., Luikart, H., Cohen, G., Strehl, C., Wylie, J., Thompson, K., Christie, B., Collins, J., Hiller, D., Yee, J., Bernstein, D.
ELSEVIER SCIENCE INC.2016: S75
- **The End-of-Life Experience in Pediatric Heart Transplant Recipients**
Hollander, S. A., Dykes, J. C., Chen, S., Barkoff, L. M., Rosenthal, D. N., Bernstein, D., Kaufman, B. D.
ELSEVIER SCIENCE INC.2016: S410
- **De Novo and Rare Variants at Multiple Loci Support the Oligogenic Origins of Atrioventricular Septal Heart Defects.** *PLoS genetics*
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