

Stanford



Daniel Bernstein

Alfred Woodley Salter and Mabel G. Salter Endowed Professor of Pediatrics
Pediatrics - Cardiology

 NIH Biosketch available Online

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- 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 Heart Transplantation
- Pediatric Heart Failure
- Advanced Heart Failure and Transplant Cardiology

ACADEMIC APPOINTMENTS

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

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

- Medical Education: NYU Grossman School of Medicine (1978) NY
- Fellowship: Albert Einstein College of Medicine (1983) 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

- Bernstein Lab Website: <https://med.stanford.edu/bernsteinlab.html>
- Murine Cardiovascular Phenotyping Core Lab: <https://med.stanford.edu/murinecvcore/Bernsteinlab.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our lab has several major focuses:

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

1. Understanding alterations in immune system function in patients with after implantation of a left ventricular assist device, Immune system biomarkers that predict adverse outcomes after pediatric VAD implantation.
2. Development of biomarkers for the detection and monitoring of post-transplant lymphoproliferative disorder in pediatric transplant patients.

CLINICAL TRIALS

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

Teaching

COURSES

2023-24

- Introduction to Cardiovascular Medicine: MED 274 (Aut)
- Science of Medicine I: INDE 221 (Spr)

2022-23

- Science of Medicine I: INDE 221 (Spr)

2021-22

- Planning and Writing a Research Proposal: INDE 267 (Win)
- Science of Medicine I: INDE 221 (Spr)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Prerna Giri

Publications

PUBLICATIONS

- **Epstein-Barr virus-associated post-transplant lymphoproliferative disorders in pediatric transplantation: A prospective multicenter study in the United States.** *Pediatric transplantation*
Tajima, T., Martinez, O. M., Bernstein, D., Boyd, S. D., Gratzinger, D., Lum, G., Sasaki, K., Tan, B., Twist, C. J., Weinberg, K., Armstrong, B., Desai, D. M., Mazariegos, et al
2024; 28 (4): e14763
- **Incomplete-penetrant hypertrophic cardiomyopathy MYH7 G256E mutation causes hypercontractility and elevated mitochondrial respiration.** *Proceedings of the National Academy of Sciences of the United States of America*
Lee, S., Vander Roest, A. S., Blair, C. A., Kao, K., Bremner, S. B., Childers, M. C., Pathak, D., Heinrich, P., Lee, D., Chirikian, O., Mohran, S. E., Roberts, B., Smith, et al
2024; 121 (19): e2318413121
- **MicroRNA-34a-Dependent Attenuation of Angiogenesis in Right Ventricular Failure.** *Journal of the American Heart Association*
Reddy, S., Hu, D. Q., Zhao, M., Ichimura, S., Barnes, E. A., Cornfield, D. N., Alejandro Alcázar, M. A., Spiekerkoetter, E., Fajardo, G., Bernstein, D.
2024: e029427
- **Filamin A heart valve disease as a genetic cause of inherited bicuspid and tricuspid aortic valve disease.** *Heart (British Cardiac Society)*
Delwarde, C., Toquet, C., Boureau, A. S., Le Ruz, R., Le Scouarnec, S., Mérot, J., Kyndt, F., Bernstein, D., Bernstein, J. A., Aalberts, J. J., Le Marec, H., Schott, J., Roussel, et al

2023

- **Corrigendum to "Drp1/Fis1 interaction mediates mitochondrial dysfunction in septic cardiomyopathy" [Journal: Molecular and Cellular Cardiology (2019) May 130;160-169]. 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.
2023
- **Cryo-electron tomography reveals the structural diversity of cardiac proteins in their cellular context.** *bioRxiv : the preprint server for biology*
Woldeyes, R. A., Nishiga, M., Vander Roest, A. S., Engel, L., Giri, P., Montenegro, G. C., Wu, A. C., Dunn, A. R., Spudich, J. A., Bernstein, D., Schmid, M. F., Wu, J. C., Chiu, et al
2023
- **Improved Cardiac Performance and Decreased Arrhythmia in Hypertrophic Cardiomyopathy With Non-#-Blocking R-Enantiomer Carvedilol.** *Circulation*
Seo, K., Yamamoto, Y., Kirillova, A., Kawana, M., Yadav, S., Huang, Y., Wang, Q., Lane, K. V., Pruitt, B. L., Perez, M. V., Bernstein, D., Wu, J. C., Wheeler, et al
2023
- **311.2: Risk factors for Epstein-Barr virus DNAemia in pediatric transplantation: A multicenter study in the United States.** *Transplantation*
Tajima, T., Bernstein, D., Boyd, S. D., Gratzinger, D., Lum, G., Sasaki, K., Tan, B., Weinberg, K., Armstrong, B., Brown, M., Chin, C., Desai, D., Fishbein, et al
2023; 107 (10S1): 71-72
- **Genetic and clinical variables act synergistically to impact neurodevelopmental outcomes in children with single ventricle heart disease.** *Communications medicine*
Miller, T. A., Hernandez, E. J., Gaynor, J. W., Russell, M. W., Newburger, J. W., Chung, W., Goldmuntz, E., Cnota, J. F., Zyblewski, S. C., Mahle, W. T., Zak, V., Ravishankar, C., Kaltman, et al
2023; 3 (1): 127
- **Impact of Induction Therapy on Rejection in Pediatric Transplantation: A Multicenter Study in the United States**
Tajima, T., Gallo, A., Bernstein, D., Bonham, C., Boyd, S., Gratzinger, D., Krams, S. M., Lum, G., Sasaki, K., Tan, B., Weinberg, K., Armstrong, B., Brown, et al
ELSEVIER SCIENCE INC.2023: S1015
- **Epstein-Barr Virus-Associated Post-Transplant Lymphoproliferative Disorders in Pediatric Transplantation: A Prospective Multicenter Study in the United States**
Tajima, T., Bernstein, D., Boyd, S., Gratzinger, D., Lum, G., Sasaki, K., Tan, B., Twist, C., Weinberg, K., Robien, M., Brown, M., Armstrong, B., Desai, et al
ELSEVIER SCIENCE INC.2023: S590
- **Contribution of Previously Unrecognized RNA Splice-Altering Variants to Congenital Heart Disease.** *Circulation. Genomic and precision medicine*
Young Jang, M., Patel, P. N., Pereira, A. C., Willcox, J. A., Haghghi, A., Tai, A. C., Ito, K., Morton, S. U., Gorham, J. M., McKean, D. M., DePalma, S. R., Bernstein, D., Brueckner, et al
2023: e003924
- **Improved Right Ventricular Energy Efficiency by 4-Dimensional Flow Magnetic Resonance Imaging After Harmony Valve Implantation.** *JACC. Advances*
Woo, J. P., Dong, M. L., Kong, F., McElhinney, D. B., Schiavone, N., Chan, F., Lui, G. K., Haddad, F., Bernstein, D., Marsden, A.
2023; 2 (3)
- **Cardiogenic control of affective behavioural state.** *Nature*
Hsueh, B., Chen, R., Jo, Y., Tang, D., Raffiee, M., Kim, Y. S., Inoue, M., Randles, S., Ramakrishnan, C., Patel, S., Kim, D. K., Liu, T. X., Kim, et al
2023
- **Epstein-Barr virus-associated post-transplant lymphoproliferative disorders in pediatric transplantation: A prospective multicenter study in the United States**
Tajima, T., Bernstein, D., Boyd, S. D., Gratzinger, D., Lum, G., Sasaki, K., Tan, B., Twist, C. J., Weinberg, K., Robien, M. A., Brown, M., Armstrong, B., Desai, et al
WILEY.2023
- **Drp1/p53 interaction mediates p53 mitochondrial localization and dysfunction in septic cardiomyopathy.** *Journal of molecular and cellular cardiology*
Mukherjee, R., Tetri, L. H., Li, S. J., Fajardo, G., Ostberg, N. P., Tsegay, K. B., Gera, K., Cornell, T. T., Bernstein, D., Mochly-Rosen, D., Haileselassie, B.
2023; 177: 28-37
- **Mutations In Latent Membrane Protein 1 of Epstein-Barr Virus are Associated with Increased Risk for Post-Transplant Lymphoproliferative Disorder in Children.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*

Martinez, O. M., Krams, S. M., Robien, M. A., Lapasaran, M. G., Arvedson, M. P., Reitsma, A., Balachandran, Y., Harris-Arnold, A., Weinberg, K., Boyd, S. D., Armstrong, B., Trickey, A., Twist, et al
2023

- **Design and Rationale of RE-ENERGIZE FONTAN: RandomizEd Exercise iNtERvention desiGned to maximIZE fitness in FONTAN patients.** *American heart journal*

Tierney, E. S., Palaniappan, L., Leonard, M., Long, J., Myers, J., Dávila, T., Lui, M. C., Kogan, F., Olson, I., Punn, R., Desai, M., Schneider, L. M., Wang, et al
2023

- **Changes in myosin biomechanics influence growth and maturation of iPSC-cardiomyocytes**

Bernstein, D., Vander Roest, A. S., Wu, S., Pruitt, B., Zhao, M., Fajardo, G., Ruppel, K., Spudich, J. A.
CELL PRESS.2023: 148A

- **Sarcomere dynamics simulations to uncover mechanisms in hypertrophic cardiomyopathy.** *Biophysical journal*

Roest, A. S., Spudich, J. A., Ruppel, K., Regnier, M., Bernstein, D.
2023; 122 (3S1): 148a-149a

- **Changes in myosin biomechanics influence growth and maturation of iPSC-cardiomyocytes.** *Biophysical journal*

Bernstein, D., Vander Roest, A. S., Wu, S., Pruitt, B., Zhao, M., Fajardo, G., Ruppel, K., Spudich, J. A.
2023; 122 (3S1): 148a

- **The Z-disc: Mechanosensor at the interface between myosin biomechanics and hypertrophic signaling.** *Biophysical journal*

Giri, P., Vander Roest, A. S., Lee, S., Heinrich, P., Dunn, A. R., Wu, S., Bernstein, D.
2023; 122 (3S1): 404a

- **The Z-disc: Mechanosensor at the interface between myosin biomechanics and hypertrophic signaling**

Giri, P., Roest, A., Lee, S., Heinrich, P., Dunn, A. R., Wu, S., Bernstein, D.
CELL PRESS.2023: 404A

- **Sarcomere dynamics simulations to uncover mechanisms in hypertrophic cardiomyopathy**

Vander Roest, A. S., Spudich, J. A., Ruppel, K., Regnier, M., Bernstein, D.
CELL PRESS.2023: 148A-149A

- **DRP1/P53 INTERACTION PLAYS A KEY ROLE IN MITOCHONDRIAL DYSFUNCTION OF SEPTIC CARDIOMYOPATHY**

Tetri, L., Mukherjee, R., Li, S., Fajardo, G., Ostberg, N., Tsegay, K., Gera, K., Cornell, T., Bernstein, D., Mochly-Rosen, D., Haileselassie, B.
LIPPINCOTT WILLIAMS & WILKINS.2023: 617

- **Improved Right Ventricular Energy Efficiency by 4-Dimensional Flow Magnetic Resonance Imaging After Harmony Valve Implantation** *JACC:Advances*

Woo, J. P., Dong, M. L., Kong, F., McElhinney, D. B., Schiavone, N., Chan, F., Lui, G. K., Haddad, F., Bernstein, D., Marsden, A.
2023; 2 (3)

- **Increased risk of infections in pediatric Fontan patients after heart transplantation.** *Pediatric transplantation*

Ahmed, H., Lee, J., Bernstein, D., Rosenthal, D., Dykes, J., Lee, D., Barkoff, L., Weinberg, K., Hollander, S. A., Chen, S.
2022: e14421

- **Blood flow modeling reveals improved collateral artery performance during the regenerative period in mammalian hearts.** *Nature cardiovascular research*

Anbazhakan, S., Rios Coronado, P. E., Sy-Quia, A. N., Seow, L. W., Hands, A. M., Zhao, M., Dong, M. L., Pfaller, M. R., Amir, Z. A., Raftrey, B. C., Cook, C. K., D'Amato, G., Fan, et al
2022; 1 (8): 775-790

- **Fatal nocardiosis infection in a pediatric patient with an immunodeficiency after heart re-transplantation.** *Pediatric transplantation*

Mai, D. H., Sedler, J., Weinberg, K., Bernstein, D., Schroeder, A., Mathew, R., Chen, S., Lee, D., Dykes, J. C., Hollander, S. A.
2022: e14344

- **Mitochondrial Quality Control in the Heart: The Balance between Physiological and Pathological Stress.** *Biomedicines*

Fajardo, G., Coronado, M., Matthews, M., Bernstein, D.
2022; 10 (6)

- **EBV plus PTLD Tumor MicroRNAs Detected in Circulating Extracellular Vesicles Are Decreased in Pediatric Transplant Recipients with EBV plus PTLD.**

Sen, A., Enriquez, J., Rao, M., Glass, M., Balachandran, Y., Syed, S., Twist, C., Weinberg, K., Boyd, S. D., Bernstein, D., Trickey, A., Gratzinger, D., Tan, et al

WILEY.2022: 360

- **Hybrid management of dysphagia lusoria in a boy with Duchenne's muscular dystrophy.** *Cardiology in the young*
Chiu, P., Perry, S., Bernstein, D., Maeda, K.
2022: 1-3
- **Neither cardiac mitochondrial DNA variation or copy number contribute to congenital heart disease risk.** *American journal of human genetics*
Willcox, J. A., Geiger, J. T., Morton, S. U., McKean, D., Quiat, D., Gorham, J. M., Tai, A. C., DePalma, S., Bernstein, D., Brueckner, M., Chung, W. K., Giardini, A., Goldmuntz, et al
2022
- **Mutations in latent membrane protein 1 of Epstein Barr virus are associated with increased risk of post-transplant lymphoproliferative disorder**
Martinez, O. M., Krams, S. M., Robien, M., Lapasaran, M. M., Arvedson, M., Reitsma, A., Weinberg, K., Boyd, S., Armstrong, B., Twist, C., Gratzinger, D., Tan, B., Trickey, et al
WILEY.2022
- **Memory B Cell Deficiency and Disseminated Nocardiosis in a Pediatric Patient with Congenital Single Ventricle Physiology and Heart Transplantation**
Sedler, J., Schroeder, A. R., Mathew, R., Chen, S., Weinberg, K. I., Bernstein, D., Lee, D., Dykes, J., Hollander, S. A.
ELSEVIER SCIENCE INC.2022: S513
- **Genome-Wide De Novo Variants in Congenital Heart Disease Are Not Associated With Maternal Diabetes or Obesity.** *Circulation. Genomic and precision medicine*
Morton, S. U., Pereira, A. C., Quiat, D., Richter, F., Kitaygorodsky, A., Hagen, J., Bernstein, D., Brueckner, M., Goldmuntz, E., Kim, R. W., Lifton, R. P., Porter, G. A., Tristani-Firouzi, et al
2022: CIRCGEN121003500
- **Host microRNAs are decreased in pediatric solid-organ transplant recipients during EBV+ Post-transplant Lymphoproliferative Disorder.** *Frontiers in immunology*
Sen, A., Enriquez, J., Rao, M., Glass, M., Balachandran, Y., Syed, S., Twist, C. J., Weinberg, K., Boyd, S. D., Bernstein, D., Trickey, A. W., Gratzinger, D., Tan, et al
2022; 13: 994552
- **Coronary blood vessels from distinct origins converge to equivalent states during mouse and human development.** *eLife*
Phansalkar, R., Krieger, J., Zhao, M., Kolluru, S. S., Jones, R. C., Quake, S. R., Weissman, I., Bernstein, D., Winn, V. D., D'Amato, G., Red-Horse, K.
1800; 10
- **Coronary blood vessels from distinct origins converge to equivalent states during mouse and human development** *ELIFE*
Phansalkar, R., Krieger, J., Zhao, M., Kolluru, S., Jones, R. C., Quake, S. R., Weissman, I., Bernstein, D., Winn, V. D., D'Amato, G., Red-Horse, K.
2021; 10
- **Identification of Drug Transporter Genomic Variants and Inhibitors that Protect Against Doxorubicin-Induced Cardiotoxicity.** *Circulation*
Magdy, T., Jouni, M., Kuo, H., Weddle, C. J., Lyra-Leite, D., Fonoudi, H., Romero-Tejeda, M., Gharib, M., Javed, H., Fajardo, G., Ross, C. J., Carleton, B. C., Bernstein, et al
2021
- **Altered Cardiac Energetics and Mitochondrial Dysfunction in Hypertrophic Cardiomyopathy.** *Circulation*
Ranjbarvaziri, S., Kooiker, K. B., Ellenberger, M., Fajardo, G., Zhao, M., Vander Roest, A. S., Woldeyes, R. A., Koyano, T. T., Fong, R., Ma, N., Tian, L., Traber, G. M., Chan, et al
2021
- **RARG variant predictive of doxorubicin-induced cardiotoxicity identifies a cardioprotective therapy.** *Cell stem cell*
Magdy, T., Jiang, Z., Jouni, M., Fonoudi, H., Lyra-Leite, D., Jung, G., Romero-Tejeda, M., Kuo, H., Fetterman, K. A., Gharib, M., Burmeister, B. T., Zhao, M., Sapkota, et al
2021
- **Clinical and hemodynamic characteristics of the pediatric failing Fontan.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
Dykes, J. C., Rosenthal, D. N., Bernstein, D., McElhinney, D. B., Chrisant, M. R., Daly, K. P., Ameduri, R. K., Knecht, K., Richmond, M. E., Lin, K. Y., Urschel, S., Simmonds, J., Simpson, et al
2021

- **Hypertrophic cardiomyopathy beta-cardiac myosin mutation (P710R) leads to hypercontractility by disrupting super relaxed state.** *Proceedings of the National Academy of Sciences of the United States of America*
Vander Roest, A. S., Liu, C., Morck, M. M., Kooiker, K. B., Jung, G., Song, D., Dawood, A., Jhingran, A., Pardon, G., Ranjbarvaziri, S., Fajardo, G., Zhao, M., Campbell, et al
2021; 118 (24)
- **Gain of Function Mutations in Latent Membrane Protein 1 of Epstein Barr Virus are Associated with Increased Risk of Post-Transplant Lymphoproliferative Disorder**
Martinez, O. M., Krams, S. M., Robien, M., Lapasaran, M., Arvedson, M., Weinberg, K., Boyd, S., Armstrong, B., Twist, C., Gratzinger, D., Tan, B., Trickey, A., Sever, et al
WILEY.2021: 349-350
- **Impact of institutional routine surveillance endomyocardial biopsy frequency in the first year on rejection and graft survival in pediatric heart transplantation.** *Pediatric transplantation*
Duong, S. Q., Zhang, Y., Hall, M., Hollander, S. A., Thurm, C. W., Bernstein, D., Feingold, B., Godown, J., Almond, C.
2021: e14035
- **Improving Right Ventricular Function by Increasing BMP Signaling with FK506.** *American journal of respiratory cell and molecular biology*
Boehm, M., Tian, X., Ali, M. K., Mao, Y., Ichimura, K., Zhao, M., Kuramoto, K., Dannewitz Prosseda, S., Fajardo, G., Dufva, M. J., Qin, X., Kheyfets, V. O., Bernstein, et al
2021
- **Impact of Institutional Routine Endomyocardial Surveillance Biopsy Practices on Rejection and Graft Survival in Pediatric Heart Transplantation**
Duong, S. Q., Zhang, Y., Hall, M., Hollander, S., Thurm, C. W., Bernstein, D., Feingold, B., Godown, J., Almond, C.
ELSEVIER SCIENCE INC.2021: S121-S122
- **Induction and Increased Risk of Infections in Pediatric Fontan Patients after Heart Transplantation**
Ahmed, H., Lee, J., Bernstein, D., Weinberg, K., Rosenthal, D. N., Lee, D., Barkoff, L., Hollander, S., Chen, S.
ELSEVIER SCIENCE INC.2021: S120
- **Molecular Mechanisms and Cellular Models of Hypertrophic Cardiomyopathy: Insights from a Surprising Mutation**
Vander Roest, A. S., Liu, C., Kooiker, K. B., Morck, M. M., Pruitt, B., Campbell, K. S., Ruppel, K., Spudich, J. A., Bernstein, D.
CELL PRESS.2021: 253A
- **Transcriptomic and Functional Analyses of Mitochondrial Dysfunction in Pressure Overload-Induced Right Ventricular Failure.** *Journal of the American Heart Association*
Hwang, H. V., Sandeep, N., Nair, R. V., Hu, D., Zhao, M., Lan, I. S., Fajardo, G., Matkovich, S. J., Bernstein, D., Reddy, S.
2021: e017835
- **#2-Adrenergic Signaling Modulates Mitochondrial Function and Morphology in Skeletal Muscle in Response to Aerobic Exercise.** *Cells*
Azevedo Voltarelli, V. n., Coronado, M. n., Gonçalves Fernandes, L. n., Cruz Campos, J. n., Jannig, P. R., Batista Ferreira, J. C., Fajardo, G. n., Chakur Brum, P. n., Bernstein, D. n.
2021; 10 (1)
- **Dach1 Extends Artery Networks and Protects Against Cardiac Injury.** *Circulation research*
Rafrey, B., Williams, I. M., Rios Coronado, P. E., Fan, X., Chang, A. H., Zhao, M., Roth, R. K., Trimm, E., Racelis, R., D'Amato, G., Phansalkar, R., Nguyen, A., Chai, et al
2021
- **Comparison of combined heart/liver vs heart-only transplantation in pediatric and young adult Fontan recipients.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
Sganga, D., Hollander, S. A., Vaikunth, S., Haeffele, C., Bensen, R., Navaratnam, M., McDonald, N., Profitta, E., Maeda, K., Concepcion, W., Bernstein, D., Chen, S.
2020
- **Association of Damaging Variants in Genes With Increased Cancer Risk Among Patients With Congenital Heart Disease.** *JAMA cardiology*
Morton, S. U., Shimamura, A., Newburger, P. E., Opotowsky, A. R., Quiat, D., Pereira, A. C., Jin, S. C., Gurvitz, M., Brueckner, M., Chung, W. K., Shen, Y., Bernstein, D., Gelb, et al
2020
- **Patient-Specific Induced Pluripotent Stem Cells Implicate Intrinsic Impaired Contractility in Hypoplastic Left Heart Syndrome.** *Circulation*

- Paige, S. L., Galdos, F. X., Lee, S., Chin, E. T., Ranjbarvaziri, S., Feyen, D. A., Darsha, A. K., Xu, S., Ryan, J. A., Beck, A. L., Qureshi, M. Y., Miao, Y., Gu, et al 2020; 142 (16): 1605–8
- **GATA6 mutations in hiPSCs inform mechanisms for maldevelopment of the heart, pancreas, and diaphragm.** *eLife*
Sharma, A., Wasson, L. K., Willcox, J. A., Morton, S. U., Gorham, J. M., DeLaughter, D. M., Neyazi, M., Schmid, M., Agarwal, R., Jang, M. Y., Toepfer, C. N., Ward, T., Kim, et al 2020; 9
 - **Noncanonical WNT Activation in Human Right Ventricular Heart Failure** *FRONTIERS IN CARDIOVASCULAR MEDICINE*
Edwards, J. J., Brandimarto, J., Hu, D., Jeong, S., Yucel, N., Li, L., Bedi, K. C., Wada, S., Murashige, D., Hwang, H. V., Zhao, M., Margulies, K. B., Bernstein, et al 2020; 7: 582407
 - **Diagnosis and treatment of right ventricular dysfunction in congenital heart disease** *CARDIOVASCULAR DIAGNOSIS AND THERAPY*
Santens, B., Van de Bruaene, A., De Meester, P., D'Alto, M., Reddy, S., Bernstein, D., Koestenberger, M., Hansmann, G., Budts, W. 2020; 10 (5): 1625–45
 - **Stanford University School of Medicine** *ACADEMIC MEDICINE*
Bernstein, D., Irvine, C. A., Basaviah, P., Lau, J. N., Austin, B., Utz, P. J., Gesundheit, N. 2020; 95 (9): S50–S53
 - **4HNE Impairs Myocardial Bioenergetics in Congenital Heart DiseaseInduced Right Ventricular Failure.** *Circulation*
Hwang, H. V., Sandeep, N., Paige, S. L., Ranjbarvaziri, S., Hu, D., Zhao, M., Lan, I. S., Coronado, M., Kooiker, K. B., Wu, S. M., Fajardo, G., Bernstein, D., Reddy, et al 2020
 - **De Novo Damaging Variants, Clinical Phenotypes, and Post-Operative Outcomes in Congenital Heart Disease.** *Circulation. Genomic and precision medicine*
Boskovski, M. T., Homsy, J., Nathan, M., Sleeper, L. A., Morton, S., Manheimer, K. B., Tai, A., Gorham, J., Lewis, M., Swartz, M., Alfieris, G. M., Bacha, E. A., Karimi, et al 2020; 13 (4): e002836
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