




## 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

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### ACADEMIC CONTACT INFORMATION

- **Office of Medical Education**

Associate Dean for Curriculum and Scholarship

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## Bio

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### 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: New York University 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

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### 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 Specified

## Teaching

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### COURSES

#### 2025-26

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

#### 2024-25

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

#### 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)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Joey Yoniles

#### Postdoctoral Faculty Sponsor

Perna Giri

## Publications

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### PUBLICATIONS

- **Python metabolomics uncovers a conserved postprandial metabolite and gut-brain feeding pathway.** *Nature metabolism*  
Xiao, S., Wang, M., Martin, T. G., Scott, B., Fang, X., Liu, X., Yang, Y., Fu, S., Truong, S. D., Gugel, J. F., Maas, G. L., Mullen, M. P., Hill, et al  
2026
- **Mechanisms of mechanosensing by MLP and  $\alpha$ -actinin-2 in cardiac hypertrophy**  
Bhat, A., Vera, C., Marang, C., Giri, P., Bernstein, D., Dunn, A.  
CELL PRESS.2026: 327a
- **Getting to the heart of hypertrophic cardiomyopathy with cryogenic electron tomography**

Yoniles, J., Zaoralova, M., Fajardo, G., Giri, P., Engel, L., Bernstein, D., Dunn, A. R., Dahlberg, P. D.  
CELL PRESS.2026: 9a

- **Hypertrophic Cardiomyopathy is a Disease of Altered Metabolism: Interdependence of Hypercontractility, Oxidative Stress, and Creatine Kinase Dysfunction.** *Circulation*  
Bernstein, D., Fajardo, G.  
2025; 152 (24): 1728-1731
- **Fifty-Year Pediatric Heart Transplant Outcomes: A Pediatric-Adult Center Linked Analysis.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*  
Hollander, S. A., Hsiao, S., Varshney, A. S., Luikart, H., Raissadati, A., Bernstein, D., Ma, M., Wujcik, K., Barkoff, L., Dykes, J., Lee, D., Rosenthal, D. N.  
2025
- **Monotherapy Immunosuppression in Pediatric Heart Transplant Recipients.** *Pediatric transplantation*  
Profita, E. L., Lee, J., Lee, D., Barkoff, L., Wujcik, K., Chen, C. Y., Bernstein, D., Hollander, S. A.  
2025; 29 (6): e70157
- **Long-Term Outcomes of Total Lymphoid Irradiation (TLI) Following Pediatric Heart Transplantation**  
Chin, P., Pan, T., Bernstein, D.  
ELSEVIER SCIENCE INC.2025
- **Genome sequencing is critical for forecasting outcomes following congenital cardiac surgery.** *Nature communications*  
Watkins, W. S., Hernandez, E. J., Miller, T. A., Blue, N. R., Zimmerman, R. M., Griffiths, E. R., Frise, E., Bernstein, D., Boskovski, M. T., Brueckner, M., Chung, W. K., Gaynor, J. W., Gelb, et al  
2025; 16 (1): 6365
- **Systolic Performance of the Single Ventricle, Exercise Capacity, and Endothelial Function in Pediatric Fontan Patients.** *American heart journal*  
Gallegos, F. N., Bernstein, D., Punn, R., Long, J., Stauffer, K. J., Thorson, K., Chen, S., Lui, M. C., Olson, I., Myers, J., Palaniappan, L., Tierney, S.  
2025
- **EXERCISE CAPACITY, ENDOTHELIAL FUNCTION, AND MUSCLE MASS IN PEDIATRIC FONTAN PATIENTS: DOES BIOLOGICAL SEX MATTER?**  
Lui, M., Bernstein, D., Palaniappan, L. P., Leonard, M., Long, J., Olson, I. L., Cooke, J. P., Myers, J. N., Tierney, E.  
ELSEVIER SCIENCE INC.2025: 792
- **Genomic analysis of 11,555 probands identifies 60 dominant congenital heart disease genes.** *Proceedings of the National Academy of Sciences of the United States of America*  
Sierant, M. C., Jin, S. C., Bilguvar, K., Morton, S. U., Dong, W., Jiang, W., Lu, Z., Li, B., López-Giráldez, F., Tikhonova, I., Zeng, X., Lu, Q., Choi, et al  
2025; 122 (13): e2420343122
- **Fifty Year Outcomes After Pediatric Heart Transplantation: A Pediatric-Adult Center Linked Analysis**  
Hollander, S. A., Hsiao, S., Varshney, A., Luikart, H., Bernstein, D., Chen, C., Martin, E., Ma, M., Profita, E., Wujcik, K., Barkoff, L., Rosenthal, D. N.  
ELSEVIER SCIENCE INC.2025
- **Outcomes After Transition from Pediatric to Adult Heart Transplant Care: A Pediatric-Adult Center Linked Analysis**  
Barkoff, L., Hsiao, S., Varshney, A., Bernstein, D., Wujcik, K., Ma, M., Martin, E., Profita, E. L., Rosenthal, D. N., Hollander, S. A.  
ELSEVIER SCIENCE INC.2025
- **Recessive genetic contribution to congenital heart disease in 5,424 probands.** *Proceedings of the National Academy of Sciences of the United States of America*  
Dong, W., Jin, S. C., Sierant, M. C., Lu, Z., Li, B., Lu, Q., Morton, S. U., Zhang, J., López-Giráldez, F., Nelson-Williams, C., Knight, J. R., Zhao, H., Cao, et al  
2025; 122 (10): e2419992122
- **P46Shc Inhibits Mitochondrial ACAA2 Thiolase, Exacerbating Mitochondrial Injury and Inflammation in Aging Livers.** *The American journal of pathology*  
Li, Y., Fan, W., Lo, T. H., Jiang, J. X., Fish, S. R., Tomilov, A., Chronopoulos, A., Bansal, V., Mozes, G., Vancza, L., Kunimoto, K., Ye, J., Becker, et al  
2024

- **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
- **PEDSQL, EXERCISE CAPACITY, AND ENDOTHELIAL FUNCTION IN PEDIATRIC FONTAN PATIENTS**  
Jose, J., Bernstein, D., Palaniappan, L. P., Leonard, M., Long, J., Desai, M., Lui, M., Davila, T., Cooke, J. P., Olson, I. L., Myers, J. N., Schneider, L., Tierney, et al  
ELSEVIER SCIENCE INC.2024: 2407
- **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., Alejandre 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. J., Roussel, et al  
2023
- **Corrigendum to "Drp1/Fis1 interaction mediates mitochondrial dysfunction in septic cardiomyopathy" [Journal: Molecular of 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-β-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.  
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