Daniel Bernstein

List of Publications by Year
in descending order

122 papers	7,100 citations	87843 38 h-index	62565 80 g-index
127 all docs	127 docs citations	127 times ranked	11342 citing authors

#	Article	IF	Citations
1	A long noncoding RNA protects the heart from pathological hypertrophy. Nature, 2014, 514, 102-106.	13.7	672
2	Human induced pluripotent stem cellâ€“derived cardiomyocytes recapitulate the predilection of breast cancer patients to doxorubicin-induced cardiotoxicity. Nature Medicine, 2016, 22, 547-556.	15.2	573
3	Epicardial FSTL1 reconstitution regenerates the adult mammalian heart. Nature, 2015, 525, 479-485.	13.7	402
4	Circulating Cell-Free DNA Enables Noninvasive Diagnosis of Heart Transplant Rejection. Science Translational Medicine, 2014, 6, 241ra77.	5.8	388
5	FK506 activates BMPR2, rescues endothelial dysfunction, and reverses pulmonary hypertension. Journal of Clinical Investigation, 2013, 123, 3600-3613.	3.9	354
6	Macrophage de novo NAD+ synthesis specifies immune function in aging and inflammation. Nature Immunology, 2019, 20, 50-63.	7.0	304
7	Indications for Heart Transplantation in Pediatric Heart Disease. Circulation, 2007, 115, 658-676.	1.6	269
8	A coding variant in RARG confers susceptibility to anthracycline-induced cardiotoxicity in childhood cancer. Nature Genetics, 2015, 47, 1079-1084.	9.4	214
9	Metabolic Maturation Media Improve Physiological Function of Human iPSC-Derived Cardiomyocytes. Cell Reports, 2020, 32, 107925.	2.9	198
10	Clinical usefulness of a novel C1q assay to detect immunoglobulin G antibodies capable of fixing complement in sensitized pediatric heart transplant patients. Journal of Heart and Lung Transplantation, 2011, 30, 158-163.	0.3	196
11	Recommendations for genetic testing to reduce the incidence of anthracyclineâ€induced cardiotoxicity. British Journal of Clinical Pharmacology, 2016, 82, 683-695.	1.1	188
12	iPSC-derived cardiomyocytes reveal abnormal TGF-Î² signalling in left ventricular non-compaction cardiomyopathy. Nature Cell Biology, 2016, 18, 1031-1042.	4.6	148
13	Molecular Mechanisms of Right Ventricular Failure. Circulation, 2015, 132, 1734-1742.	1.6	123
14	Pediatric Heart Transplantation at Stanford: Results of a 15-Year Experience. Pediatrics, 1991, 88, 203-214.	1.0	121
15	Drp1/Fis1 interaction mediates mitochondrial dysfunction in septic cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2019, 130, 160-169.	0.9	101
16	Genomic analyses implicate noncoding de novo variants in congenital heart disease. Nature Genetics, 2020, 52, 769-777.	9.4	97
17	De Novo and Rare Variants at Multiple Loci Support the Oligogenic Origins of Atrioventricular Septal Heart Defects. PLoS Genetics, 2016, 12, e1005963.	1.5	92
18	Physiological Mitochondrial Fragmentation Is a Normal Cardiac Adaptation to Increased Energy Demand. Circulation Research, 2018, 122, 282-295.	2.0	90

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19	Altered Cardiac Energetics and Mitochondrial Dysfunction in Hypertrophic Cardiomyopathy. Circulation, 2021, 144, 1714-1731.	1.6	90
20	Human Induced Pluripotent Stem Cell (hiPSC)-Derived Cells to Assess Drug Cardiotoxicity: Opportunities and Problems. Annual Review of Pharmacology and Toxicology, 2018, 58, 83-103.	4.2	89
21	Differential cardioprotective/cardiotoxic effects mediated by Î²-adrenergic receptor subtypes. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H2441-H2449.	1.5	82
22	Substantial Cardiovascular Morbidity in Adults With Lower-Complexity Congenital Heart Disease. Circulation, 2019, 139, 1889-1899.	1.6	81
23	Mitochondrial remodeling: Rearranging, recycling, and reprogramming. Cell Calcium, 2016, 60, 88-101.	1.1	71
24	Early-Onset Hypertrophic Cardiomyopathy Mutations Significantly Increase the Velocity, Force, and Actin-Activated ATPase Activity of Human Î²-Cardiac Myosin. Cell Reports, 2016, 17, 2857-2864.	2.9	69
25	The role of Î²â€Adrenergic Receptor Signaling in Cardioprotection. FASEB Journal, 2005, 19, 983-985.	0.2	68
26	Disparate Distribution of 16 Candidate Single Nucleotide Polymorphisms Among Racial and Ethnic Groups of Pediatric Heart Transplant Patients. Transplantation, 2006, 82, 1774-1780.	0.5	67
27	Exercise assessment of transgenic models of human cardiovascular disease. Physiological Genomics, 2003, 13, 217-226.	1.0	61
28	<scp>l</scp>-Arginine enhances aerobic exercise capacity in association with augmented nitric oxide production. Journal of Applied Physiology, 2001, 90, 933-938.	1.2	59
29	Timeâ€dependent evolution of functional vs. remodeling signaling in induced pluripotent stem cellâ€derived cardiomyocytes and induced maturation with biomechanical stimulation. FASEB Journal, 2016, 30, 1464-1479.	0.2	58
30	De novo and recessive forms of congenital heart disease have distinct genetic and phenotypic landscapes. Nature Communications, 2019, 10, 4722.	5.8	58
31	Protein Corona Influences Cellâ€“Biomaterial Interactions in Nanostructured Tissue Engineering Scaffolds. Advanced Functional Materials, 2015, 25, 4379-4389.	7.8	57
32	Genetic Polymorphisms Impact the Risk of Acute Rejection in Pediatric Heart Transplantation: A Multi-Institutional Study. Transplantation, 2008, 85, 1632-1639.	0.5	56
33	Infection-resistant MRI-visible scaffolds for tissue engineering applications. BioImpacts, 2016, 6, 111-115.	0.7	55
34	Î²-Cardiac myosin hypertrophic cardiomyopathy mutations release sequestered heads and increase enzymatic activity. Nature Communications, 2019, 10, 2685.	5.8	54
35	The role of Î²-adrenergic receptors in heart failure: Differential regulation of cardiotoxicity and cardioprotection. Progress in Pediatric Cardiology, 2011, 31, 35-38.	0.2	53
36	Epigenetic response to environmental stress: Assembly of BRG1â€“G9a/GLPâ€“DNMT3 repressive chromatin complex on Myh6 promoter in pathologically stressed hearts. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 1772-1781.	1.9	53

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37	Angiotensin-Converting Enzyme Inhibition Early After Heart Transplantation. Journal of the American College of Cardiology, 2017, 69, 2832-2841.	1.2	50
38	Identification of Drug Transporter Genomic Variants and Inhibitors That Protect Against Doxorubicin-Induced Cardiotoxicity. Circulation, 2022, 145, 279-294.	1.6	46
39	[Pyr1]-Apelin-13 delivery via nano-liposomal encapsulation attenuates pressure overload-induced cardiac dysfunction. Biomaterials, 2015, 37, 289-298.	5.7	44
40	New insights into mitral valve dystrophy: a Filamin-A genotypeâ€“phenotype and outcome study. European Heart Journal, 2018, 39, 1269-1277.	1.0	44
41	Hypertrophic cardiomyopathy Î²-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, 2021, 118, .	3.3	43
42	Î²2-adrenergic receptors mediate cardioprotection through crosstalk with mitochondrial cell death pathways. Journal of Molecular and Cellular Cardiology, 2011, 51, 781-789.	0.9	37
43	Lipoprotein abnormalities are highly prevalent in pediatric heart transplant recipients. Pediatric Transplantation, 2000, 4, 193-199.	0.5	36
44	Lower socioeconomic status is associated with worse outcomes after both listing and transplanting children with heart failure. Pediatric Transplantation, 2013, 17, 573-581.	0.5	36
45	RARG variant predictive of doxorubicin-induced cardiotoxicity identifies a cardioprotective therapy. Cell Stem Cell, 2021, 28, 2076-2089.e7.	5.2	36
46	Nat1 Deficiency Is Associated with Mitochondrial Dysfunction and Exercise Intolerance in Mice. Cell Reports, 2016, 17, 527-540.	2.9	35
47	Gene Expression Profiling Distinguishes a Molecular Signature for Grade 1B Mild Acute Cellular Rejection in Cardiac Allograft Recipients. Journal of Heart and Lung Transplantation, 2007, 26, 1270-1280.	0.3	34
48	Association of Damaging Variants in Genes With Increased Cancer Risk Among Patients With Congenital Heart Disease. JAMA Cardiology, 2021, 6, 457.	3.0	34
49	Patient-Specific Induced Pluripotent Stem Cells Implicate Intrinsic Impaired Contractility in Hypoplastic Left Heart Syndrome. Circulation, 2020, 142, 1605-1608.	1.6	33
50	Atrial tachyarrhythmias and permanent pacing after pediatric heart transplantation. Journal of Heart and Lung Transplantation, 2003, 22, 1126-1133.	0.3	31
51	Anthracycline Cardiotoxicity. Circulation Research, 2018, 122, 188-190.	2.0	31
52	miR-21 is associated with fibrosis and right ventricular failure. JCI Insight, 2017, 2, .	2.3	31
53	GATA6 mutations in hiPSCs inform mechanisms for maldevelopment of the heart, pancreas, and diaphragm. ELife, 2020, 9, .	2.8	31
54	De Novo Damaging Variants, Clinical Phenotypes, and Post-Operative Outcomes in Congenital Heart Disease. Circulation Genomic and Precision Medicine, 2020, 13, e002836.	1.6	30

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55	Association of Left Ventricular Dilation at Listing for Heart Transplant With Postlisting and Early Posttransplant Mortality in Children With Dilated Cardiomyopathy. Circulation: Heart Failure, 2009, 2, 591-598.	1.6	29
56	The use of advanced-age donor hearts adversely affects survival in pediatric heart transplantation. Pediatric Transplantation, 1999, 3, 309-314.	0.5	28
57	Mitochondria shape cardiac metabolism. Science, 2015, 350, 1162-1163.	6.0	28
58	Dach1 Extends Artery Networks and Protects Against Cardiac Injury. Circulation Research, 2021, 129, 702-716.	2.0	28
59	Rare genetic variation at transcription factor binding sites modulates local DNA methylation profiles. PLoS Genetics, 2020, 16, e1009189.	1.5	27
60	Phospholamban deficiency does not compromise exercise capacity. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 276, H1172-H1177.	1.5	24
61	Cardiovascular and Metabolic Alterations in Mice Lacking Î²1- and Î²2-Adrenergic Receptors. Trends in Cardiovascular Medicine, 2002, 12, 287-294.	2.3	22
62	Pathologic gene network rewiring implicates PPP1R3A as a central regulator in pressure overload heart failure. Nature Communications, 2019, 10, 2760.	5.8	22
63	Comparison of combined heartâ€'liver vs heart-only transplantation in pediatric and young adult Fontan recipients. Journal of Heart and Lung Transplantation, 2021, 40, 298-306.	0.3	22
64	Gene Polymorphisms Impact the Risk of Rejection With Hemodynamic Compromise: A Multicenter Study. Transplantation, 2011, 91, 1326-1332.	0.5	21
65	Chronic Hypoxemia in the Newborn Lamb: Cardiovascular, Hematopoietic, and Growth Adaptations. Pediatric Research, 1985, 19, 1004-1010.	1.1	20
66	Use of bio-mimetic three-dimensional technology in therapeutics for heart disease. Bioengineered, 2014, 5, 193-197.	1.4	20
67	Use of the Impella 5.0 as a bridge from ECMO to implantation of the HeartMate II left ventricular assist device in a pediatric patient. Pediatric Transplantation, 2012, 16, 205-206.	0.5	19
68	Na⁺-sensitive elevation in blood pressure is ENaC independent in diet-induced obesity and insulin resistance. American Journal of Physiology - Renal Physiology, 2016, 310, F812-F820.	1.3	19
69	HLA desensitization with bortezomib in a highly sensitized pediatric patient. Pediatric Transplantation, 2014, 18, E280-2.	0.5	18
70	Functional Assays to Screen and Dissect Genomic Hits. Circulation Genomic and Precision Medicine, 2018, 11, e002178.	1.6	18
71	Compassionate deactivation of ventricular assist devices in children: A survey of pediatric ventricular assist device cliniciansâ€™ perspectives and practices. Pediatric Transplantation, 2019, 23, e13359.	0.5	18
72	Redistribution of Regional Blood Flow and Oxygen Delivery in Experimental Cyanotic Heart Disease in Newborn Lambs. Pediatric Research, 1987, 22, 389-393.	1.1	17

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73	Improving Right Ventricular Function by Increasing BMP Signaling with FK506. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 272-287.	1.4	16
74	Impact of Heart Transplantation on the Functional Status of US Children With End-Stage Heart Failure. Circulation, 2017, 135, 939-950.	1.6	15
75	Systems Analysis Implicates WAVE2ÂComplex in the Pathogenesis ofÂDevelopmental Left-Sided ObstructiveÂHeart Defects. JACC Basic To Translational Science, 2020, 5, 376-386.	1.9	15
76	Î²2-Adrenergic Signaling Modulates Mitochondrial Function and Morphology in Skeletal Muscle in Response to Aerobic Exercise. Cells, 2021, 10, 146.	1.8	15
77	Coronary blood vessels from distinct origins converge to equivalent states during mouse and human development. ELife, 2021, 10, .	2.8	15
78	4HNE Impairs Myocardial Bioenergetics in Congenital Heart Disease-Induced Right Ventricular Failure. Circulation, 2020, 142, 1667-1683.	1.6	14
79	Multi-institutional Study of Outcomes After Pediatric Heart Transplantation: Candidate Gene Polymorphism Analysis of ABCC2. Journal of Pediatric Pharmacology and Therapeutics, 2014, 19, 16-24.	0.3	14
80	Pharmacogenomic screening for anthracyclineâ€induced cardiotoxicity in childhood cancer. British Journal of Clinical Pharmacology, 2017, 83, 1143-1145.	1.1	13
81	Cardiac transplantation for hypertrophic cardiomyopathy associated with sengers' syndrome. Annals of Thoracic Surgery, 1995, 60, 1425-1427.	0.7	12
82	Association of genetic polymorphisms and risk of late post-transplantation infection in pediatric heart recipients. Journal of Heart and Lung Transplantation, 2010, 29, 1342-1351.	0.3	12
83	Transcriptomic and Functional Analyses of Mitochondrial Dysfunction in Pressure Overloadâ€Induced Right Ventricular Failure. Journal of the American Heart Association, 2021, 10, e017835.	1.6	12
84	Rehospitalization after pediatric heart transplantation: Incidence, indications, and outcomes. Pediatric Transplantation, 2017, 21, e12857.	0.5	11
85	Diagnosis and treatment of right ventricular dysfunction in congenital heart disease. Cardiovascular Diagnosis and Therapy, 2020, 10, 1625-1645.	0.7	11
86	Comparative Circulatory Effects of Isoproterenol and Dopamine in Lambs with Experimental Cyanotic Heart Disease. Pediatric Research, 1991, 29, 323-333.	1.1	10
87	Dynamics of Viral and Host Immune Cell MicroRNA Expression during Acute Infectious Mononucleosis. Frontiers in Microbiology, 2018, 8, 2666.	1.5	10
88	Clinical and hemodynamic characteristics of the pediatric failing Fontan. Journal of Heart and Lung Transplantation, 2021, 40, 1529-1539.	0.3	10
89	Genotypic Variation and Phenotypic Characterization of Granzyme B Gene Polymorphisms. Transplantation, 2009, 87, 1801-1806.	0.5	9
90	Renal function and genetic polymorphisms in pediatric heart transplant recipients. Journal of Heart and Lung Transplantation, 2012, 31, 1003-1008.	0.3	9

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91	Patient-specific pluripotent stem cells in doxorubicin cardiotoxicity: A new window into personalized medicine. Progress in Pediatric Cardiology, 2014, 37, 23-27.	0.2	9
92	Changes in Risk Profile Over Time in the Population of a Pediatric Heart Transplant Program. Annals of Thoracic Surgery, 2015, 100, 989-995.	0.7	8
93	Genome-Wide De Novo Variants in Congenital Heart Disease Are Not Associated With Maternal Diabetes or Obesity. Circulation Genomic and Precision Medicine, 2022, 15, CIRCGEN121003500.	1.6	8
94	New directions in basic research in hypertrophy and heart failure: Relevance for pediatric cardiology. Progress in Pediatric Cardiology, 2011, 32, 5-9.	0.2	7
95	Renin-Angiotensin-Aldosterone System Inhibitors for Right Ventricular Dysfunction in Tetralogy of Fallot. Circulation, 2018, 137, 1472-1474.	1.6	7
96	Chronic Anemia in the Newborn Lamb: Cardiovascular Adaptations and Comparison to Chronic Hypoxemia. Pediatric Research, 1988, 23, 621-627.	1.1	6
97	Introduction to the Series. Circulation, 2014, 129, 112-114.	1.6	6
98	Task Force 8: Pediatric Cardiology Fellowship Training in Research and Scholarly Activity. Circulation, 2015, 132, e107-13.	1.6	6
99	Noncanonical WNT Activation in Human Right Ventricular Heart Failure. Frontiers in Cardiovascular Medicine, 2020, 7, 582407.	1.1	6
100	Impact of the 18th birthday on waitlist outcomes among young adults listed for heart transplant: A regression discontinuity analysis. Journal of Heart and Lung Transplantation, 2017, 36, 1185-1191.	0.3	5
101	Neither cardiac mitochondrial DNA variation nor copy number contribute to congenital heart disease risk. American Journal of Human Genetics, 2022, 109, 961-966.	2.6	5
102	Impact of institutional routine surveillance endomyocardial biopsy frequency in the first year on rejection and graft survival in pediatric heart transplantation. Pediatric Transplantation, 2021, 25, e14035.	0.5	4
103	Developmental and Afterload Stress Regulation of Heat Shock Proteins in the Ovine Myocardium1. Pediatric Research, 1997, 41, 51-56.	1.1	4
104	Mitochondrial Quality Control in the Heart: The Balance between Physiological and Pathological Stress. Biomedicines, 2022, 10, 1375.	1.4	4
105	Thalidomide treatment prevents chronic graft rejection after aortic transplantation in rats - an experimental study. Transplant International, 2017, 30, 1181-1189.	0.8	3
106	Response by Bernstein to Letter Regarding Article, â€œAnthracycline Cardiotoxicity: Worrisome Enough to Have You Quaking?â€. Circulation Research, 2018, 122, e64-e65.	2.0	3
107	American Pediatric Society/Society for Pediatric Research Code of Responsible Conduct of Research. Pediatric Research, 1999, 45, 613-614.	1.1	3
108	Induced pluripotent stem cell-derived cardiomyocytes: A platform for testing for drug cardiotoxicity. Progress in Pediatric Cardiology, 2017, 46, 2-6.	0.2	2

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109	Advances in pediatric cardiology 2016. Current Opinion in Pediatrics, 2016, 28, 573-574.	1.0	1
110	Fatal nocardiosis infection in a pediatric patient with an immunodeficiency after heart <scp>reâ€transplantation</scp>. Pediatric Transplantation, 0, , .	0.5	1
111	Linearity versus Cross-Talk: Biological Models and the Role of the Society for Pediatric Research in the 21st Century. Pediatric Research, 2004, 56, 177-183.	1.1	0
112	Long-term challenges in congenital heart disease. Current Opinion in Pediatrics, 2015, 27, 545-547.	1.0	0
113	Innovative tools in the individualized medical therapy for children with heart muscle disease. Progress in Pediatric Cardiology, 2015, 39, 37-41.	0.2	0
114	Regenerative medicine - From stem cell biology to clinical trials for pediatric heart failure. Progress in Pediatric Cardiology, 2016, 43, 87-89.	0.2	0
115	Advances in paediatric cardiology 2017: the genetics of paediatric cardiovascular disease. Current Opinion in Pediatrics, 2017, 29, 511-512.	1.0	0
116	Advances in pediatric cardiology 2018. Current Opinion in Pediatrics, 2018, 30, 599-600.	1.0	0
117	On the Functional Assessment of Hypertrophic Cardiomyopathy-Causing Mutations in Human Î²-Cardiac Myosin and the Role of Myosin Binding Protein-C. Biophysical Journal, 2019, 116, 466a-467a.	0.2	0
118	Stem cells. Current Opinion in Pediatrics, 2019, 31, 617-622.	1.0	0
119	Editorial: Advances in Pediatric Cardiology 2020. Current Opinion in Pediatrics, 2020, 32, 625.	1.0	0
120	Abstract 248: Aberrant TGFÎ² Signaling as an Etiology of Left Ventricular Non-compaction Cardiomyopathy. Circulation Research, 2015, 117, .	2.0	0
121	Stanford University School of Medicine. Academic Medicine, 2020, 95, S50-S53.	0.8	0
122	Hybrid management of dysphagia lusoria in a boy with Duchenneâ€™s muscular dystrophy. Cardiology in the Young, 2022, , 1-3.	0.4	0