Vidu Garg

List of Publications by Year
in descending order

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96 papers	6,824 citations	87888 38 h-index	62596 80 g-index
107 all docs	107 docs citations	107 times ranked	7898 citing authors

#	Article	IF	Citations
1	Gender Differences in Physical Activity Engagement Among Adolescents With Congenital Heart Disease. Journal of Pediatric Psychology, 2022, 47, 859-869.	2.1	4
2	OUP accepted manuscript. European Heart Journal, 2022, , .	2.2	5
3	Probing single ventricle heart defects with <scp>patientâ€derived</scp> induced pluripotent stem cells and emerging technologies. Birth Defects Research, 2022, , .	1.5	3
4	Single-Cell RNA Sequencing Reveals Novel Genes Regulated by Hypoxia in the Lung Vasculature. Journal of Vascular Research, 2022, 59, 163-175.	1.4	4
5	Use of machine learning to classify high-risk variants of uncertain significance in lamin A/C cardiac disease. Heart Rhythm, 2022, 19, 676-685.	0.7	3
6	Inhibition of BKCa channels protects neonatal hearts against myocardial ischemia and reperfusion injury. Cell Death Discovery, 2022, 8, 175.	4.7	3
7	Exome sequencing in multiplex families with left-sided cardiac defects has high yield for disease gene discovery. PLoS Genetics, 2022, 18, e1010236.	3.5	8
8	Molecular genetic mechanisms of congenital heart disease. Current Opinion in Genetics and Development, 2022, 75, 101949.	3.3	10
9	In Vivo and In Vitro Genetic Models of Congenital Heart Disease. Cold Spring Harbor Perspectives in Biology, 2021, 13, a036764.	5.5	23
10	Galectin-3 and sST2 as Prognosticators for Heart Failure Requiring Extracorporeal Life Support: Jack nâ€™ Jill. Biomolecules, 2021, 11, 166.	4.0	6
11	Nitric oxide prevents aortic valve calcification by S-nitrosylation of USP9X to activate NOTCH signaling. Science Advances, 2021, 7, .	10.3	43
12	Integrative analysis of genomic variants reveals new associations of candidate haploinsufficient genes with congenital heart disease. PLoS Genetics, 2021, 17, e1009679.	3.5	17
13	Common deletion variants causing protocadherin-Î± deficiency contribute to the complex genetics of BAV and left-sided congenital heart disease. Human Genetics and Genomics Advances, 2021, 2, 100037.	1.7	7
14	A Multi-Omics Approach Using a Mouse Model of Cardiac Malformations for Prioritization of Human Congenital Heart Disease Contributing Genes. Frontiers in Cardiovascular Medicine, 2021, 8, 683074.	2.4	2
15	Human Stem Cell Models of SARS-CoV-2 Infection in the Cardiovascular System. Stem Cell Reviews and Reports, 2021, 17, 2107-2119.	3.8	0
16	miRâ€145 transgenic mice develop cardiopulmonary complications leading to postnatal death. Physiological Reports, 2021, 9, e15013.	1.7	1
17	Genetics of congenital heart disease: a narrative review of recent advances and clinical implications. Translational Pediatrics, 2021, 10, 2366-2386.	1.2	26
18	Impact of maternal hyperglycemia on cardiac development: Insights from animal models. Genesis, 2021, 59, e23449.	1.6	4

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19	Decoding Genetics of Congenital Heart Disease Using Patient-Derived Induced Pluripotent Stem Cells (iPSCs). Frontiers in Cell and Developmental Biology, 2021, 9, 630069.	3.7	17
20	A Randomized Clinical Trial Demonstrating Feasibility and Preliminary Efficacy of a Videoconference-Delivered Physical Activity Lifestyle Intervention Among Adolescents With a Congenital Heart Defect. Annals of Behavioral Medicine, 2021, , .	2.9	1
21	Cardiomyocyte Proliferation and Maturation: Two Sides of the Same Coin for Heart Regeneration. Frontiers in Cell and Developmental Biology, 2020, 8, 594226.	3.7	50
22	Novel frameshift variant in MYL2 reveals molecular differences between dominant and recessive forms of hypertrophic cardiomyopathy. PLoS Genetics, 2020, 16, e1008639.	3.5	16
23	Subtype-specific cardiomyocytes for precision medicine: Where are we now?. Stem Cells, 2020, 38, 822-833.	3.2	24
24	Abstract 436: Maternal Pregestational Diabetes Alters Fetal Gene Regulatory Program to Cause Spectrum of Congenital Heart Defects. Circulation Research, 2020, 127, .	4.5	0
25	Abstract 276: NOTCH1 is Essential for Ventricular Cardiomyocyte Differentiation of Human Induced Pluripotent Stem Cells. Circulation Research, 2020, 127, .	4.5	0
26	Abstract 16552: Chromosomal Microarray Abnormalities in More Than 1300 Patients With Congenital Heart Disease Provide Novel Clinical and Etiological Insights. Circulation, 2020, 142, .	1.6	0
27	Reclassification of Variants of Uncertain Significance in Children with Inherited Arrhythmia Syndromes is Predicted by Clinical Factors. Pediatric Cardiology, 2019, 40, 1679-1687.	1.3	24
28	Developmental origins for semilunar valve stenosis identified in mice harboring congenital heart disease-associated GATA4 mutation. DMM Disease Models and Mechanisms, 2019, 12, .	2.4	17
29	Shaping the future heart: transgenerational outcomes of maternal metabolic syndrome. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H1141-H1143.	3.2	1
30	Another Notch in the Genetic Puzzle of Tetralogy of Fallot. Circulation Research, 2019, 124, 462-464.	4.5	7
31	Abstract 650: Dose-response Effect of Hyperglycemia in Maternal Diabetes Mediated Congenital Heart Defects. Circulation Research, 2019, 125, .	4.5	0
32	Nestin expression is dynamically regulated in cardiomyocytes during embryogenesis. Journal of Cellular Physiology, 2018, 233, 3218-3229.	4.1	21
33	The Role of Lipoprotein(a) in Calcific Aortic Valve Disease. JAMA Cardiology, 2018, 3, 24.	6.1	3
34	Maternal hyperglycemia and fetal cardiac development: Clinical impact and underlying mechanisms. Birth Defects Research, 2018, 110, 1504-1516.	1.5	72
35	Genetic Basis for Congenital Heart Disease: Revisited: A Scientific Statement From the American Heart Association. Circulation, 2018, 138, e653-e711.	1.6	387
36	Genetic basis of aortic valvular disease. Current Opinion in Cardiology, 2017, 32, 239-245.	1.8	22

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37	UTILITY OF GENETIC TESTING IN INFANTS WITH ISOLATED CONGENITAL HEART DISEASE. Journal of the American College of Cardiology, 2017, 69, 635.	2.8	0
38	Abnormal Longitudinal Growth of the Aorta in Children with Familial Bicuspid Aortic Valve. Pediatric Cardiology, 2017, 38, 1709-1715.	1.3	4
39	Assessment of large copy number variants in patients with apparently isolated congenital leftâ€sided cardiac lesions reveals clinically relevant genomic events. American Journal of Medical Genetics, Part A, 2017, 173, 2176-2188.	1.2	17
40	Dose-dependent effect of Hyperglycemia during Cardiac Development. Journal of Molecular and Cellular Cardiology, 2017, 112, 153.	1.9	0
41	Epigenetic mechanisms underlying maternal diabetes-associated risk of congenital heart disease. JCI Insight, 2017, 2, .	5.0	59
42	Notch1 haploinsufficiency causes ascending aortic aneurysms in mice. JCI Insight, 2017, 2, .	5.0	44
43	Measuring genetic knowledge: a brief survey instrument for adolescents and adults. Clinical Genetics, 2016, 89, 235-243.	2.0	33
44	Endothelial Notch1 Is Required for Proper Development of the Semilunar Valves and Cardiac Outflow Tract. Journal of the American Heart Association, 2016, 5, .	3.7	55
45	Percutaneous Patent Ductus Arteriosus (PDA) Closure in Very Preterm Infants: Feasibility and Complications. Journal of the American Heart Association, 2016, 5, .	3.7	100
46	Enhancing Literacy in Cardiovascular Genetics: A Scientific Statement From the American Heart Association. Circulation: Cardiovascular Genetics, 2016, 9, 448-467.	5.1	64
47	Utilization of Whole Exome Sequencing to Identify Causative Mutations in Familial Congenital Heart Disease. Circulation: Cardiovascular Genetics, 2016, 9, 320-329.	5.1	71
48	A genome-wide association study of congenital cardiovascular left-sided lesions shows association with a locus on chromosome 20. Human Molecular Genetics, 2016, 25, 2331-2341.	2.9	31
49	Notch Signaling in Aortic Valve Development and Disease. , 2016, , 371-376.		13
50	Rationale for the Cytogenomics of Cardiovascular Malformations Consortium: A Phenotype Intensive Registry Based Approach. Journal of Cardiovascular Development and Disease, 2015, 2, 76-92.	1.6	7
51	Dynamic Heterogeneity of the Heart Valve Interstitial Cell Population in Mitral Valve Health and Disease. Journal of Cardiovascular Development and Disease, 2015, 2, 214-232.	1.6	26
52	Evidence of Aortopathy in Mice with Haploinsufficiency of Notch1 in Nos3-Null Background. Journal of Cardiovascular Development and Disease, 2015, 2, 17-30.	1.6	28
53	Lifetime Prevalence of Sexual Intercourse and Contraception Use at Last Sex Among Adolescents and Young Adults With Congenital Heart Disease. Journal of Adolescent Health, 2015, 56, 396-401.	2.5	22
54	Early versus delayed umbilical cord clamping in infants with congenital heart disease: a pilot, randomized, controlled trial. Journal of Perinatology, 2015, 35, 826-831.	2.0	28

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55	MicroRNA miR145 Regulates TGFBR2 Expression and Matrix Synthesis in Vascular Smooth Muscle Cells. Circulation Research, 2015, 116, 23-34.	4.5	72
56	Rare GATA5 sequence variants identified in individuals with bicuspid aortic valve. Pediatric Research, 2014, 76, 211-216.	2.3	74
57	Disruption of myocardial Gata4 and Tbx5 results in defects in cardiomyocyte proliferation and atrioventricular septation. Human Molecular Genetics, 2014, 23, 5025-5035.	2.9	50
58	Use of a targeted, combinatorial next-generation sequencing approach for the study of bicuspid aortic valve. BMC Medical Genomics, 2014, 7, 56.	1.5	50
59	Pharmacological Inhibitor of Notch Signaling Stabilizes the Progression of Small Abdominal Aortic Aneurysm in a Mouse Model. Journal of the American Heart Association, 2014, 3, e001064.	3.7	50
60	Genetics of Valvular Heart Disease. Current Cardiology Reports, 2014, 16, 487.	2.9	57
61	A unified test of linkage analysis and rare-variant association for analysis of pedigree sequence data. Nature Biotechnology, 2014, 32, 663-669.	17.5	93
62	Beyond genetics: focusing on maternal environment for congenital heart disease prevention. Evidence-Based Medicine, 2014, 19, e8-e8.	0.6	1
63	Etiology of Valvular Heart Disease. Circulation Journal, 2014, 78, 1801-1807.	1.6	45
64	Endothelial nitric oxide signaling regulates Notch1 in aortic valve disease. Journal of Molecular and Cellular Cardiology, 2013, 60, 27-35.	1.9	142
65	Compacting the heart with Notch. Nature Medicine, 2013, 19, 133-134.	30.7	10
66	Genetic Abnormalities inFOXP1Are Associated with Congenital Heart Defects. Human Mutation, 2013, 34, 1226-1230.	2.5	39
67	The Congenital Heart Disease Genetic Network Study. Circulation Research, 2013, 112, 698-706.	4.5	142
68	Congenital Heart Diseaseâ€“Causing Gata4 Mutation Displays Functional Deficits In Vivo. PLoS Genetics, 2012, 8, e1002690.	3.5	77
69	Inhibition of Notch1 Signaling Reduces Abdominal Aortic Aneurysm in Mice by Attenuating Macrophage-Mediated Inflammation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 3012-3023.	2.4	58
70	Submicroscopic Chromosomal Copy Number Variations Identified in Children With Hypoplastic Left Heart Syndrome. Pediatric Cardiology, 2012, 33, 757-763.	1.3	35
71	Molecular Basis of Cardiac Development and Congenital Heart Disease. , 2012, , 317-339.		2
72	Growth of the Normal Human Heart. , 2012, , 1305-1316.		0

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73	Inhibitory Role of Notch1 in Calcific Aortic Valve Disease. PLoS ONE, 2011, 6, e27743.	2.5	96
74	Human balanced translocation and mouse gene inactivation implicate Basonuclin 2 in distal urethral development. European Journal of Human Genetics, 2011, 19, 540-546.	2.8	28
75	Chromosomal Haplotypes by Genetic Phasing of Human Families. American Journal of Human Genetics, 2011, 89, 382-397.	6.2	63
76	Heredity of bicuspid aortic valve: is family screening indicated?. Heart, 2011, 97, 1193-1195.	2.9	19
77	Genetics of Congenital Heart Disease. Current Cardiology Reviews, 2010, 6, 91-97.	1.5	153
78	Impact of Mendelian inheritance in cardiovascular disease. Annals of the New York Academy of Sciences, 2010, 1214, 122-137.	3.8	13
79	Fetal and postnatal lung defects reveal a novel and required role for Fgf8 in lung development. Developmental Biology, 2010, 347, 92-108.	2.0	19
80	Identification of GATA6 Sequence Variants in Patients With Congenital Heart Defects. Pediatric Research, 2010, 68, 281-285.	2.3	105
81	Interaction of Gata4 and Gata6 with Tbx5 is critical for normal cardiac development. Developmental Biology, 2009, 326, 368-377.	2.0	168
82	EXPRESSION PATTERNS OF BASONUCLIN 2 IN PENILE TISSUE. Journal of Urology, 2009, 181, 253-253.	0.4	0
83	A novel mutation in LAMIN A/C is associated with isolated early-onset atrial fibrillation and progressive atrioventricular block followed by cardiomyopathy and sudden cardiac death. Heart Rhythm, 2009, 6, 707-710.	0.7	44
84	Cryptic Chromosomal Abnormalities Identified in Children With Congenital Heart Disease. Pediatric Research, 2008, 64, 358-363.	2.3	91
85	A Rare Human Sequence Variant Reveals Myocardin Autoinhibition. Journal of Biological Chemistry, 2008, 283, 35845-35852.	3.4	15
86	GATA4 sequence variants in patients with congenital heart disease. Journal of Medical Genetics, 2007, 44, 779-783.	3.2	180
87	Spectrum of heart disease associated with murine and human GATA4 mutation. Journal of Molecular and Cellular Cardiology, 2007, 43, 677-685.	1.9	218
88	Screening and biochemical analysis ofGATA4sequence variations identified in patients with congenital heart disease. American Journal of Medical Genetics, Part A, 2007, 143A, 817-823.	1.2	59
89	Molecular genetics of aortic valve disease. Current Opinion in Cardiology, 2006, 21, 180-184.	1.8	104
90	Insights into the genetic basis of congenital heart disease. Cellular and Molecular Life Sciences, 2006, 63, 1141-1148.	5.4	76

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91	Mutations in NOTCH1 cause aortic valve disease. Nature, 2005, 437, 270-274.	27.8	1,274
92	Genetic Underpinnings of Cardiogenesis and Congenital Heart Disease. , 2005, , 155-164.		0
93	GATA4 mutations cause human congenital heart defects and reveal an interaction with TBX5. Nature, 2003, 424, 443-447.	27.8	1,086
94	Tbx1, a DiGeorge Syndrome Candidate Gene, Is Regulated by Sonic Hedgehog during Pharyngeal Arch Development. Developmental Biology, 2001, 235, 62-73.	2.0	282
95	A common cis-acting sequence in the DiGeorge critical region regulates bi-directional transcription of UFD1L and CDC45L. Mechanisms of Development, 2001, 108, 81-92.	1.7	9
96	A Molecular Pathway Revealing a Genetic Basis for Human Cardiac and Craniofacial Defects. Science, 1999, 283, 1158-1161.	12.6	280