Vidu Garg

List of Publications by Year in Descending Order

79 papers	5,363 citations	35 h-index	73 g-index
107 ext. papers	6,275 ext. citations	8 avg, IF	5.42 L-index

#	Paper	IF	Citations
79	Single-Cell RNA Sequencing Reveals Novel Genes Regulated by Hypoxia in the Lung Vasculature. *Journal of Vascular Research*, **2022**, 1-13	1.9	
78	Inhibition of BK channels protects neonatal hearts against myocardial ischemia and reperfusion injury.. *Cell Death Discovery*, **2022**, 8, 175	6.9	0
77	In Vivo and In Vitro Genetic Models of Congenital Heart Disease. *Cold Spring Harbor Perspectives in Biology*, **2021**, 13,	10.2	10
76	Nitric oxide prevents aortic valve calcification by S-nitrosylation of USP9X to activate NOTCH signaling. *Science Advances*, **2021**, 7,	14.3	12
75	Integrative analysis of genomic variants reveals new associations of candidate haploinsufficient genes with congenital heart disease. *PLoS Genetics*, **2021**, 17, e1009679	6	1
74	Common deletion variants causing protocadherin-[illegible]deficiency contribute to the complex genetics of BAV and left-sided congenital heart disease. *Human Genetics and Genomics Advances*, **2021**, 2, 100037-100037	0.8	4
73	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	5.4	0
72	Human Stem Cell Models of SARS-CoV-2 Infection in the Cardiovascular System. *Stem Cell Reviews and Reports*, **2021**, 17, 2107-2119	7.3	
71	miR-145 transgenic mice develop cardiopulmonary complications leading to postnatal death. *Physiological Reports*, **2021**, 9, e15013	2.6	0
70	Genetics of congenital heart disease: a narrative review of recent advances and clinical implications. *Translational Pediatrics*, **2021**, 10, 2366-2386	4.2	5
69	Impact of maternal hyperglycemia on cardiac development: Insights from animal models. *Genesis*, **2021**, 59, e23449	1.9	1
68	Decoding Genetics of Congenital Heart Disease Using Patient-Derived Induced Pluripotent Stem Cells (iPSCs). *Frontiers in Cell and Developmental Biology*, **2021**, 9, 630069	5.7	5
67	Novel frameshift variant in MYL2 reveals molecular differences between dominant and recessive forms of hypertrophic cardiomyopathy. *PLoS Genetics*, **2020**, 16, e1008639	6	5
66	Subtype-specific cardiomyocytes for precision medicine: Where are we now?. *Stem Cells*, **2020**, 38, 822-833	5.8	11
65	Cardiomyocyte Proliferation and Maturation: Two Sides of the Same Coin for Heart Regeneration. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 594226	5.7	15
64	Reclassification of Variants of Uncertain Significance in Children with Inherited Arrhythmia Syndromes is Predicted by Clinical Factors. *Pediatric Cardiology*, **2019**, 40, 1679-1687	2.1	12
63	Developmental origins for semilunar valve stenosis identified in mice harboring congenital heart disease-associated mutation. *DMM Disease Models and Mechanisms*, **2019**, 12,	4.1	9

62	Shaping the future heart: transgenerational outcomes of maternal metabolic syndrome. *American Journal of Physiology - Heart and Circulatory Physiology*, **2019**, 316, H1141-H1143	5.2	0
61	Nestin expression is dynamically regulated in cardiomyocytes during embryogenesis. *Journal of Cellular Physiology*, **2018**, 233, 3218-3229	7	10
60	The Role of Lipoprotein(a) in Calcific Aortic Valve Disease: Insights From a Large-Cohort Genetic Study. *JAMA Cardiology*, **2018**, 3, 24-25	16.2	1
59	Maternal hyperglycemia and fetal cardiac development: Clinical impact and underlying mechanisms. *Birth Defects Research*, **2018**, 110, 1504-1516	2.9	39
58	Genetic Basis for Congenital Heart Disease: Revisited: A Scientific Statement From the American Heart Association. *Circulation*, **2018**, 138, e653-e711	16.7	184
57	Genetic basis of aortic valvular disease. *Current Opinion in Cardiology*, **2017**, 32, 239-245	2.1	19
56	Abnormal Longitudinal Growth of the Aorta in Children with Familial Bicuspid Aortic Valve. *Pediatric Cardiology*, **2017**, 38, 1709-1715	2.1	1
55	Epigenetic mechanisms underlying maternal diabetes-associated risk of congenital heart disease. *JCI Insight*, **2017**, 2,	9.9	33
54	Notch1 haploinsufficiency causes ascending aortic aneurysms in mice. *JCI Insight*, **2017**, 2,	9.9	27
53	Assessment of large copy number variants in patients with apparently isolated congenital left-sided cardiac lesions reveals clinically relevant genomic events. *American Journal of Medical Genetics, Part A*, **2017**, 173, 2176-2188	2.5	7
52	Utilization of Whole Exome Sequencing to Identify Causative Mutations in Familial Congenital Heart Disease. *Circulation: Cardiovascular Genetics*, **2016**, 9, 320-9		39
51	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	5.6	18
50	Notch Signaling in Aortic Valve Development and Disease **2016**, 371-376		9
49	Measuring genetic knowledge: a brief survey instrument for adolescents and adults. *Clinical Genetics*, **2016**, 89, 235-43	4	26
48	Endothelial Notch1 Is Required for Proper Development of the Semilunar Valves and Cardiac Outflow Tract. *Journal of the American Heart Association*, **2016**, 5,	6	40
47	Percutaneous Patent Ductus Arteriosus (PDA) Closure in Very Preterm Infants: Feasibility and Complications. *Journal of the American Heart Association*, **2016**, 5,	6	69
46	Enhancing Literacy in Cardiovascular Genetics: A Scientific Statement From the American Heart Association. *Circulation: Cardiovascular Genetics*, **2016**, 9, 448-467		37
45	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	5.8	16

44	Early versus delayed umbilical cord clamping in infants with congenital heart disease: a pilot, randomized, controlled trial. *Journal of Perinatology*, **2015**, 35, 826-31	3.1	19
43	MicroRNA miR145 regulates TGFBR2 expression and matrix synthesis in vascular smooth muscle cells. *Circulation Research*, **2015**, 116, 23-34	15.7	64
42	Rationale for the Cytogenomics of Cardiovascular Malformations Consortium: A Phenotype Intensive Registry Based Approach. *Journal of Cardiovascular Development and Disease*, **2015**, 2, 76-92	4.2	5
41	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	4.2	20
40	Evidence of Aortopathy in Mice with Haploinsufficiency of in -Null Background. *Journal of Cardiovascular Development and Disease*, **2015**, 2, 17-30	4.2	22
39	Genetics of valvular heart disease. *Current Cardiology Reports*, **2014**, 16, 487	4.2	40
38	A unified test of linkage analysis and rare-variant association for analysis of pedigree sequence data. *Nature Biotechnology*, **2014**, 32, 663-9	44.5	75
37	Beyond genetics: focusing on maternal environment for congenital heart disease prevention. *Evidence-Based Medicine*, **2014**, 19, e8		
36	Etiology of valvular heart disease-genetic and developmental origins. *Circulation Journal*, **2014**, 78, 1801-9	2.9	35
35	Rare GATA5 sequence variants identified in individuals with bicuspid aortic valve. *Pediatric Research* , **2014**, 76, 211-6	3.2	61
34	Disruption of myocardial Gata4 and Tbx5 results in defects in cardiomyocyte proliferation and atrioventricular septation. *Human Molecular Genetics*, **2014**, 23, 5025-35	5.6	35
33	Use of a targeted, combinatorial next-generation sequencing approach for the study of bicuspid aortic valve. *BMC Medical Genomics*, **2014**, 7, 56	3.7	40
32	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	6	38
31	Endothelial nitric oxide signaling regulates Notch1 in aortic valve disease. *Journal of Molecular and Cellular Cardiology*, **2013**, 60, 27-35	5.8	108
30	Genetic abnormalities in FOXP1 are associated with congenital heart defects. *Human Mutation*, **2013**, 34, 1226-30	4.7	35
29	The Congenital Heart Disease Genetic Network Study: rationale, design, and early results. *Circulation Research*, **2013**, 112, 698-706	15.7	104
28	Submicroscopic chromosomal copy number variations identified in children with hypoplastic left heart syndrome. *Pediatric Cardiology*, **2012**, 33, 757-63	2.1	32
27	Congenital heart disease-causing Gata4 mutation displays functional deficits in vivo. *PLoS Genetics*, **2012**, 8, e1002690	6	63

26	Inhibition of Notch1 signaling reduces abdominal aortic aneurysm in mice by attenuating macrophage-mediated inflammation. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, 3012-23	9.4	55
25	Molecular Basis of Cardiac Development and Congenital Heart Disease **2012**, 317-339		2
24	Growth of the Normal Human Heart **2012**, 1305-1316		
23	Inhibitory role of Notch1 in calcific aortic valve disease. *PLoS ONE*, **2011**, 6, e27743	3.7	87
22	Human balanced translocation and mouse gene inactivation implicate Basonuclin 2 in distal urethral development. *European Journal of Human Genetics*, **2011**, 19, 540-6	5.3	20
21	Chromosomal haplotypes by genetic phasing of human families. *American Journal of Human Genetics*, **2011**, 89, 382-97	11	52
20	Impact of Mendelian inheritance in cardiovascular disease. *Annals of the New York Academy of Sciences*, **2010**, 1214, 122-37	6.5	10
19	Fetal and postnatal lung defects reveal a novel and required role for Fgf8 in lung development. *Developmental Biology*, **2010**, 347, 92-108	3.1	18
18	Identification of GATA6 sequence variants in patients with congenital heart defects. *Pediatric Research*, **2010**, 68, 281-5	3.2	86
17	Genetics of congenital heart disease. *Current Cardiology Reviews*, **2010**, 6, 91-7	2.4	120
16	Interaction of Gata4 and Gata6 with Tbx5 is critical for normal cardiac development. *Developmental Biology*, **2009**, 326, 368-77	3.1	144
15	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, 707-10	6.7	40
14	Cryptic chromosomal abnormalities identified in children with congenital heart disease. *Pediatric Research*, **2008**, 64, 358-63	3.2	83
13	A rare human sequence variant reveals myocardin autoinhibition. *Journal of Biological Chemistry*, **2008**, 283, 35845-52	5.4	13
12	Screening and biochemical analysis of GATA4 sequence variations identified in patients with congenital heart disease. *American Journal of Medical Genetics, Part A*, **2007**, 143A, 817-23	2.5	49
11	GATA4 sequence variants in patients with congenital heart disease. *Journal of Medical Genetics*, **2007**, 44, 779-83	5.8	144
10	Spectrum of heart disease associated with murine and human GATA4 mutation. *Journal of Molecular and Cellular Cardiology*, **2007**, 43, 677-85	5.8	187
9	Insights into the genetic basis of congenital heart disease. *Cellular and Molecular Life Sciences*, **2006** , 63, 1141-8	10.3	62

8	Molecular genetics of aortic valve disease. *Current Opinion in Cardiology*, **2006**, 21, 180-4	2.1	85
7	Mutations in NOTCH1 cause aortic valve disease. *Nature*, **2005**, 437, 270-4	50.4	1062
6	Genetic Underpinnings of Cardiogenesis and Congenital Heart Disease **2005**, 155-164		
5	GATA4 mutations cause human congenital heart defects and reveal an interaction with TBX5. *Nature*, **2003**, 424, 443-7	50.4	953
4	Tbx1, a DiGeorge syndrome candidate gene, is regulated by sonic hedgehog during pharyngeal arch development. *Developmental Biology*, **2001**, 235, 62-73	3.1	254
3	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
2	A molecular pathway revealing a genetic basis for human cardiac and craniofacial defects. *Science*, **1999**, 283, 1158-61	33.3	255
1	Natian and Ryabhatta□raphical user interfaces to create, analyze and visualize single-cell transcriptomic datasets		1