Deepak Srivastava

List of Publications by Year
in descending order

149	30,017	9254 74	12585 132
papers	citations	h-index	g-index
234	234	234	29621
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transient Cell Cycle Induction in Cardiomyocytes to Treat Subacute Ischemic Heart Failure. Circulation, 2022, 145, 1339-1355.	1.6	27
2	Transcription factor protein interactomes reveal genetic determinants in heart disease. Cell, 2022, 185, 794-814.e30.	13.5	39
3	Cellular cross-talk in heart repair. Science, 2022, 376, 1271-1272.	6.0	1
4	Network-based screen in iPSC-derived cells reveals therapeutic candidate for heart valve disease. Science, 2021, 371, .	6.0	53
5	Mouse gastruloids take heart. Nature Reviews Cardiology, 2021, 18, 233-234.	6.1	1
6	A transcriptional switch governs fibroblast activation in heart disease. Nature, 2021, 595, 438-443.	13.7	100
7	Modeling Human Cardiac Chambers with Organoids. New England Journal of Medicine, 2021, 385, 847-849.	13.9	7
8	Ebsteinâ€™s Anomaly. JACC: Clinical Electrophysiology, 2021, 7, 1198-1206.	1.3	5
9	BRD4 orchestrates genome folding to promote neural crest differentiation. Nature Genetics, 2021, 53, 1480-1492.	9.4	48
10	BRD4 (Bromodomain-Containing Protein 4) Interacts with GATA4 (GATA Binding Protein 4) to Govern Mitochondrial Homeostasis in Adult Cardiomyocytes. Circulation, 2020, 142, 2338-2355.	1.6	31
11	Genomic analyses implicate noncoding de novo variants in congenital heart disease. Nature Genetics, 2020, 52, 769-777.	9.4	97
12	GATA6 mutations in hiPSCs inform mechanisms for maldevelopment of the heart, pancreas, and diaphragm. ELife, 2020, 9, .	2.8	31
13	Dynamic Chromatin Targeting of BRD4 Stimulates Cardiac Fibroblast Activation. Circulation Research, 2019, 125, 662-677.	2.0	105
14	Single-cell analysis of cardiogenesis reveals basis for organ-level developmental defects. Nature, 2019, 572, 120-124.	13.7	197
15	Context-Specific Transcription Factor Functions Regulate Epigenomic and Transcriptional Dynamics during Cardiac Reprogramming. Cell Stem Cell, 2019, 25, 87-102.e9.	5.2	89
16	Oligogenic inheritance of a human heart disease involving a genetic modifier. Science, 2019, 364, 865-870.	6.0	142
17	Premature MicroRNA-1 Expression Causes Hypoplasia of the Cardiac Ventricular Conduction System. Frontiers in Physiology, 2019, 10, 235.	1.3	10
18	Regulation of Cell Cycle to Stimulate Adult Cardiomyocyte Proliferation and Cardiac Regeneration. Cell, 2018, 173, 104-116.e12.	13.5	434

#	Article	IF	Citations
19	Robust identification of deletions in exome and genome sequence data based on clustering of Mendelian errors. Human Mutation, 2018, 39, 870-881.	1.1	3
20	The Psychiatric Cell Map Initiative: A Convergent Systems Biological Approach to Illuminating Key Molecular Pathways in Neuropsychiatric Disorders. Cell, 2018, 174, 505-520.	13.5	108
21	The E3 ubiquitin ligase Nedd4/Nedd4L is directly regulated by microRNA 1. Development (Cambridge), 2017, 144, 866-875.	1.2	18
22	Multi-Imaging Method to Assay the Contractile Mechanical Output of Micropatterned Human iPSC-Derived Cardiac Myocytes. Circulation Research, 2017, 120, 1572-1583.	2.0	95
23	BET bromodomain inhibition suppresses innate inflammatory and profibrotic transcriptional networks in heart failure. Science Translational Medicine, 2017, 9, .	5.8	203
24	Contribution of rare inherited and de novo variants in 2,871 congenital heart disease probands. Nature Genetics, 2017, 49, 1593-1601.	9.4	624
25	Chemical Enhancement of In Vitro and In Vivo Direct Cardiac Reprogramming. Circulation, 2017, 135, 978-995.	1.6	193
26	A BAG3 chaperone complex maintains cardiomyocyte function during proteotoxic stress. JCI Insight, 2017, 2, .	2.3	81
27	Long telomeres protect against age-dependent cardiac disease caused by NOTCH1 haploinsufficiency. Journal of Clinical Investigation, 2017, 127, 1683-1688.	3.9	42
28	The E3 ubiquitin ligase Nedd4/Nedd4L is directly regulated by microRNA 1. Journal of Cell Science, 2017, 130, e1.2-e1.2.	1.2	0
29	Effect of biophysical cues on reprogramming to cardiomyocytes. Biomaterials, 2016, 103, 1-11.	5.7	62
30	Miniaturized iPS-Cell-Derived Cardiac Muscles for Physiologically Relevant Drug Response Analyses. Scientific Reports, 2016, 6, 24726.	1.6	191
31	Disease Model of GATA4 Mutation Reveals Transcription Factor Cooperativity in Human Cardiogenesis. Cell, 2016, 167, 1734-1749.e22.	13.5	195
32	Expandable Cardiovascular Progenitor Cells Reprogrammed from Fibroblasts. Cell Stem Cell, 2016, 18, 368-381.	5.2	115
33	Conversion of human fibroblasts into functional cardiomyocytes by small molecules. Science, 2016, 352, 1216-1220.	6.0	316
34	InÂVivo Cellular Reprogramming: The Next Generation. Cell, 2016, 166, 1386-1396.	13.5	234
35	The ACVR1 R206H mutation found in fibrodysplasia ossificans progressiva increases human induced pluripotent stem cell-derived endothelial cell formation and collagen production through BMP-mediated SMAD1/5/8 signaling. Stem Cell Research and Therapy, 2016, 7, 115.	2.4	57
36	Sarcomeres and Cardiac Growth: Tension in the Relationship. Trends in Molecular Medicine, 2016, 22, 530-533.	3.5	1

#	Article	IF	Citations
37	Heart disease modelling adds a Notch to its belt. Nature Cell Biology, 2016, 18, 3-5.	4.6	7
38	A History and Interaction of Outflow Progenitor Cells Implicated in â€œTakao Syndromeâ€• , 2016, , 201-209.		3
39	Reprogramming Approaches to Cardiovascular Disease: From Developmental Biology to Regenerative Medicine. , 2016, , 3-10.		1
40	Direct Reprogramming of Fibroblasts into Cardiomyocytes for Cardiac Regenerative Medicine. Circulation Journal, 2015, 79, 245-254.	0.7	49
41	Smyd1 Facilitates Heart Development by Antagonizing Oxidative and ER Stress Responses. PLoS ONE, 2015, 10, e0121765.	1.1	47
42	Recent advances in direct cardiac reprogramming. Current Opinion in Genetics and Development, 2015, 34, 77-81.	1.5	19
43	Loss of Tbx1 induces bone phenotypes similar to cleidocranial dysplasia. Human Molecular Genetics, 2015, 24, 424-435.	1.4	27
44	RNA Sequencing of Mouse Sinoatrial Node Reveals an Upstream Regulatory Role for Islet-1 in Cardiac Pacemaker Cells. Circulation Research, 2015, 116, 797-803.	2.0	95
45	NOTCH1 regulates matrix gla protein and calcification gene networks in human valve endothelium. Journal of Molecular and Cellular Cardiology, 2015, 84, 13-23.	0.9	44
46	microRNAs as Developmental Regulators. Cold Spring Harbor Perspectives in Biology, 2015, 7, a008144.	2.3	176
47	Human Disease Modeling Reveals Integrated Transcriptional and Epigenetic Mechanisms of NOTCH1 Haploinsufficiency. Cell, 2015, 160, 1072-1086.	13.5	173
48	Contractility of single cardiomyocytes differentiated from pluripotent stem cells depends on physiological shape and substrate stiffness. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12705-12710.	3.3	398
49	Oxygen. Circulation Research, 2014, 115, 824-825.	2.0	5
50	Small Molecules Enable Cardiac Reprogramming of Mouse Fibroblasts with a Single Factor, Oct4. Cell Reports, 2014, 6, 951-960.	2.9	149
51	A unified test of linkage analysis and rare-variant association for analysis of pedigree sequence data. Nature Biotechnology, 2014, 32, 663-669.	9.4	93
52	The let-7/LIN-41 Pathway Regulates Reprogramming to Human Induced Pluripotent Stem Cells by Controlling Expression of Prodifferentiation Genes. Cell Stem Cell, 2014, 14, 40-52.	5.2	200
53	Specification of the mouse cardiac conduction system in the absence of Endothelin signaling. Developmental Biology, 2014, 393, 245-254.	0.9	17
54	The RNA-binding Protein TDP-43 Selectively Disrupts MicroRNA-1/206 Incorporation into the RNA-induced Silencing Complex. Journal of Biological Chemistry, 2014, 289, 14263-14271.	1.6	69

#	Article	IF	Citations
55	Congenital Heart Disease. Circulation Research, 2014, 114, 598-599.	2.0	27
56	Cardiac reprogramming: from mouse toward man. Current Opinion in Genetics and Development, 2013, 23, 574-578.	1.5	12
57	Direct Reprogramming of Human Fibroblasts toward a Cardiomyocyte-like State. Stem Cell Reports, 2013, 1, 235-247.	2.3	351
58	Direct Cardiac Reprogramming. Circulation Research, 2013, 113, 915-921.	2.0	41
59	Spatiotemporal regulation of an Hcn4 enhancer defines a role for Mef2c and HDACs in cardiac electrical patterning. Developmental Biology, 2013, 373, 149-162.	0.9	34
60	Limited Gene Expression Variation in Human Embryonic Stem Cell and Induced Pluripotent Stem Cell-Derived Endothelial Cells. Stem Cells, 2013, 31, 92-103.	1.4	99
61	Reprogramming of mouse fibroblasts into cardiomyocyte-like cells in vitro. Nature Protocols, 2013, 8, 1204-1215.	5.5	93
62	Fending for a Braveheart. EMBO Journal, 2013, 32, 1211-1213.	3.5	3
63	Fibronectin mediates mesendodermal cell fate decisions. Development (Cambridge), 2013, 140, 2587-2596.	1.2	68
64	Small Solutions to Big Problems. Circulation Research, 2013, 112, 1412-1414.	2.0	12
65	microRNA-1 regulates sarcomere formation and suppresses smooth muscle gene expression in the mammalian heart. ELife, 2013, 2, e01323.	2.8	97
66	Congenital Heart Diseaseâ€"Causing Gata4 Mutation Displays Functional Deficits In Vivo. PLoS Genetics, 2012, 8, e1002690.	1.5	77
67	MicroRNA-10 Regulates the Angiogenic Behavior of Zebrafish and Human Endothelial Cells by Promoting Vascular Endothelial Growth Factor Signaling. Circulation Research, 2012, 111, 1421-1433.	2.0	84
68	Tbx1 regulates oral epithelial adhesion and palatal development. Human Molecular Genetics, 2012, 21, 2524-2537.	1.4	53
69	Dynamic and Coordinated Epigenetic Regulation of Developmental Transitions in the Cardiac Lineage. Cell, 2012, 151, 206-220.	13.5	555
70	Critical Factors for Cardiac Reprogramming. Circulation Research, 2012, 111, 5-8.	2.0	64
71	Cardiac repair with thymosin Î²4 and cardiac reprogramming factors. Annals of the New York Academy of Sciences, 2012, 1270, 66-72.	1.8	31
72	In vivo reprogramming of murine cardiac fibroblasts into induced cardiomyocytes. Nature, 2012, 485, 593-598.	13.7	1,204

#	Article	IF	Citations
73	microRNA regulation of cardiac cell fate, morphogenesis and function. FASEB Journal, 2012, 26, 336.2.	0.2	0
74	A Genome-Wide Screen Reveals a Role for microRNA-1 in Modulating Cardiac Cell Polarity. Developmental Cell, 2011, 20, 497-510.	3.1	27
75	Hand2 function in second heart field progenitors is essential for cardiogenesis. Developmental Biology, 2011, 351, 62-69.	0.9	107
76	The chemokine receptor CXCR7 functions to regulate cardiac valve remodeling. Developmental Dynamics, 2011, 240, 384-393.	0.8	68
77	Tinman/Nkx2-5 acts via miR-1 and upstream of Cdc42 to regulate heart function across species. Journal of Cell Biology, 2011, 193, 1181-1196.	2.3	74
78	miR-24 inhibits apoptosis and represses Bim in mouse cardiomyocytes. Journal of Experimental Medicine, 2011, 208, 549-560.	4.2	293
79	Elevated miR-499 Levels Blunt the Cardiac Stress Response. PLoS ONE, 2011, 6, e19481.	1.1	128
80	MicroRNAs in Cardiac Development. Pediatric Cardiology, 2010, 31, 349-356.	0.6	37
81	Signaling Pathways Involved in Cardiogenesis. , 2010, , 2601-2609.		0
82	skNAC, a Smyd1-interacting transcription factor, is involved in cardiac development and skeletal muscle growth and regeneration. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20750-20755.	3.3	73
83	The neural crest-enriched microRNA miR-452 regulates epithelial-mesenchymal signaling in the first pharyngeal arch. Development (Cambridge), 2010, 137, 4307-4316.	1.2	64
84	Direct Reprogramming of Fibroblasts into Functional Cardiomyocytes by Defined Factors. Cell, 2010, 142, 375-386.	13.5	2,235
85	MicroRNAs as Regulators of Differentiation and Cell Fate Decisions. Cell Stem Cell, 2010, 7, 36-41.	5.2	408
86	MicroRNA Regulation of Cardiac Development and Disease. , 2010, , 729-740.		0
87	Identification of GATA6 Sequence Variants in Patients With Congenital Heart Defects. Pediatric Research, 2010, 68, 281-285.	1.1	105
88	Monkeying around with cardiac progenitors: hope for the future. Journal of Clinical Investigation, 2010, 120, 1034-1036.	3.9	7
89	MicroRNA Regulation of Cardiovascular Development. Circulation Research, 2009, 104, 724-732.	2.0	286
90	MicroRNAs: Opening a New Vein in Angiogenesis Research. Science Signaling, 2009, 2, pe1.	1.6	142

#	Article	IF	Citations
91	miR-145 and miR-143 regulate smooth muscle cell fate and plasticity. Nature, 2009, 460, 705-710.	13.7	1,412
92	A regulatory pathway involving Notch1/Î²-catenin/Isl1 determines cardiac progenitor cell fate.. Nature Cell Biology, 2009, 11, 951-957.	4.6	215
93	Cardiac Fibroblasts Regulate Myocardial Proliferation through Î²1 Integrin Signaling. Developmental Cell, 2009, 16, 233-244.	3.1	515
94	Interaction of Gata4 and Gata6 with Tbx5 is critical for normal cardiac development. Developmental Biology, 2009, 326, 368-377.	0.9	168
95	Thymosin Î²4 mediated PKC activation is essential to initiate the embryonic coronary developmental program and epicardial progenitor cell activation in adult mice in vivo. Journal of Molecular and Cellular Cardiology, 2009, 46, 728-738.	0.9	128
96	MicroRNA Regulation of Cell Lineages in Mouse and Human Embryonic Stem Cells. Cell Stem Cell, 2008, 2, 219-229.	5.2	577
97	miR-126 Regulates Angiogenic Signaling and Vascular Integrity. Developmental Cell, 2008, 15, 272-284.	3.1	1,489
98	microRNA-138 modulates cardiac patterning during embryonic development. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17830-17835.	3.3	214
99	A Rare Human Sequence Variant Reveals Myocardin Autoinhibition. Journal of Biological Chemistry, 2008, 283, 35845-35852.	1.6	15
100	Serum response factor orchestrates nascent sarcomerogenesis and silences the biomineralization gene program in the heart. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17824-17829.	3.3	107
101	Essential roles of the bHLH transcription factor Hrt2 in repression of atrial gene expression and maintenance of postnatal cardiac function. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7975-7980.	3.3	102
102	Canonical Wnt signaling is a positive regulator of mammalian cardiac progenitors. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10894-10899.	3.3	258
103	The genetics of cardiac birth defects. Seminars in Cell and Developmental Biology, 2007, 18, 132-139.	2.3	58
104	Spectrum of heart disease associated with murine and human GATA4 mutation. Journal of Molecular and Cellular Cardiology, 2007, 43, 677-685.	0.9	218
105	Dysregulation of Cardiogenesis, Cardiac Conduction, and Cell Cycle in Mice Lacking miRNA-1-2. Cell, 2007, 129, 303-317.	13.5	1,341
106	Formation of Endocardial Cushions and Valves. , 2007, , 53-54.		0
107	Formation of Outflow Tracts. , 2007, , 153-153.		0
108	Teratogenic Effects of Bisdiamine on the Developing Myocardium. , 2007, , 44-46.		0

#	Article	IF	Citations
109	Imaging Techniques. , 2007, , 161-161.		0
110	Formation of Specialized Conduction Tissues. , 2007, , 89-90.		0
111	Models of Congenital Cardiovascular Malformations. , 2007, , 119-120.		0
112	Segment and Chamber Specification. , 2007, , 73-74.		0
113	Cardiovascular Anomalies in Patients with Deletion 22q11.2: A Multicenter Study in Korea. , 2007, , 242-243.		0
114	Coronary Artery Development. , 2007, , 107-107.		0
115	A developmental view of microRNA function. Trends in Biochemical Sciences, 2007, 32, 189-197.	3.7	532
116	Thymosin Î²4 Is Cardioprotective after Myocardial Infarction. Annals of the New York Academy of Sciences, 2007, 1112, 161-170.	1.8	42
117	GENETIC REGULATION OF CARDIOGENESIS AND CONGENITAL HEART DISEASE. Annual Review of Pathology: Mechanisms of Disease, 2006, 1, 199-213.	9.6	70
118	Making or Breaking the Heart: From Lineage Determination to Morphogenesis. Cell, 2006, 126, 1037-1048.	13.5	587
119	Hrt and Hes negatively regulate Notch signaling through interactions with RBP-JÎº. Biochemical and Biophysical Research Communications, 2006, 345, 446-452.	1.0	31
120	Potential of stem-cell-based therapies for heart disease. Nature, 2006, 441, 1097-1099.	13.7	143
121	Tbx1 is regulated by forkhead proteins in the secondary heart field. Developmental Dynamics, 2006, 235, 701-710.	0.8	81
122	Stretching to meet needs: integrin-linked kinase and the cardiac pump. Genes and Development, 2006, 20, 2327-2331.	2.7	16
123	Serum response factor regulates a muscle-specific microRNA that targets Hand2 during cardiogenesis. Nature, 2005, 436, 214-220.	13.7	1,510
124	Mutations in NOTCH1 cause aortic valve disease. Nature, 2005, 437, 270-274.	13.7	1,274
125	MicroRNA1 influences cardiac differentiation in Drosophila and regulates Notch signaling. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18986-18991.	3.3	411
126	The Homeodomain Transcription Factor Irx5 Establishes the Mouse Cardiac Ventricular Repolarization Gradient. Cell, 2005, 123, 347-358.	13.5	233

#	Article	IF	Citations
127	The Hand1 and Hand2 transcription factors regulate expansion of the embryonic cardiac ventricles in a gene dosage-dependent manner. Development (Cambridge), 2005, 132, 189-201.	1.2	298
128	Tbx1 regulates fibroblast growth factors in the anterior heart field through a reinforcing autoregulatory loop involving forkhead transcription factors. Development (Cambridge), 2004, 131, 5491-5502.	1.2	222
129	Hairy-related Transcription Factors Inhibit GATA-dependent Cardiac Gene Expression through a Signal-responsive Mechanism. Journal of Biological Chemistry, 2004, 279, 54937-54943.	1.6	60
130	Thymosin Î²4 activates integrin-linked kinase and promotes cardiac cell migration, survival and cardiac repair. Nature, 2004, 432, 466-472.	13.7	645
131	Ephrin-B2 reverse signaling is required for axon pathfinding and cardiac valve formation but not early vascular development. Developmental Biology, 2004, 271, 263-271.	0.9	107
132	An ongoing genetic battle?. Nature, 2004, 429, 819-822.	13.7	13
133	Building a heart: Implications for congenital heart disease. Journal of Nuclear Cardiology, 2003, 10, 63-70.	1.4	8
134	Generalized Chemical Reactivity of Curved Surfaces:â€‰ Carbon Nanotubes. Nano Letters, 2003, 3, 1273-1277.	4.5	190
135	GATA4 mutations cause human congenital heart defects and reveal an interaction with TBX5. Nature, 2003, 424, 443-447.	13.7	1,086
136	Unraveling the genetic and developmental mysteries of 22q11 deletion syndrome. Trends in Molecular Medicine, 2003, 9, 383-389.	3.5	124
137	Tbx1 is regulated by tissue-specific forkhead proteins through a common Sonic hedgehog-responsive enhancer. Genes and Development, 2003, 17, 269-281.	2.7	232
138	Bop encodes a muscle-restricted protein containing MYND and SET domains and is essential for cardiac differentiation and morphogenesis. Nature Genetics, 2002, 31, 25-32.	9.4	293
139	Tbx1, a DiGeorge Syndrome Candidate Gene, Is Regulated by Sonic Hedgehog during Pharyngeal Arch Development. Developmental Biology, 2001, 235, 62-73.	0.9	282
140	The Combinatorial Activities of Nkx2.5 and dHAND Are Essential for Cardiac Ventricle Formation. Developmental Biology, 2001, 239, 190-203.	0.9	168
141	Human eHAND, but not dHAND, is Down-regulated in Cardiomyopathies. Journal of Molecular and Cellular Cardiology, 2001, 33, 1607-1614.	0.9	40
142	Left-right asymmetry and cardiac looping: Implications for cardiac development and congenital heart disease. American Journal of Medical Genetics Part A, 2000, 97, 271-279.	2.4	111
143	A genetic blueprint for cardiac development. Nature, 2000, 407, 221-226.	13.7	568
144	HRT1, HRT2, and HRT3: A New Subclass of bHLH Transcription Factors Marking Specific Cardiac, Somitic, and Pharyngeal Arch Segments. Developmental Biology, 1999, 216, 72-84.	0.9	261

#	Article	IF	Citations
145	Role of the Transcription Factors dHAND and eHAND in Cardiac Morphogenesis. Pediatric Cardiology, 1998, 19, 160-160.	0.6	0
146	Heart and extra-embryonic mesodermal defects in mouse embryos lacking the bHLH transcription factor Hand1. Nature Genetics, 1998, 18, 266-270.	9.4	345
147	Regulation of cardiac mesodermal and neural crest development by the bHLH transcription factor, dHAND. Nature Genetics, 1997, 16, 154-160.	9.4	670
148	Left, rightâ€¦ which way to turn?. Nature Genetics, 1997, 17, 252-254.	9.4	27
149	Cardiovascular Physiology During Development. , 0, , 167-168.		0