Sanjay Sinha

List of Publications by Year
in descending order

64 papers	5,354 citations	159585 30 h-index	133252 59 g-index
74 all docs	74 docs citations	74 times ranked	7423 citing authors

#	Article	IF	Citations
1	Association of Collagen, Elastin, Glycosaminoglycans, and Macrophages With Tissue Ultimate Material Strength and Stretch in Human Thoracic Aortic Aneurysms: A Uniaxial Tension Study. Journal of Biomechanical Engineering, 2022, 144, .	1.3	3
2	The Histone Deacetylase 9 Stroke-Risk Variant Promotes Apoptosis and Inflammation in a Human iPSC-Derived Smooth Muscle Cells Model. Frontiers in Cardiovascular Medicine, 2022, 9, 849664.	2.4	5
3	Modulating hESC-derived cardiomyocyte and endothelial cell function with triple-helical peptides for heart tissue engineering. Biomaterials, 2021, 269, 120612.	11.4	5
4	Cholangiocyte organoids can repair bile ducts after transplantation in the human liver. Science, 2021, 371, 839-846.	12.6	170
5	SARS-CoV-2 Infects Human Pluripotent Stem Cell-Derived Cardiomyocytes, Impairing Electrical and Mechanical Function. Stem Cell Reports, 2021, 16, 478-492.	4.8	75
6	Human embryonic stem cell-derived cardiomyocyte platform screens inhibitors of SARS-CoV-2 infection. Communications Biology, 2021, 4, 926.	4.4	11
7	Cardiovascular ACE2 receptor expression in patients undergoing heart transplantation. ESC Heart Failure, 2021, 8, 4119-4129.	3.1	7
8	Differential expression in humans of the viral entry receptor ACE2 compared with the short deltaACE2 isoform lacking SARS-CoV-2 binding sites. Scientific Reports, 2021, 11, 24336.	3.3	12
9	Genomic profiling of human vascular cells identifies TWIST1 as a causal gene for common vascular diseases. PLoS Genetics, 2020, 16, e1008538.	3.5	40
10	Effects of fibrillin mutations on the behavior of heart muscle cells in Marfan syndrome. Scientific Reports, 2020, 10, 16756.	3.3	7
11	Collagen scaffolds functionalized with triple-helical peptides support 3D HUVEC culture. International Journal of Energy Production and Management, 2020, 7, 471-482.	3.7	11
12	Natural Biomaterials for Cardiac Tissue Engineering: A Highly Biocompatible Solution. Frontiers in Cardiovascular Medicine, 2020, 7, 554597.	2.4	74
13	Aortic â€œDisease-in-a-Dishâ€ Mechanistic Insights and Drug Development Using iPSC-Based Disease Modeling. Frontiers in Cell and Developmental Biology, 2020, 8, 550504.	3.7	13
14	BNC1: A master regulator of human epicardial heterogeneity and function. Journal of Molecular and Cellular Cardiology, 2020, 140, 30-31.	1.9	1
15	Epicardial cells derived from human embryonic stem cells augment cardiomyocyte-driven heart regeneration. Nature Biotechnology, 2019, 37, 895-906.	17.5	139
16	Glycoproteomic Analysis of the Aortic Extracellular Matrix in Marfan Patients. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 1859-1873.	2.4	35
17	Cell cycle regulators control mesoderm specification in human pluripotent stem cells. Journal of Biological Chemistry, 2019, 294, 17903-17914.	3.4	13
18	BS49â€…Human embryonic stem cell derived cardiomyocytes express functional receptors for the cardiovascular peptide apelin. , 2019, , .		0

#	Article	IF	Citations
19	BNC1 regulates cell heterogeneity in human pluripotent stem cell derived-epicardium. Development (Cambridge), 2019, 146, .	2.5	24
20	Method to Synchronize Cell Cycle of Human Pluripotent Stem Cells without Affecting Their Fundamental Characteristics. Stem Cell Reports, 2019, 12, 165-179.	4.8	35
21	A Novel Human Pluripotent Stem Cell-Derived Neural Crest Model of Treacher Collins Syndrome Shows Defects in Cell Death and Migration. Stem Cells and Development, 2019, 28, 81-100.	2.1	37
22	Identification of RBPMS as a mammalian smooth muscle master splicing regulator via proximity of its gene with super-enhancers. ELife, 2019, 8, .	6.0	25
23	New models to study vascular mural cell embryonic origin: implications in vascular diseases. Cardiovascular Research, 2018, 114, 481-491.	3.8	27
24	Contributions of <i>BMPR2</i> Mutations and Extrinsic Factors to Cellular Phenotypes of Pulmonary Arterial Hypertension Revealed by Induced Pluripotent Stem Cell Modeling. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 271-275.	5.6	26
25	129â€...The CHR9P21 risk locus affects IL-1/TLR signalling in VSMC. , 2018, , .		0
26	Coupling of a specific photoreactive triple-helical peptide to crosslinked collagen films restores binding and activation of DDR2 and VWF. Biomaterials, 2018, 182, 21-34.	11.4	16
27	Exposure of Induced Pluripotent Stem Cell-Derived Vascular Endothelial and Smooth Muscle Cells in Coculture to Hemodynamics Induces Primary Vascular Cell-Like Phenotypes. Stem Cells Translational Medicine, 2017, 6, 1673-1683.	3.3	32
28	211â€...Characterising functional heterogeneity in human epicardium. Heart, 2017, 103, A140.1-A140.	2.9	0
29	Reconstruction of the mouse extrahepatic biliary tree using primary human extrahepatic cholangiocyte organoids. Nature Medicine, 2017, 23, 954-963.	30.7	210
30	Human Stem Cell-Derived Endothelial-Hepatic Platform for Efficacy Testing of Vascular-Protective Metabolites from Nutraceuticals. Stem Cells Translational Medicine, 2017, 6, 851-863.	3.3	12
31	An iPSC-derived vascular model of Marfan syndrome identifies key mediators of smooth muscle cell death. Nature Genetics, 2017, 49, 97-109.	21.4	149
32	Optimized inducible shRNA and CRISPR/Cas9 platforms for <i>in vitro</i> studies of human development using hPSCs. Development (Cambridge), 2016, 143, 4405-4418.	2.5	75
33	Embryological Origin of Human Smooth Muscle Cells Influences Their Ability to Support Endothelial Network Formation. Stem Cells Translational Medicine, 2016, 5, 946-959.	3.3	26
34	Vascular Smooth Muscle Cells in Atherosclerosis. Circulation Research, 2016, 118, 692-702.	4.5	1,473
35	25â€...Embryological origin of human smooth muscle cells influences their ability to support vasculogenesis. Heart, 2015, 101, A8.3-A8.	2.9	0
36	Myocardin Regulates Vascular Smooth Muscle Cell Inflammatory Activation and Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 817-828.	2.4	92

#	Article	IF	Citations
37	Temporal and Embryonic Lineage-Dependent Regulation of Human Vascular SMC Development by NOTCH3. Stem Cells and Development, 2015, 24, 846-856.	2.1	12
38	Robust derivation of epicardium and its differentiated smooth muscle cell progeny from human pluripotent stem cells. Development (Cambridge), 2015, 142, 1528-41.	2.5	105
39	Embryonic origins of human vascular smooth muscle cells: implications for in vitro modeling and clinical application. Cellular and Molecular Life Sciences, 2014, 71, 2271-2288.	5.4	114
40	Directed differentiation of embryonic originâ€"specific vascular smooth muscle subtypes from human pluripotent stem cells. Nature Protocols, 2014, 9, 929-938.	12.0	82
41	Embryological-Originâ€"Dependent Differences in Homeobox Expression in Adult Aorta. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 1248-1256.	2.4	53
42	Myocardin Regulates Vascular Response to Injury Through miR-24/-29a and Platelet-Derived Growth Factor Receptor-Î². Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 2355-2365.	2.4	46
43	Abstract 293: Embryological Origin of Human Smooth Muscle Cells Influences Their Ability to Support Vasculogenesis.. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, .	2.4	0
44	Vascular Disease in a Dish. Circulation, 2012, 126, 1676-1677.	1.6	2
45	Myocardin Overexpression Is Sufficient for Promoting the Development of a Mature Smooth Muscle Cell-Like Phenotype from Human Embryonic Stem Cells. PLoS ONE, 2012, 7, e44052.	2.5	25
46	Generation of human vascular smooth muscle subtypes provides insight into embryological originâ€"dependent disease susceptibility. Nature Biotechnology, 2012, 30, 165-173.	17.5	321
47	Human embryonic stem cell-derived vascular smooth muscle cells in therapeutic neovascularisation. Journal of Molecular and Cellular Cardiology, 2011, 51, 651-664.	1.9	46
48	11 Generation of developmental origin-specific vascular smooth muscle cells from human embryonic stem cells. Heart, 2011, 97, e7-e7.	2.9	0
49	Derivation of Contractile Smooth Muscle Cells from Embryonic Stem Cells. Methods in Molecular Biology, 2009, 482, 345-367.	0.9	9
50	Upregulation of collagen VIII following porcine coronary artery angioplasty is related to smooth muscle cell migration not angiogenesis. International Journal of Experimental Pathology, 2008, 82, 295-302.	1.3	23
51	Conditional Mouse Models to Study Developmental and Pathophysiological Gene Function in Muscle. , 2007, , 441-468.		18
52	Assessment of Contractility of Purified Smooth Muscle Cells Derived from Embryonic Stem Cells. Stem Cells, 2006, 24, 1678-1688.	3.2	59
53	ANG II type 2 receptor regulates smooth muscle growth and force generation in late fetal mouse development. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H96-H102.	3.2	24
54	Kruppel-like Factor 4 Abrogates Myocardin-induced Activation of Smooth Muscle Gene Expression. Journal of Biological Chemistry, 2005, 280, 9719-9727.	3.4	297

#	Article	IF	Citations
55	Stem cells and their derivatives can bypass the requirement of myocardin for smooth muscle gene expression. Developmental Biology, 2005, 288, 502-513.	2.0	49
56	5â€² CArG degeneracy in smooth muscle Î±-actin is required for injury-induced gene suppression in vivo. Journal of Clinical Investigation, 2005, 115, 418-427.	8.2	91
57	A G/C Element Mediates Repression of the SM22Î± Promoter Within Phenotypically Modulated Smooth Muscle Cells in Experimental Atherosclerosis. Circulation Research, 2004, 95, 981-988.	4.5	127
58	L-type Voltage-Gated Ca 2+ Channels Modulate Expression of Smooth Muscle Differentiation Marker Genes via a Rho Kinase/Myocardin/SRFâ€"Dependent Mechanism. Circulation Research, 2004, 95, 406-414.	4.5	164
59	Transforming growth factor-Î²1 signaling contributes to development of smooth muscle cells from embryonic stem cells. American Journal of Physiology - Cell Physiology, 2004, 287, C1560-C1568.	4.6	186
60	Myocardin Is a Key Regulator of CArG-Dependent Transcription of Multiple Smooth Muscle Marker Genes. Circulation Research, 2003, 92, 856-864.	4.5	320
61	A Transforming Growth Factor-Î² Control Element Required for SM Î±-Actin Expression in Vivo Also Partially Mediates GKLF-dependent Transcriptional Repression. Journal of Biological Chemistry, 2003, 278, 48004-48011.	3.4	99
62	Adenovirus-Mediated Gene Transfer of Transforming Growth Factor-Î² ₃ , but Not Transforming Growth Factor-Î² ₁ , Inhibits Constrictive Remodeling and Reduces Luminal Loss After Coronary Angioplasty. Circulation, 2003, 108, 2819-2825.	1.6	39
63	Expression of latent TGF-beta binding proteins and association with TGF-beta1 and fibrillin-1 following arterial injury. Cardiovascular Research, 2002, 53, 971-983.	3.8	60
64	Adenovirus-Mediated Gene Transfer of a Secreted Transforming Growth Factor-Î² Type II Receptor Inhibits Luminal Loss and Constrictive Remodeling After Coronary Angioplasty and Enhances Adventitial Collagen Deposition. Circulation, 2001, 104, 2595-2601.	1.6	76