

Zhong-Dong Shi

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

2,055
citations

394286

19
h-index

642610

23
g-index

29
all docs

29
docs citations

29
times ranked

3686
citing authors

#	ARTICLE	IF	CITATIONS
1	An iCRISPR Platform for Rapid, Multiplexable, and Inducible Genome Editing in Human Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2014, 15, 215-226.	5.2	411
2	Permeability of Endothelial and Astrocyte Cocultures: In Vitro Bloodâ€“Brain Barrier Models for Drug Delivery Studies. <i>Annals of Biomedical Engineering</i> , 2010, 38, 2499-2511.	1.3	201
3	Fluid Flow Mechanotransduction in Vascular Smooth Muscle Cells and Fibroblasts. <i>Annals of Biomedical Engineering</i> , 2011, 39, 1608-1619.	1.3	194
4	Fluid Mechanics, Arterial Disease, and Gene Expression. <i>Annual Review of Fluid Mechanics</i> , 2014, 46, 591-614.	10.8	134
5	Genome Editing in hPSCs Reveals GATA6 Haploinsufficiency and a Genetic Interaction with GATA4 in Human Pancreatic Development. <i>Cell Stem Cell</i> , 2017, 20, 675-688.e6.	5.2	128
6	Enhanced Osteogenesis of Human Mesenchymal Stem Cells by Periodic Heat Shock in Self-Assembling Peptide Hydrogel. <i>Tissue Engineering - Part A</i> , 2013, 19, 716-728.	1.6	111
7	Fluid Shear Stress Regulates the Invasive Potential of Glioma Cells via Modulation of Migratory Activity and Matrix Metalloproteinase Expression. <i>PLoS ONE</i> , 2011, 6, e20348.	1.1	85
8	A CRISPR/Cas-Mediated Selection-free Knockin Strategy in Human Embryonic Stem Cells. <i>Stem Cell Reports</i> , 2015, 4, 1103-1111.	2.3	85
9	Interstitial flow promotes vascular fibroblast, myofibroblast, and smooth muscle cell motility in 3-D collagen I via upregulation of MMP-1. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H1225-H1234.	1.5	82
10	Cancer cell glycocalyx mediates mechanotransduction and flow-regulated invasion. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 1334-1343.	0.6	78
11	Effect of the glycocalyx layer on transmission of interstitial flow shear stress to embedded cells. <i>Biomechanics and Modeling in Mechanobiology</i> , 2013, 12, 111-121.	1.4	77
12	Heparan Sulfate Proteoglycans Mediate Interstitial Flow Mechanotransduction Regulating MMP-13 Expression and Cell Motility via FAK-ERK in 3D Collagen. <i>PLoS ONE</i> , 2011, 6, e15956.	1.1	76
13	Homologous Recombination DNA Repair Genes Play a Critical Role in Reprogramming to a Pluripotent State. <i>Cell Reports</i> , 2013, 3, 651-660.	2.9	74
14	Shear Stress Modulation of Smooth Muscle Cell Marker Genes in 2-D and 3-D Depends on Mechanotransduction by Heparan Sulfate Proteoglycans and ERK1/2. <i>PLoS ONE</i> , 2010, 5, e12196.	1.1	68
15	Heparan sulfate proteoglycan mediates shear stressâ€“induced endothelial gene expression in mouse embryonic stem cellâ€“derived endothelial cells. <i>Biotechnology and Bioengineering</i> , 2012, 109, 583-594.	1.7	60
16	Interstitial flow induces MMP-1 expression and vascular SMC migration in collagen I gels via an ERK1/2-dependent and c-Jun-mediated mechanism. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H127-H135.	1.5	57
17	Effects of fluid shear stress on adventitial fibroblast migration: implications for flow-mediated mechanisms of arterIALIZATION and intimal hyperplasia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 292, H3128-H3135.	1.5	44
18	Precision installation of a highly efficient suicide gene safety switch in human induced pluripotent stem cells. <i>Stem Cells Translational Medicine</i> , 2020, 9, 1378-1388.	1.6	29

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19	Heparan sulfate proteoglycans mediate renal carcinoma metastasis. <i>International Journal of Cancer</i> , 2016, 139, 2791-2801.	2.3	28
20	Heparan sulfate proteoglycan, integrin, and syndecan-4 are mechanosensors mediating cyclic strain-modulated endothelial gene expression in mouse embryonic stem cell-derived endothelial cells. <i>Biotechnology and Bioengineering</i> , 2019, 116, 2730-2741.	1.7	13
21	Biological Responses of Suspension Cultures of <i>Taxus chinensis</i> var. <i>mairei</i> to Shear Stresses in the Short Term. <i>Applied Biochemistry and Biotechnology</i> , 2003, 110, 61-74.	1.4	10
22	Rat Aortic Smooth Muscle Cells Contract in Response to Serum and Its Components in a Calcium Independent Manner. <i>Annals of Biomedical Engineering</i> , 2004, 32, 1667-1675.	1.3	7
23	Genome Editing and Directed Differentiation of hPSCs for Interrogating Lineage Determinants in Human Pancreatic Development. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	3
24	Permeability of in vitro blood-brain barrier models. , 2010, , .		0
25	Hydraulic conductivity and solute permeability of an in vitro blood-brain barrier (BBB) model. <i>FASEB Journal</i> , 2009, 23, 1020.2.	0.2	0
26	Interstitial flow induces vascular SMC migration in collagen I gels regulated by MMP-1 via an ERK1/2-dependent and c-Jun-mediated mechanism. <i>FASEB Journal</i> , 2010, 24, 235.6.	0.2	0
27	The role of mechanical forces in stem cell differentiation to vascular lineage. <i>FASEB Journal</i> , 2010, 24, 750.13.	0.2	0
28	Heparan sulfate proteoglycan mediates shear stress-induced endothelial gene expression in mouse embryonic stem cell-derived cells. <i>FASEB Journal</i> , 2011, 25, 1043.17.	0.2	0