

Tetsuro Wakatsuki

List of Publications by Year in descending order

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36
papers

2,082
citations

361413

20
h-index

477307

29
g-index

38
all docs

38
docs citations

38
times ranked

2753
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional reconstitution of embryonic cardiomyocytes in a collagen matrix: a new heart muscle model system. <i>FASEB Journal</i> , 1997, 11, 683-694.	0.5	584
2	Cell Mechanics Studied by a Reconstituted Model Tissue. <i>Biophysical Journal</i> , 2000, 79, 2353-2368.	0.5	212
3	Effects of Substrate Mechanics on Contractility of Cardiomyocytes Generated from Human Pluripotent Stem Cells. <i>International Journal of Cell Biology</i> , 2012, 2012, 1-13.	2.5	143
4	Mechanics of cell spreading: role of myosin II. <i>Journal of Cell Science</i> , 2003, 116, 1617-1625.	2.0	141
5	A Cell-Based Constitutive Relation for Bio-Artificial Tissues. <i>Biophysical Journal</i> , 2000, 79, 2369-2381.	0.5	96
6	The biochemical response of the heart to hypertension and exercise. <i>Trends in Biochemical Sciences</i> , 2004, 29, 609-617.	7.5	89
7	Caveolar Endocytosis Is Critical for BK Virus Infection of Human Renal Proximal Tubular Epithelial Cells. <i>Journal of Virology</i> , 2007, 81, 8552-8562.	3.4	85
8	Reciprocal interactions between cells and extracellular matrix during remodeling of tissue constructs. <i>Biophysical Chemistry</i> , 2002, 100, 593-605.	2.8	78
9	Diffusion of MMPs on the Surface of Collagen Fibrils: The Mobile Cell Surface "Collagen Substratum Interface. <i>PLoS ONE</i> , 2011, 6, e24029.	2.5	69
10	Protease-Activated Receptor 1 Inhibition by SCH79797 Attenuates Left Ventricular Remodeling and Profibrotic Activities of Cardiac Fibroblasts. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , 2013, 18, 460-475.	2.0	60
11	One-Dimensional Viscoelastic Behavior of Fibroblast Populated Collagen Matrices. <i>Journal of Biomechanical Engineering</i> , 2003, 125, 719-725.	1.3	58
12	Collagen Receptor Control of Epithelial Morphogenesis and Cell Cycle Progression. <i>American Journal of Pathology</i> , 1999, 155, 927-940.	3.8	56
13	Rho-kinase-mediated Ca ²⁺ -independent contraction in rat embryo fibroblasts. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 286, C8-C21.	4.6	54
14	Activator of G Protein Signaling 3 Promotes Epithelial Cell Proliferation in PKD. <i>Journal of the American Society of Nephrology: JASN</i> , 2010, 21, 1275-1280.	6.1	52
15	Reconstitution of the Frank-Starling Mechanism in Engineered Heart Tissues. <i>Biophysical Journal</i> , 2006, 91, 1800-1810.	0.5	46
16	Regulation of ENaC expression at the cell surface by Rab11. <i>Biochemical and Biophysical Research Communications</i> , 2008, 377, 521-525.	2.1	40
17	Continual assembly of desmosomes within stable intercellular contacts of epithelial A-431 cells. <i>Cell and Tissue Research</i> , 2003, 314, 399-410.	2.9	27
18	Pyk2 mediates endothelin-1 signaling via p130Cas/BCAR3 cascade and regulates human glomerular mesangial cell adhesion and spreading. <i>Journal of Cellular Physiology</i> , 2009, 219, 45-56.	4.1	27

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19	High-Throughput Measurements of Hydrogel Tissue Construct Mechanics. <i>Tissue Engineering - Part C: Methods</i> , 2009, 15, 181-190.	2.1	25
20	Monitoring mitochondrial electron fluxes using NAD(P)H-flavoprotein fluorometry reveals complex action of isoflurane on cardiomyocytes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1749-1758.	1.0	23
21	Analysis of the diffusion of Ras2 in <i>Saccharomyces cerevisiae</i> using fluorescence recovery after photobleaching. <i>Physical Biology</i> , 2010, 7, 026011.	1.8	20
22	Scalable 96-well Plate Based iPSC Culture and Production Using a Robotic Liquid Handling System. <i>Journal of Visualized Experiments</i> , 2015, , e52755.	0.3	20
23	A model for positive feedback control of the transformation of fibroblasts to myofibroblasts. <i>Progress in Biophysics and Molecular Biology</i> , 2019, 144, 30-40.	2.9	19
24	Genetic and Tissue Engineering Approaches to Modeling the Mechanics of Human Heart Failure for Drug Discovery. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 120.	2.4	13
25	Hydrogel Tissue Construct-Based High-Content Compound Screening. <i>Journal of Biomolecular Screening</i> , 2011, 16, 120-128.	2.6	12
26	Tissue engineering: a new frontier in physiological genomics. <i>Physiological Genomics</i> , 2007, 32, 28-32.	2.3	10
27	Improving Cardiac Action Potential Measurements: 2D and 3D Cell Culture. <i>Journal of Bioengineering & Biomedical Science</i> , 2015, 05, .	0.2	10
28	A Method for Quantifying Mechanical Properties of Tissue following Viral Infection. <i>PLoS ONE</i> , 2012, 7, e42197.	2.5	5
29	Mitochondrial membrane potential regulates production of reactive oxygen species and opening of mitochondrial permeability transition pore. <i>FASEB Journal</i> , 2009, 23, 576.3.	0.5	4
30	Cell-Cell Interactions and the Mechanics of Cells and Tissues Observed in Bioartificial Tissue Constructs. , 2011, , 75-103.		3
31	Engineered Heart Tissue: High Throughput Platform for Dissection of Complex Diseases. <i>Journal of Cardiovascular Translational Research</i> , 2008, 1, 232-235.	2.4	1
32	Diffusion and Exchange of Non-Integral Membrane Associated Fluorophores During Fluorescence Recovery After Photobleaching with the Confocal Laser Scanning Microscope: ROI Size Analysis of EGFP:Ras2 Plasma Membrane Diffusion in <i>Saccharomyces cerevisiae</i> . <i>Biophysical Journal</i> , 2009, 96, 32a-33a.	0.5	0
33	Small G protein-induced trafficking of the Epithelial Na ⁺ channel. <i>Biophysical Journal</i> , 2009, 96, 536a.	0.5	0
34	Rapid Prototyping of Engineered Heart Tissues through Miniaturization and Phenotype-Automation. , 2011, , .		0
35	Confidence Intervals for Estimation of the Concentration and Brightness of Multiple Diffusing Species. , 2012, , .		0
36	The role of the Rho kinase isoforms in fibroblast contractility. <i>FASEB Journal</i> , 2009, 23, 1029.2.	0.5	0