Kazunori Shimizu

List of Publications by Year
in descending order

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Version: 2024-02-01

99 papers	2,123 citations	218677 26 h-index	276875 41 g-index
104 all docs	104 docs citations	104 times ranked	2794 citing authors

#	Article	IF	Citations
1	Intravenous injection of mesenchymal stem cell spheroids improves the pulmonary delivery and prolongs in vivo survival. Biotechnology Journal, 2022, 17, e2100137.	3.5	11
2	Selective concentration of antimicrobial peptides to heat-treated porous silica gel using adsorption/desorption. Journal of Bioscience and Bioengineering, 2022, 133, 161-167.	2.2	2
3	Development of microfluidic chip for entrapping tobacco BY-2 cells. PLoS ONE, 2022, 17, e0266982.	2.5	2
4	Screening of antiâ€atrophic peptides by using photoâ€cleavable peptide array and 96â€well scale contractile human skeletal muscle atrophy models. Biotechnology and Bioengineering, 2022, 119, 2196-2205.	3.3	2
5	Increasing the activity of cell adherent cyclic NGR peptides by optimizing the peptide length and amino acid character. Journal of Peptide Science, 2021, 27, e3287.	1.4	1
6	Development of a human neuromuscular tissue-on-a-chip model on a 24-well-plate-format compartmentalized microfluidic device. Lab on A Chip, 2021, 21, 1897-1907.	6.0	20
7	Screening of a novel free fatty acid receptor 1 (FFAR1) agonist peptide by phage display and machine learning based-amino acid substitution. Biochemical and Biophysical Research Communications, 2021, 550, 177-183.	2.1	3
8	Miniaturized skeletal muscle tissue fabrication for measuring contractile activity. Journal of Bioscience and Bioengineering, 2021, 131, 434-441.	2.2	7
9	Screening of FFAR1-Activating Peptides by Molecular Structural Analysis. Kagaku Kogaku Ronbunshu, 2021, 47, 64-68.	0.3	0
10	Simple stain-free screening method for pectinolytic microorganisms under alkalophilic conditions. Biotechnology Letters, 2021, 43, 1905-1911.	2.2	1
11	Effect of Magnetic Nanoparticle Internalization on Cell Density in Skeletal Muscle Tissue. IEEJ Transactions on Electronics, Information and Systems, 2021, 141, 795-801.	0.2	2
12	Machine learning screening of bile acid-binding peptides in a peptide database derived from food proteins. Scientific Reports, 2021, 11, 16123.	3.3	9
13	Microarray profiling of gene expression in C2C12 myotubes trained by electric pulse stimulation. Journal of Bioscience and Bioengineering, 2021, 132, 417-422.	2.2	3
14	Calcium Peroxide-Containing Polydimethylsiloxane-Based Microwells for Inhibiting Cell Death in Spheroids through Improved Oxygen Supply. Biological and Pharmaceutical Bulletin, 2021, 44, 1458-1464.	1.4	4
15	In Silico Screening of a Bile Acid Micelle Disruption Peptide for Oral Consumptions from Edible Peptide Database. Foods, 2021, 10, 2496.	4.3	3
16	Agonist/Antagonist Activity of Oxytocin Variants Obtained from Free Cyclic Peptide Libraries Generated via Amino Acid Substitution. ACS Omega, 2021, 6, 31244-31252.	3.5	4
17	Fabrication of contractile skeletal muscle tissues using directly converted myoblasts from human fibroblasts. Journal of Bioscience and Bioengineering, 2020, 129, 632-637.	2.2	9
18	Disulfide linked hetero dimeric peptide arrays for screening functional peptides inside cells. Journal of Bioscience and Bioengineering, 2020, 129, 613-618.	2.2	9

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19	In Vitro Model of Human Skeletal Muscle Tissues with Contractility Fabricated by Immortalized Human Myogenic Cells. Advanced Biology, 2020, 4, e2000121.	3.0	20
20	Bile acid micelle disruption activity of short-chain peptides from tryptic hydrolyzate of edible proteins. Journal of Bioscience and Bioengineering, 2020, 130, 514-519.	2.2	5
21	Machine Learning-Based Amino Acid Substitution of Short Peptides: Acquisition of Peptides with Enhanced Inhibitory Activities against Î±-Amylase and Î±-Glucosidase. ACS Biomaterials Science and Engineering, 2020, 6, 6117-6125.	5.2	11
22	Tissue suction-mediated gene transfer to the beating heart in mice. PLoS ONE, 2020, 15, e0228203.	2.5	3
23	Effect of cell-extracellular matrix interaction on myogenic characteristics and artificial skeletal muscle tissue. Journal of Bioscience and Bioengineering, 2020, 130, 98-105.	2.2	5
24	Incorporation of Gelatin Microspheres into HepG2 Human Hepatocyte Spheroids for Functional Improvement through Improved Oxygen Supply to Spheroid Core. Biological and Pharmaceutical Bulletin, 2020, 43, 1220-1225.	1.4	3
25	Predictive selection and evaluation of appropriate functional peptides for intestinal delivery with a porous silica gel. Journal of Bioscience and Bioengineering, 2019, 128, 44-49.	2.2	8
26	Pep-MS assay: Protease hydrolysis assay system using photo-cleavable peptide array and mass spectrometer. Journal of Bioscience and Bioengineering, 2019, 128, 156-161.	2.2	2
27	Open-Chamber Co-Culture Microdevices for Single-Cell Analysis of Skeletal Muscle Myotubes and Motor Neurons with Neuromuscular Junctions. Biochip Journal, 2019, 13, 127-132.	4.9	7
28	Selective Elimination of Bitter Peptides by Adsorption to Heat-treated Porous Silica Gel. Food Science and Technology Research, 2019, 25, 179-186.	0.6	8
29	Regulation of the Distribution of Cells in Mixed Spheroids by Altering Migration Direction. Tissue Engineering - Part A, 2019, 25, 390-398.	3.1	4
30	Searching for high-binding peptides to bile acid for inhibition of intestinal cholesterol absorption using principal component analysis. Journal of Bioscience and Bioengineering, 2019, 127, 366-371.	2.2	8
31	Regulation of proliferation and functioning of transplanted cells by using herpes simplex virus thymidine kinase gene in mice. Journal of Controlled Release, 2018, 275, 78-84.	9.9	14
32	Mutations responsible for alcohol tolerance in the mutant of Synechococcus elongatus PCC 7942 (SY1043) obtained by single-cell screening system. Journal of Bioscience and Bioengineering, 2018, 125, 572-577.	2.2	8
33	Control of polarization and tumoricidal activity of macrophages by multicellular spheroid formation. Journal of Controlled Release, 2018, 270, 177-183.	9.9	17
34	Determining Transgene Expression Characteristics Using a Suction Device with Multiple Hole Adjusting a Left Lateral Lobe of the Mouse Liver. Biological and Pharmaceutical Bulletin, 2018, 41, 944-950.	1.4	6
35	Interaction between porous silica gel microcarriers and peptides for oral administration of functional peptides. Scientific Reports, 2018, 8, 10971.	3.3	11
36	Selective Elimination of Human Induced Pluripotent Stem Cells Using Medium with High Concentration of L-Alanine. Scientific Reports, 2018, 8, 12427.	3.3	27

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37	In-process evaluation of culture errors using morphology-based image analysis. Regenerative Therapy, 2018, 9, 15-23.	3.0	17
38	Image-based cell quality evaluation to detect irregularities under same culture process of human induced pluripotent stem cells. Journal of Bioscience and Bioengineering, 2017, 123, 642-650.	2.2	13
39	Alcoholâ€tolerant mutants of cyanobacterium Synechococcus elongatus PCC 7942 obtained by singleâ€cell mutant screening system. Biotechnology and Bioengineering, 2017, 114, 1771-1778.	3.3	8
40	Morphology-based non-invasive quantitative prediction of the differentiation status of neural stem cells. Journal of Bioscience and Bioengineering, 2017, 124, 351-358.	2.2	15
41	Using sizeâ€controlled multicellular spheroids of murine adenocarcinoma cells to efficiently establish pulmonary tumors in mice. Biotechnology Journal, 2017, 12, 1600513.	3.5	15
42	Characterization of transgene expression and pDNA distribution of the suctioned kidney in mice. Drug Delivery, 2017, 24, 906-917.	5.7	15
43	Effective modification of cell death-inducing intracellular peptides by means of a photo-cleavable peptide array-based screening system. Journal of Bioscience and Bioengineering, 2017, 124, 209-214.	2.2	15
44	Exploring high-affinity binding properties of octamer peptides by principal component analysis of tetramer peptides. Journal of Bioscience and Bioengineering, 2017, 123, 230-238.	2.2	13
45	Optimization of Albumin Secretion and Metabolic Activity of Cytochrome P450 1A1 of Human Hepatoblastoma HepG2 Cells in Multicellular Spheroids by Controlling Spheroid Size. Biological and Pharmaceutical Bulletin, 2017, 40, 334-338.	1.4	34
46	Three-Dimensional Culture Model of Skeletal Muscle Tissue with Atrophy Induced by Dexamethasone. Bioengineering, 2017, 4, 56.	3.5	34
47	A single cell culture system using lectinâ€conjugated magnetite nanoparticles and magnetic force to screen mutant cyanobacteria. Biotechnology and Bioengineering, 2016, 113, 112-119.	3.3	6
48	Development of a tactical screening method to investigate the characteristics of functional peptides. Biotechnology and Bioprocess Engineering, 2016, 21, 119-127.	2.6	10
49	Plasma-activated medium selectively eliminates undifferentiated human induced pluripotent stem cells. Regenerative Therapy, 2016, 5, 55-63.	3.0	26
50	Optimization of renal transfection using a renal suction-mediated transfection method in mice. Journal of Drug Targeting, 2016, 24, 450-456.	4.4	6
51	Ex vivo culture of circulating tumor cells using magnetic forceâ€based coculture on a fibroblast feeder layer. Biotechnology Journal, 2016, 11, 1433-1442.	3.5	8
52	Increased Insulin Secretion from Insulin-Secreting Cells by Construction of Mixed Multicellular Spheroids. Pharmaceutical Research, 2016, 33, 247-256.	3.5	20
53	Effects of the properties of short peptides conjugated with cell-penetrating peptides on their internalization into cells. Scientific Reports, 2015, 5, 12884.	3.3	24
54	Microfluidic devices for construction of contractile skeletal muscle microtissues. Journal of Bioscience and Bioengineering, 2015, 119, 212-216.	2.2	48

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55	Efficient capturing of circulating tumor cells using a magnetic capture column and a size-selective filter. Bioprocess and Biosystems Engineering, 2015, 38, 1693-1704.	3.4	10
56	Neutralized Nanoparticle Composed of SSâ€Cleavable and pHâ€Activated Lipidâ€Like Material as a Longâ€Lasting and Liverâ€Specific Gene Delivery System. Advanced Healthcare Materials, 2014, 3, 1222-1229.	7.6	35
57	Transplantation of insulin-secreting multicellular spheroids for the treatment of type 1 diabetes in mice. Journal of Controlled Release, 2014, 173, 119-124.	9.9	34
58	Liver Suction-Mediated Transfection in Mice Using a Pressure-Controlled Computer System. Biological and Pharmaceutical Bulletin, 2014, 37, 569-575.	1.4	6
59	Metabolic flux analysis of genetically engineered Saccharomyces cerevisiae that produces lactate under micro-aerobic conditions. Bioprocess and Biosystems Engineering, 2013, 36, 1261-1265.	3.4	7
60	Poly(N-isopropylacrylamide)-coated microwell arrays for construction and recovery of multicellular spheroids. Journal of Bioscience and Bioengineering, 2013, 115, 695-699.	2.2	28
61	Evaluation systems of generated forces of skeletal muscle cell-based bio-actuators. Journal of Bioscience and Bioengineering, 2013, 115, 115-121.	2.2	21
62	Fed-batch system for cultivating genetically engineered yeast that produces lactic acid via the fermentative promoter. Journal of Bioscience and Bioengineering, 2013, 115, 193-195.	2.2	3
63	Development of in vivo gene delivery methods in mice using tissue suction devices for abdominal endoscopic gene therapy. , 2012, , .		0
64	In vivo Site-Specific Transfection of Naked Plasmid DNA and siRNAs in Mice by Using a Tissue Suction Device. PLoS ONE, 2012, 7, e41319.	2.5	26
65	Implantable pneumatically actuated microsystem for renal pressure-mediated transfection in mice. Journal of Controlled Release, 2012, 159, 85-91.	9.9	10
66	Investigation of Denaturation of Hydrophobic Perfluoropolymer Surfaces and Their Applications for Micropatterns on Biochip. Journal of Microelectromechanical Systems, 2012, 21, 62-67.	2.5	4
67	Gene delivery in mice using an implanted pneumatically-actuated microsystem. , 2011, , .		3
68	Novel combination of hydrophilic/hydrophobic surface for large wettability difference and its application to liquid manipulation. Lab on A Chip, 2011, 11, 639-644.	6.0	49
69	Development of a suction device for stabilizing in vivo real-time imaging of murine tissues. Journal of Bioscience and Bioengineering, 2011, 112, 508-510.	2.2	10
70	Designing of a Si-MEMS device with an integrated skeletal muscle cell-based bio-actuator. Biomedical Microdevices, 2011, 13, 123-129.	2.8	35
71	Development of a biochip with serially connected pneumatic balloons for cell-stretching culture. Sensors and Actuators B: Chemical, 2011, 156, 486-493.	7.8	53
72	Formation of superhydrophobic/superhydrophilic patterns by combination of nanostructure-imprinted perfluoropolymer and nanostructured silicon oxide for biological droplet generation. Applied Physics Letters, 2011, 98, 123706.	3.3	20

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73	Enhanced Angiogenesis by Transplantation of Mesenchymal Stem Cell Sheet Created by a Novel Magnetic Tissue Engineering Method. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 2210-2215.	2.4	88
74	Assembly of skeletal muscle cells on a Si-MEMS device and their generative force measurement. Biomedical Microdevices, 2010, 12, 247-252.	2.8	33
75	Rapid decrease in active tension generated by C2C12 myotubes after termination of artificial exercise. Journal of Muscle Research and Cell Motility, 2010, 31, 279-288.	2.0	15
76	Micropatterning of single myotubes on a thermoresponsive culture surface using elastic stencil membranes for single-cell analysis. Journal of Bioscience and Bioengineering, 2010, 109, 174-178.	2.2	29
77	Enhancement of C2C12 differentiation by perfluorocarbon-mediated oxygen delivery. Journal of Bioscience and Bioengineering, 2010, 110, 359-362.	2.2	11
78	Oxygen plasmaâ€treated thermoresponsive polymer surfaces for cell sheet engineering. Biotechnology and Bioengineering, 2010, 106, 303-310.	3.3	50
79	Novel method for measuring active tension generation by C2C12 myotube using UVâ€crosslinked collagen film. Biotechnology and Bioengineering, 2010, 106, 482-489.	3.3	29
80	Evaluation of serumâ€free differentiation conditions for C2C12 myoblast cells assessed as to active tension generation capability. Biotechnology and Bioengineering, 2010, 107, 894-901.	3.3	40
81	Fabrication of scaffold-free contractile skeletal muscle tissue using magnetite-incorporated myogenic C2C12 cells. Journal of Tissue Engineering and Regenerative Medicine, 2010, 4, n/a-n/a.	2.7	23
82	Magnetic Force-Based Tissue Engineering of Skeletal Muscle for Bio-Actuator. , 2010, , 171-176.		0
83	Fabrication of Skeletal Muscle Tissue from C2C12 Myoblast Cell Towards the Use as Bio-Actuator. , 2010, , 177-183.		0
84	Integration of Skeletal Muscle Cell onto Si-MEMS and its Generative Force Measurement. , 2009, , .		1
85	Preparation of artificial skeletal muscle tissues by a magnetic force-based tissue engineering technique. Journal of Bioscience and Bioengineering, 2009, 108, 538-543.	2.2	88
86	Application of a cell sheetâ€“polymer film complex with temperature sensitivity for increased mechanical strength and cell alignment capability. Biotechnology and Bioengineering, 2009, 103, 370-377.	3.3	34
87	Alignment of skeletal muscle myoblasts and myotubes using linear micropatterned surfaces ground with abrasives. Biotechnology and Bioengineering, 2009, 103, 631-638.	3.3	95
88	Novel method for fabrication of skeletal muscle construct from the C2C12 myoblast cell line using serumâ€free medium AIMâ€V. Biotechnology and Bioengineering, 2009, 103, 1034-1041.	3.3	36
89	Effect of global transcriptional regulators related to carbohydrate metabolism on organic solvent tolerance in Escherichia coli. Journal of Bioscience and Bioengineering, 2008, 105, 389-394.	2.2	16
90	Mag-seeding of rat bone marrow stromal cells into porous hydroxyapatite scaffolds for bone tissue engineering. Journal of Bioscience and Bioengineering, 2007, 104, 171-177.	2.2	69

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91	Construction of multi-layered cardiomyocyte sheets using magnetite nanoparticles and magnetic force. Biotechnology and Bioengineering, 2007, 96, 803-809.	3.3	87
92	Bone tissue engineering with human mesenchymal stem cell sheets constructed using magnetite nanoparticles and magnetic force. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 82B, 471-480.	3.4	126
93	Effective cell-seeding technique using magnetite nanoparticles and magnetic force onto decellularized blood vessels for vascular tissue engineering. Journal of Bioscience and Bioengineering, 2007, 103, 472-478.	2.2	104
94	Increase of organic solvent tolerance by overexpression of manXYZ in Escherichia coli. Applied Microbiology and Biotechnology, 2007, 73, 1394-1399.	3.6	43
95	Fabrication of 3D Tissue-Like Structure Ussing Magnetite Nanoparticles and Magnetic Force. , 2006, , .		1
96	Enhanced cell-seeding into 3D porous scaffolds by use of magnetite nanoparticles. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2006, 77B, 265-272.	3.4	84
97	Magnetic force-based mesenchymal stem cell expansion using antibody-conjugated magnetoliposomes. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2005, 75B, 320-327.	3.4	27
98	Discovery of glpC , an Organic Solvent Tolerance-Related Gene in Escherichia coli , Using Gene Expression Profiles from DNA Microarrays. Applied and Environmental Microbiology, 2005, 71, 1093-1096.	3.1	37
99	Time-course data analysis of gene expression profiles reveals purR regulon concerns in organic solvent tolerance in Escherichia coli. Journal of Bioscience and Bioengineering, 2005, 99, 72-74.	2.2	15