

Masahiro Kino-oka

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

184 papers	1,902 citations	23 h-index	32 g-index
193 ext. papers	2,115 ext. citations	3.7 avg, IF	4.97 L-index

#	Paper	IF	Citations
184	Hybrid-model-based design of fill-freeze-thaw processes for human induced pluripotent stem cells considering productivity and quality. <i>Computers and Chemical Engineering</i> , 2022 , 156, 107566	4	2
183	Approach of resource expenditure estimation toward mechanization in the manufacturing of cell-based products.. <i>Regenerative Therapy</i> , 2022 , 20, 9-17	3.7	0
182	A multilayered approach to scale-up forced convection-based freezing of human induced pluripotent stem cells. <i>Computers and Chemical Engineering</i> , 2022 , 107851	4	
181	Development of instability analysis for the filling process of human-induced pluripotent stem cell products. <i>Biochemical Engineering Journal</i> , 2022 , 108506	4.2	0
180	Numerical Optimization of Particle Dispersion in Wave Bioreactor for Static Cell Cultivation. <i>Journal of Chemical Engineering of Japan</i> , 2021 , 54, 87-92	0.8	2
179	Exogenous FGF-2 prolongs endothelial connection in multilayered human skeletal muscle cell sheet. <i>Journal of Bioscience and Bioengineering</i> , 2021 , 131, 686-695	3.3	1
178	Development of a kinetic model expressing anomalous phenomena in human induced pluripotent stem cell culture. <i>Journal of Bioscience and Bioengineering</i> , 2021 , 131, 305-313	3.3	
177	The impact of culture dimensionality on behavioral epigenetic memory contributing to pluripotent state of iPS cells. <i>Journal of Cellular Physiology</i> , 2021 , 236, 4985-4996	7	2
176	Model-based assessment of temperature profiles in slow freezing for human induced pluripotent stem cells. <i>Computers and Chemical Engineering</i> , 2021 , 144, 107150	4	9
175	Current Developments in the Stable Production of Human Induced Pluripotent Stem Cells. <i>Engineering</i> , 2021 , 7, 144-152	9.7	6
174	Numerical Investigation on Suspension Culture in an Orbitally Shaken Cylindrical Bioreactor. <i>Journal of Chemical Engineering of Japan</i> , 2021 , 54, 351-357	0.8	1
173	Design of suspension culture system with bubble sparging for human induced pluripotent stem cells in a plastic fluid. <i>Journal of Bioscience and Bioengineering</i> , 2021 , 132, 190-197	3.3	
172	Mechanobiological conceptual framework for assessing stem cell bioprocess effectiveness. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 4537-4549	4.9	1
171	Bayesian Optimization for Hydrodynamic Characterization of a Cylindrical Orbitally Shaken Bioreactor with a Bump at the Bottom. <i>Journal of Chemical Engineering of Japan</i> , 2021 , 54, 493-499	0.8	0
170	Effect of initial seeding density on cell behavior-driven epigenetic memory and preferential lineage differentiation of human iPSCs. <i>Stem Cell Research</i> , 2021 , 56, 102534	1.6	0
169	Novel approach to enhance aggregate migration-driven epigenetic memory which induces cardiomyogenic differentiation on a dendrimer-immobilized surface. <i>Journal of Bioscience and Bioengineering</i> , 2021 , 132, 390-398	3.3	
168	Features of cell processing based on cell manufacturability and product quality fluctuation. <i>Drug Delivery System</i> , 2021 , 36, 369-376	0	

167	The Numerical Estimation of Mass Transfer Coefficient of Oxygen in the Large-Scale Suspension Culture of iPS Cells. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 778, 012030	0.4	2
166	Cell jamming, stratification and p63 expression in cultivated human corneal epithelial cell sheets. <i>Scientific Reports</i> , 2020 , 10, 9282	4.9	2
165	Muscle lineage switching by migratory behaviour-driven epigenetic modifications of human mesenchymal stem cells on a dendrimer-immobilized surface. <i>Acta Biomaterialia</i> , 2020 , 106, 170-180	10.8	4
164	Slow freezing process design for human induced pluripotent stem cells by modeling intracontainer variation. <i>Computers and Chemical Engineering</i> , 2020 , 132, 106597	4	11
163	Bioengineering Considerations for a Nurturing Way to Enhance Scalable Expansion of Human Pluripotent Stem Cells. <i>Biotechnology Journal</i> , 2020 , 15, e1900314	5.6	3
162	Designing a blueprint for next-generation stem cell bioprocessing development. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 832-843	4.9	2
161	Suppression of time-dependent decay by controlling the redox balance of human induced pluripotent stem cells suspended in a cryopreservation solution. <i>Biochemical Engineering Journal</i> , 2020 , 155, 107465	4.2	4
160	Kinetics on aggregate behaviors of human induced pluripotent stem cells in static suspension and rotating flow cultures. <i>Journal of Bioscience and Bioengineering</i> , 2020 , 129, 494-501	3.3	1
159	Multiobjective Dynamic Optimization of Slow Freezing Processes for Human Induced Pluripotent Stem Cells by Modeling Intracontainer Condition. <i>Computer Aided Chemical Engineering</i> , 2020 , 265-270	0.6	1
158	Effect of Co-culturing Fibroblasts in Human Skeletal Muscle Cell Sheet on Angiogenic Cytokine Balance and Angiogenesis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 578140	5.8	5
157	Apoptosis-based method for determining lot sizes in the filling of human-induced pluripotent stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020 , 14, 1641-1651	4.4	6
156	Understanding the formation and behaviors of droplets toward consideration of changeover during cell manufacturing. <i>Regenerative Therapy</i> , 2019 , 12, 36-42	3.7	3
155	Maintenance of an undifferentiated state of human-induced pluripotent stem cells through botulinum hemagglutinin-mediated regulation of cell behavior. <i>Journal of Bioscience and Bioengineering</i> , 2019 , 127, 744-751	3.3	4
154	Kinetic modeling of human induced pluripotent stem cell expansion in suspension culture. <i>Regenerative Therapy</i> , 2019 , 12, 88-93	3.7	4
153	Alterations in Nuclear Lamina and the Cytoskeleton of Bone Marrow-Derived Human Mesenchymal Stem Cells Cultured Under Simulated Microgravity Conditions. <i>Stem Cells and Development</i> , 2019 , 28, 1167-1176	4.4	5
152	A distribution-based approach for determining lot sizes in the filling of human-induced pluripotent stem cells. <i>Regenerative Therapy</i> , 2019 , 12, 94-101	3.7	3
151	Variation in the manufacturing reproducibility of autologous cell-based products depending on raw material shipment conditions. <i>Regenerative Therapy</i> , 2019 , 12, 102-107	3.7	2
150	Numerical simulation of particle dispersion in a pre-processing of a static culture. <i>MATEC Web of Conferences</i> , 2019 , 268, 01001	0.3	

149	Effect of liquid flow by pipetting during medium change on deformation of hiPSC aggregates. <i>Regenerative Therapy</i> , 2019 , 12, 20-26	3.7	3
148	Numerical investigation of particle dispersion in the preprocessing stage for a static cell cultivation. <i>Regenerative Therapy</i> , 2019 , 12, 83-87	3.7	2
147	Maintenance of Neurogenic Differentiation Potential in Passaged Bone Marrow-Derived Human Mesenchymal Stem Cells Under Simulated Microgravity Conditions. <i>Stem Cells and Development</i> , 2019 , 28, 1552-1561	4.4	4
146	Numerical Simulation of Shaking Optimization in a Suspension Culture of iPS Cells. <i>Lecture Notes in Networks and Systems</i> , 2019 , 283-289	0.5	1
145	Integrated white-box models for designing freezing processes of human induced pluripotent stem cells considering diversity within a container. <i>Computer Aided Chemical Engineering</i> , 2019 , 877-882	0.6	1
144	Effect of migratory behaviors on human induced pluripotent stem cell colony formation on different extracellular matrix proteins. <i>Regenerative Therapy</i> , 2019 , 10, 27-35	3.7	6
143	Elucidation of human induced pluripotent stem cell behaviors in colonies based on a kinetic model. <i>Journal of Bioscience and Bioengineering</i> , 2019 , 127, 625-632	3.3	5
142	Anomalous cell migration triggers a switch to deviation from the undifferentiated state in colonies of human induced pluripotent stems on feeder layers. <i>Journal of Bioscience and Bioengineering</i> , 2019 , 127, 246-255	3.3	9
141	Role of cell-secreted extracellular matrix formation in aggregate formation and stability of human induced pluripotent stem cells in suspension culture. <i>Journal of Bioscience and Bioengineering</i> , 2019 , 127, 372-380	3.3	13
140	Comparison of growth kinetics between static and dynamic cultures of human induced pluripotent stem cells. <i>Journal of Bioscience and Bioengineering</i> , 2018 , 125, 736-740	3.3	8
139	Botulinum hemagglutinin-mediated in situ break-up of human induced pluripotent stem cell aggregates for high-density suspension culture. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 910-920	4.9	11
138	Kinetic analysis of cell decay during the filling process: Application to lot size determination in manufacturing systems for human induced pluripotent and mesenchymal stem cells. <i>Biochemical Engineering Journal</i> , 2018 , 131, 31-38	4.2	8
137	A Simple and Robust Method for Culturing Human-Induced Pluripotent Stem Cells in an Undifferentiated State Using Botulinum Hemagglutinin. <i>Biotechnology Journal</i> , 2018 , 13, 1700384	5.6	2
136	Maintenance of human chondrogenic phenotype on a dendrimer-immobilized surface for an application of cell sheet engineering. <i>BMC Biotechnology</i> , 2018 , 18, 14	3.5	10
135	Numerical Investigation for the Movement of Cell Colonies in Bioreactors: Stirring and Orbital Shaking Tanks. <i>Journal of Chemical Engineering of Japan</i> , 2018 , 51, 423-430	0.8	13
134	Large-scale culture of a megakaryocytic progenitor cell line with a single-use bioreactor system. <i>Biotechnology Progress</i> , 2018 , 34, 362-369	2.8	4
133	Bioprocessing Strategies for Pluripotent Stem Cells Based on Waddington's Epigenetic Landscape. <i>Trends in Biotechnology</i> , 2018 , 36, 89-104	15.1	15
132	A novel, flexible and automated manufacturing facility for cell-based health care products: Tissue Factory. <i>Regenerative Therapy</i> , 2018 , 9, 89-99	3.7	18

131	Effects of residual HO on the growth of MSCs after decontamination. <i>Regenerative Therapy</i> , 2018 , 9, 111-115	3.7	6
130	A Novel Strategy for Simple and Robust Expansion of Human Pluripotent Stem Cells Using Botulinum Hemagglutinin. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1077, 19-29	3.6	2
129	Chondrogenesis and hypertrophy in response to aggregate behaviors of human mesenchymal stem cells on a dendrimer-immobilized surface. <i>Biotechnology Letters</i> , 2017 , 39, 1253-1261	3	2
128	Phenotypic heterogeneity of human retinal pigment epithelial cells in passaged cell populations. <i>Journal of Bioscience and Bioengineering</i> , 2017 , 124, 227-233	3.3	3
127	Botulinum hemagglutinin-mediated selective removal of cells deviating from the undifferentiated state in hiPSC colonies. <i>Scientific Reports</i> , 2017 , 7, 93	4.9	10
126	Size- and time-dependent growth properties of human induced pluripotent stem cells in the culture of single aggregate. <i>Journal of Bioscience and Bioengineering</i> , 2017 , 124, 469-475	3.3	16
125	Degradation of endothelial network in disordered tumor-containing cell sheet. <i>Journal of Bioscience and Bioengineering</i> , 2017 , 123, 748-753	3.3	1
124	Current state and perspectives in modeling and control of human pluripotent stem cell expansion processes in stirred-tank bioreactors. <i>Biotechnology Progress</i> , 2017 , 33, 355-364	2.8	8
123	Disruption of myoblast alignment by highly motile rhabdomyosarcoma cell in tissue structure. <i>Journal of Bioscience and Bioengineering</i> , 2017 , 123, 259-264	3.3	3
122	Culture medium refinement by dialysis for the expansion of human induced pluripotent stem cells in suspension culture. <i>Bioprocess and Biosystems Engineering</i> , 2017 , 40, 123-131	3.7	21
121	Analysis of gene expression profiles of induced by direct contact with through recognition of yeast mannan. <i>Bioscience of Microbiota, Food and Health</i> , 2017 , 36, 17-25	3.2	9
120	Development of an automated chip culture system with integrated on-line monitoring for maturation culture of retinal pigment epithelial cells. <i>AIMS Bioengineering</i> , 2017 , 4, 402-417	3.4	1
119	Development of an automated chip culture system with integrated on-line monitoring for maturation culture of retinal pigment epithelial cells. <i>AIMS Bioengineering</i> , 2017 , 4, 402-417	3.4	
118	Facilitation of uniform maturation of human retinal pigment epithelial cells through collective movement in culture. <i>Journal of Bioscience and Bioengineering</i> , 2016 , 121, 220-6	3.3	7
117	Cell Production System Based on Flexible Modular Platform 2016 , 161-169		
116	An prediction tool for the expansion culture of human skeletal muscle myoblasts. <i>Royal Society Open Science</i> , 2016 , 3, 160500	3.3	3
115	Migration-driven aggregate behaviors of human mesenchymal stem cells on a dendrimer-immobilized surface direct differentiation toward a cardiomyogenic fate commitment. <i>Journal of Bioscience and Bioengineering</i> , 2016 , 122, 627-632	3.3	8
114	Experience of contamination during autologous cell manufacturing in cell processing facility under the Japanese Medical Practitioners Act and the Medical Care Act. <i>Regenerative Therapy</i> , 2016 , 5, 25-30	3.7	6

113	Changes in human mesenchymal stem cell behaviors on dendrimer-immobilized surfaces due to mediation of fibronectin adsorption and assembly. <i>Journal of Bioscience and Bioengineering</i> , 2015 , 120, 709-14	3.3	8
112	Maintenance of an undifferentiated state of human induced pluripotent stem cells through migration-dependent regulation of the balance between cell-cell and cell-substrate interactions. <i>Journal of Bioscience and Bioengineering</i> , 2015 , 119, 617-22	3.3	18
111	Locational heterogeneity of maturation by changes in migratory behaviors of human retinal pigment epithelial cells in culture. <i>Journal of Bioscience and Bioengineering</i> , 2015 , 119, 107-12	3.3	1
110	Directed differentiation of human mesenchymal stem cells toward a cardiomyogenic fate commitment through formation of cell aggregates. <i>Biochemical Engineering Journal</i> , 2014 , 84, 53-58	4.2	6
109	Kinetic analysis of deviation from the undifferentiated state in colonies of human induced pluripotent stem cells on feeder layers. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 1128-38	4.9	17
108	Maintenance of undifferentiated state of human induced pluripotent stem cells through cytoskeleton-driven force acting to secreted fibronectin on a dendrimer-immobilized surface. <i>Journal of Bioscience and Bioengineering</i> , 2014 , 118, 716-22	3.3	8
107	Influence of surface topography on the human epithelial cell response to micropatterned substrates with convex and concave architectures. <i>Journal of Biological Engineering</i> , 2014 , 8, 13	6.3	30
106	Switching between self-renewal and lineage commitment of human induced pluripotent stem cells via cell-substrate and cell-cell interactions on a dendrimer-immobilized surface. <i>Biomaterials</i> , 2014 , 35, 5670-8	15.6	32
105	Non-invasive detection of matrix-producing chondrocytes in tissue-engineered cartilage by second-harmonic-generation microscopy. <i>Journal of Biomechanical Science and Engineering</i> , 2014 , 9, JBSE0007-9	0.8	9
104	Protocol of Cardiomyogenic Induction of hMSCs on Dendrimer-Immobilized Surfaces Displaying with D-Glucose. <i>Manuals in Biomedical Research</i> , 2014 , 91-98		
103	Endothelial cell behavior inside myoblast sheets with different thickness. <i>Biotechnology Letters</i> , 2013 , 35, 1001-8	3	14
102	Preferential growth of skeletal myoblasts and fibroblasts in co-culture on a dendrimer-immobilized surface. <i>Journal of Bioscience and Bioengineering</i> , 2013 , 115, 96-9	3.3	9
101	Modulation of chondrocyte migration and aggregation by insulin-like growth factor-1 in cultured cartilage. <i>Biotechnology Letters</i> , 2013 , 35, 295-300	3	8
100	Network formation through active migration of human vascular endothelial cells in a multilayered skeletal myoblast sheet. <i>Biomaterials</i> , 2013 , 34, 662-8	15.6	39
99	Cell Tracking under High Confluency Conditions by Candidate Cell Region Detection-based Association Approach 2013 ,		3
98	Evaluation of vertical cell fluidity in a multilayered sheet of skeletal myoblasts. <i>Journal of Bioscience and Bioengineering</i> , 2012 , 113, 128-31	3.3	20
97	Analysis of locality of early-stage maturation in confluent state of human retinal pigment epithelial cells. <i>Journal of Bioscience and Bioengineering</i> , 2012 , 113, 778-81	3.3	6
96	Effect of preservation conditions of collagen substrate on its fibril formation and rabbit chondrocyte morphology. <i>Journal of Bioscience and Bioengineering</i> , 2012 , 114, 360-3	3.3	1

95	7C11 Technical trend of cultures for human cells and tissues. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2012 , 2012.24, _7C11-1_-7C11-2_	0	
94	Strategy for preventing bacterial contamination by adding exogenous ethanol in solid-state semi-continuous bioethanol production. <i>Journal of Bioscience and Bioengineering</i> , 2011 , 111, 343-5	3.3	12
93	Characterization of spatial cell distribution in multilayer sheet of human keratinocytes through a stereoscopic cell imaging system. <i>Journal of Bioscience and Bioengineering</i> , 2011 , 112, 289-91	3.3	5
92	Comprehension of terminal differentiation and dedifferentiation of chondrocytes during passage cultures. <i>Journal of Bioscience and Bioengineering</i> , 2011 , 112, 395-401	3.3	13
91	Embryonic Stem Cells Maintain an Undifferentiated State on Dendrimer-Immobilized Surface with d-Glucose Display. <i>Polymers</i> , 2011 , 3, 2078-2087	4.5	1
90	Future Prospects for Tissue Factory. <i>Iryou Kikigaku (the Japanese Journal of Medical Instrumentation)</i> , 2011 , 81, 434-438	0	1
89	Evaluation Index of Cellular States Accompanying the Life-Span Progression of Human Keratinocytes. <i>Kagaku Kogaku Ronbunshu</i> , 2011 , 37, 351-355	0.4	1
88	Bioreactors for Animal Cell Cultures 2011 , 531-540		
87	Ethanol production from biomass by repetitive solid-state fed-batch fermentation with continuous recovery of ethanol. <i>Applied Microbiology and Biotechnology</i> , 2010 , 88, 87-94	5.7	13
86	Designing culture surfaces based on cell anchoring mechanisms to regulate cell morphologies and functions. <i>Biotechnology Advances</i> , 2010 , 28, 7-16	17.8	38
85	Myogenic induction of human mesenchymal stem cells by culture on dendrimer-immobilized surface with d-glucose display. <i>Journal of Bioscience and Bioengineering</i> , 2010 , 109, 55-61	3.3	8
84	Growth and differentiation potentials in confluent state of culture of human skeletal muscle myoblasts. <i>Journal of Bioscience and Bioengineering</i> , 2010 , 109, 310-3	3.3	17
83	Direct measurement of oxygen concentration inside cultured cartilage for relating to spatial growth of rabbit chondrocytes. <i>Journal of Bioscience and Bioengineering</i> , 2010 , 110, 363-6	3.3	8
82	Cardiomyogenic induction of human mesenchymal stem cells by altered Rho family GTPase expression on dendrimer-immobilized surface with D-glucose display. <i>Biomaterials</i> , 2010 , 31, 7666-77	15.6	28
81	Dendrimer-Immobilized Culture Surface as a Tool to Promote Aggregate Formation of Anchorage-Dependent Cells 2010 , 57-63		
80	Automating the expansion process of human skeletal muscle myoblasts with suppression of myotube formation. <i>Tissue Engineering - Part C: Methods</i> , 2009 , 15, 717-28	2.9	28
79	Morphological regulation and aggregate formation of rabbit chondrocytes on dendrimer-immobilized surfaces with D-glucose display. <i>Journal of Bioscience and Bioengineering</i> , 2009 , 107, 196-205	3.3	16
78	Morphological evaluation of chondrogenic potency in passaged cell populations. <i>Journal of Bioscience and Bioengineering</i> , 2009 , 107, 544-51	3.3	24

77	Synergic stimulation of laminin and epidermal growth factor facilitates the myoblast growth through promoting migration. <i>Journal of Bioscience and Bioengineering</i> , 2009 , 108, 174-7	3.3	12
76	Recent developments in processing systems for cell and tissue cultures toward therapeutic application. <i>Journal of Bioscience and Bioengineering</i> , 2009 , 108, 267-76	3.3	31
75	Quality assessment of collagen substrate by morphological response of chondrocytes. <i>Journal of Bioscience and Bioengineering</i> , 2009 , 108, S34	3.3	
74	Seeding density modulates migration and morphology of rabbit chondrocytes cultured in collagen gels. <i>Biotechnology and Bioengineering</i> , 2009 , 102, 294-302	4.9	18
73	Quality control of cultured tissues requires tools for quantitative analyses of heterogeneous features developed in manufacturing process. <i>Cell and Tissue Banking</i> , 2009 , 10, 63-74	2.2	3
72	A collagen-coated surface enables quantitative evaluation of morphological behaviors of rabbit chondrocytes relating to cell differentiation in an early culture phase. <i>Biochemical Engineering Journal</i> , 2009 , 45, 60-68	4.2	4
71	Cell behavior analysis to evaluate proliferative potentials of human lymphocytes expanded and activated for therapeutic use. <i>Journal of Bioscience and Bioengineering</i> , 2008 , 105, 566-9	3.3	2
70	Glucose transporter mediation responsible for morphological changes of human epithelial cells on glucose-displayed surfaces. <i>Journal of Bioscience and Bioengineering</i> , 2008 , 105, 319-26	3.3	8
69	Characterization of spatial growth and distribution of chondrocyte cells embedded in collagen gels through a stereoscopic cell imaging system. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 1230-40	4.9	12
68	Enrichment of undifferentiated mouse embryonic stem cells on a culture surface with a glucose-displaying dendrimer. <i>Biomaterials</i> , 2008 , 29, 4236-43	15.6	14
67	Effect of transforming growth factor-beta1 on morphological characteristics relating to migration and differentiation of rabbit chondrocytes cultured in collagen gels. <i>Journal of Bioscience and Bioengineering</i> , 2008 , 106, 547-53	3.3	3
66	Morphological regulation of rabbit chondrocytes on glucose-displayed surface. <i>Biomaterials</i> , 2007 , 28, 1680-8	15.6	17
65	Response of human epithelial cells to culture surfaces with varied roughnesses prepared by immobilizing dendrimers with/without D-glucose display. <i>Journal of Bioscience and Bioengineering</i> , 2007 , 103, 192-9	3.3	27
64	Synergistic effect of D-glucose and epidermal growth factor display on dynamic behaviors of human epithelial cells. <i>Journal of Bioscience and Bioengineering</i> , 2007 , 104, 428-31	3.3	5
63	Collagen vitrigel membrane useful for paracrine assays in vitro and drug delivery systems in vivo. <i>Journal of Biotechnology</i> , 2007 , 131, 76-83	3.7	49
62	Image cytometry for analyzing regional distribution of cells inside human neurospheres. <i>Journal of Bioscience and Bioengineering</i> , 2007 , 103, 384-7	3.3	9
61	Observational examination of aggregation and migration during early phase of neurosphere culture of mouse neural stem cells. <i>Journal of Bioscience and Bioengineering</i> , 2007 , 104, 231-4	3.3	20
60	EFFECT OF PASSAGE ON THE COMPRESSIVE PROPERTIES OF CULTURED CHONDROCYTES(1A1 Micro & Nano Biomechanics I). <i>The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics</i> , 2007 , 2007.3, S5		

59	Effect of neurosphere size on the growth rate of human neural stem/progenitor cells. <i>Journal of Neuroscience Research</i> , 2006 , 84, 1682-91	4.4	95
58	Monitoring of monolayer and multilayer growth for epithelial sheet formation. <i>Biochemical Engineering Journal</i> , 2006 , 32, 49-55	4.2	3
57	Observation of individual cell behaviors to analyze mitogenic effects of sericin 2006 , 155-161		5
56	Long-term subculture of human keratinocytes under an anoxic condition. <i>Journal of Bioscience and Bioengineering</i> , 2005 , 100, 119-22	3.3	14
55	Bioreactor design for successive culture of anchorage-dependent cells operated in an automated manner. <i>Tissue Engineering</i> , 2005 , 11, 535-45		39
54	Process design of chondrocyte cultures with monolayer growth for cell expansion and subsequent three-dimensional growth for production of cultured cartilage. <i>Journal of Bioscience and Bioengineering</i> , 2005 , 100, 67-76	3.3	14
53	A kinetic modeling of chondrocyte culture for manufacture of tissue-engineered cartilage. <i>Journal of Bioscience and Bioengineering</i> , 2005 , 99, 197-207	3.3	46
52	Relations between individual cellular motions and proliferative potentials in successive cultures of human keratinocytes. <i>Cytotechnology</i> , 2005 , 47, 127-31	2.2	7
51	Subculture of chondrocytes on a collagen type I-coated substrate with suppressed cellular dedifferentiation. <i>Tissue Engineering</i> , 2005 , 11, 597-608		56
50	Development of culture techniques of keratinocytes for skin graft production. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2004 , 91, 135-69	1.7	1
49	Dendrimer-immobilized culture surface as a tool to evaluate formation of cellular cytoskeleton of anchorage-dependent cells. <i>Journal of Bioscience and Bioengineering</i> , 2004 , 97, 233-8	3.3	8
48	Assessment of cell detachment and growth potential of human keratinocyte based on observed changes in individual cell area during trypsinization. <i>Biochemical Engineering Journal</i> , 2004 , 17, 49-55	4.2	22
47	Acute responses of cell individuals observed after calcium administration in human keratinocyte culture. <i>Biochemical Engineering Journal</i> , 2004 , 18, 155-158	4.2	1
46	Evaluation of growth potential of human epithelial cells by motion analysis of pairwise rotation under glucose-limited condition. <i>Biochemical Engineering Journal</i> , 2004 , 19, 109-117	4.2	19
45	Comprehension of attachment and multiplication properties by observing individual cell behaviors in anchorage-dependent culture. <i>Biochemical Engineering Journal</i> , 2004 , 20, 197-202	4.2	7
44	A Three-dimensional Growth Model for Chondrocytes Embedded in Collagen Gel. <i>Kagaku Kogaku Ronbunshu</i> , 2004 , 30, 515-521	0.4	5
43	Assessment of herbicidal toxicity based on non-destructive measurement of local chlorophyll content in photoautotrophic hairy roots. <i>Journal of Bioscience and Bioengineering</i> , 2003 , 95, 264-70	3.3	6
42	Characterization of Elongating Potentials of Root Tips in Terms of ATP Contents in Heterotrophic and Photoautotrophic Hairy Roots of Pak-Bung. <i>Journal of Chemical Engineering of Japan</i> , 2003 , 36, 725-729	0.8	29

41	Subculture Operation with Trypsin and Trypsin Inhibitor in Successive Passages of Human Keratinocytes. <i>Kagaku Kogaku Ronbunshu</i> , 2003 , 29, 432-438	0.4	
40	Elongating responses to herbicides of heterotrophic and photoautotrophic hairy roots derived from pak-bung plant. <i>Journal of Bioscience and Bioengineering</i> , 2002 , 93, 505-8	3.3	4
39	Correlation of cellular life span with growth parameters observed in successive cultures of human keratinocytes. <i>Journal of Bioscience and Bioengineering</i> , 2002 , 94, 231-236	3.3	15
38	Characterization of cellular motions through direct observation of individual cells at early stage in anchorage-dependent culture. <i>Journal of Bioscience and Bioengineering</i> , 2002 , 94, 351-356	3.3	25
37	Segmental distribution in potentials of lateral root budding and oxygen uptake of plant hairy roots. <i>Biochemical Engineering Journal</i> , 2002 , 10, 73-76	4.2	4
36	Correlation of cellular life span with growth parameters observed in successive cultures of human keratinocytes. <i>Journal of Bioscience and Bioengineering</i> , 2002 , 94, 231-6	3.3	7
35	Characterization of cellular motions through direct observation of individual cells at early stage in anchorage-dependent culture. <i>Journal of Bioscience and Bioengineering</i> , 2002 , 94, 351-6	3.3	9
34	Evaluation of growth property of red beet hairy roots depending on condition of inocula and its application to culture control with fuzzy logic theory. <i>Biochemical Engineering Journal</i> , 2001 , 8, 121-127	4.2	11
33	Evaluation of attachment and growth of anchorage-dependent cells on culture surfaces with type I collagen coating. <i>Journal of Bioscience and Bioengineering</i> , 2001 , 92, 385-388	3.3	30
32	Elongating Potential of Pak-Bung Hairy Roots under Photoautotrophic Culture Condition.. <i>Journal of Chemical Engineering of Japan</i> , 2001 , 34, 1396-1401	0.8	3
31	Characterization and application of plant hairy roots endowed with photosynthetic functions. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2001 , 72, 183-218	1.7	8
30	Development of an on-line monitoring system of human keratinocyte growth by image analysis and its application to bioreactor culture. <i>Biotechnology and Bioengineering</i> , 2000 , 67, 234-239	4.9	25
29	Culture of red beet hairy roots by considering variation in sensitivity of tip meristems to hydraulic stress. <i>Biochemical Engineering Journal</i> , 2000 , 6, 1-6	4.2	13
28	Development and characterization of a photoautotrophic cell line of pak-bung hairy roots. <i>Journal of Bioscience and Bioengineering</i> , 2000 , 89, 151-6	3.3	12
27	Valuation of growth parameters in monolayer keratinocyte cultures based on a two-dimensional cell placement model. <i>Journal of Bioscience and Bioengineering</i> , 2000 , 89, 285-7	3.3	26
26	Cultured epithelial autografts for the management of a chronic pretibial leg ulcer due to congenital valvular aplasia. <i>Dermatology</i> , 1999 , 198, 101-3	4.4	3
25	Computer controlled bioreactor for large-scale production of cultured skin grafts. <i>Annals of the New York Academy of Sciences</i> , 1999 , 875, 386-97	6.5	22
24	High-density culture of red beet hairy roots by considering medium flow condition in a bioreactor. <i>Chemical Engineering Science</i> , 1999 , 54, 3179-3186	4.4	29

23	Segmentation of plant hairy roots promotes lateral root emergence and subsequent growth. <i>Journal of Bioscience and Bioengineering</i> , 1999 , 88, 690-2	3.3	6
22	Effect of Liquid Flow on Pigment Formation of Red Beet Hairy Roots.. <i>Journal of Chemical Engineering of Japan</i> , 1999 , 32, 370-373	0.8	4
21	Automated Culture of Human Keratinocytes in Bioreactor with Image Analysis for Production of Autologous Skin Grafts. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1998 , 31, 473-478		
20	Effects of Glucose Concentration, Medium Osmotic Pressure and Light Intensity on the Growth of <i>Marchantia paleacea</i> var. <i>diptera</i> Cells in Photomixotrophic Culture.. <i>Kagaku Kogaku Ronbunshu</i> , 1998 , 24, 692-695	0.4	1
19	Growth of Human Keratinocytes on Hydrophilic Film Support and Application to Bioreactor Culture.. <i>Journal of Chemical Engineering of Japan</i> , 1998 , 31, 856-859	0.8	6
18	Effect of liquid flow on culture of red beet hairy roots in single column reactor.. <i>Journal of Chemical Engineering of Japan</i> , 1997 , 30, 1070-1075	0.8	18
17	Effect of Light Irradiation on Growth and Chlorophyll Formation of Pak-Bung Green Hairy Roots.. <i>Journal of Chemical Engineering of Japan</i> , 1996 , 29, 1050-1054	0.8	4
16	Oxygen transfer in bioreactor for culture of plant hairy roots.. <i>Journal of Chemical Engineering of Japan</i> , 1996 , 29, 531-534	0.8	12
15	Extracellular production of pigment from red beet hairy roots accompanied by oxygen starvation.. <i>Journal of Chemical Engineering of Japan</i> , 1996 , 29, 488-493	0.8	8
14	Growth characteristics of liverwort cells, <i>Marchantia paleacea</i> var. <i>diptera</i> , in a photoautotrophic suspension culture. <i>Journal of Bioscience and Bioengineering</i> , 1995 , 80, 580-585		11
13	Kinetic Expression for Pigment Production in Culture of Red beet Hairy Roots.. <i>Journal of Chemical Engineering of Japan</i> , 1995 , 28, 772-778	0.8	10
12	Culture of Red Beet Hairy Roots in a Column-type Reactor Associated with Pigment Release.. <i>Plant Tissue Culture Letters</i> , 1995 , 12, 201-204		5
11	Characterization of pak-bung green hairy roots cultivated under light irradiation. <i>Journal of Bioscience and Bioengineering</i> , 1994 , 78, 42-48		18
10	Production and release of anthraquinone pigments by hairy roots of madder (<i>Rubia tinctorum</i> L.) under improved culture conditions. <i>Journal of Bioscience and Bioengineering</i> , 1994 , 77, 103-106		18
9	Influence of medium constituents on enhancement of pigment production by batch culture of red beet hairy roots. <i>Journal of Bioscience and Bioengineering</i> , 1994 , 77, 215-217		25
8	Evaluation of Inhibitory Effect of Ammonium Ion on Cultures of Plant Hairy Roots.. <i>Journal of Chemical Engineering of Japan</i> , 1993 , 26, 578-580	0.8	3
7	Reversible morphology change of horseradish hairy roots cultivated in phytohormone-containing media. <i>Journal of Bioscience and Bioengineering</i> , 1993 , 75, 271-275		16
6	Culture of red beet hairy root in bioreactor and recovery of pigment released from the cells by repeated treatment of oxygen starvation.. <i>Journal of Chemical Engineering of Japan</i> , 1992 , 25, 490-495	0.8	37

5	Production and release of pigments by culture of transformed hairy root of red beet. <i>Journal of Bioscience and Bioengineering</i> , 1992 , 73, 31-36		64
4	Bioreactor-Based Culture of Plant Hairy Roots for Production and Recovery of Pigments 1992 , 296-298		1
3	Conductometric estimation of main inorganic nutrients in plant cell cultures.. <i>Journal of Chemical Engineering of Japan</i> , 1991 , 24, 381-384	0.8	7
2	Production of Superoxide Dismutase from Plant Hairy Roots by Considering the Effect of Nitrogen Source in Their Cultures.. <i>Kagaku Kogaku Ronbunshu</i> , 1991 , 17, 1012-1018	0.4	8
1	A kinetic model of branching growth of plant hairy root.. <i>Journal of Chemical Engineering of Japan</i> , 1989 , 22, 698-700	0.8	25