Ikki Horiguchi

List of Publications by Year
in descending order

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23 papers	238 citations	1040018 9 h-index	996954 15 g-index
24 all docs	24 docs citations	24 times ranked	355 citing authors

#	Article	IF	Citations
1	Effects of glucose, lactate and basic FGF as limiting factors on the expansion of human induced pluripotent stem cells. Journal of Bioscience and Bioengineering, 2018, 125, 111-115.	2.2	26
2	Development of bioactive hydrogel capsules for the 3D expansion of pluripotent stem cells in bioreactors. Biomaterials Science, 2014, 2, 176-183.	5.4	25
3	Proliferation, morphology, and pluripotency of mouse induced pluripotent stem cells in three different types of alginate beads for mass production. Biotechnology Progress, 2014, 30, 896-904.	2.6	20
4	Size-dependent hepatic differentiation of human induced pluripotent stem cells spheroid in suspension culture. Regenerative Therapy, 2019, 12, 66-73.	3.0	17
5	Slow freezing process design for human induced pluripotent stem cells by modeling intracontainer variation. Computers and Chemical Engineering, 2020, 132, 106597.	3.8	16
6	Current Developments in the Stable Production of Human Induced Pluripotent Stem Cells. Engineering, 2021, 7, 144-152.	6.7	16
7	Switching of Cell Proliferation/Differentiation in Thiolâ€“Maleimide Clickable Microcapsules Triggered by in Situ Conjugation of Biomimetic Peptides. Biomacromolecules, 2019, 20, 2350-2359.	5.4	15
8	Model-based assessment of temperature profiles in slow freezing for human induced pluripotent stem cells. Computers and Chemical Engineering, 2021, 144, 107150.	3.8	13
9	Serum replacement with albuminâ€associated lipids prevents excess aggregation and enhances growth of induced pluripotent stem cells in suspension culture. Biotechnology Progress, 2016, 32, 1009-1016.	2.6	12
10	Protection of human induced pluripotent stem cells against shear stress in suspension culture by Bingham plastic fluid. Biotechnology Progress, 2021, 37, e3100.	2.6	10
11	A miniature dialysis-culture device allows high-density human-induced pluripotent stem cells expansion from growth factor accumulation. Communications Biology, 2021, 4, 1316.	4.4	9
12	Alginate Encapsulation of Pluripotent Stem Cells Using a Co-axial Nozzle. Journal of Visualized Experiments, 2015, , e52835.	0.3	8
13	Organization of liver organoids using Raschig ring-like micro-scaffolds and triple co-culture: Toward modular assembly-based scalable liver tissue engineering. Medical Engineering and Physics, 2020, 76, 69-78.	1.7	8
14	Enhanced Hepatic Differentiation of Human Induced Pluripotent Stem Cells Using Gas-Permeable Membrane. Tissue Engineering - Part A, 2019, 25, 457-467.	3.1	7
15	Apoptosisâ€based method for determining lot sizes in the filling of humanâ€induced pluripotent stem cells. Journal of Tissue Engineering and Regenerative Medicine, 2020, 14, 1641-1651.	2.7	7
16	A novel tool for suspension culture of human induced pluripotent stem cells: Lysophospholipids as a cell aggregation regulator. Regenerative Therapy, 2019, 12, 74-82.	3.0	6
17	Physiological Microenvironmental Conditions in Different Scalable Culture Systems for Pluripotent Stem Cell Expansion and Differentiation. Open Biomedical Engineering Journal, 2019, 13, 41-54.	0.5	6
18	Production of homogenous sizeâ€controlled human induced pluripotent stem cell aggregates using ringâ€shaped culture vessel. Journal of Tissue Engineering and Regenerative Medicine, 2022, 16, 254-266.	2.7	6

#	Article	IF	Citations
19	Suppression of time-dependent decay by controlling the redox balance of human induced pluripotent stem cells suspended in a cryopreservation solution. Biochemical Engineering Journal, 2020, 155, 107465.	3.6	5
20	An Orbital Shaking Culture of Mammalian Cells in O-shaped Vessels to Produce Uniform Aggregates. Journal of Visualized Experiments, 2019, , .	0.3	2
21	Integrated white-box models for designing freezing processes of human induced pluripotent stem cells considering diversity within a container. Computer Aided Chemical Engineering, 2019, , 877-882.	0.5	1
22	Multiobjective Dynamic Optimization of Slow Freezing Processes for Human Induced Pluripotent Stem Cells by Modeling Intracontainer Condition. Computer Aided Chemical Engineering, 2020, , 265-270.	0.5	1
23	Development of instability analysis for the filling process of human-induced pluripotent stem cell products. Biochemical Engineering Journal, 2022, , 108506.	3.6	1