Henning Kempf

List of Publications by Citations

29 papers	1,091 citations	16 h-index	31 g-index
31 ext. papers	1,411 ext. citations	9.8 avg, IF	4.13 L-index

#	Paper	IF	Citations
29	Controlling expansion and cardiomyogenic differentiation of human pluripotent stem cells in scalable suspension culture. *Stem Cell Reports*, **2014**, 3, 1132-46	8	160
28	Cardiac differentiation of human pluripotent stem cells in scalable suspension culture. *Nature Protocols*, **2015**, 10, 1345-61	18.8	105
27	The use of agarose microwells for scalable embryoid body formation and cardiac differentiation of human and murine pluripotent stem cells. *Biomaterials*, **2013**, 34, 2463-71	15.6	104
26	Impact of Feeding Strategies on the Scalable Expansion of Human Pluripotent Stem Cells in Single-Use Stirred Tank Bioreactors. *Stem Cells Translational Medicine*, **2016**, 5, 1289-1301	6.9	90
25	Large-scale production of human pluripotent stem cell derived cardiomyocytes. *Advanced Drug Delivery Reviews*, **2016**, 96, 18-30	18.5	75
24	Bulk cell density and Wnt/TGFbeta signalling regulate mesendodermal patterning of human pluripotent stem cells. *Nature Communications*, **2016**, 7, 13602	17.4	74
23	Human heart-forming organoids recapitulate early heart and foregut development. *Nature Biotechnology*, **2021**, 39, 737-746	44.5	65
22	Bioreactor-based mass production of human iPSC-derived macrophages enables immunotherapies against bacterial airway infections. *Nature Communications*, **2018**, 9, 5088	17.4	65
21	Differentiation of Human Pluripotent Stem Cells into Functional Endothelial Cells in Scalable Suspension Culture. *Stem Cell Reports*, **2018**, 10, 1657-1672	8	51
20	Stiff matrix induces switch to pure β-cardiac myosin heavy chain expression in human ESC-derived cardiomyocytes. *Basic Research in Cardiology*, **2016**, 111, 68	11.8	39
19	Continuous WNT Control Enables Advanced hPSC Cardiac Processing and Prognostic Surface Marker Identification in Chemically Defined Suspension Culture. *Stem Cell Reports*, **2019**, 13, 366-379	8	35
18	Distinct regulation of mitogen-activated protein kinase activities is coupled with enhanced cardiac differentiation of human embryonic stem cells. *Stem Cell Research*, **2011**, 7, 198-209	1.6	25
17	iPSC-Derived Macrophages Effectively Treat Pulmonary Alveolar Proteinosis in Csf2rb-Deficient Mice. *Stem Cell Reports*, **2018**, 11, 696-710	8	24
16	Expansion of functional personalized cells with specific transgene combinations. *Nature Communications*, **2018**, 9, 994	17.4	21
15	Proteomic Analysis of Human Pluripotent Stem Cell Cardiomyogenesis Revealed Altered Expression of Metabolic Enzymes and PDLIM5 Isoforms. *Journal of Proteome Research*, **2017**, 16, 1133-1149	5.6	20
14	A Cardiac Cell Outgrowth Assay for Evaluating Drug Compounds Using a Cardiac Spheroid-on-a-Chip Device. *Bioengineering*, **2018**, 5,	5.3	16
13	Comparing human iPSC-cardiomyocytes versus HEK293T cells unveils disease-causing effects of Brugada mutation A735V of Na1.5 sodium channels. *Scientific Reports*, **2019**, 9, 11173	4.9	16

List of Publications

12	Scalable Cardiac Differentiation of Pluripotent Stem Cells Using Specific Growth Factors and Small Molecules. *Advances in Biochemical Engineering/Biotechnology*, **2018**, 163, 39-69	1.7	15
11	Fast and efficient multitransgenic modification of human pluripotent stem cells. *Human Gene Therapy Methods*, **2014**, 25, 136-53	4.9	14
10	EBIO Does Not Induce Cardiomyogenesis in Human Pluripotent Stem Cells but Modulates Cardiac Subtype Enrichment by Lineage-Selective Survival. *Stem Cell Reports*, **2017**, 8, 305-317	8	13
9	Paracrine mechanisms in early differentiation of human pluripotent stem cells: Insights from a mathematical model. *Stem Cell Research*, **2018**, 32, 1-7	1.6	12
8	A Microfluidic Bioreactor for Toxicity Testing of Stem Cell Derived 3D Cardiac Bodies. *Methods in Molecular Biology*, **2016**, 1502, 159-68	1.4	9
7	Sensitivity of human pluripotent stem cells to insulin precipitation induced by peristaltic pump-based medium circulation: considerations on process development. *Scientific Reports*, **2017**, 7, 3950	4.9	8
6	A 3D iPSC-differentiation model identifies interleukin-3 as a regulator of early human hematopoietic specification. *Haematologica*, **2021**, 106, 1354-1367	6.6	8
5	Scalable production of tissue-like vascularised liver organoids from human PSCs		4
4	Evaluating the Effect of Drug Compounds on Cardiac Spheroids Using the Cardiac Cell Outgrowth Assay. *Methods in Molecular Biology*, **2019**, 1994, 185-193	1.4	2
3	Solubilization and renaturation of biologically active human bone morphogenetic protein-4 from inclusion bodies. *Biotechnology Reports (Amsterdam, Netherlands)*, **2018**, 18, e00249	5.3	2
2	Bioreactors for Expansion of Pluripotent Stem Cells and Their Differentiation to Cardiac Cells **2016**, 175-200		2
1	Continuous human iPSC-macrophage mass production by suspension culture in stirred tank bioreactors.. *Nature Protocols*, **2022**,	18.8	2