

Petr Dvorak

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.

54 papers	3,001 citations	25 h-index	54 g-index
57 ext. papers	3,316 ext. citations	7.7 avg, IF	4.07 L-index

#	Paper	IF	Citations
54	Oxygen Is an Ambivalent Factor for the Differentiation of Human Pluripotent Stem Cells in Cardiac 2D Monolayer and 3D Cardiac Spheroids. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
53	DMD Pluripotent Stem Cell Derived Cardiac Cells Recapitulate Human Cardiac Pathophysiology. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 535	5.8	10
52	Cardiovascular progenitor cells and tissue plasticity are reduced in a myocardium affected by Becker muscular dystrophy. <i>Orphanet Journal of Rare Diseases</i> , 2020 , 15, 65	4.2	4
51	Percutaneous biopsy of retroperitoneal lesions - 10 year experience of a single centre. <i>Biomedical Papers of the Medical Faculty of the University Palacky&#x0301;, Olomouc, Czechoslovakia</i> , 2020 , 164, 435-443	1.7	1
50	Generation of two Duchenne muscular dystrophy patient-specific induced pluripotent stem cell lines DMD02 and DMD03 (MUNii001-A and MUNii003-A). <i>Stem Cell Research</i> , 2019 , 40, 101562	1.6	4
49	Dystrophin Deficiency Leads to Genomic Instability in Human Pluripotent Stem Cells via NO Synthase-Induced Oxidative Stress. <i>Cells</i> , 2019 , 8,	7.9	19
48	Ligase 3-mediated end-joining maintains genome stability of human embryonic stem cells. <i>FASEB Journal</i> , 2019 , 33, 6778-6788	0.9	3
47	Biomechanical Characterization of Human Pluripotent Stem Cell-Derived Cardiomyocytes by Use of Atomic Force Microscopy. <i>Methods in Molecular Biology</i> , 2019 , 1886, 343-353	1.4	4
46	Freshwater Cyanotoxin Cylindrospermopsin Has Detrimental Stage-specific Effects on Hepatic Differentiation From Human Embryonic Stem Cells. <i>Toxicological Sciences</i> , 2019 , 168, 241-251	4.4	4
45	Computer-assisted engineering of hyperstable fibroblast growth factor 2. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 850-862	4.9	27
44	Post-Translational Modifications and Diastolic Calcium Leak Associated to the Novel RyR2-D3638A Mutation Lead to CPVT in Patient-Specific hiPSC-Derived Cardiomyocytes. <i>Journal of Clinical Medicine</i> , 2018 , 7,	5.1	20
43	Tyrosine Kinase Expressed in Hepatocellular Carcinoma, TEC, Controls Pluripotency and Early Cell Fate Decisions of Human Pluripotent Stem Cells via Regulation of Fibroblast Growth Factor-2 Secretion. <i>Stem Cells</i> , 2017 , 35, 2050-2059	5.8	4
42	Phenotypic assays for analyses of pluripotent stem cell-derived cardiomyocytes. <i>Journal of Molecular Recognition</i> , 2017 , 30, e2602	2.6	12
41	Atomic force microscopy combined with human pluripotent stem cell derived cardiomyocytes for biomechanical sensing. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 751-757	11.8	42
40	CIRSE Standards of Practice Guidelines on Gastrostomy. <i>CardioVascular and Interventional Radiology</i> , 2016 , 39, 973-87	2.7	27
39	Stage-specific roles of FGF2 signaling in human neural development. <i>Stem Cell Research</i> , 2016 , 17, 330-341	4.6	19
38	Fibroblast growth factor and canonical WNT/βcatenin signaling cooperate in suppression of chondrocyte differentiation in experimental models of FGFR signaling in cartilage. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015 , 1852, 839-50	6.9	42

37	MEK and TGF-beta Inhibition Promotes Reprogramming without the Use of Transcription Factor. <i>PLoS ONE</i> , 2015 , 10, e0127739	3.7	6
36	Mutation frequency dynamics in HPRT locus in culture-adapted human embryonic stem cells and induced pluripotent stem cells correspond to their differentiated counterparts. <i>Stem Cells and Development</i> , 2014 , 23, 2443-54	4.4	16
35	Human pluripotent stem cell-derived cardiomyocytes as research and therapeutic tools. <i>BioMed Research International</i> , 2014 , 2014, 512831	3	39
34	Molecular and Functional Characterization of Uniform-Sized Beating Embryoid Bodies and Cardiomyocytes from Human Embryonic and Induced Pluripotent Stem Cells. <i>Biophysical Journal</i> , 2014 , 106, 565a	2.9	3
33	Forced aggregation and defined factors allow highly uniform-sized embryoid bodies and functional cardiomyocytes from human embryonic and induced pluripotent stem cells. <i>Heart and Vessels</i> , 2014 , 29, 834-46	2.1	33
32	Cultivation-dependent plasticity of melanoma phenotype. <i>Tumor Biology</i> , 2013 , 34, 3345-55	2.9	11
31	Nonlinear regression models for determination of nicotinamide adenine dinucleotide content in human embryonic stem cells. <i>Stem Cell Reviews and Reports</i> , 2013 , 9, 786-93	6.4	6
30	Expression of FGF19 in human embryonic stem cells. <i>Stem Cells</i> , 2013 , 31, 2582-4	5.8	8
29	Decrease in abundance of apurinic/apyrimidinic endonuclease causes failure of base excision repair in culture-adapted human embryonic stem cells. <i>Stem Cells</i> , 2013 , 31, 693-702	5.8	18
28	PTP1B is an effector of activin signaling and regulates neural specification of embryonic stem cells. <i>Cell Stem Cell</i> , 2013 , 13, 706-19	18	23
27	Adaptation to robust monolayer expansion produces human pluripotent stem cells with improved viability. <i>Stem Cells Translational Medicine</i> , 2013 , 2, 246-54	6.9	28
26	MicroRNAs regulate p21(Waf1/Cip1) protein expression and the DNA damage response in human embryonic stem cells. <i>Stem Cells</i> , 2012 , 30, 1362-72	5.8	86
25	"Click & seed" approach to the biomimetic modification of material surfaces. <i>Macromolecular Bioscience</i> , 2012 , 12, 1232-42	5.5	38
24	Histological findings around electrodes in pacemaker and implantable cardioverter-defibrillator patients: comparison of steroid-eluting and non-steroid-eluting electrodes. <i>Europace</i> , 2012 , 14, 117-23	3.9	27
23	In vitro differentiation of mouse embryonic stem cells into neurons of the dorsal forebrain. <i>Cellular and Molecular Neurobiology</i> , 2011 , 31, 715-27	4.6	10
22	Human embryonic stem cells suffer from centrosomal amplification. <i>Stem Cells</i> , 2011 , 29, 46-56	5.8	36
21	Pentapeptide-modified poly(N,N-diethylacrylamide) hydrogel scaffolds for tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011 , 98, 54-67	3.5	7
20	Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage. <i>Nature Biotechnology</i> , 2011 , 29, 1132-44	44.5	406

19	High-resolution DNA analysis of human embryonic stem cell lines reveals culture-induced copy number changes and loss of heterozygosity. <i>Nature Biotechnology</i> , 2010 , 28, 371-7	44.5	223
18	Lack of population diversity in commonly used human embryonic stem-cell lines. <i>New England Journal of Medicine</i> , 2010 , 362, 183-5	59.2	44
17	Development of humanized culture medium with plant-derived serum replacement for human pluripotent stem cells. <i>Reproductive BioMedicine Online</i> , 2010 , 21, 676-86	4	9
16	Human embryonic stem cells are capable of executing G1/S checkpoint activation. <i>Stem Cells</i> , 2010 , 28, 1143-52	5.8	60
15	A complex role for FGF-2 in self-renewal, survival, and adhesion of human embryonic stem cells. <i>Stem Cells</i> , 2009 , 27, 1847-57	5.8	160
14	Comparative study of mouse and human feeder cells for human embryonic stem cells. <i>International Journal of Developmental Biology</i> , 2008 , 52, 353-63	1.9	107
13	Characterization of human embryonic stem cell lines by the International Stem Cell Initiative. <i>Nature Biotechnology</i> , 2007 , 25, 803-16	44.5	857
12	Functional polymer hydrogels for embryonic stem cell support. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006 , 76, 315-25	3.5	30
11	Fibroblast growth factor signaling in embryonic and cancer stem cells. <i>FEBS Letters</i> , 2006 , 580, 2869-74	3.8	71
10	Surface immobilized protein multilayers for cell seeding. <i>Langmuir</i> , 2005 , 21, 7877-83	4	31
9	Abnormal development of mouse embryoid bodies lacking p27Kip1 cell cycle regulator. <i>Stem Cells</i> , 2005 , 23, 965-74	5.8	22
8	Expression and potential role of fibroblast growth factor 2 and its receptors in human embryonic stem cells. <i>Stem Cells</i> , 2005 , 23, 1200-11	5.8	171
7	Basic fibroblast growth factor and its receptors in human embryonic stem cells. <i>Folia Histochemica Et Cytobiologica</i> , 2005 , 43, 203-8	1.4	38
6	The role of p27(Kip1) in maintaining the levels of D-type cyclins in vivo. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2004 , 1691, 105-16	4.9	18
5	Poly(2-hydroxyethyl methacrylate)-based slabs as a mouse embryonic stem cell support. <i>Biomaterials</i> , 2004 , 25, 5249-60	15.6	44
4	The appearance of truncated cyclin A2 correlates with differentiation of mouse embryonic stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 302, 825-30	3.4	7
3	Targeted disruption of fibroblast growth factor receptor-1 blocks maturation of visceral endoderm and cavitation in mouse embryoid bodies. <i>International Journal of Developmental Biology</i> , 2002 , 46, 817-25	1.9	20
2	Changes in the expression of FGFR3 in patients with chronic myeloid leukaemia receiving transplants of allogeneic peripheral blood stem cells. <i>British Journal of Haematology</i> , 2001 , 113, 832-5	4.5	6

1	Levels and interactions of p27, cyclin D3, and CDK4 during the formation and maintenance of the corpus luteum in mice. <i>Biology of Reproduction</i> , 2000 , 62, 1393-401	3.9	36
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