

# Petr Dvorak

## List of Publications by Citations

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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	Characterization of human embryonic stem cell lines by the International Stem Cell Initiative. <i>Nature Biotechnology</i> , <b>2007</b> , 25, 803-16	44.5	857
53	Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage. <i>Nature Biotechnology</i> , <b>2011</b> , 29, 1132-44	44.5	406
52	High-resolution DNA analysis of human embryonic stem cell lines reveals culture-induced copy number changes and loss of heterozygosity. <i>Nature Biotechnology</i> , <b>2010</b> , 28, 371-7	44.5	223
51	Expression and potential role of fibroblast growth factor 2 and its receptors in human embryonic stem cells. <i>Stem Cells</i> , <b>2005</b> , 23, 1200-11	5.8	171
50	A complex role for FGF-2 in self-renewal, survival, and adhesion of human embryonic stem cells. <i>Stem Cells</i> , <b>2009</b> , 27, 1847-57	5.8	160
49	Comparative study of mouse and human feeder cells for human embryonic stem cells. <i>International Journal of Developmental Biology</i> , <b>2008</b> , 52, 353-63	1.9	107
48	MicroRNAs regulate p21(Waf1/Cip1) protein expression and the DNA damage response in human embryonic stem cells. <i>Stem Cells</i> , <b>2012</b> , 30, 1362-72	5.8	86
47	Fibroblast growth factor signaling in embryonic and cancer stem cells. <i>FEBS Letters</i> , <b>2006</b> , 580, 2869-74	3.8	71
46	Human embryonic stem cells are capable of executing G1/S checkpoint activation. <i>Stem Cells</i> , <b>2010</b> , 28, 1143-52	5.8	60
45	Lack of population diversity in commonly used human embryonic stem-cell lines. <i>New England Journal of Medicine</i> , <b>2010</b> , 362, 183-5	59.2	44
44	Poly(2-hydroxyethyl methacrylate)-based slabs as a mouse embryonic stem cell support. <i>Biomaterials</i> , <b>2004</b> , 25, 5249-60	15.6	44
43	Atomic force microscopy combined with human pluripotent stem cell derived cardiomyocytes for biomechanical sensing. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 85, 751-757	11.8	42
42	Fibroblast growth factor and canonical WNT/ $\beta$ -catenin 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> , <b>2015</b> , 1852, 839-50	6.9	42
41	Human pluripotent stem cell-derived cardiomyocytes as research and therapeutic tools. <i>BioMed Research International</i> , <b>2014</b> , 2014, 512831	3	39
40	"Click & seed" approach to the biomimetic modification of material surfaces. <i>Macromolecular Bioscience</i> , <b>2012</b> , 12, 1232-42	5.5	38
39	Basic fibroblast growth factor and its receptors in human embryonic stem cells. <i>Folia Histochemica Et Cytobiologica</i> , <b>2005</b> , 43, 203-8	1.4	38
38	Human embryonic stem cells suffer from centrosomal amplification. <i>Stem Cells</i> , <b>2011</b> , 29, 46-56	5.8	36

37	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> , <b>2000</b> , 62, 1393-401	3.9	36
36	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> , <b>2014</b> , 29, 834-46	2.1	33
35	Surface immobilized protein multilayers for cell seeding. <i>Langmuir</i> , <b>2005</b> , 21, 7877-83	4	31
34	Functional polymer hydrogels for embryonic stem cell support. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2006</b> , 76, 315-25	3.5	30
33	Adaptation to robust monolayer expansion produces human pluripotent stem cells with improved viability. <i>Stem Cells Translational Medicine</i> , <b>2013</b> , 2, 246-54	6.9	28
32	Computer-assisted engineering of hyperstable fibroblast growth factor 2. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 850-862	4.9	27
31	Histological findings around electrodes in pacemaker and implantable cardioverter-defibrillator patients: comparison of steroid-eluting and non-steroid-eluting electrodes. <i>Europace</i> , <b>2012</b> , 14, 117-23	3.9	27
30	CIRSE Standards of Practice Guidelines on Gastrostomy. <i>CardioVascular and Interventional Radiology</i> , <b>2016</b> , 39, 973-87	2.7	27
29	PTP1B is an effector of activin signaling and regulates neural specification of embryonic stem cells. <i>Cell Stem Cell</i> , <b>2013</b> , 13, 706-19	18	23
28	Abnormal development of mouse embryoid bodies lacking p27Kip1 cell cycle regulator. <i>Stem Cells</i> , <b>2005</b> , 23, 965-74	5.8	22
27	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> , <b>2018</b> , 7,	5.1	20
26	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> , <b>2002</b> , 46, 817-25	1.9	20
25	Dystrophin Deficiency Leads to Genomic Instability in Human Pluripotent Stem Cells via NO Synthase-Induced Oxidative Stress. <i>Cells</i> , <b>2019</b> , 8,	7.9	19
24	Stage-specific roles of FGF2 signaling in human neural development. <i>Stem Cell Research</i> , <b>2016</b> , 17, 330-341	3.6	19
23	Decrease in abundance of apurinic/apyrimidinic endonuclease causes failure of base excision repair in culture-adapted human embryonic stem cells. <i>Stem Cells</i> , <b>2013</b> , 31, 693-702	5.8	18
22	The role of p27(Kip1) in maintaining the levels of D-type cyclins in vivo. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2004</b> , 1691, 105-16	4.9	18
21	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> , <b>2014</b> , 23, 2443-54	4.4	16
20	Phenotypic assays for analyses of pluripotent stem cell-derived cardiomyocytes. <i>Journal of Molecular Recognition</i> , <b>2017</b> , 30, e2602	2.6	12

19	Cultivation-dependent plasticity of melanoma phenotype. <i>Tumor Biology</i> , <b>2013</b> , 34, 3345-55	2.9	11
18	DMD Pluripotent Stem Cell Derived Cardiac Cells Recapitulate Human Cardiac Pathophysiology. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 535	5.8	10
17	In vitro differentiation of mouse embryonic stem cells into neurons of the dorsal forebrain. <i>Cellular and Molecular Neurobiology</i> , <b>2011</b> , 31, 715-27	4.6	10
16	Development of humanized culture medium with plant-derived serum replacement for human pluripotent stem cells. <i>Reproductive BioMedicine Online</i> , <b>2010</b> , 21, 676-86	4	9
15	Expression of FGF19 in human embryonic stem cells. <i>Stem Cells</i> , <b>2013</b> , 31, 2582-4	5.8	8
14	Pentapeptide-modified poly(N,N-diethylacrylamide) hydrogel scaffolds for tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2011</b> , 98, 54-67	3.5	7
13	The appearance of truncated cyclin A2 correlates with differentiation of mouse embryonic stem cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2003</b> , 302, 825-30	3.4	7
12	Nonlinear regression models for determination of nicotinamide adenine dinucleotide content in human embryonic stem cells. <i>Stem Cell Reviews and Reports</i> , <b>2013</b> , 9, 786-93	6.4	6
11	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> , <b>2001</b> , 113, 832-5	4.5	6
10	MEK and TGF-beta Inhibition Promotes Reprogramming without the Use of Transcription Factor. <i>PLoS ONE</i> , <b>2015</b> , 10, e0127739	3.7	6
9	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> , <b>2017</b> , 35, 2050-2059	5.8	4
8	Generation of two Duchenne muscular dystrophy patient-specific induced pluripotent stem cell lines DMD02 and DMD03 (MUNli001-A and MUNli003-A). <i>Stem Cell Research</i> , <b>2019</b> , 40, 101562	1.6	4
7	Cardiovascular progenitor cells and tissue plasticity are reduced in a myocardium affected by Becker muscular dystrophy. <i>Orphanet Journal of Rare Diseases</i> , <b>2020</b> , 15, 65	4.2	4
6	Biomechanical Characterization of Human Pluripotent Stem Cell-Derived Cardiomyocytes by Use of Atomic Force Microscopy. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1886, 343-353	1.4	4
5	Freshwater Cyanotoxin Cylindrospermopsin Has Detrimental Stage-specific Effects on Hepatic Differentiation From Human Embryonic Stem Cells. <i>Toxicological Sciences</i> , <b>2019</b> , 168, 241-251	4.4	4
4	Molecular and Functional Characterization of Uniform-Sized Beating Embryoid Bodies and Cardiomyocytes from Human Embryonic and Induced Pluripotent Stem Cells. <i>Biophysical Journal</i> , <b>2014</b> , 106, 565a	2.9	3
3	Ligase 3-mediated end-joining maintains genome stability of human embryonic stem cells. <i>FASEB Journal</i> , <b>2019</b> , 33, 6778-6788	0.9	3
2	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> , <b>2021</b> , 22,	6.3	3

- 1 Percutaneous biopsy of retroperitoneal lesions - 10 year experience of a single centre. *Biomedical Papers of the Medical Faculty of the University Palacky&#x0301;, Olomouc, Czechoslovakia, 2020*, 164, 435-443 1.7 1