

Knut Woltjen

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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.

59 papers	6,054 citations	28 h-index	62 g-index
62 ext. papers	6,986 ext. citations	13.8 avg, IF	5.22 L-index

#	Paper	IF	Citations
59	piggyBac transposition reprograms fibroblasts to induced pluripotent stem cells. <i>Nature</i> , 2009 , 458, 766-704	50.4	1446
58	Virus-free induction of pluripotency and subsequent excision of reprogramming factors. <i>Nature</i> , 2009 , 458, 771-5	50.4	1063
57	Functional genomics reveals a BMP-driven mesenchymal-to-epithelial transition in the initiation of somatic cell reprogramming. <i>Cell Stem Cell</i> , 2010 , 7, 64-77	18	785
56	Premature termination of reprogramming in vivo leads to cancer development through altered epigenetic regulation. <i>Cell</i> , 2014 , 156, 663-77	56.2	286
55	Robust In Vitro Induction of Human Germ Cell Fate from Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2015 , 17, 178-94	18	276
54	An alternative splicing switch regulates embryonic stem cell pluripotency and reprogramming. <i>Cell</i> , 2011 , 147, 132-46	56.2	253
53	Induced pluripotent stem cell lines derived from equine fibroblasts. <i>Stem Cell Reviews and Reports</i> , 2011 , 7, 693-702	6.4	175
52	Efficient TALEN construction and evaluation methods for human cell and animal applications. <i>Genes To Cells</i> , 2013 , 18, 315-26	2.3	171
51	Efficient and reproducible myogenic differentiation from human iPS cells: prospects for modeling Miyoshi Myopathy in vitro. <i>PLoS ONE</i> , 2013 , 8, e61540	3.7	150
50	The Src/c-Abl pathway is a potential therapeutic target in amyotrophic lateral sclerosis. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	134
49	iPSC-Based Compound Screening and In Vitro Trials Identify a Synergistic Anti-amyloid β Combination for Alzheimer's Disease. <i>Cell Reports</i> , 2017 , 21, 2304-2312	10.6	109
48	Engineering the AAVS1 locus for consistent and scalable transgene expression in human iPSCs and their differentiated derivatives. <i>Methods</i> , 2016 , 101, 43-55	4.6	89
47	Evolutionarily Distinctive Transcriptional and Signaling Programs Drive Human Germ Cell Lineage Specification from Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2017 , 21, 517-532.e5	18	88
46	Transient maternal IL-6 mediates long-lasting changes in neural stem cell pools by deregulating an endogenous self-renewal pathway. <i>Cell Stem Cell</i> , 2013 , 13, 564-76	18	64
45	Recapitulating the human segmentation clock with pluripotent stem cells. <i>Nature</i> , 2020 , 580, 124-129	50.4	62
44	Cell-type-specific genome editing with a microRNA-responsive CRISPR-Cas9 switch. <i>Nucleic Acids Research</i> , 2017 , 45, e118	20.1	60
43	Synthetic lateral inhibition governs cell-type bifurcation with robust ratios. <i>Nature Communications</i> , 2015 , 6, 6195	17.4	55

42	Inducible Transgene Expression in Human iPS Cells Using Versatile All-in-One piggyBac Transposons. <i>Methods in Molecular Biology</i> , 2016 , 1357, 111-31	1.4	52
41	Hybrid Cellular Metabolism Coordinated by Zic3 and Esrrb Synergistically Enhances Induction of Naive Pluripotency. <i>Cell Metabolism</i> , 2017 , 25, 1103-1117.e6	24.6	51
40	Nuclease-mediated genome editing: At the front-line of functional genomics technology. <i>Development Growth and Differentiation</i> , 2014 , 56, 2-13	3	48
39	New strategies to generate induced pluripotent stem cells. <i>Current Opinion in Biotechnology</i> , 2009 , 20, 516-21	11.4	48
38	Transgene-free production of pluripotent stem cells using piggyBac transposons. <i>Methods in Molecular Biology</i> , 2011 , 767, 87-103	1.4	46
37	Microhomology-assisted scarless genome editing in human iPSCs. <i>Nature Communications</i> , 2018 , 9, 939	17.4	43
36	Mutant IDH1 Dysregulates the Differentiation of Mesenchymal Stem Cells in Association with Gene-Specific Histone Modifications to Cartilage- and Bone-Related Genes. <i>PLoS ONE</i> , 2015 , 10, e0131998	3.7	43
35	Cartilage tissue engineering identifies abnormal human induced pluripotent stem cells. <i>Scientific Reports</i> , 2013 , 3, 1978	4.9	35
34	In vivo reprogramming drives Kras-induced cancer development. <i>Nature Communications</i> , 2018 , 9, 2081	17.4	31
33	Directed Myogenic Differentiation of Human Induced Pluripotent Stem Cells. <i>Methods in Molecular Biology</i> , 2016 , 1353, 89-99	1.4	30
32	KLF4 N-terminal variance modulates induced reprogramming to pluripotency. <i>Stem Cell Reports</i> , 2015 , 4, 727-43	8	27
31	Beta-cell replacement strategies for diabetes. <i>Journal of Diabetes Investigation</i> , 2017 , 9, 457	3.9	25
30	SS18-SSX, the Oncogenic Fusion Protein in Synovial Sarcoma, Is a Cellular Context-Dependent Epigenetic Modifier. <i>PLoS ONE</i> , 2015 , 10, e0142991	3.7	23
29	Reprogramming Roadblocks Are System Dependent. <i>Stem Cell Reports</i> , 2015 , 5, 350-64	8	23
28	PhiC31 integrase facilitates genetic approaches combining multiple recombinases. <i>Methods</i> , 2011 , 53, 380-5	4.6	22
27	Srf destabilizes cellular identity by suppressing cell-type-specific gene expression programs. <i>Nature Communications</i> , 2018 , 9, 1387	17.4	18
26	Genome-wide microhomologies enable precise template-free editing of biologically relevant deletion mutations. <i>Nature Communications</i> , 2019 , 10, 4856	17.4	15
25	Identification of target genes of synovial sarcoma-associated fusion oncoprotein using human pluripotent stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 432, 713-9	3.4	15

24	Preview. Inhibition of Tgf-beta signaling improves mouse fibroblast reprogramming. <i>Cell Stem Cell</i> , 2009 , 5, 457-8	18	13
23	Cellular context-dependent consequences of Apc mutations on gene regulation and cellular behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 758-763	11.5	12
22	An EWS-FLI1-Induced Osteosarcoma Model Unveiled a Crucial Role of Impaired Osteogenic Differentiation on Osteosarcoma Development. <i>Stem Cell Reports</i> , 2016 , 6, 592-606	8	12
21	The piggyBac Transposon as a Platform Technology for Somatic Cell Reprogramming Studies in Mouse. <i>Methods in Molecular Biology</i> , 2016 , 1357, 1-22	1.4	11
20	Platforms of in vivo genome editing with inducible Cas9 for advanced cancer modeling. <i>Cancer Science</i> , 2019 , 110, 926-938	6.9	9
19	De Novo DNA Methylation at Imprinted Loci during Reprogramming into Naive and Primed Pluripotency. <i>Stem Cell Reports</i> , 2019 , 12, 1113-1128	8	9
18	Cell-type dependent enhancer binding of the EWS/ATF1 fusion gene in clear cell sarcomas. <i>Nature Communications</i> , 2019 , 10, 3999	17.4	8
17	Synergistic gene editing in human iPS cells via cell cycle and DNA repair modulation. <i>Nature Communications</i> , 2020 , 11, 2876	17.4	8
16	OVOL1 Influences the Determination and Expansion of iPSC Reprogramming Intermediates. <i>Stem Cell Reports</i> , 2019 , 12, 319-332	8	7
15	Highly efficient site-specific transgenesis in cancer cell lines. <i>Molecular Cancer</i> , 2012 , 11, 89	42.1	5
14	Retro-recombination screening of a mouse embryonic stem cell genomic library. <i>Nucleic Acids Research</i> , 2000 , 28, E41	20.1	5
13	Metalloprotease-Dependent Attenuation of BMP Signaling Restricts Cardiac Neural Crest Cell Fate. <i>Cell Reports</i> , 2019 , 29, 603-616.e5	10.6	3
12	Deep screening of recombination proficient bacteriophage libraries. <i>BioTechniques</i> , 2003 , 34, 36-8, 40	2.5	3
11	Smrbc1 maintains the cellular identity and the chromatin landscapes of mouse embryonic stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 519, 705-713	3.4	2
10	N-Terminal Amino Acids Determine KLF4 Protein Stability in 2A Peptide-Linked Polycistronic Reprogramming Constructs. <i>Stem Cell Reports</i> , 2020 , 14, 520-527	8	2
9	Modeling the Human Segmentation Clock with Pluripotent Stem Cells		2
8	DMRT1-mediated reprogramming drives development of cancer resembling human germ cell tumors with features of totipotency. <i>Nature Communications</i> , 2021 , 12, 5041	17.4	2
7	At the Conflux of Human Genome Engineering and Induced Pluripotency 2016 , 45-64		1

6	Transplacement mutagenesis. A recombination-based in situ mutagenesis protocol. <i>Methods in Molecular Biology</i> , 2002 , 182, 189-207	1.4	1
5	The oncogene-dependent resistance to reprogramming unveils cancer therapeutic targets.. <i>Cell Reports</i> , 2022 , 39, 110721	10.6	0
4	Precision Genome Editing in Human-Induced Pluripotent Stem Cells. <i>Current Human Cell Research and Applications</i> , 2019 , 113-130	0.1	
3	Transplacement Mutagenesis 2002 , 189-207		
2	A stress-reduced passaging technique improves the viability of human pluripotent cells.. <i>Cell Reports Methods</i> , 2022 , 2, 100155		
1	Orpheus recombination : a comprehensive bacteriophage system for murine targeting vector construction by transplacement. <i>Methods in Molecular Biology</i> , 2008 , 435, 79-94	1.4	