Knut Woltjen

List of Publications by Year in Descending Order

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	A stress-reduced passaging technique improves the viability of human pluripotent cells.. *Cell Reports Methods*, **2022**, 2, 100155		
58	The oncogene-dependent resistance to reprogramming unveils cancer therapeutic targets.. *Cell Reports*, **2022**, 39, 110721	10.6	0
57	DMRT1-mediated reprogramming drives development of cancer resembling human germ cell tumors with features of totipotency. *Nature Communications*, **2021**, 12, 5041	17.4	2
56	Synergistic gene editing in human iPS cells via cell cycle and DNA repair modulation. *Nature Communications*, **2020**, 11, 2876	17.4	8
55	Recapitulating the human segmentation clock with pluripotent stem cells. *Nature*, **2020**, 580, 124-129	50.4	62
54	N-Terminal Amino Acids Determine KLF4 Protein Stability in 2A Peptide-Linked Polycistronic Reprogramming Constructs. *Stem Cell Reports*, **2020**, 14, 520-527	8	2
53	Cell-type dependent enhancer binding of the EWS/ATF1 fusion gene in clear cell sarcomas. *Nature Communications*, **2019**, 10, 3999	17.4	8
52	Smarcb1 maintains the cellular identity and the chromatin landscapes of mouse embryonic stem cells. *Biochemical and Biophysical Research Communications*, **2019**, 519, 705-713	3.4	2
51	Platforms of in vivo genome editing with inducible Cas9 for advanced cancer modeling. *Cancer Science*, **2019**, 110, 926-938	6.9	9
50	De Novo DNA Methylation at Imprinted Loci during Reprogramming into Naive and Primed Pluripotency. *Stem Cell Reports*, **2019**, 12, 1113-1128	8	9
49	Precision Genome Editing in Human-Induced Pluripotent Stem Cells. *Current Human Cell Research and Applications*, **2019**, 113-130	0.1	
48	Metalloprotease-Dependent Attenuation of BMP Signaling Restricts Cardiac Neural Crest Cell Fate. *Cell Reports*, **2019**, 29, 603-616.e5	10.6	3
47	Genome-wide microhomologies enable precise template-free editing of biologically relevant deletion mutations. *Nature Communications*, **2019**, 10, 4856	17.4	15
46	OVOL1 Influences the Determination and Expansion of iPSC Reprogramming Intermediates. *Stem Cell Reports*, **2019**, 12, 319-332	8	7
45	Microhomology-assisted scarless genome editing in human iPSCs. *Nature Communications*, **2018**, 9, 939	17.4	43
44	Srf destabilizes cellular identity by suppressing cell-type-specific gene expression programs. *Nature Communications*, **2018**, 9, 1387	17.4	18
43	In vivo reprogramming drives Kras-induced cancer development. *Nature Communications*, **2018**, 9, 2081	17.4	31

42	Cellular context-dependent consequences of Apc mutations on gene regulation and cellular behavior. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 758-763	11.5	12
41	Hybrid Cellular Metabolism Coordinated by Zic3 and Esrrb Synergistically Enhances Induction of Naive Pluripotency. *Cell Metabolism*, **2017**, 25, 1103-1117.e6	24.6	51
40	Cell-type-specific genome editing with a microRNA-responsive CRISPR-Cas9 switch. *Nucleic Acids Research*, **2017**, 45, e118	20.1	60
39	The Src/c-Abl pathway is a potential therapeutic target in amyotrophic lateral sclerosis. *Science Translational Medicine*, **2017**, 9,	17.5	134
38	Evolutionarily Distinctive Transcriptional and Signaling Programs Drive Human Germ Cell Lineage Specification from Pluripotent Stem Cells. *Cell Stem Cell*, **2017**, 21, 517-532.e5	18	88
37	iPSC-Based Compound Screening and In‐Vitro Trials Identify a Synergistic Anti-amyloid β Combination for Alzheimer's Disease. *Cell Reports*, **2017**, 21, 2304-2312	10.6	109
36	Beta-cell replacement strategies for diabetes. *Journal of Diabetes Investigation*, **2017**, 9, 457	3.9	25
35	Directed Myogenic Differentiation of Human Induced Pluripotent Stem Cells. *Methods in Molecular Biology*, **2016**, 1353, 89-99	1.4	30
34	The piggyBac Transposon as a Platform Technology for Somatic Cell Reprogramming Studies in Mouse. *Methods in Molecular Biology*, **2016**, 1357, 1-22	1.4	11
33	Inducible Transgene Expression in Human iPS Cells Using Versatile All-in-One piggyBac Transposons. *Methods in Molecular Biology*, **2016**, 1357, 111-31	1.4	52
32	At the Conflux of Human Genome Engineering and Induced Pluripotency **2016**, 45-64		1
31	An EWS-FLI1-Induced Osteosarcoma Model Unveiled a Crucial Role of Impaired Osteogenic Differentiation on Osteosarcoma Development. *Stem Cell Reports*, **2016**, 6, 592-606	8	12
30	Engineering the AAVS1 locus for consistent and scalable transgene expression in human iPSCs and their differentiated derivatives. *Methods*, **2016**, 101, 43-55	4.6	89
29	Robust In Vitro Induction of Human Germ Cell Fate from Pluripotent Stem Cells. *Cell Stem Cell*, **2015**, 17, 178-94	18	276
28	KLF4 N-terminal variance modulates induced reprogramming to pluripotency. *Stem Cell Reports*, **2015**, 4, 727-43	8	27
27	Mutant IDH1 Dysregulates the Differentiation of Mesenchymal Stem Cells in Association with Gene-Specific Histone Modifications to Cartilage- and Bone-Related Genes. *PLoS ONE*, **2015**, 10, e0131998	3.7	43
26	SS18-SSX, the Oncogenic Fusion Protein in Synovial Sarcoma, Is a Cellular Context-Dependent Epigenetic Modifier. *PLoS ONE*, **2015**, 10, e0142991	3.7	23
25	Reprogramming Roadblocks Are System Dependent. *Stem Cell Reports*, **2015**, 5, 350-64	8	23

24	Synthetic lateral inhibition governs cell-type bifurcation with robust ratios. *Nature Communications*, **2015**, 6, 6195	17.4	55
23	Premature termination of reprogramming in vivo leads to cancer development through altered epigenetic regulation. *Cell*, **2014**, 156, 663-77	56.2	286
22	Nuclease-mediated genome editing: At the front-line of functional genomics technology. *Development Growth and Differentiation*, **2014**, 56, 2-13	3	48
21	Transient maternal IL-6 mediates long-lasting changes in neural stem cell pools by deregulating an endogenous self-renewal pathway. *Cell Stem Cell*, **2013**, 13, 564-76	18	64
20	Identification of target genes of synovial sarcoma-associated fusion oncoprotein using human pluripotent stem cells. *Biochemical and Biophysical Research Communications*, **2013**, 432, 713-9	3.4	15
19	Efficient TALEN construction and evaluation methods for human cell and animal applications. *Genes To Cells*, **2013**, 18, 315-26	2.3	171
18	Cartilage tissue engineering identifies abnormal human induced pluripotent stem cells. *Scientific Reports*, **2013**, 3, 1978	4.9	35
17	Efficient and reproducible myogenic differentiation from human iPS cells: prospects for modeling Miyoshi Myopathy in vitro. *PLoS ONE*, **2013**, 8, e61540	3.7	150
16	Highly efficient site-specific transgenesis in cancer cell lines. *Molecular Cancer*, **2012**, 11, 89	42.1	5
15	An alternative splicing switch regulates embryonic stem cell pluripotency and reprogramming. *Cell*, **2011**, 147, 132-46	56.2	253
14	PhiC31 integrase facilitates genetic approaches combining multiple recombinases. *Methods*, **2011**, 53, 380-5	4.6	22
13	Induced pluripotent stem cell lines derived from equine fibroblasts. *Stem Cell Reviews and Reports*, **2011**, 7, 693-702	6.4	175
12	Transgene-free production of pluripotent stem cells using piggyBac transposons. *Methods in Molecular Biology*, **2011**, 767, 87-103	1.4	46
11	Functional genomics reveals a BMP-driven mesenchymal-to-epithelial transition in the initiation of somatic cell reprogramming. *Cell Stem Cell*, **2010**, 7, 64-77	18	785
10	New strategies to generate induced pluripotent stem cells. *Current Opinion in Biotechnology*, **2009**, 20, 516-21	11.4	48
9	piggyBac transposition reprograms fibroblasts to induced pluripotent stem cells. *Nature*, **2009**, 458, 766-70	50.4	1446
8	Virus-free induction of pluripotency and subsequent excision of reprogramming factors. *Nature*, **2009**, 458, 771-5	50.4	1063
7	Preview. Inhibition of Tgf-beta signaling improves mouse fibroblast reprogramming. *Cell Stem Cell*, **2009**, 5, 457-8	18	13

List of Publications

6	Orpheus recombination : a comprehensive bacteriophage system for murine targeting vector construction by transplacement. *Methods in Molecular Biology*, **2008**, 435, 79-94	1.4	
5	Deep screening of recombination proficient bacteriophage libraries. *BioTechniques*, **2003**, 34, 36-8, 40	2.5	3
4	Transplacement Mutagenesis **2002**, 189-207		
3	Transplacement mutagenesis. A recombination-based in situ mutagenesis protocol. *Methods in Molecular Biology*, **2002**, 182, 189-207	1.4	1
2	Retro-recombination screening of a mouse embryonic stem cell genomic library. *Nucleic Acids Research*, **2000**, 28, E41	20.1	5
1	Modeling the Human Segmentation Clock with Pluripotent Stem Cells		2