

# Wei Yan

## List of Publications by Citations

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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.

70  
papers

3,544  
citations

35  
h-index

59  
g-index

87  
ext. papers

4,566  
ext. citations

6.8  
avg, IF

5.61  
L-index

#	Paper	IF	Citations
70	Epigenetic inheritance of acquired traits through sperm RNAs and sperm RNA modifications. <i>Nature Reviews Genetics</i> , <b>2016</b> , 17, 733-743	30.1	298
69	ALKBH5-dependent m6A demethylation controls splicing and stability of long 3'UTR mRNAs in male germ cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E325-E333	11.5	226
68	Two miRNA clusters, miR-34b/c and miR-449, are essential for normal brain development, motile ciliogenesis, and spermatogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E2851-7	11.5	185
67	Dnmt2 mediates intergenerational transmission of paternally acquired metabolic disorders through sperm small non-coding RNAs. <i>Nature Cell Biology</i> , <b>2018</b> , 20, 535-540	23.4	183
66	Many X-linked microRNAs escape meiotic sex chromosome inactivation. <i>Nature Genetics</i> , <b>2009</b> , 41, 488-936.3	36.3	163
65	Male infertility caused by spermiogenic defects: lessons from gene knockouts. <i>Molecular and Cellular Endocrinology</i> , <b>2009</b> , 306, 24-32	4.4	143
64	The RNase III enzyme DROSHA is essential for microRNA production and spermatogenesis. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 25173-90	5.4	142
63	Sperm-borne miRNAs and endo-siRNAs are important for fertilization and preimplantation embryonic development. <i>Development (Cambridge)</i> , <b>2016</b> , 143, 635-47	6.6	134
62	The mitochondrial genome encodes abundant small noncoding RNAs. <i>Cell Research</i> , <b>2013</b> , 23, 759-74	24.7	125
61	Catsper3 and Catsper4 are essential for sperm hyperactivated motility and male fertility in the mouse. <i>Biology of Reproduction</i> , <b>2007</b> , 77, 37-44	3.9	124
60	Male germ cells express abundant endogenous siRNAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 13159-64	11.5	117
59	Alterations in sperm DNA methylation, non-coding RNA and histone retention associate with DDT-induced epigenetic transgenerational inheritance of disease. <i>Epigenetics and Chromatin</i> , <b>2018</b> , 11, 8	5.8	106
58	Lack of Spem1 causes aberrant cytoplasm removal, sperm deformation, and male infertility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 6852-7	11.5	105
57	Alterations in sperm DNA methylation, non-coding RNA expression, and histone retention mediate vinclozolin-induced epigenetic transgenerational inheritance of disease. <i>Environmental Epigenetics</i> , <b>2018</b> , 4, dvy010	2.4	100
56	mir-34b/c and mir-449a/b/c are required for spermatogenesis, but not for the first cleavage division in mice. <i>Biology Open</i> , <b>2015</b> , 4, 212-23	2.2	98
55	Spata6 is required for normal assembly of the sperm connecting piece and tight head-tail conjunction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E430-9	11.5	77
54	Potential roles of noncoding RNAs in environmental epigenetic transgenerational inheritance. <i>Molecular and Cellular Endocrinology</i> , <b>2014</b> , 398, 24-30	4.4	66

53	Control of messenger RNA fate by RNA-binding proteins: an emphasis on mammalian spermatogenesis. <i>Journal of Andrology</i> , <b>2012</b> , 33, 309-37		65
52	mA-dependent biogenesis of circular RNAs in male germ cells. <i>Cell Research</i> , <b>2020</b> , 30, 211-228	24.7	63
51	Birth of mice after intracytoplasmic injection of single purified sperm nuclei and detection of messenger RNAs and MicroRNAs in the sperm nuclei. <i>Biology of Reproduction</i> , <b>2008</b> , 78, 896-902	3.9	63
50	Loss of LMOD1 impairs smooth muscle cytocontractility and causes megacystis microcolon intestinal hypoperistalsis syndrome in humans and mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E2739-E2747	11.5	62
49	Ancestral vinclozolin exposure alters the epigenetic transgenerational inheritance of sperm small noncoding RNAs. <i>Environmental Epigenetics</i> , <b>2016</b> , 2,	2.4	62
48	SpermBase: A Database for Sperm-Borne RNA Contents. <i>Biology of Reproduction</i> , <b>2016</b> , 95, 99	3.9	60
47	Sex chromosome inactivation in the male. <i>Epigenetics</i> , <b>2009</b> , 4, 452-6	5.7	50
46	UPF2-Dependent Nonsense-Mediated mRNA Decay Pathway Is Essential for Spermatogenesis by Selectively Eliminating Longer 3'UTR Transcripts. <i>PLoS Genetics</i> , <b>2016</b> , 12, e1005863	6	49
45	Chemical and physical guidance of fish spermatozoa into the egg through the micropyle. <i>Biology of Reproduction</i> , <b>2017</b> , 96, 780-799	3.9	48
44	Proteomic analyses reveal a role of cytoplasmic droplets as an energy source during epididymal sperm maturation. <i>PLoS ONE</i> , <b>2013</b> , 8, e77466	3.7	43
43	MicroRNA-34/449 controls mitotic spindle orientation during mammalian cortex development. <i>EMBO Journal</i> , <b>2016</b> , 35, 2386-2398	13	41
42	Male germline control of transposable elements. <i>Biology of Reproduction</i> , <b>2012</b> , 86, 162, 1-14	3.9	40
41	Incomplete cre-mediated excision leads to phenotypic differences between Stra8-iCre; Mov10l1(lox/lox) and Stra8-iCre; Mov10l1(lox/Δ) mice. <i>Genesis</i> , <b>2013</b> , 51, 481-90	1.9	40
40	Pervasive Genotypic Mosaicism in Founder Mice Derived from Genome Editing through Pronuclear Injection. <i>PLoS ONE</i> , <b>2015</b> , 10, e0129457	3.7	40
39	Breeding scheme and maternal small RNAs affect the efficiency of transgenerational inheritance of a paramutation in mice. <i>Scientific Reports</i> , <b>2015</b> , 5, 9266	4.9	39
38	Zmynd15 encodes a histone deacetylase-dependent transcriptional repressor essential for spermiogenesis and male fertility. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 31418-26	5.4	39
37	Motile cilia of the male reproductive system require miR-34/miR-449 for development and function to generate luminal turbulence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 3584-3593	11.5	37
36	Environmental toxicant induced epigenetic transgenerational inheritance of ovarian pathology and granulosa cell epigenome and transcriptome alterations: ancestral origins of polycystic ovarian syndrome and primary ovarian insufficiency. <i>Epigenetics</i> , <b>2018</b> , 13, 875-895	5.7	36

35	MicroRNAs control mRNA fate by compartmentalization based on 3'UTR length in male germ cells. <i>Genome Biology</i> , <b>2017</b> , 18, 105	18.3	29
34	Murine follicular development requires oocyte DICER, but not DROSHA. <i>Biology of Reproduction</i> , <b>2014</b> , 91, 39	3.9	29
33	Environmental Toxicant Induced Epigenetic Transgenerational Inheritance of Prostate Pathology and Stromal-Epithelial Cell Epigenome and Transcriptome Alterations: Ancestral Origins of Prostate Disease. <i>Scientific Reports</i> , <b>2019</b> , 9, 2209	4.9	24
32	A novel class of somatic small RNAs similar to germ cell pachytene PIWI-interacting small RNAs. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 32824-34	5.4	22
31	UPF2, a nonsense-mediated mRNA decay factor, is required for prepubertal Sertoli cell development and male fertility by ensuring fidelity of the transcriptome. <i>Development (Cambridge)</i> , <b>2015</b> , 142, 352-62	6.6	21
30	Escape of X-linked miRNA genes from meiotic sex chromosome inactivation. <i>Development (Cambridge)</i> , <b>2015</b> , 142, 3791-800	6.6	19
29	A testis-specific gene, Ubqlnl, is dispensable for mouse embryonic development and spermatogenesis. <i>Molecular Reproduction and Development</i> , <b>2015</b> , 82, 408-9	2.6	14
28	Epigenetic transgenerational inheritance of testis pathology and Sertoli cell epimutations: generational origins of male infertility. <i>Environmental Epigenetics</i> , <b>2019</b> , 5, dvz013	2.4	12
27	Next-generation sequencing reveals differentially expressed small noncoding RNAs in uterine leiomyoma. <i>Fertility and Sterility</i> , <b>2018</b> , 109, 919-929	4.8	11
26	Elimination of long 3'UTR mRNA isoform by CRISPR-Cas9 gene editing impairs dorsal root ganglion development and hippocampal neuron activation in mice. <i>Rna</i> , <b>2020</b> , 26, 1414-1430	5.8	10
25	Oviductal motile cilia are essential for oocyte pickup but dispensable for sperm and embryo transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	10
24	MYCT1 represses apoptosis of laryngeal cancerous cells through the MAX/miR-181a/NPM1 pathway. <i>FEBS Journal</i> , <b>2019</b> , 286, 3892-3908	5.7	8
23	Detection and quantitative analysis of small RNAs by PCR. <i>Methods in Molecular Biology</i> , <b>2010</b> , 629, 295-305	3.0	8
22	Both Cauda and Caput Epididymal Sperm Are Capable of Supporting Full-Term Development in FVB and CD-1 Mice. <i>Developmental Cell</i> , <b>2020</b> , 55, 675-676	10.2	7
21	Triptonide is a reversible non-hormonal male contraceptive agent in mice and non-human primates. <i>Nature Communications</i> , <b>2021</b> , 12, 1253	17.4	7
20	shRNA off-target effects in vivo: impaired endogenous siRNA expression and spermatogenic defects. <i>PLoS ONE</i> , <b>2015</b> , 10, e0118549	3.7	6
19	Efficient genome editing by CRISPR-Mb3Cas12a in mice. <i>Journal of Cell Science</i> , <b>2020</b> , 133,	5.3	5
18	AASRA: an anchor alignment-based small RNA annotation pipeline. <i>Biology of Reproduction</i> , <b>2021</b> , 105, 267-277	3.9	5

17	piRNA-independent PIWI function in spermatogenesis and male fertility. <i>Biology of Reproduction</i> , <b>2017</b> , 96, 1121-1123	3.9	4
16	Microfluidics-based digital quantitative PCR for single-cell small RNA quantification. <i>Biology of Reproduction</i> , <b>2017</b> , 97, 490-496	3.9	4
15	Prps111, a testis-specific gene, is dispensable for mouse spermatogenesis. <i>Molecular Reproduction and Development</i> , <b>2018</b> , 85, 802-804	2.6	4
14	Insertion of a chimeric retrotransposon sequence in mouse locus causes metastable kinky tail phenotype. <i>Mobile DNA</i> , <b>2019</b> , 10, 17	4.4	3
13	X-linked miR-506 family miRNAs promote FMRP expression in mouse spermatogonia. <i>EMBO Reports</i> , <b>2020</b> , 21, e49024	6.5	3
12	Paternal pachytene piRNAs are not required for fertilization, embryonic development and sperm-mediated epigenetic inheritance in mice. <i>Environmental Epigenetics</i> , <b>2016</b> , 2,	2.4	2
11	An interview with Magdalena Zernicka-Goetz. <i>Biology of Reproduction</i> , <b>2017</b> , 96, 503-504	3.9	1
10	Assessment of operant learning and memory in mice born through ICSI. <i>Human Reproduction</i> , <b>2020</b> , 35, 2058-2071	5.7	1
9	Beyond Genes: Germline Disruption in the Etiology of Autism Spectrum Disorders. <i>Journal of Autism and Developmental Disorders</i> , <b>2021</b> , 1	4.6	1
8	Inflammation induced by faulty replication during embryonic development causes skewed sex ratio. <i>Biology of Reproduction</i> , <b>2019</b> , 101, 259-261	3.9	0
7	Dnmt2-null sperm block maternal transmission of a paramutant phenotype <i>Biology of Reproduction</i> , <b>2021</b> , 105, 603-612	3.9	0
6	Mark it for destruction: a novel role of mRNA methylation in maternal-to-zygotic transition <i>Biology of Reproduction</i> , <b>2017</b> , 96, 829-830	3.9	
5	Celebrating the Silver Anniversary of the North American Testis Workshop. <i>Andrology</i> , <b>2020</b> , 8, 820-824	4.2	
4	Regulation of Spermatogenesis by Noncoding RNAs <b>2018</b> , 90-92		
3	Transgenic Rescue of Male Infertility Caused by Haploinsufficiency of Klhl10 in Mice.. <i>Biology of Reproduction</i> , <b>2008</b> , 78, 196-196	3.9	
2	Spermiogenic Defects and Male Infertility. Wei Yan, M.D., Ph.D.. <i>Biology of Reproduction</i> , <b>2009</b> , 81, 54-54	3.9	
1	An interview with Dr Michael Griswold. <i>Biology of Reproduction</i> , <b>2020</b> , 103, 681-683	3.9	