

David Zarkower

List of Publications by Year in descending order

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54
papers

6,514
citations

117625
34
h-index

168389
53
g-index

54
all docs

54
docs citations

54
times ranked

4434
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for evolutionary conservation of sex-determining genes. <i>Nature</i> , 1998, 391, 691-695.	27.8	725
2	<i>Dmrt1</i> , a gene related to worm and fly sexual regulators, is required for mammalian testis differentiation. <i>Genes and Development</i> , 2000, 14, 2587-2595.	5.9	617
3	DMRT1 prevents female reprogramming in the postnatal mammalian testis. <i>Nature</i> , 2011, 476, 101-104.	27.8	568
4	Expression of <i>Dmrt1</i> in the Genital Ridge of Mouse and Chicken Embryos Suggests a Role in Vertebrate Sexual Development. <i>Developmental Biology</i> , 1999, 215, 208-220.	2.0	461
5	Sex and the singular DM domain: insights into sexual regulation, evolution and plasticity. <i>Nature Reviews Genetics</i> , 2012, 13, 163-174.	16.3	336
6	The Mammalian Doublesex Homolog DMRT1 Is a Transcriptional Gatekeeper that Controls the Mitosis Versus Meiosis Decision in Male Germ Cells. <i>Developmental Cell</i> , 2010, 19, 612-624.	7.0	311
7	Molecular analysis of the <i>C. elegans</i> sex-determining gene <i>tra-1</i> : A gene encoding two zinc finger proteins. <i>Cell</i> , 1992, 70, 237-249.	28.9	251
8	Restriction Site-Associated DNA Sequencing (RAD-seq) Reveals an Extraordinary Number of Transitions among Gecko Sex-Determining Systems. <i>Molecular Biology and Evolution</i> , 2015, 32, 1296-1309.	8.9	233
9	Establishing sexual dimorphism: conservation amidst diversity?. <i>Nature Reviews Genetics</i> , 2001, 2, 175-185.	16.3	229
10	Etiology of Ovarian Failure in Blepharophimosis Ptosis Epicanthus Inversus Syndrome: FOXL2 Is a Conserved, Early-Acting Gene in Vertebrate Ovarian Development. <i>Endocrinology</i> , 2003, 144, 3237-3243.	2.8	220
11	Temperature-dependent expression of turtle <i>Dmrt1</i> prior to sexual differentiation. <i>Genesis</i> , 2000, 26, 174-178.	1.6	204
12	The DM domain protein DMRT1 is a dose-sensitive regulator of fetal germ cell proliferation and pluripotency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22323-22328.	7.1	167
13	Cell type-autonomous and non-autonomous requirements for <i>Dmrt1</i> in postnatal testis differentiation. <i>Developmental Biology</i> , 2007, 307, 314-327.	2.0	139
14	Sexually dimorphic expression of multiple doublesex-related genes in the embryonic mouse gonad. <i>Gene Expression Patterns</i> , 2003, 3, 77-82.	0.8	130
15	Sexual Cell-Fate Reprogramming in the Ovary by DMRT1. <i>Current Biology</i> , 2015, 25, 764-771.	3.9	130
16	Over-expression of DMRT1 induces the male pathway in embryonic chicken gonads. <i>Developmental Biology</i> , 2014, 389, 160-172.	2.0	114
17	DMRT1 promotes oogenesis by transcriptional activation of <i>Stra8</i> in the mammalian fetal ovary. <i>Developmental Biology</i> , 2011, 356, 63-70.	2.0	108
18	Somatic sex determination. <i>WormBook</i> , 2006, , 1-12.	5.3	99

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19	DMRT1 Is Required for Mouse Spermatogonial Stem Cell Maintenance and Replenishment. PLoS Genetics, 2016, 12, e1006293.	3.5	98
20	DMRT1 Protects Male Gonadal Cells from Retinoid-Dependent Sexual Transdifferentiation. Developmental Cell, 2014, 29, 511-520.	7.0	96
21	An ancient protein-DNA interaction underlying metazoan sex determination. Nature Structural and Molecular Biology, 2015, 22, 442-451.	8.2	93
22	Genome-wide analysis of DNA binding and transcriptional regulation by the mammalian Doublesex homolog DMRT1 in the juvenile testis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13360-13365.	7.1	92
23	In mammalian foetal testes, SOX9 regulates expression of its target genes by binding to genomic regions with conserved signatures. Nucleic Acids Research, 2017, 45, 7191-7211.	14.5	77
24	DMRT Genes in Vertebrate Gametogenesis. Current Topics in Developmental Biology, 2013, 102, 327-356.	2.2	73
25	Vertebrate DM domain proteins bind similar DNA sequences and can heterodimerize on DNA. BMC Molecular Biology, 2007, 8, 58.	3.0	72
26	The mammalian Doublesex homolog DMRT6 coordinates the transition between mitotic and meiotic developmental programs during spermatogenesis. Development (Cambridge), 2014, 141, 3662-3671.	2.5	70
27	Mice Mutant in the DM Domain Gene Dmrt4 Are Viable and Fertile but Have Polyovular Follicles. Molecular and Cellular Biology, 2006, 26, 8984-8991.	2.3	61
28	The Doublesex Homolog Dmrt5 is Required for the Development of the Caudomedial Cerebral Cortex in Mammals. Cerebral Cortex, 2013, 23, 2552-2567.	2.9	58
29	MPK-1 ERK Controls Membrane Organization in C.Âelegans Oogenesis via a Sex-Determination Module. Developmental Cell, 2011, 20, 677-688.	7.0	56
30	A Mammal-Specific Doublesex Homolog Associates with Male Sex Chromatin and Is Required for Male Meiosis. PLoS Genetics, 2007, 3, e62.	3.5	54
31	A sex-specific transcription factor controls male identity in a simultaneous hermaphrodite. Nature Communications, 2013, 4, 1814.	12.8	53
32	DMRT proteins and coordination of mammalian spermatogenesis. Stem Cell Research, 2017, 24, 195-202.	0.7	46
33	TRA-1 ChIP-seq reveals regulators of sexual differentiation and multilevel feedback in nematode sex determination. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16033-16038.	7.1	45
34	Interaction between DMRT1 function and genetic background modulates signaling and pluripotency to control tumor susceptibility in the fetal germ line. Developmental Biology, 2013, 377, 67-78.	2.0	44
35	Genome-wide analysis of sex-enriched gene expression during C. elegans larval development. Developmental Biology, 2005, 284, 500-508.	2.0	38
36	DMRT5, DMRT3, and EMX2 Cooperatively Repress Gsx2 at the Palliumâ€“Subpallium Boundary to Maintain Cortical Identity in Dorsal Telencephalic Progenitors. Journal of Neuroscience, 2018, 38, 9105-9121.	3.6	34

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37	Retinoic acid signaling is dispensable for somatic development and function in the mammalian ovary. <i>Developmental Biology</i> , 2017, 424, 208-220.	2.0	32
38	Sexually Dimorphic unc-6/Netrin Expression Controls Sex-Specific Maintenance of Synaptic Connectivity. <i>Current Biology</i> , 2018, 28, 623-629.e3.	3.9	32
39	A forkhead protein controls sexual identity of the <i>C. elegans</i> male somatic gonad. <i>Development (Cambridge)</i> , 2004, 131, 1425-1436.	2.5	30
40	The conserved sex regulator DMRT1 recruits SOX9 in sexual cell fate reprogramming. <i>Nucleic Acids Research</i> , 2021, 49, 6144-6164.	14.5	29
41	Functional Genomic Identification of Genes Required for Male Gonadal Differentiation in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2010, 185, 523-535.	2.9	27
42	DSH-2 regulates asymmetric cell division in the early <i>C. elegans</i> somatic gonad. <i>Mechanisms of Development</i> , 2005, 122, 781-789.	1.7	25
43	DMRT1: An Ancient Sexual Regulator Required for Human Gonadogenesis. <i>Sexual Development</i> , 2022, 16, 112-125.	2.0	23
44	Invertebrates May Not Be So Different After All. <i>Novartis Foundation Symposium</i> , 2008, , 115-135.	1.1	18
45	Regulation of mitosis-meiosis transition by the ubiquitin ligase $\hat{1}^2$ -TrCP in male germ cells. <i>Development (Cambridge)</i> , 2017, 144, 4137-4147.	2.5	17
46	Cell-Specific mRNA Profiling of the <i>Caenorhabditis elegans</i> Somatic Gonadal Precursor Cells Identifies Suites of Sex-Biased and Gonad-Enriched Transcripts. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 2831-2841.	1.8	16
47	Karyotypes of two species of Malagasy ground gecko (<i>Paroedura</i> : Gekkonidae). <i>African Journal of Herpetology</i> , 2012, 61, 81-90.	0.9	14
48	EGL-5/ABD-B plays an instructive role in male cell fate determination in the <i>C. elegans</i> somatic gonad. <i>Developmental Biology</i> , 2010, 344, 827-835.	2.0	13
49	Invertebrates may not be so different after all. <i>Novartis Foundation Symposium</i> , 2002, 244, 115-26; discussion 126-35, 203-6, 253-7.	1.1	12
50	Temporal changes of Sall4 lineage contribution in developing embryos and the contribution of Sall4-lineages to postnatal germ cells in mice. <i>Scientific Reports</i> , 2018, 8, 16410.	3.3	11
51	Temperature-dependent expression of turtle Dmrt1 prior to sexual differentiation. <i>Genesis</i> , 2000, 26, 174.	1.6	8
52	chinmo Mutant Fly Testis Stem Cells Switching Sex Farewell to Maleness. <i>Developmental Cell</i> , 2014, 31, 385-387.	7.0	2
53	Genetic manipulation of sex ratio in mammals: the Reaper comes for Mickey. <i>EMBO Reports</i> , 2019, 20, e48577.	4.5	2
54	Lrh1 can help reprogram sexual cell fate and is required for Sertoli cell development and spermatogenesis in the mouse testis. <i>PLoS Genetics</i> , 2022, 18, e1010088.	3.5	1