Jurrien Dean

List of Publications by Year
in descending order

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32 papers	3,034 citations	304368 22 h-index	414034 32 g-index
38 all docs	38 docs citations	38 times ranked	2860 citing authors

#	Article	IF	Citations
1	Mater, a maternal effect gene required for early embryonic development in mice. Nature Genetics, 2000, 26, 267-268.	9.4	487
2	Expression of Cre recombinase in mouse oocytes: A means to study maternal effect genes. Genesis, 2000, 26, 110-112.	0.8	329
3	A Subcortical Maternal Complex Essential for Preimplantation Mouse Embryogenesis. Developmental Cell, 2008, 15, 416-425.	3.1	242
4	Ovastacin, a cortical granule protease, cleaves ZP2 in the zona pellucida to prevent polyspermy. Journal of Cell Biology, 2012, 197, 37-44.	2.3	241
5	Gamete Recognition in Mice Depends on the Cleavage Status of an Eggâ€™s Zona Pellucida Protein. Science, 2010, 329, 216-219.	6.0	163
6	Fertility and Taxon-Specific Sperm Binding Persist after Replacement of Mouse Sperm Receptors with Human Homologs. Developmental Cell, 2003, 5, 33-43.	3.1	155
7	A single domain of the ZP2 zona pellucida protein mediates gamete recognition in mice and humans. Journal of Cell Biology, 2014, 205, 801-809.	2.3	146
8	Role of Filia , a maternal effect gene, in maintaining euploidy during cleavage-stage mouse embryogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7473-7478.	3.3	134
9	Oocyte-specific genes regulate follicle formation, fertility and early mouse development. Journal of Reproductive Immunology, 2002, 53, 171-180.	0.8	117
10	Ovarian gene expression in the absence of FIGLA, an oocyte-specific transcription factor. BMC Developmental Biology, 2007, 7, 67.	2.1	102
11	Maternally derived FILIA-MATER complex localizes asymmetrically in cleavage-stage mouse embryos. Development (Cambridge), 2008, 135, 259-269.	1.2	102
12	The subcortical maternal complex controls symmetric division of mouse zygotes by regulating F-actin dynamics. Nature Communications, 2014, 5, 4887.	5.8	102
13	Human sperm bind to the N-terminal domain of ZP2 in humanized zonae pellucidae in transgenic mice. Journal of Cell Biology, 2012, 197, 897-905.	2.3	89
14	Reprogramming the genome to totipotency in mouse embryos. Trends in Cell Biology, 2015, 25, 82-91.	3.6	89
15	Reassessing the molecular biology of sperm-egg recognition with mouse genetics. BioEssays, 2004, 26, 29-38.	1.2	80
16	Mater encodes a maternal protein in mice with a leucine-rich repeat domain homologous to porcine ribonuclease inhibitor. Mammalian Genome, 2000, 11, 281-287.	1.0	65
17	Glycan-Independent Gamete Recognition Triggers Egg Zinc Sparks and ZP2 Cleavage to Prevent Polyspermy. Developmental Cell, 2018, 46, 627-640.e5.	3.1	61
18	A Unique Egg Cortical Granule Localization Motif Is Required for Ovastacin Sequestration to Prevent Premature ZP2 Cleavage and Ensure Female Fertility in Mice. PLoS Genetics, 2017, 13, e1006580.	1.5	40

#	Article	IF	Citations
19	ZP2 peptide beads select human sperm in vitro, decoy mouse sperm in vivo, and provide reversible contraception. Science Translational Medicine, 2016, 8, 336ra60.	5.8	39
20	Sperm acrosome overgrowth and infertility in mice lacking chromosome 18 pachytene piRNA. PLoS Genetics, 2021, 17, e1009485.	1.5	39
21	Sertoli cell-only phenotype and scRNA-seq define PRAMEF12 as a factor essential for spermatogenesis in mice. Nature Communications, 2019, 10, 5196.	5.8	35
22	BTBD18 Regulates a Subset of piRNA-Generating Loci through Transcription Elongation in Mice. Developmental Cell, 2017, 40, 453-466.e5.	3.1	30
23	EXOSC10 sculpts the transcriptome during the growth-to-maturation transition in mouse oocytes. Nucleic Acids Research, 2020, 48, 5349-5365.	6.5	28
24	Maternal factors regulating preimplantation development in mice. Current Topics in Developmental Biology, 2020, 140, 317-340.	1.0	22
25	Anchoring cortical granules in the cortex ensures trafficking to the plasma membrane for post-fertilization exocytosis. Nature Communications, 2019, 10, 2271.	5.8	19
26	Cytoplasmic cleavage of DPPA3 is required for intracellular trafficking and cleavage-stage development in mice. Nature Communications, 2017, 8, 1643.	5.8	16
27	BTG4, a maternal mRNA cleaner. Journal of Molecular Cell Biology, 2016, 8, 369-370.	1.5	15
28	Exacting Requirements for Development of the Egg. New England Journal of Medicine, 2016, 374, 279-280.	13.9	14
29	Figla-Cre Transgenic Mice Expressing Myristoylated EGFP in Germ Cells Provide a Model for Investigating Perinatal Oocyte Dynamics. PLoS ONE, 2014, 9, e84477.	1.1	12
30	Genetic mosaics and time-lapse imaging identify functions of H3.3 residues in mouse oocytes and embryos. Development (Cambridge), 2016, 144, 519-528.	1.2	8
31	The enigma of sperm-egg recognition in mice. Society of Reproduction and Fertility Supplement, 2007, 63, 359-65.	0.2	8
32	The Zona Pellucida Facilitates Fertilization, Blocks Polyspermy and Protects Pre-Implantation Embryos. , 2018, , 294-299.		0