

# Pablo Bermejo-Álvarez

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

2,740  
citations

201385

27  
h-index

205818

48  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2760  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Term Effects of Mouse Intracytoplasmic Sperm Injection with DNA-Fragmented Sperm on Health and Behavior of Adult Offspring1. <i>Biology of Reproduction</i> , 2008, 78, 761-772.	1.2	311
2	Sex determines the expression level of one third of the actively expressed genes in bovine blastocysts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3394-3399.	3.3	269
3	Elevated Non-Esterified Fatty Acid Concentrations during Bovine Oocyte Maturation Compromise Early Embryo Physiology. <i>PLoS ONE</i> , 2011, 6, e23183.	1.1	211
4	Epigenetic differences between male and female bovine blastocysts produced in vitro. <i>Physiological Genomics</i> , 2008, 32, 264-272.	1.0	167
5	Consequences of <i>In Vitro</i> Culture Conditions on Embryo Development and Quality. <i>Reproduction in Domestic Animals</i> , 2008, 43, 44-50.	0.6	152
6	Transcriptional sexual dimorphism during preimplantation embryo development and its consequences for developmental competence and adult health and disease. <i>Reproduction</i> , 2011, 141, 563-570.	1.1	110
7	Effect of bovine oviductal extracellular vesicles on embryo development and quality in vitro. <i>Reproduction</i> , 2017, 153, 461-470.	1.1	110
8	TMEM95 is a sperm membrane protein essential for mammalian fertilization. <i>ELife</i> , 2020, 9, .	2.8	75
9	Developmental kinetics and gene expression in male and female bovine embryos produced in vitro with sex-sorted spermatozoa. <i>Reproduction, Fertility and Development</i> , 2010, 22, 426.	0.1	74
10	Low oxygen tension during IVM improves bovine oocyte competence and enhances anaerobic glycolysis. <i>Reproductive BioMedicine Online</i> , 2010, 20, 341-349.	1.1	70
11	Effect of maternal obesity on estrous cyclicity, embryo development and blastocyst gene expression in a mouse model. <i>Human Reproduction</i> , 2012, 27, 3513-3522.	0.4	67
12	Can Bovine In Vitro-Matured Oocytes Selectively Process X- or Y-Sorted Sperm Differentially?1. <i>Biology of Reproduction</i> , 2008, 79, 594-597.	1.2	66
13	Amino acid metabolism of bovine blastocysts: a biomarker of sex and viability. <i>Molecular Reproduction and Development</i> , 2010, 77, 285-296.	1.0	65
14	Long-term and transgenerational effects of in vitro culture on mouse embryos. <i>Theriogenology</i> , 2012, 77, 785-793.	0.9	59
15	Biological differences between in vitro produced bovine embryos and parthenotes. <i>Reproduction</i> , 2009, 137, 285-295.	1.1	58
16	Transcriptional sexual dimorphism in elongating bovine embryos: implications for XCI and sex determination genes. <i>Reproduction</i> , 2011, 141, 801-808.	1.1	58
17	Effect of bovine oviductal fluid on development and quality of bovine embryos produced in vitro. <i>Reproduction, Fertility and Development</i> , 2017, 29, 621.	0.1	54
18	Effect of glucose concentration during in vitro culture of mouse embryos on development to blastocyst, success of embryo transfer, and litter sex ratio. <i>Molecular Reproduction and Development</i> , 2012, 79, 329-336.	1.0	48

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19	Strategies to reduce genetic mosaicism following CRISPR-mediated genome edition in bovine embryos. <i>Scientific Reports</i> , 2019, 9, 14900.	1.6	48
20	Spermatozoa telomeres determine telomere length in early embryos and offspring. <i>Reproduction</i> , 2016, 151, 1-7.	1.1	46
21	Effect of leptin supplementation during in vitro oocyte maturation and embryo culture on bovine embryo development and gene expression patterns. <i>Theriogenology</i> , 2011, 75, 887-896.	0.9	38
22	CRISPR is knocking on barn door. <i>Reproduction in Domestic Animals</i> , 2017, 52, 39-47.	0.6	37
23	Intergenerational transmission of the positive effects of physical exercise on brain and cognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10103-10112.	3.3	36
24	Single in vitro bovine embryo production: Coculture with autologous cumulus cells, developmental competence, embryo quality and gene expression profiles. <i>Theriogenology</i> , 2011, 76, 1293-1303.	0.9	33
25	Early sex-dependent differences in response to environmental stress. <i>Reproduction</i> , 2018, 155, R39-R51.	1.1	33
26	ZP4 confers structural properties to the zona pellucida essential for embryo development. <i>ELife</i> , 2019, 8, .	2.8	33
27	Sex-specific embryonic origin of postnatal phenotypic variability. <i>Reproduction, Fertility and Development</i> , 2013, 25, 38.	0.1	31
28	Gene Expression in Early Expanded Parthenogenetic and In Vitro Fertilized Bovine Blastocysts. <i>Journal of Reproduction and Development</i> , 2009, 55, 607-614.	0.5	25
29	Effect of duration of oocyte maturation on the kinetics of cleavage, embryo yield and sex ratio in cattle. <i>Reproduction, Fertility and Development</i> , 2008, 20, 734.	0.1	23
30	Mitochondrial and metabolic adjustments during the final phase of follicular development prior to IVM of bovine oocytes. <i>Theriogenology</i> , 2018, 119, 156-162.	0.9	23
31	Solving the "X" in Embryos and Stem Cells. <i>Stem Cells and Development</i> , 2012, 21, 1215-1224.	1.1	22
32	Potential Health Risks Associated to ICSI: Insights from Animal Models and Strategies for a Safe Procedure. <i>Frontiers in Public Health</i> , 2014, 2, 241.	1.3	20
33	Intrafollicular testosterone concentration and sex ratio in individually cultured bovine embryos. <i>Reproduction, Fertility and Development</i> , 2010, 22, 533.	0.1	19
34	RS41 enhances CRISPR-mediated targeted knock-in in bovine embryos. <i>Molecular Reproduction and Development</i> , 2020, 87, 542-549.	1.0	19
35	Tet-mediated imprinting erasure in H19 locus following reprogramming of spermatogonial stem cells to induced pluripotent stem cells. <i>Scientific Reports</i> , 2015, 5, 13691.	1.6	18
36	Embryonic disc formation following post-hatching bovine embryo development in vitro. <i>Reproduction</i> , 2020, 160, 579-589.	1.1	18

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37	Changes in testosterone or temperature during the in vitro oocyte culture do not alter the sex ratio of bovine embryos. <i>Journal of Experimental Zoology</i> , 2009, 311A, 448-452.	1.2	17
38	Acute fasting before conception affects metabolic and endocrine status without impacting follicle and oocyte development and embryo gene expression in the rabbit. <i>Reproduction, Fertility and Development</i> , 2011, 23, 759.	0.1	17
39	Effect of leptin during in vitro maturation of prepubertal calf oocytes: Embryonic development and relative mRNA abundances of genes involved in apoptosis and oocyte competence. <i>Theriogenology</i> , 2011, 76, 1706-1715.	0.9	16
40	Utero-tubal Embryo Transfer and Vasectomy in the Mouse Model. <i>Journal of Visualized Experiments</i> , 2014, , e51214.	0.2	16
41	Lineage Differentiation Markers as a Proxy for Embryo Viability in Farm Ungulates. <i>Frontiers in Veterinary Science</i> , 2021, 8, 680539.	0.9	14
42	Directions and applications of CRISPR technology in livestock research. <i>Animal Reproduction</i> , 2018, 15, 292-300.	0.4	13
43	Generation of Nonmosaic, Two-Pore Channel 2 Biallelic Knockout Pigs in One Generation by CRISPR-Cas9 Microinjection Before Oocyte Insemination. <i>CRISPR Journal</i> , 2021, 4, 132-146.	1.4	12
44	<i>In vitro</i> culture of ovine embryos up to early gastrulating stages. <i>Development (Cambridge)</i> , 2022, 149, .	1.2	11
45	New Challenges in the Analysis of Gene Transcription in Bovine Blastocysts. <i>Reproduction in Domestic Animals</i> , 2011, 46, 2-10.	0.6	8
46	Micro-Array Analysis Reveals That One Third of the Genes Actively Expressed Are Differentially Expressed Between Male and Female Bovine Blastocysts.. <i>Biology of Reproduction</i> , 2009, 81, 40-40.	1.2	8
47	Memories of an X-chromosome. <i>Stem Cell Investigation</i> , 2017, 4, 27-27.	1.3	1
48	Can Bovine In Vitro Matured Oocytes Process Differentially X- or Y-bearing Spermatozoa?. <i>Biology of Reproduction</i> , 2008, 78, 100-100.	1.2	0