

# Sandeep K Rajput

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

644  
citations

623734

14  
h-index

610901

24  
g-index

32  
all docs

32  
docs citations

32  
times ranked

994  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional role of AKT signaling in bovine early embryonic development: potential link to embryotrophic actions of follistatin. <i>Reproductive Biology and Endocrinology</i> , 2018, 16, 1.	3.3	93
2	Embryonic POU5F1 is Required for Expanded Bovine Blastocyst Formation. <i>Scientific Reports</i> , 2018, 8, 7753.	3.3	74
3	Dynamics of trophoblast differentiation in peri-implantation stage human embryos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22635-22644.	7.1	68
4	Genome-wide profiling of sperm DNA methylation in relation to buffalo ( <i>Bubalus bubalis</i> ) bull fertility. <i>Theriogenology</i> , 2014, 82, 750-759.e1.	2.1	49
5	Regulation and Regulatory Role of WNT Signaling in Potentiating FSH Action during Bovine Dominant Follicle Selection. <i>PLoS ONE</i> , 2014, 9, e100201.	2.5	38
6	Evidence Supporting a Role for SMAD2/3 in Bovine Early Embryonic Development: Potential Implications for Embryotropic Actions of Follistatin1. <i>Biology of Reproduction</i> , 2015, 93, 86.	2.7	31
7	Expression of TGF $\beta$ 2 superfamily components and other markers of oocyte quality in oocytes selected by brilliant cresyl blue staining: Relevance to early embryonic development. <i>Molecular Reproduction and Development</i> , 2015, 82, 251-264.	2.0	27
8	mtDNA indicates profound population structure in Indian tiger ( <i>Panthera tigris tigris</i> ). <i>Conservation Genetics</i> , 2009, 10, 909-914.	1.5	25
9	Temporal regulation of mRNAs for select bone morphogenetic proteins (BMP), BMP receptors and their associated SMAD proteins during bovine early embryonic development: effects of exogenous BMP2 on embryo developmental progression. <i>Reproductive Biology and Endocrinology</i> , 2014, 12, 67.	3.3	23
10	Human eggs, zygotes, and embryos express the receptor angiotensin 1-converting enzyme 2 and transmembrane serine protease 2 protein necessary for severe acute respiratory syndrome coronavirus 2 infection. <i>F&amp;S Science</i> , 2021, 2, 33-42.	0.9	21
11	Embryotropic actions of follistatin: paracrine and autocrine mediators of oocyte competence and embryo developmental progression. <i>Reproduction, Fertility and Development</i> , 2014, 26, 37.	0.4	19
12	Differential Histone Modification Status of Spermatozoa in Relation to Fertility of Buffalo Bulls. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 743-753.	2.6	19
13	Differential methylation status of <i>IGF2</i> locus does not affect the fertility of crossbred bulls but some of the CTCF binding sites could be potentially important. <i>Molecular Reproduction and Development</i> , 2014, 81, 350-362.	2.0	18
14	CHD1 Regulates Deposition of Histone Variant H3.3 During Bovine Early Embryonic Development1. <i>Biology of Reproduction</i> , 2016, 94, 140.	2.7	16
15	Requirement of the transcription factor USF1 in bovine oocyte and early embryonic development. <i>Reproduction</i> , 2015, 149, 203-212.	2.6	15
16	A novel culture medium with reduced nutrient concentrations supports the development and viability of mouse embryos. <i>Scientific Reports</i> , 2020, 10, 9263.	3.3	13
17	Transgenerational Effects of Periconception Heavy Metal Administration on Adipose Weight and Glucose Homeostasis in Mice at Maturity. <i>Toxicological Sciences</i> , 2019, 168, 610-619.	3.1	11
18	Expression pattern of glucose metabolism genes in relation to development rate of buffalo ( <i>Bubalus</i> ) Tj ETQq0 0 0 rBT/Overlock 10 Tf		

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19	Pre- and Peri-/Post-Compaction Follistatin Treatment Increases In Vitro Production of Cattle Embryos. PLoS ONE, 2017, 12, e0170808.	2.5	9
20	A column-based rapid method for the simultaneous isolation of DNA, RNA, miRNA and proteins. Cell Biology International, 2012, 36, 779-783.	3.0	8
21	Discovery of a novel oocyte-specific KrÄppel-associated box domain-containing zinc finger protein required for early embryogenesis in cattle. Mechanisms of Development, 2017, 144, 103-112.	1.7	8
22	Characterization of H3.3 and HIRA expression and function in bovine early embryos. Molecular Reproduction and Development, 2018, 85, 106-116.	2.0	8
23	Role of bone morphogenetic protein signaling in bovine early embryonic development and stage specific embryotropic actions of follistatin. Biology of Reproduction, 2020, 102, 795-805.	2.7	8
24	Follistatin supplementation during in vitro embryo culture improves developmental competence of bovine embryos produced using sex-sorted semen. Reproductive Biology, 2018, 18, 267-273.	1.9	7
25	An Improved Method of Bisulfite Treatment and Purification to Study Precise DNA Methylation from as Little as 10Äg DNA. Applied Biochemistry and Biotechnology, 2012, 168, 797-804.	2.9	6
26	Developmental and molecular response of bovine embryos to reduced nutrients in vitro. Reproduction and Fertility, 2020, 1, 51-65.	1.8	5
27	Differential Expression of Newly Identified Long Intergenic Non-coding RNAs in Buffalo Oocytes Indicating Their Possible Role in Maturation and Embryonic Development. Journal of Cellular Biochemistry, 2017, 118, 1712-1721.	2.6	4
28	Follistatin treatment modifies DNA methylation of the CDX2 gene in bovine preimplantation embryos. Molecular Reproduction and Development, 2020, 87, 998-1008.	2.0	4
29	A reporter promoter assay confirmed the role of a distal promoter NOBOX binding element in enhancing expression of GDF9 gene in buffalo oocytes. Animal Reproduction Science, 2012, 135, 18-24.	1.5	3
30	Follistatin supplementation induces changes in CDX2 CpG methylation and improves in vitro development of bovine SCNT preimplantation embryos. Reproductive Biology and Endocrinology, 2021, 19, 141.	3.3	3
31	CRISPR editing validation, immunostaining and DNA sequencing of individual fixed bovine embryos. BioTechniques, 2018, 65, 281-283.	1.8	1
32	Simple workflow for genome and methylation analyses of ejaculated bovine spermatozoa with low sperm input. BioTechniques, 2020, 68, 155-158.	1.8	1