

# Jacob C Thundathil

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1032313/publications.pdf>

Version: 2024-02-01

29  
papers

605  
citations

759055

12  
h-index

610775

24  
g-index

29  
all docs

29  
docs citations

29  
times ranked

605  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced early-life nutrition promotes hormone production and reproductive development in Holstein bulls. <i>Journal of Dairy Science</i> , 2015, 98, 987-998.	1.4	69
2	Na <sup>+</sup> /K <sup>+</sup> ATPase as a Signaling Molecule During Bovine Sperm Capacitation. <i>Biology of Reproduction</i> , 2006, 75, 308-317.	1.2	59
3	Fertility management of bulls to improve beef cattle productivity. <i>Theriogenology</i> , 2016, 86, 397-405.	0.9	52
4	Na <sup>+</sup> /K <sup>+</sup> ATPase regulates sperm capacitation through a mechanism involving kinases and redistribution of its testis-specific isoform. <i>Molecular Reproduction and Development</i> , 2010, 77, 136-148.	1.0	51
5	Enhanced early-life nutrition of Holstein bulls increases sperm production potential without decreasing postpubertal semen quality. <i>Theriogenology</i> , 2016, 86, 687-694.e2.	0.9	49
6	Proteins associated with critical sperm functions and sperm head shape are differentially expressed in morphologically abnormal bovine sperm induced by scrotal insulation. <i>Journal of Proteomics</i> , 2013, 82, 64-80.	1.2	39
7	Testis-specific isoform of angiotensin-converting enzyme (tACE) is involved in the regulation of bovine sperm capacitation. <i>Molecular Reproduction and Development</i> , 2017, 84, 376-388.	1.0	33
8	Moribund sperm in frozen-thawed semen, and sperm motion end points post-thaw and post-swim-up, are related to fertility in Holstein AI bulls. <i>Theriogenology</i> , 2012, 77, 940-951.	0.9	32
9	Characterization and activity of angiotensin-converting enzyme in Holstein semen. <i>Animal Reproduction Science</i> , 2012, 133, 35-42.	0.5	29
10	Content of testis-specific isoform of Na/K-ATPase (ATP1A4) is increased during bovine sperm capacitation through translation in mitochondrial ribosomes. <i>Cell and Tissue Research</i> , 2017, 368, 187-200.	1.5	25
11	Na/K-ATPase regulates bovine sperm capacitation through raft- and non-raft-mediated signaling mechanisms. <i>Molecular Reproduction and Development</i> , 2017, 84, 1168-1182.	1.0	24
12	The ubiquitous isoform of Na/K-ATPase (ATP1A1) regulates junctional proteins, connexin 43 and claudin 11 via Src-EGFR-ERK1/2-CREB pathway in rat Sertoli cells. <i>Biology of Reproduction</i> , 2017, 96, 456-468.	1.2	16
13	Enhanced early-life nutrition upregulates cholesterol biosynthetic gene expression and Sertoli cell maturation in testes of pre-pubertal Holstein bulls. <i>Scientific Reports</i> , 2019, 9, 6448.	1.6	12
14	Na/K-ATPase and Regulation of Sperm Function. <i>Animal Reproduction</i> , 2018, 15, 711-720.	0.4	12
15	Melatonin or L-arginine in semen extender mitigate reductions in quality of frozen-thawed sperm from heat-stressed rams. <i>Animal Reproduction Science</i> , 2022, 238, 106934.	0.5	12
16	Testis-specific isoform of Na/K-ATPase (ATP1A4) regulates sperm function and fertility in dairy bulls through potential mechanisms involving reactive oxygen species, calcium and actin polymerization. <i>Andrology</i> , 2017, 5, 814-823.	1.9	11
17	Calorie Restriction Modulates Reproductive Development and Energy Balance in Pre-Pubertal Male Rats. <i>Nutrients</i> , 2019, 11, 1993.	1.7	11
18	Testis-Specific Isoform of Na/K-ATPase (ATP1A4) Interactome in Raft and Non-Raft Membrane Fractions from Capacitated Bovine Sperm. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3159.	1.8	10

#	ARTICLE	IF	CITATIONS
19	Enhanced pre-pubertal nutrition upregulates mitochondrial function in testes and sperm of post-pubertal Holstein bulls. <i>Scientific Reports</i> , 2020, 10, 2235.	1.6	9
20	Intracytoplasmic Sperm Injection in Cattle. <i>Genes</i> , 2021, 12, 198.	1.0	9
21	Scrotal subcutaneous temperature is increased by scrotal insulation or whole-body heating, but not by scrotal neck insulation; however, all three heat-stress models decrease sperm quality in bulls and rams. <i>Journal of Thermal Biology</i> , 2021, 100, 103064.	1.1	8
22	Ouabain-induced activation of phospholipase C zeta and its contributions to bovine sperm capacitation. <i>Cell and Tissue Research</i> , 2021, 385, 785-801.	1.5	7
23	Sperm characteristics in plains ( <i>Bison bison bison</i> ) versus wood ( <i>Bison bison athabasca</i> ) bison. <i>Theriogenology</i> , 2011, 75, 1360-1370.	0.9	6
24	Testis-specific isoform of angiotensin-converting enzyme (tACE) as a candidate marker for bull fertility. <i>Reproduction, Fertility and Development</i> , 2018, 30, 1584.	0.1	6
25	Prepubertal nutritional modulation in the bull and its impact on sperm DNA methylation. <i>Cell and Tissue Research</i> , 2022, 389, 587-601.	1.5	5
26	Role of Akt and mammalian target of rapamycin signalling in insulin-like growth factor 1-mediated cell proliferation in porcine Sertoli cells. <i>Reproduction, Fertility and Development</i> , 2020, 32, 929.	0.1	4
27	Frozen-Thawed Sperm from Beef Bulls Differ in Their Na/K-ATPase Activity.. <i>Biology of Reproduction</i> , 2011, 85, 535-535.	1.2	2
28	Characterization of the Testis-Specific Angiotensin Converting Enzyme (tACE)-Interactome during Bovine Sperm Capacitation. <i>Current Issues in Molecular Biology</i> , 2022, 44, 449-469.	1.0	2
29	Content and activity of the testis-specific isoform of angiotensin-converting enzyme are reduced in frozen-thawed bull spermatozoa. <i>Reproduction, Fertility and Development</i> , 2018, 30, 1575.	0.1	1