

# Katerina Dvorakova-Hortova

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

1,657  
citations

331538

21  
h-index

302012

39  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2262  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exceptional sperm cooperation in the wood mouse. <i>Nature</i> , 2002, 418, 174-177.	13.7	222
2	Horizontal transfer of whole mitochondria restores tumorigenic potential in mitochondrial DNA-deficient cancer cells. <i>ELife</i> , 2017, 6, .	2.8	205
3	Reactivation of Dihydroorotate Dehydrogenase-Driven Pyrimidine Biosynthesis Restores Tumor Growth of Respiration-Deficient Cancer Cells. <i>Cell Metabolism</i> , 2019, 29, 399-416.e10.	7.2	190
4	Platelets Facilitate the Wound-Healing Capability of Mesenchymal Stem Cells by Mitochondrial Transfer and Metabolic Reprogramming. <i>Cell Metabolism</i> , 2021, 33, 283-299.e9.	7.2	102
5	Mitochondrial Function in Modulating Human Granulosa Cell Steroidogenesis and Female Fertility. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3592.	1.8	73
6	Cytoskeleton localization in the sperm head prior to fertilization. <i>Reproduction</i> , 2005, 130, 61-69.	1.1	71
7	Genome wide identification of promoter binding sites for H4K12ac in human sperm and its relevance for early embryonic development. <i>Epigenetics</i> , 2012, 7, 1057-1070.	1.3	56
8	Sperm-Egg Fusion: A Molecular Enigma of Mammalian Reproduction. <i>International Journal of Molecular Sciences</i> , 2014, 15, 10652-10668.	1.8	53
9	Of Oestrogens and Sperm: A Review of the Roles of Oestrogens and Oestrogen Receptors in Male Reproduction. <i>International Journal of Molecular Sciences</i> , 2017, 18, 904.	1.8	52
10	Mouse <i>in vitro</i> spermatogenesis on alginate-based 3D bioprinted scaffolds. <i>Biofabrication</i> , 2019, 11, 035011.	3.7	48
11	Effect of estrogens on boar sperm capacitation <i>in vitro</i> . <i>Reproductive Biology and Endocrinology</i> , 2010, 8, 87.	1.4	45
12	<i>Toxoplasma gondii</i> Decreases the Reproductive Fitness in Mice. <i>PLoS ONE</i> , 2014, 9, e96770.	1.1	39
13	The influence of fluorides on mouse sperm capacitation. <i>Animal Reproduction Science</i> , 2008, 108, 157-170.	0.5	37
14	Rapid sperm acrosome reaction in the absence of acrosomal CD46 expression in promiscuous field mice ( <i>Apodemus</i> ). <i>Reproduction</i> , 2007, 134, 739-747.	1.1	35
15	Methylation analysis of histone H4K12ac-associated promoters in sperm of healthy donors and subfertile patients. <i>Clinical Epigenetics</i> , 2015, 7, 31.	1.8	34
16	The slower the better: how sperm capacitation and acrosome reaction is modified in the presence of estrogens. <i>Reproduction</i> , 2012, 143, 297-307.	1.1	30
17	Effects of cyanobacterial biomass and purified microcystins on malformations in <i>Xenopus laevis</i> : Teratogenesis assay (FETAX). <i>Environmental Toxicology</i> , 2002, 17, 547-555.	2.1	29
18	Progress of sperm IZUMO1 relocation during spontaneous acrosome reaction. <i>Reproduction</i> , 2014, 147, 231-240.	1.1	27

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19	Characterization of CD46 and $\alpha$ 11 integrin dynamics during sperm acrosome reaction. <i>Scientific Reports</i> , 2016, 6, 33714.	1.6	26
20	CD9 and CD81 Interactions and Their Structural Modelling in Sperm Prior to Fertilization. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1236.	1.8	26
21	In vivo exposure to 17 $\beta$ -estradiol triggers premature sperm capacitation in cauda epididymis. <i>Reproduction</i> , 2013, 145, 255-263.	1.1	22
22	Mouse Lipocalins (MUP, OBP, LCN) Are Co-expressed in Tissues Involved in Chemical Communication. <i>Frontiers in Ecology and Evolution</i> , 2016, 4, .	1.1	22
23	Absence of spermatozoal CD46 protein expression and associated rapid acrosome reaction rate in striped field mice ( <i>Apodemus agrarius</i> ). <i>Reproductive Biology and Endocrinology</i> , 2009, 7, 29.	1.4	21
24	Characterization of tetraspanin protein CD81 in mouse spermatozoa and bovine gametes. <i>Reproduction</i> , 2016, 152, 785-793.	1.1	18
25	The Role of the LINC Complex in Sperm Development and Function. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9058.	1.8	16
26	Gestational and pubertal exposure to low dose of di-(2-ethylhexyl) phthalate impairs sperm quality in adult mice. <i>Reproductive Toxicology</i> , 2020, 96, 175-184.	1.3	16
27	Addressing the Compartmentalization of Specific Integrin Heterodimers in Mouse Sperm. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1004.	1.8	13
28	Role of complement regulatory proteins CD46, CD55 and CD59 in reproduction. <i>Folia Zoologica</i> , 2012, 61, 84-94.	0.9	10
29	New Insight into Sperm Capacitation: A Novel Mechanism of 17 $\beta$ -Estradiol Signalling. <i>International Journal of Molecular Sciences</i> , 2018, 19, 4011.	1.8	10
30	Detection of CD9 and CD81 tetraspanins in bovine and porcine oocytes and embryos. <i>International Journal of Biological Macromolecules</i> , 2019, 123, 931-938.	3.6	10
31	Tetraspanins in mammalian reproduction: spermatozoa, oocytes and embryos. <i>Medical Microbiology and Immunology</i> , 2020, 209, 407-425.	2.6	10
32	Role of Integrins in Sperm Activation and Fertilization. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11809.	1.8	10
33	Fluorescent analysis of boar sperm capacitation process in vitro. <i>Reproductive Biology and Endocrinology</i> , 2019, 17, 109.	1.4	9
34	Expression and distribution of CD151 as a partner of $\alpha$ 6 integrin in male germ cells. <i>Scientific Reports</i> , 2020, 10, 4374.	1.6	9
35	In Silico Identification and Validation of Organic Triazole Based Ligands as Potential Inhibitory Drug Compounds of SARS-CoV-2 Main Protease. <i>Molecules</i> , 2021, 26, 6199.	1.7	9
36	The Role of Taste Receptor mTAS1R3 in Chemical Communication of Gametes. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2651.	1.8	7

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37	Boar Sperm Cryopreservation Improvement Using Semen Extender Modification by Dextran and Pentaisomaltose. <i>Animals</i> , 2022, 12, 868.	1.0	6
38	Specific Inhibition of VanZ-Mediated Resistance to Lipoglycopeptide Antibiotics. <i>International Journal of Molecular Sciences</i> , 2022, 23, 97.	1.8	5
39	CD55 and CD59 protein expression by Apodemus (field mice) sperm in the absence of CD46. <i>Journal of Reproductive Immunology</i> , 2009, 81, 62-73.	0.8	4
40	Kinetic analysis of decreased sperm fertilizing ability by fluorides and fluoroaluminates: a tool for analyzing the effect of environmental substances on biological events. <i>European Biophysics Journal</i> , 2016, 45, 71-79.	1.2	3
41	Kinetic Model of the Action of 17 $\beta$ -Ethinylestradiol on the Capacitation of Mouse Sperm, Monitored by HPLC-MS/MS. <i>Catalysts</i> , 2020, 10, 124.	1.6	3
42	Important parameters affecting quality of vitrified donor oocytes. <i>Cryobiology</i> , 2021, 100, 110-116.	0.3	3
43	The morphology of the squirrel spermatozoon: A highly complex male gamete with a massive acrosome. <i>Journal of Morphology</i> , 2011, 272, 883-889.	0.6	2
44	Kinetic Study of 17 $\beta$ -Estradiol Activity in Comparison with 17 $\beta$ -Estradiol and 17 $\beta$ -Ethinylestradiol. <i>Catalysts</i> , 2021, 11, 634.	1.6	2
45	$\alpha$ V Integrin Expression and Localization in Male Germ Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9525.	1.8	2
46	Genetic Association in the Maintenance of the Mitochondrial Microenvironment and Sperm Capacity. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-12.	1.9	2
47	In Vivo Exposition to 17 $\beta$ -Estradiol Cause Premature Capacitation of Epididymal Mouse Sperm.. <i>Biology of Reproduction</i> , 2012, 87, 433-433.	1.2	1
48	Platelets Promote Pro-Angiogenic Activity of Mesenchymal Stem Cells Via Mitochondrial Transfer and Metabolic Reprogramming. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
49	Kinetic Study of 17 $\beta$ -Estradiol Mechanism during Rat Sperm Capacitation. <i>Molecules</i> , 2022, 27, 4092.	1.7	0