

# Pierre Comizzoli

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102  
papers

1,371  
citations

21  
h-index

32  
g-index

116  
ext. papers

1,723  
ext. citations

3.6  
avg. IF

5.26  
L-index

#	Paper	IF	Citations
102	Applications of emerging technologies to the study and conservation of threatened and endangered species. <i>Reproduction, Fertility and Development</i> , <b>2006</b> , 18, 77-90	1.8	110
101	Lessons from biodiversity--the value of nontraditional species to advance reproductive science, conservation, and human health. <i>Molecular Reproduction and Development</i> , <b>2010</b> , 77, 397-409	2.6	81
100	Reproductive biotechnologies for endangered mammalian species. <i>Reproduction, Nutrition, Development</i> , <b>2000</b> , 40, 493-504		80
99	Biobanking efforts and new advances in male fertility preservation for rare and endangered species. <i>Asian Journal of Andrology</i> , <b>2015</b> , 17, 640-5	2.8	49
98	Poor centrosomal function of cat testicular spermatozoa impairs embryo development in vitro after intracytoplasmic sperm injection. <i>Biology of Reproduction</i> , <b>2006</b> , 75, 252-60	3.9	48
97	Protecting and extending fertility for females of wild and endangered mammals. <i>Cancer Treatment and Research</i> , <b>2010</b> , 156, 87-100	3.5	47
96	Increasing age influences uterine integrity, but not ovarian function or oocyte quality, in the cheetah ( <i>Acinonyx jubatus</i> ). <i>Biology of Reproduction</i> , <b>2011</b> , 85, 243-53	3.9	45
95	Paracrine factors from cumulus-enclosed oocytes ensure the successful maturation and fertilization in vitro of denuded oocytes in the cat model. <i>Fertility and Sterility</i> , <b>2009</b> , 91, 2051-60	4.8	43
94	Epidermal growth factor (EGF) sustains in vitro primordial follicle viability by enhancing stromal cell proliferation via MAPK and PI3K pathways in the prepubertal, but not adult, cat ovary. <i>Biology of Reproduction</i> , <b>2014</b> , 90, 86	3.9	42
93	Effect of 1,2-propanediol versus 1,2-ethanediol on subsequent oocyte maturation, spindle integrity, fertilization, and embryo development in vitro in the domestic cat. <i>Biology of Reproduction</i> , <b>2004</b> , 71, 598-604	3.9	41
92	Breakthroughs and new horizons in reproductive biology of rare and endangered animal species. <i>Biology of Reproduction</i> , <b>2019</b> , 101, 514-525	3.9	39
91	Impact of anisotonic conditions on structural and functional integrity of cumulus-oocyte complexes at the germinal vesicle stage in the domestic cat. <i>Molecular Reproduction and Development</i> , <b>2008</b> , 75, 345-54	2.6	34
90	Positive impact of sucrose supplementation during slow freezing of cat ovarian tissues on cellular viability, follicle morphology, and DNA integrity. <i>Theriogenology</i> , <b>2015</b> , 83, 1553-61	2.8	32
89	Mammalian fertility preservation through cryobiology: value of classical comparative studies and the need for new preservation options. <i>Reproduction, Fertility and Development</i> , <b>2013</b> , 26, 91-8	1.8	29
88	Recent advances and prospects in germplasm preservation of rare and endangered species. <i>Advances in Experimental Medicine and Biology</i> , <b>2014</b> , 753, 331-56	3.6	28
87	In vitro development of domestic cat embryos following intra-cytoplasmic sperm injection with testicular spermatozoa. <i>Theriogenology</i> , <b>2006</b> , 66, 1659-63	2.8	28
86	Resilience of oocyte germinal vesicles to microwave-assisted drying in the domestic cat model. <i>Biopreservation and Biobanking</i> , <b>2015</b> , 13, 164-71	2.1	25

85	Effects of hormonal stimulation on the concentration and quality of excreted spermatozoa in the critically endangered Panamanian golden frog ( <i>Atelopus zeteki</i> ). <i>Theriogenology</i> , <b>2017</b> , 91, 27-35	2.8	24
84	The preservation of vital functions in cat ovarian tissues during vitrification depends more on the temperature of the cryoprotectant exposure than on the sucrose supplementation. <i>Cryobiology</i> , <b>2016</b> , 73, 187-95	2.7	24
83	Retention of structure and function of the cat germinal vesicle after air-drying and storage at suprazero temperature. <i>Biology of Reproduction</i> , <b>2013</b> , 88, 139	3.9	23
82	Influence of Cellular Lipids on Cryopreservation of Mammalian Oocytes and Preimplantation Embryos: A Review. <i>Biopreservation and Biobanking</i> , <b>2019</b> , 17, 76-83	2.1	23
81	Follicle-stimulating hormone receptor (FSHR) alternative skipping of exon 2 or 3 affects ovarian response to FSH. <i>Molecular Human Reproduction</i> , <b>2014</b> , 20, 630-43	4.4	20
80	Structural integrity and developmental potential of spermatozoa following microwave-assisted drying in the domestic cat model. <i>Theriogenology</i> , <b>2017</b> , 103, 36-43	2.8	20
79	Key factors enhancing sperm fertilizing ability are transferred from the epididymis to the spermatozoa via epididymosomes in the domestic cat model. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2018</b> , 35, 221-228	3.4	19
78	Stem cell factor promotes in vitro ovarian follicle development in the domestic cat by upregulating c-kit mRNA expression and stimulating the phosphatidylinositol 3-kinase/AKT pathway. <i>Reproduction, Fertility and Development</i> , <b>2017</b> , 29, 1356-1368	1.8	15
77	Damage to fetal bovine ovarian tissue caused by cryoprotectant exposure and vitrification is mitigated during tissue culture. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2015</b> , 32, 1239-50	3.4	15
76	Absence of seasonal changes in FSHR gene expression in the cat cumulus-oocyte complex in vivo and in vitro. <i>Reproduction</i> , <b>2012</b> , 144, 111-22	3.8	15
75	Whole Genome Sequencing and Re-sequencing of the Sable Antelope ( <i>Capra sibirica</i> ): A Resource for Monitoring Diversity in and Populations. <i>G3: Genes, Genomes, Genetics</i> , <b>2019</b> , 9, 1785-1793	3.2	14
74	Circumventing the natural, frequent oestrogen waves of the female cheetah ( <i>Acinonyx jubatus</i> ) using oral progestin (Altrenogest). <i>Reproduction, Fertility and Development</i> , <b>2017</b> , 29, 1486-1498	1.8	13
73	Biotechnologies for wildlife fertility preservation. <i>Animal Frontiers</i> , <b>2015</b> , 5, 73-78	5.5	13
72	Dry Preservation of Spermatozoa: Considerations for Different Species. <i>Biopreservation and Biobanking</i> , <b>2017</b> , 15, 158-168	2.1	11
71	Effect of extracellular adenosine 5Triphosphate on cryopreserved epididymal cat sperm intracellular ATP concentration, sperm quality, and in vitro fertilizing ability. <i>Theriogenology</i> , <b>2015</b> , 84, 702-9	2.8	11
70	Reproductive science as an essential component of conservation biology. <i>Advances in Experimental Medicine and Biology</i> , <b>2014</b> , 753, 3-14	3.6	11
69	Cryopreservation and Culture of Testicular Tissues: An Essential Tool for Biodiversity Preservation. <i>Biopreservation and Biobanking</i> , <b>2020</b> , 18, 235-243	2.1	11
68	Reproductive biology and biotechnologies in wild felids. <i>Theriogenology</i> , <b>2020</b> , 150, 360-373	2.8	10

67	Influence of warming and reanimation conditions on seminiferous tubule morphology, mitochondrial activity, and cell composition of vitrified testicular tissues in the domestic cat model. <i>PLoS ONE</i> , <b>2018</b> , 13, e0207317	3.7	10
66	Effects of cold storage on plasma membrane, DNA integrity and fertilizing ability of feline testicular spermatozoa. <i>Animal Reproduction Science</i> , <b>2012</b> , 131, 219-27	2.1	9
65	Influence of different extenders on morphological and functional parameters of frozen-thawed spermatozoa of jaguar ( <i>Panthera onca</i> ). <i>Cryobiology</i> , <b>2020</b> , 92, 53-61	2.7	9
64	Semen Cryopreservation and Banking for the Conservation of Neotropical Carnivores. <i>Biopreservation and Biobanking</i> , <b>2019</b> , 17, 183-188	2.1	9
63	Influence of extracellular environment on the motility and structural properties of spermatozoa collected from hormonally stimulated Panamanian Golden Frog ( <i>Atelopus zeteki</i> ). <i>Theriogenology</i> , <b>2018</b> , 108, 153-160	2.8	9
62	Nucleolar Translocation of Histone Deacetylase 2 Is Involved in Regulation of Transcriptional Silencing in the Cat Germinal Vesicle. <i>Biology of Reproduction</i> , <b>2015</b> , 93, 33	3.9	8
61	Saving the saola from extinction. <i>Science</i> , <b>2017</b> , 357, 1248	33.3	8
60	Cryobanking Biomaterials from Wild Animal Species to Conserve Genes and Biodiversity: Relevance to Human Biobanking and Biomedical Research <b>2017</b> , 217-235		8
59	The impact of ovarian stimulation protocol on oocyte quality, subsequent in vitro embryo development, and pregnancy after transfer to recipients in Eld's deer ( <i>Rucervus eldii thamin</i> ). <i>Theriogenology</i> , <b>2017</b> , 91, 134-144	2.8	7
58	First Evaluations and Cryopreservation of Semen Samples from Sunda Clouded Leopards ( <i>Neofelis nebulosa</i> ). <i>Animals</i> , <b>2020</b> , 10,	3.1	7
57	Combination of intracellular cryoprotectants preserves the structure and the cells proliferative capacity potential of adult collared peccary testicular tissue subjected to solid surface vitrification. <i>Cryobiology</i> , <b>2019</b> , 91, 53-60	2.7	7
56	Novel Proteomic Profiling of Epididymal Extracellular Vesicles in the Domestic Cat Reveals Proteins Related to Sequential Sperm Maturation with Differences Observed between Normospermic and Teratospermic Individuals. <i>Molecular and Cellular Proteomics</i> , <b>2020</b> , 19, 2090-2104	7.6	7
55	Influence of microwave-assisted dehydration on morphological integrity and viability of cat ovarian tissues: First steps toward long-term preservation of complex biomaterials at supra-zero temperatures. <i>PLoS ONE</i> , <b>2019</b> , 14, e0225440	3.7	7
54	Supplementation of in vitro culture medium with FSH to grow follicles and mature oocytes can be replaced by extracts of <i>Justicia insularis</i> . <i>PLoS ONE</i> , <b>2018</b> , 13, e0208760	3.7	7
53	Reproductive Microbiomes in Wild Animal Species: A New Dimension in Conservation Biology. <i>Advances in Experimental Medicine and Biology</i> , <b>2019</b> , 1200, 225-240	3.6	6
52	Carbonyl cyanide 4-(trifluoromethoxy)phenylhydrazone (FCCP) pre-exposure ensures follicle integrity during in vitro culture of ovarian tissue but not during cryopreservation in the domestic cat model. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2016</b> , 33, 1621-1631	3.4	6
51	Insulin promotes preantral follicle growth and antrum formation through temporal expression of genes regulating steroidogenesis and water transport in the cat. <i>Reproduction, Fertility and Development</i> , <b>2018</b> , 30, 1369-1379	1.8	6
50	RFRP3 influences basal lamina degradation, cellular death, and progesterone secretion in cultured preantral ovarian follicles from the domestic cat. <i>PeerJ</i> , <b>2019</b> , 7, e7540	3.1	6

49	First Birth of Cheetah Cubs from In Vitro Fertilization and Embryo Transfer. <i>Animals</i> , <b>2020</b> , 10,	3.1	6
48	Age-associated and deslorelin-induced declines in serum anti-Müllerian hormone concentrations in female cheetahs, <i>Acinonyx jubatus</i> . <i>General and Comparative Endocrinology</i> , <b>2017</b> , 250, 54-57	3	5
47	Reproductive Science as an Essential Component of Conservation Biology: New Edition. <i>Advances in Experimental Medicine and Biology</i> , <b>2019</b> , 1200, 1-10	3.6	5
46	Combinations of Growth Factors Regulating LIF/STAT3, WNT, and FGF2 Pathways Sustain Pluripotency-Related Proteins in Cat Embryonic Cells. <i>Stem Cells and Development</i> , <b>2019</b> , 28, 329-340	4.4	5
45	Activation of adenosine monophosphate-activated protein kinase (AMPK) enhances energy metabolism, motility, and fertilizing ability of cryopreserved spermatozoa in domestic cat model. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2019</b> , 36, 1401-1412	3.4	5
44	Advances and Challenges of Using Ovarian Preantral Follicles to Develop Biobanks of Wild Mammals. <i>Biopreservation and Biobanking</i> , <b>2019</b> , 17, 334-341	2.1	5
43	Centrosomal Functions and Dysfunctions in Cat Spermatozoa <b>2012</b> , 49-58		5
42	Sperm Morphology and Male Age in Black-Throated Blue Warblers, an Ecological Model System. <i>Animals</i> , <b>2020</b> , 10,	3.1	5
41	Influence of Microwave-Assisted Drying on Structural Integrity and Viability of Testicular Tissues from Adult and Prepubertal Domestic Cats. <i>Biopreservation and Biobanking</i> , <b>2020</b> , 18, 415-424	2.1	5
40	Understanding Reproductive Aging in Wildlife to Improve Animal Conservation and Human Reproductive Health. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 680471	5.7	5
39	Exposure to epididymal extracellular vesicles enhances immature sperm function and sustains vitality of cryopreserved spermatozoa in the domestic cat model. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2021</b> , 38, 2061-2071	3.4	5
38	Understanding and Assisting Reproduction in Wildlife Species Using Microfluidics. <i>Trends in Biotechnology</i> , <b>2021</b> , 39, 584-597	15.1	5
37	Single injection of eCG/hCG leads to successful estrous synchronization in the collared peccary ( <i>Pecari tajacu</i> Linnaeus, 1758). <i>Animal Reproduction Science</i> , <b>2019</b> , 208, 106112	2.1	4
36	Desiccation and supra-zero temperature storage of cat germinal vesicles lead to less structural damage and similar epigenetic alterations compared to cryopreservation. <i>Molecular Reproduction and Development</i> , <b>2019</b> , 86, 1822-1831	2.6	4
35	Three-dimensional culture of endometrial cells from domestic cats: A new in vitro platform for assessing plastic toxicity. <i>PLoS ONE</i> , <b>2019</b> , 14, e0217365	3.7	4
34	Spermatozoa isolated from cat testes retain their structural integrity as well as a developmental potential after refrigeration for up to 7 days. <i>Zygote</i> , <b>2015</b> , 23, 644-51	1.6	4
33	Desiccated cat spermatozoa retain DNA integrity and developmental potential after prolonged storage and shipping at non-cryogenic temperatures. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2021</b> , 1	3.4	4
32	Incidence of methylated histones H3K4 and H3K79 in cat germinal vesicles is regulated by specific nuclear factors at the acquisition of developmental competence during the folliculogenesis. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2016</b> , 33, 783-94	3.4	3

31	Endogenous pluripotent factor expression after reprogramming cat fetal fibroblasts using inducible transcription factors. <i>Molecular Reproduction and Development</i> , <b>2019</b> , 86, 1671-1681	2.6	3
30	A Historical Overview of Embryo and Oocyte Preservation in the World of Mammalian In Vitro Fertilization and Biotechnology. <i>Reproductive Medicine and Assisted Reproductive Techniques Series</i> , <b>2009</b> , 1-11		3
29	Repeated Evaluations of Testes and Semen Characteristics in Two Binturongs (). <i>Frontiers in Veterinary Science</i> , <b>2021</b> , 8, 658573	3.1	3
28	Preserving the Female Genome in Trehalose Glass at Supra-Zero Temperatures: The Relationship Between Moisture Content and DNA Damage in Feline Germinal Vesicles. <i>Cellular and Molecular Bioengineering</i> , <b>2021</b> , 14, 101-112	3.9	3
27	Protecting and Extending Fertility for Females of Wild and Endangered Mammals <b>2019</b> , 401-412		2
26	Sex steroids influence organizational but not functional decidualization of feline endometrial cells in a 3D culture system. <i>Biology of Reproduction</i> , <b>2019</b> , 101, 906-915	3.9	2
25	Vitrification of Ovarian Cortex from Prepubertal and Adult Cats Induces Less Damage to the Primordial Follicles than Slow Freezing.. <i>Biology of Reproduction</i> , <b>2009</b> , 81, 187-187	3.9	2
24	Initial response of ovarian tissue transcriptome to vitrification or microwave-assisted dehydration in the domestic cat model. <i>BMC Genomics</i> , <b>2020</b> , 21, 828	4.5	2
23	The Interconnected Health Initiative: A Smithsonian Framework to Extend One Health Research and Education. <i>Frontiers in Veterinary Science</i> , <b>2021</b> , 8, 629410	3.1	2
22	Influence of freezing techniques and glycerol-based cryoprotectant combinations on the survival of testicular tissues from adult collared peccaries. <i>Theriogenology</i> , <b>2021</b> , 167, 111-119	2.8	2
21	Retinoic acid promotes in vitro follicle activation in the cat ovary by regulating expression of matrix metalloproteinase 9. <i>PLoS ONE</i> , <b>2018</b> , 13, e0202759	3.7	2
20	Sand-mediated ice seeding enables serum-free low-cryoprotectant cryopreservation of human induced pluripotent stem cells. <i>Bioactive Materials</i> , <b>2021</b> , 6, 4377-4388	16.7	2
19	Endometrial receptivity and embryo implantation in carnivores-commonalities and differences with other mammalian species. <i>Biology of Reproduction</i> , <b>2021</b> , 104, 771-783	3.9	2
18	Interactions between reproductive biology and microbiomes in wild animal species.. <i>Animal Microbiome</i> , <b>2021</b> , 3, 87	4.1	2
17	The Knowns and Unknowns about Epididymal Extracellular Vesicles in Different Animal Species. <i>Advanced Biology</i> , <b>2021</b> , e2101066		1
16	Recent Progress in Spermatology Contributing to the Knowledge and Conservation of Rare and Endangered Species. <i>Annual Review of Animal Biosciences</i> , <b>2021</b> ,	13.7	1
15	Long-term storage of gametes and gonadal tissues at room temperatures: the end of the ice age?. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2022</b> , 39, 321	3.4	1
14	From the Ivory Tower to Reality! Conclusions of the New Edition. <i>Advances in Experimental Medicine and Biology</i> , <b>2019</b> , 1200, 545-550	3.6	1

13	Oocyte Meiotic Competence in the Domestic Cat Model: Novel Roles for Nuclear Proteins BRD2 and NPM1. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 670021	5.7	1
12	Influence of hydrogel encapsulation during cryopreservation of ovarian tissues and impact of post-thawing in vitro culture systems in a research animal model. <i>Clinical and Experimental Reproductive Medicine</i> , <b>2021</b> , 48, 111-123	2.2	1
11	The ART of cryopreservation and its changing landscape.. <i>Fertility and Sterility</i> , <b>2022</b> , 117, 469-476	4.8	1
10	Responsiveness of the cheetah ( <i>Acinonyx jubatus</i> ) ovary to exogenous gonadotropins after preemptive oral progesterin treatment. <i>Theriogenology</i> , <b>2019</b> , 138, 39-46	2.8	0
9	Transcriptome dynamics in developing testes of domestic cats and impact of age on tissue resilience to cryopreservation. <i>BMC Genomics</i> , <b>2021</b> , 22, 847	4.5	0
8	Influence of antibiotics on bacterial load and sperm parameters during short-term preservation of collared peccary semen. <i>Animal Reproduction</i> , <b>2021</b> , 18, e20210021	1.7	0
7	Long-term preservation of germ cells and gonadal tissues at ambient temperatures.. <i>Reproduction and Fertility</i> , <b>2022</b> , 3, R42-R50	1.1	0
6	Early ovine preantral follicles have a potential to grow until antral stage in two-step culture system in the presence of aqueous extract of <i>Justicia insularis</i> . <i>Reproduction in Domestic Animals</i> , <b>2019</b> , 54, 1121-1130	1.6	0
5	Unlocking the mysteries of the cumulus-oocyte complex-a critical cellular partnership for developmental competence. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2019</b> , 36, 411-412	3.4	
4	Neurotensin stimulates the sperm acrosome reaction and reduces percentages of fertilization in vitro.. <i>F&amp;S Science</i> , <b>2020</b> , 1, 27-35	0.4	
3	Diversity of Endangered Species Reproduction as Studied Worldwide.. <i>Biology of Reproduction</i> , <b>2008</b> , 78, 283-283	3.9	
2	David E. Wildt-An Inspiring Leader in the Conservation of Wild Species. <i>Journal of Heredity</i> , <b>2020</b> , 111, 414-416	2.4	
1	Adding new ingredients to the recipe for successful embryo transfers. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2021</b> , 38, 1019-1020	3.4	