

# MarÃ-a Paz HerrÃ;ez

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2407989/publications.pdf>

Version: 2024-02-01

94  
papers

4,551  
citations

81743

39  
h-index

114278

63  
g-index

99  
all docs

99  
docs citations

99  
times ranked

2963  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cryopreservation of fish sperm: applications and perspectives. Journal of Applied Ichthyology, 2010, 26, 623-635.	0.3	266
2	Gamete quality and broodstock management in temperate fish. Reviews in Aquaculture, 2013, 5, S194.	4.6	195
3	Factors enhancing fish sperm quality and emerging tools for sperm analysis. Aquaculture, 2014, 432, 389-401.	1.7	172
4	Cryobanking of aquatic species. Aquaculture, 2017, 472, 156-177.	1.7	170
5	Evaluation of DNA damage in rainbow trout ( <i>Oncorhynchus mykiss</i> ) and gilthead sea bream ( <i>Sparus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlo	0.3	151
6	Structure and function of the melano-macrophage centres of the goldfish <i>Carassius auratus</i> . Veterinary Immunology and Immunopathology, 1986, 12, 117-126.	0.5	124
7	Sperm Subpopulations in Iberian Red Deer Epididymal Sperm and Their Changes Through the Cryopreservation Process I. Biology of Reproduction, 2005, 72, 316-327.	1.2	118
8	Effect of epididymis handling conditions on the quality of ram spermatozoa recovered post-mortem. Theriogenology, 2003, 60, 1249-1259.	0.9	109
9	Transgenerational inheritance of heart disorders caused by paternal bisphenol A exposure. Environmental Pollution, 2015, 206, 667-678.	3.7	108
10	Cryopreservation of rainbow trout sperm in large volume straws: application to large scale fertilization. Aquaculture, 2001, 201, 301-314.	1.7	100
11	Evaluation of gilthead sea bream, <i>Sparus aurata</i> , sperm quality after cryopreservation in 5ml macro tubes. Cryobiology, 2005, 50, 273-284.	0.3	99
12	Effect of external cryoprotectants as membrane stabilizers on cryopreserved rainbow trout sperm. Theriogenology, 2001, 56, 623-635.	0.9	93
13	Evaluation of oxidative DNA damage promoted by storage in sperm from sex-reversed rainbow trout. Theriogenology, 2009, 71, 605-613.	0.9	93
14	Fertilization capacity with rainbow trout DNA-damaged sperm and embryo developmental success. Reproduction, 2010, 139, 989-997.	1.1	92
15	Epigenetics in fish gametes and early embryo. Aquaculture, 2017, 472, 93-106.	1.7	90
16	Incorporation of ascorbic acid and $\alpha$ -tocopherol to the extender media to enhance antioxidant system of cryopreserved sea bass sperm. Theriogenology, 2012, 77, 1129-1136.	0.9	89
17	Comparison of two methods for obtaining spermatozoa from the cauda epididymis of Iberian red deer. Theriogenology, 2006, 65, 471-485.	0.9	81
18	Effect of cryopreservation on human sperm messenger RNAs crucial for fertilization and early embryo development. Cryobiology, 2013, 67, 84-90.	0.3	70

#	ARTICLE	IF	CITATIONS
19	Cryobanking as tool for conservation of biodiversity: Effect of brown trout sperm cryopreservation on the male genetic potential. <i>Theriogenology</i> , 2009, 71, 594-604.	0.9	69
20	Male exposure to bisphenol a impairs spermatogenesis and triggers histone hyperacetylation in zebrafish testes. <i>Environmental Pollution</i> , 2019, 248, 368-379.	3.7	69
21	Effect of cryopreservation on fish sperm subpopulations. <i>Cryobiology</i> , 2011, 62, 22-31.	0.3	68
22	Decay of sperm obtained from epididymes of wild ruminants depending on postmortem time. <i>Theriogenology</i> , 2005, 63, 24-40.	0.9	63
23	Improving Sperm Cryopreservation with Antifreeze Proteins: Effect on Gilthead Seabream ( <i>Sparus Tj</i> ) ETQq1 1 0.784314 rgBT /Overlook	1.2	63
24	Evaluation of DNA damage as a quality marker for rainbow trout sperm cryopreservation and use of LDL as cryoprotectant. <i>Theriogenology</i> , 2010, 74, 282-289.	0.9	62
25	Analysis of DNA damage after human sperm cryopreservation in genes crucial for fertilization and early embryo development. <i>Andrology</i> , 2013, 1, 723-730.	1.9	62
26	Probiotic administration improves sperm quality in asthenozoospermic human donors. <i>Beneficial Microbes</i> , 2017, 8, 193-206.	1.0	58
27	Altered gene transcription and telomere length in trout embryo and larvae obtained with DNA cryodamaged sperm. <i>Theriogenology</i> , 2011, 76, 1234-1245.	0.9	57
28	Genetic and epigenetic alterations induced by bisphenol A exposure during different periods of spermatogenesis: from spermatozoa to the progeny. <i>Scientific Reports</i> , 2019, 9, 18029.	1.6	57
29	Comparative Proteome Analysis of Cryopreserved Flagella and Head Plasma Membrane Proteins from Sea Bream Spermatozoa: Effect of Antifreeze Proteins. <i>PLoS ONE</i> , 2014, 9, e99992.	1.1	54
30	Sublethal Damage during Cryopreservation of Rainbow Trout Sperm. <i>Cryobiology</i> , 1998, 37, 245-253.	0.3	52
31	Sperm cryopreservation of sex-reversed rainbow trout ( <i>Oncorhynchus mykiss</i> ): parameters that affect its ability for freezing. <i>Aquaculture</i> , 2003, 224, 203-212.	1.7	49
32	Sperm quality evaluation in <i>Solea senegalensis</i> during the reproductive season at cellular level. <i>Theriogenology</i> , 2009, 72, 1251-1261.	0.9	46
33	Changes in <i>Solea senegalensis</i> sperm quality throughout the year. <i>Animal Reproduction Science</i> , 2011, 126, 122-129.	0.5	46
34	Paternal contribution to development: Sperm genetic damage and repair in fish. <i>Aquaculture</i> , 2017, 472, 45-59.	1.7	45
35	Vitrification assays with embryos from a cold tolerant sub-arctic fish species. <i>Theriogenology</i> , 2005, 64, 1633-1646.	0.9	44
36	Biology of teleost primordial germ cells (PGCs) and spermatogonia: Biotechnological applications. <i>Aquaculture</i> , 2017, 472, 4-20.	1.7	44

#	ARTICLE	IF	CITATIONS
37	Molecular basis of spermatogenesis and sperm quality. <i>General and Comparative Endocrinology</i> , 2017, 245, 5-9.	0.8	43
38	Effect of different cryoprotectants and vitrificant solutions on the hatching rate of turbot embryos ( <i>Scophthalmus maximus</i> ). <i>Cryobiology</i> , 2003, 47, 204-213.	0.3	41
39	Season effect on genitalia and epididymal sperm from Iberian red deer, roe deer and Cantabrian chamois. <i>Theriogenology</i> , 2005, 63, 1857-1875.	0.9	41
40	Post mortem time and season alter subpopulation characteristics of Iberian red deer epididymal sperm. <i>Theriogenology</i> , 2005, 64, 958-974.	0.9	41
41	Preliminary studies on the cryopreservation of gilthead seabream ( <i>Sparus aurata</i> ) embryos. <i>Aquaculture</i> , 2006, 251, 245-255.	1.7	39
42	The antifreeze protein type I (AFP I) increases seabream ( <i>Sparus aurata</i> ) embryos tolerance to low temperatures. <i>Theriogenology</i> , 2007, 68, 284-289.	0.9	39
43	Impact of sperm DNA damage and oocyte-repairing capacity on trout development. <i>Reproduction</i> , 2016, 152, 57-67.	1.1	38
44	Microinjection of the antifreeze protein type III (AFPIII) in turbot ( <i>Scophthalmus maximus</i> ) embryos: Toxicity and protein distribution. <i>Aquaculture</i> , 2006, 261, 1299-1306.	1.7	37
45	Cardiogenesis impairment promoted by bisphenol A exposure is successfully counteracted by epigallocatechin gallate. <i>Environmental Pollution</i> , 2019, 246, 1008-1019.	3.7	37
46	Vitrification of turbot embryos: preliminary assays. <i>Cryobiology</i> , 2003, 47, 30-39.	0.3	36
47	Cryoprotective effects of antifreeze proteins delivered into zebrafish embryos. <i>Cryobiology</i> , 2009, 58, 128-133.	0.3	36
48	Germplasm Cryobanking in Zebrafish and Other Aquarium Model Species. <i>Zebrafish</i> , 2009, 6, 281-293.	0.5	36
49	The relationship between ram sperm head morphometry and fertility depends on the procedures of acquisition and analysis used. <i>Theriogenology</i> , 2011, 76, 1313-1325.	0.9	36
50	Quantification of lesions in nuclear and mitochondrial genes of <i>Sparus aurata</i> cryopreserved sperm. <i>Aquaculture</i> , 2013, 402-403, 106-112.	1.7	36
51	Skeletal malformations induced by the insecticides ZZ-Aphoxi <sub>1/2</sub> and Folidoli <sub>1/2</sub> during larval development of <i>Rana perezi</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 1995, 28, 349-56.	2.1	35
52	Aquaporin inhibition changes protein phosphorylation pattern following sperm motility activation in fish. <i>Theriogenology</i> , 2011, 76, 737-744.	0.9	32
53	The effect of enriched diets on <i>Solea senegalensis</i> sperm quality. <i>Aquaculture</i> , 2015, 435, 187-194.	1.7	31
54	Sea bass sperm freezability is influenced by motility variables and membrane lipid composition but not by membrane integrity and lipid peroxidation. <i>Animal Reproduction Science</i> , 2012, 131, 211-218.	0.5	30

#	ARTICLE	IF	CITATIONS
55	Subpopulation pattern of eel spermatozoa is affected by post-activation time, hormonal treatment and the thermal regimen. <i>Reproduction, Fertility and Development</i> , 2015, 27, 529.	0.1	30
56	Paternal exposure to environmental 17-alpha-ethinylestradiol concentrations modifies testicular transcription, affecting the sperm transcript content and the offspring performance in zebrafish. <i>Aquatic Toxicology</i> , 2017, 193, 18-29.	1.9	28
57	The hypoosmotic swelling test performed with coulter counter: a method to assay functional integrity of sperm membrane in rainbow trout. <i>Animal Reproduction Science</i> , 1999, 55, 279-287.	0.5	27
58	Growth and metamorphosis of <i>Rana perezi</i> larvae in culture: Effects of larval density. <i>Aquaculture</i> , 1996, 142, 163-170.	1.7	26
59	Dimethyl sulfoxide influx in turbot embryos exposed to a vitrification protocol. <i>Theriogenology</i> , 2003, 60, 463-473.	0.9	26
60	Effect of a vitrification protocol on the lactate dehydrogenase and glucose-6-phosphate dehydrogenase activities and the hatching rates of Zebrafish ( <i>Danio rerio</i> ) and Turbot ( <i>Scophthalmus</i> ) Tj ETQq0 0 0.84314 rgBT /Overlock 10 T	1.1	26
61	Inhibition of zygotic DNA repair: transcriptome analysis of the offspring in trout ( <i>Oncorhynchus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.1	26
62	Embryonic Exposure to Bisphenol A Impairs Primordial Germ Cell Migration without Jeopardizing Male Breeding Capacity. <i>Biomolecules</i> , 2019, 9, 307.	1.8	26
63	Effect of different treatments on the chorion permeability to DMSO of turbot embryos ( <i>Scophthalmus maximus</i> ). <i>Aquaculture</i> , 2003, 221, 593-604.	1.7	23
64	Cryoprotectant microinjection toxicity and chilling sensitivity in gilthead seabream ( <i>Sparus aurata</i> ) embryos. <i>Aquaculture</i> , 2006, 261, 897-903.	1.7	23
65	Differential Gene Susceptibility to Sperm DNA Damage: Analysis of Developmental Key Genes in Trout. <i>PLoS ONE</i> , 2014, 9, e114161.	1.1	22
66	Dendritic immune complex trapping cells in the spleen of the snake, <i>Python reticulatus</i> . <i>Developmental and Comparative Immunology</i> , 1985, 9, 641-652.	1.0	21
67	Perinotochordal connective sheet of gilthead sea bream larvae ( <i>Sparus aurata</i> , L.) affected by axial malformations: An histochemical and immunocytochemical study. <i>The Anatomical Record</i> , 1994, 240, 248-254.	2.3	21
68	Incorporation of antifreeze proteins into zebrafish embryos by a non-invasive method. <i>Cryobiology</i> , 2008, 56, 216-222.	0.3	20
69	Skeletal malformations in hatchery reared <i>Rana perezi</i> tadpoles. <i>The Anatomical Record</i> , 1992, 233, 314-320.	2.3	19
70	The carbamate insecticide ZZ-Aphoxi <sub>2</sub> induced structural changes of gills, liver, gall-bladder, heart, and notochord of <i>Rana perezi</i> tadpoles. <i>Archives of Environmental Contamination and Toxicology</i> , 1993, 25, 184-91.	2.1	19
71	Trapping of intraperitoneal-injected <i>Yersinia ruckeri</i> in the lymphoid organs of <i>Carassius auratus</i> : the role of melano-macrophage centres. <i>Journal of Fish Biology</i> , 1987, 31, 235-237.	0.7	18
72	In Vitro Generation of Zebrafish PGC-Like Cells1. <i>Biology of Reproduction</i> , 2014, 91, 114.	1.2	18

#	ARTICLE	IF	CITATIONS
73	Cellular damage in spermatozoa from wild-captured <i>Solea senegalensis</i> as detected by two different assays: comet analysis and Annexin V-Fluorescein staining. <i>Journal of Applied Ichthyology</i> , 2008, 24, 508-513.	0.3	17
74	Intracellular changes in Ca <sup>2+</sup> , K <sup>+</sup> and pH after sperm motility activation in the European eel ( <i>Anguilla</i> ). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i>	1.7	17
75	Very low sperm-egg ratios result in successful fertilization using cryopreserved sperm in the Adriatic grayling ( <i>Thymallus thymallus</i> ). <i>Aquaculture</i> , 2015, 435, 75-77.	1.7	17
76	Selection of nonapoptotic sperm by magnetic-activated cell sorting in Senegalese sole ( <i>Solea</i> ). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622</i>	0.9	17
77	The effects of endocrine disruptors on the male germline: an intergenerational health risk. <i>Biological Reviews</i> , 2021, 96, 1243-1262.	4.7	17
78	Cryopreservation of gametes for aquaculture and alternative cell sources for genome preservation. , 2013, , 76-116.		16
79	Tolerance to paternal genotoxic damage promotes survival during embryo development in zebrafish ( <i>Danio rerio</i> ). <i>Biology Open</i> , 2018, 7, .	0.6	15
80	Fatty acid composition of the head membrane and flagella affects <i>Sparus aurata</i> sperm quality. <i>Journal of Applied Ichthyology</i> , 2012, 28, 1017-1019.	0.3	14
81	Effects of bisphenol A exposure during cardiac cell differentiation. <i>Environmental Pollution</i> , 2021, 286, 117567.	3.7	14
82	Paternal Inheritance of Bisphenol A Cardiotoxic Effects: The Implications of Sperm Epigenome. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2125.	1.8	12
83	Post-mortem spermatozoa recovery and freezing in a cantabric brown bear ( <i>ursus arctos</i> ): A preliminary report. <i>Theriogenology</i> , 1999, 51, 277.	0.9	10
84	Changes in transcriptomic profile of trout larvae obtained with frozen sperm. <i>Aquaculture</i> , 2018, 492, 306-320.	1.7	10
85	Response of hatchery-reared <i>Rana perezi</i> larvae fed different diets. <i>Aquaculture</i> , 1994, 128, 235-244.	1.7	9
86	Detection of early damage of sperm cell membrane in Gilthead seabream ( <i>Sparus aurata</i> ) with the nuclear stain YO-PRO 1. <i>Journal of Applied Ichthyology</i> , 2010, 26, 794-796.	0.3	9
87	Distribution of DNA damage in the sperm nucleus: A study of zebrafish as a model of histone-packaged chromatin. <i>Theriogenology</i> , 2018, 122, 109-115.	0.9	9
88	Studies on chorion hardening inhibition and dechorionization in turbot embryos. <i>Aquaculture</i> , 2007, 262, 535-540.	1.7	7
89	Distribution of DNA damage in the human sperm nucleus: implications of the architecture of the sperm head. <i>Asian Journal of Andrology</i> , 2020, 22, 401.	0.8	6
90	Optimal level of dietary protein for <i>Rana perezi</i> larvae. <i>Aquaculture Research</i> , 1993, 24, 271-278.	0.9	5

#	ARTICLE	IF	CITATIONS
91	New tools for genome preservation: grafting germinal cells in brown trout ( <i>Salmo trutta</i> ). Journal of Applied Ichthyology, 2012, 28, 916-918.	0.3	3
92	The role of epigenetics in fish biology and reproduction: An insight into the methods applied to aquaculture. , 2022, , 69-104.		2
93	Nutritional use of diets by <i>Rana perezi</i> Seoane larvae. Aquaculture Research, 1993, 24, 507-516.	0.9	1
94	Nuclear distribution of genotoxic damage in rainbow trout ( <i>Oncorhynchus mykiss</i> ) sperm after cryopreservation. Reproduction Abstracts, 0, , .	0.0	0