

Mara Paz Herrez

List of Publications by Year in Descending Order

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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.

94
papers

3,549
citations

35
h-index

56
g-index

99
ext. papers

4,017
ext. citations

3.5
avg, IF

5.22
L-index

#	Paper	IF	Citations
94	The role of epigenetics in fish biology and reproduction: An insight into the methods applied to aquaculture 2022 , 69-104		
93	The effects of endocrine disruptors on the male germline: an intergenerational health risk. <i>Biological Reviews</i> , 2021 , 96, 1243-1262	13.5	1
92	Paternal Inheritance of Bisphenol A Cardiotoxic Effects: The Implications of Sperm Epigenome. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
91	Effects of bisphenol A exposure during cardiac cell differentiation. <i>Environmental Pollution</i> , 2021 , 286, 117567	9.3	1
90	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, 401-408	2.8	3
89	Male exposure to bisphenol a impairs spermatogenesis and triggers histone hyperacetylation in zebrafish testes. <i>Environmental Pollution</i> , 2019 , 248, 368-379	9.3	41
88	Embryonic Exposure to Bisphenol A Impairs Primordial Germ Cell Migration without Jeopardizing Male Breeding Capacity. <i>Biomolecules</i> , 2019 , 9,	5.9	19
87	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	4.9	28
86	Cardiogenesis impairment promoted by bisphenol A exposure is successfully counteracted by epigallocatechin gallate. <i>Environmental Pollution</i> , 2019 , 246, 1008-1019	9.3	20
85	Changes in transcriptomic profile of trout larvae obtained with frozen sperm. <i>Aquaculture</i> , 2018 , 492, 306-320	4.4	6
84	Tolerance to paternal genotoxic damage promotes survival during embryo development in zebrafish (). <i>Biology Open</i> , 2018 , 7,	2.2	11
83	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	2.8	7
82	Biology of teleost primordial germ cells (PGCs) and spermatogonia: Biotechnological applications. <i>Aquaculture</i> , 2017 , 472, 4-20	4.4	26
81	Paternal contribution to development: Sperm genetic damage and repair in fish. <i>Aquaculture</i> , 2017 , 472, 45-59	4.4	31
80	Cryobanking of aquatic species. <i>Aquaculture</i> , 2017 , 472, 156-177	4.4	112
79	Molecular basis of spermatogenesis and sperm quality. <i>General and Comparative Endocrinology</i> , 2017 , 245, 5-9	3	22
78	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	5.1	21

77	Probiotic administration improves sperm quality in asthenozoospermic human donors. <i>Beneficial Microbes</i> , 2017 , 8, 193-206	4.9	28
76	Epigenetics in fish gametes and early embryo. <i>Aquaculture</i> , 2017 , 472, 93-106	4.4	54
75	Selection of nonapoptotic sperm by magnetic-activated cell sorting in Senegalese sole (<i>Solea senegalensis</i>). <i>Theriogenology</i> , 2016 , 86, 1195-202	2.8	13
74	Impact of sperm DNA damage and oocyte-repairing capacity on trout development. <i>Reproduction</i> , 2016 , 152, 57-67	3.8	20
73	Transgenerational inheritance of heart disorders caused by paternal bisphenol A exposure. <i>Environmental Pollution</i> , 2015 , 206, 667-78	9.3	80
72	The effect of enriched diets on <i>Solea senegalensis</i> sperm quality. <i>Aquaculture</i> , 2015 , 435, 187-194	4.4	27
71	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	4.4	16
70	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, 529-43	1.8	23
69	Inhibition of zygotic DNA repair: transcriptome analysis of the offspring in trout (<i>Oncorhynchus mykiss</i>). <i>Reproduction</i> , 2015 , 149, 101-11	3.8	23
68	Factors enhancing fish sperm quality and emerging tools for sperm analysis. <i>Aquaculture</i> , 2014 , 432, 389-401	4.4	122
67	Intracellular changes in Ca ²⁺ , K ⁺ and pH after sperm motility activation in the European eel (<i>Anguilla anguilla</i>): Preliminary results. <i>Aquaculture</i> , 2014 , 418-419, 155-158	4.4	13
66	In vitro generation of zebrafish PGC-like cells. <i>Biology of Reproduction</i> , 2014 , 91, 114	3.9	13
65	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	3.7	44
64	Differential gene susceptibility to sperm DNA damage: analysis of developmental key genes in trout. <i>PLoS ONE</i> , 2014 , 9, e114161	3.7	21
63	Effect of cryopreservation on human sperm messenger RNAs crucial for fertilization and early embryo development. <i>Cryobiology</i> , 2013 , 67, 84-90	2.7	52
62	Gamete quality and broodstock management in temperate fish. <i>Reviews in Aquaculture</i> , 2013 , 5, S194-S223		136
61	Analysis of DNA damage after human sperm cryopreservation in genes crucial for fertilization and early embryo development. <i>Andrology</i> , 2013 , 1, 723-30	4.2	50
60	Quantification of lesions in nuclear and mitochondrial genes of <i>Sparus aurata</i> cryopreserved sperm. <i>Aquaculture</i> , 2013 , 402-403, 106-112	4.4	29

59	Cryopreservation of gametes for aquaculture and alternative cell sources for genome preservation 2013 , 76-116		12
58	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	0.9	11
57	Incorporation of ascorbic acid and α -tocopherol to the extender media to enhance antioxidant system of cryopreserved sea bass sperm. <i>Theriogenology</i> , 2012 , 77, 1129-36	2.8	69
56	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, 211-8	2.1	22
55	New tools for genome preservation: grafting germinal cells in brown trout (<i>Salmo trutta</i>). <i>Journal of Applied Ichthyology</i> , 2012 , 28, 916-918	0.9	2
54	Improving sperm cryopreservation with antifreeze proteins: effect on gilthead seabream (<i>Sparus aurata</i>) plasma membrane lipids. <i>Biology of Reproduction</i> , 2012 , 86, 59	3.9	52
53	Fish Gamete and Embryo Cryopreservation: State of the Art 2011 , 303-317		1
52	Changes in <i>Solea senegalensis</i> sperm quality throughout the year. <i>Animal Reproduction Science</i> , 2011 , 126, 122-9	2.1	37
51	Effect of cryopreservation on fish sperm subpopulations. <i>Cryobiology</i> , 2011 , 62, 22-31	2.7	58
50	Aquaporin inhibition changes protein phosphorylation pattern following sperm motility activation in fish. <i>Theriogenology</i> , 2011 , 76, 737-44	2.8	26
49	Altered gene transcription and telomere length in trout embryo and larvae obtained with DNA cryodamaged sperm. <i>Theriogenology</i> , 2011 , 76, 1234-45	2.8	43
48	The relationship between ram sperm head morphometry and fertility depends on the procedures of acquisition and analysis used. <i>Theriogenology</i> , 2011 , 76, 1313-25	2.8	31
47	Cryopreservation of fish sperm: applications and perspectives. <i>Journal of Applied Ichthyology</i> , 2010 , 26, 623-635	0.9	205
46	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	0.9	9
45	Evaluation of DNA damage as a quality marker for rainbow trout sperm cryopreservation and use of LDL as cryoprotectant. <i>Theriogenology</i> , 2010 , 74, 282-9	2.8	52
44	Fertilization capacity with rainbow trout DNA-damaged sperm and embryo developmental success. <i>Reproduction</i> , 2010 , 139, 989-97	3.8	81
43	Cryoprotective effects of antifreeze proteins delivered into zebrafish embryos. <i>Cryobiology</i> , 2009 , 58, 128-33	2.7	31
42	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	2.8	57

41	Evaluation of oxidative DNA damage promoted by storage in sperm from sex-reversed rainbow trout. <i>Theriogenology</i> , 2009 , 71, 605-13	2.8	77
40	Sperm quality evaluation in <i>Solea senegalensis</i> during the reproductive season at cellular level. <i>Theriogenology</i> , 2009 , 72, 1251-61	2.8	33
39	Germplasm cryobanking in zebrafish and other aquarium model species. <i>Zebrafish</i> , 2009 , 6, 281-93	2	35
38	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	0.9	16
37	Incorporation of antifreeze proteins into zebrafish embryos by a non-invasive method. <i>Cryobiology</i> , 2008 , 56, 216-22	2.7	17
36	The antifreeze protein type I (AFP I) increases seabream (<i>Sparus aurata</i>) embryos tolerance to low temperatures. <i>Theriogenology</i> , 2007 , 68, 284-9	2.8	34
35	Studies on chorion hardening inhibition and dechorionization in turbot embryos. <i>Aquaculture</i> , 2007 , 262, 535-540	4.4	7
34	Preliminary studies on the cryopreservation of gilthead seabream (<i>Sparus aurata</i>) embryos. <i>Aquaculture</i> , 2006 , 251, 245-255	4.4	35
33	Cryoprotectant microinjection toxicity and chilling sensitivity in gilthead seabream (<i>Sparus aurata</i>) embryos. <i>Aquaculture</i> , 2006 , 261, 897-903	4.4	20
32	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	4.4	33
31	Comparison of two methods for obtaining spermatozoa from the cauda epididymis of Iberian red deer. <i>Theriogenology</i> , 2006 , 65, 471-85	2.8	71
30	Evaluation of DNA damage in rainbow trout (<i>Oncorhynchus mykiss</i>) and gilthead sea bream (<i>Sparus aurata</i>) cryopreserved sperm. <i>Cryobiology</i> , 2005 , 50, 144-53	2.7	128
29	Evaluation of gilthead sea bream, <i>Sparus aurata</i> , sperm quality after cryopreservation in 5 ml macrotubes. <i>Cryobiology</i> , 2005 , 50, 273-84	2.7	88
28	Decay of sperm obtained from epididymes of wild ruminants depending on postmortem time. <i>Theriogenology</i> , 2005 , 63, 24-40	2.8	54
27	Season effect on genitalia and epididymal sperm from Iberian red deer, roe deer and Cantabrian chamois. <i>Theriogenology</i> , 2005 , 63, 1857-75	2.8	35
26	Post mortem time and season alter subpopulation characteristics of Iberian red deer epididymal sperm. <i>Theriogenology</i> , 2005 , 64, 958-74	2.8	37
25	Vitrification assays with embryos from a cold tolerant sub-arctic fish species. <i>Theriogenology</i> , 2005 , 64, 1633-46	2.8	39
24	Sperm subpopulations in Iberian red deer epididymal sperm and their changes through the cryopreservation process. <i>Biology of Reproduction</i> , 2005 , 72, 316-27	3.9	108

23	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 maximus</i>) embryos. <i>Theriogenology</i> , 2004 , 61, 1367-79	2.8	21
22	Effect of different cryoprotectants and vitrificant solutions on the hatching rate of turbot embryos (<i>Scophthalmus maximus</i>). <i>Cryobiology</i> , 2003 , 47, 204-13	2.7	37
21	Dimethyl sulfoxide influx in turbot embryos exposed to a vitrification protocol. <i>Theriogenology</i> , 2003 , 60, 463-73	2.8	24
20	Effect of epididymis handling conditions on the quality of ram spermatozoa recovered post-mortem. <i>Theriogenology</i> , 2003 , 60, 1249-59	2.8	98
19	Vitrification of turbot embryos: preliminary assays. <i>Cryobiology</i> , 2003 , 47, 30-9	2.7	30
18	Effect of different treatments on the chorion permeability to DMSO of turbot embryos (<i>Scophthalmus maximus</i>). <i>Aquaculture</i> , 2003 , 221, 593-604	4.4	20
17	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	4.4	44
16	Cryopreservation of rainbow trout sperm in large volume straws: application to large scale fertilization. <i>Aquaculture</i> , 2001 , 201, 301-314	4.4	83
15	Effect of external cryoprotectants as membrane stabilizers on cryopreserved rainbow trout sperm. <i>Theriogenology</i> , 2001 , 56, 623-35	2.8	78
14	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, 279-87	2.1	20
13	Post-mortem spermatozoa recovery and freezing in a cantabric brown bear (<i>ursus arctos</i>): A preliminary report. <i>Theriogenology</i> , 1999 , 51, 277	2.8	8
12	Sublethal damage during cryopreservation of rainbow trout sperm. <i>Cryobiology</i> , 1998 , 37, 245-53	2.7	49
11	Growth and metamorphosis of <i>Rana perezi</i> larvae in culture: Effects of larval density. <i>Aquaculture</i> , 1996 , 142, 163-170	4.4	21
10	Skeletal malformations induced by the insecticides ZZ-Aphox and Folidol during larval development of <i>Rana perezi</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 1995 , 28, 349-56	3.2	24
9	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, 248-54		19
8	Response of hatchery-reared <i>Rana perezi</i> larvae fed different diets. <i>Aquaculture</i> , 1994 , 128, 235-244	4.4	8
7	The carbamate insecticide ZZ-Aphox 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	3.2	15
6	Optimal level of dietary protein for <i>Rana perezi</i> larvae. <i>Aquaculture Research</i> , 1993 , 24, 271-278	1.9	2

5	Nutritional use of diets by <i>Rana perezi</i> Seoane larvae. <i>Aquaculture Research</i> , 1993 , 24, 507-516	1.9	
4	Skeletal malformations in hatchery reared <i>Rana perezi</i> tadpoles. <i>The Anatomical Record</i> , 1992 , 233, 314-20		14
3	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	1.9	17
2	Structure and function of the melano-macrophage centres of the goldfish <i>Carassius auratus</i> . <i>Veterinary Immunology and Immunopathology</i> , 1986 , 12, 117-26	2	108
1	Dendritic immune complex trapping cells in the spleen of the snake, <i>Python reticulatus</i> . <i>Developmental and Comparative Immunology</i> , 1985 , 9, 641-52	3.2	18