Julien Bobe

List of Publications by Year
in descending order

100 papers	6,559 citations	117453 34 h-index	71532 76 g-index
122 all docs	122 docs citations	122 times ranked	6572 citing authors

#	Article	IF	Citations
1	Effect of a low water concentration in chloride, sodium and potassium on oocyte maturation, oocyte hydration, ovulation and egg quality in rainbow trout. Aquaculture, 2022, 546, 737374.	1.7	3
2	FishmiRNA: An Evolutionarily Supported MicroRNA Annotation and Expression Database for Ray-Finned Fishes. Molecular Biology and Evolution, 2022, 39, .	3.5	16
3	A nonfunctional copy of the salmonid sex-determining gene (<i>sdY</i>) is responsible for the â€œapparentâ€•XY females in Chinook salmon, <i>Oncorhynchus tshawytscha</i>. G3: Genes, Genomes, Genetics, 2022, 12, .	0.8	3
4	Effect of micro-algae Schizochytrium sp. supplementation in plant diet on reproduction of female rainbow trout (Oncorhynchus mykiss): maternal programming impact of progeny. Journal of Animal Science and Biotechnology, 2022, 13, 33.	2.1	8
5	An ancient truncated duplication of the antiâ€MÃ¼llerian hormone receptor type 2 gene is a potential conserved master sex determinant in the Pangasiidae catfish family. Molecular Ecology Resources, 2022, 22, 2411-2428.	2.2	13
6	VisEgg: a robust phenotyping tool to assess rainbow trout egg features and viability. Fish Physiology and Biochemistry, 2021, 47, 671-679.	0.9	4
7	Evolution of sex hormone binding globulins reveals early gene duplication at the root of vertebrates. General and Comparative Endocrinology, 2021, 300, 113646.	0.8	3
8	Knock out of specific maternal vitellogenins in zebrafish (Danio rerio) evokes vital changes in egg proteomic profiles that resemble the phenotype of poor quality eggs. BMC Genomics, 2021, 22, 308.	1.2	14
9	Evolution after Whole-Genome Duplication: Teleost MicroRNAs. Molecular Biology and Evolution, 2021, 38, 3308-3331.	3.5	31
10	Allelic diversification after transposable element exaptation promoted<i>gsdf</i>as the master sex determining gene of sablefish. Genome Research, 2021, 31, 1366-1380.	2.4	23
11	Neurodevelopment vs. the immune system: Complementary contributions of maternally-inherited gene transcripts and proteins to successful embryonic development in fish. Genomics, 2021, 113, 3811-3826.	1.3	4
12	Liquid Chromatography and Tandem Mass Spectrometry in Label-Free of Zebrafish (Danio rerio) Eggs. Methods in Molecular Biology, 2021, 2218, 277-290.	0.4	1
13	A Comparison of Reproductive Performances in Young and Old Females: A Case Study on the Atlantic Bluefin Tuna in the Mediterranean Sea. Animals, 2021, 11, 3340.	1.0	1
14	Circulating miRNA repertoire as a biomarker of metabolic and reproductive states in rainbow trout. BMC Biology, 2021, 19, 235.	1.7	18
15	Lighting chaperone-mediated autophagy (CMA) evolution with an ancient LAMP: the existence of a functional CMA activity in fish. Autophagy, 2020, 16, 1918-1920.	4.3	5
16	Domestication modulates the expression of genes involved in neurogenesis in highâ€quality eggs of Sander lucioperca. Molecular Reproduction and Development, 2020, 87, 934-951.	1.0	10
17	C-ECi: a CUBIC-ECi combined clearing method for three-dimensional follicular content analysis in the fish ovaryâ€. Biology of Reproduction, 2020, 103, 1099-1109.	1.2	4
18	Exploring the Impact of a Low-Protein High-Carbohydrate Diet in Mature Broodstock of a Glucose-Intolerant Teleost, the Rainbow Trout. Frontiers in Physiology, 2020, 11, 303.	1.3	18

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19	Chaperone-Mediated Autophagy in the Light of Evolution: Insight from Fish. Molecular Biology and Evolution, 2020, 37, 2887-2899.	3.5	29
20	Identification of the master sex determining gene in Northern pike (Esox lucius) reveals restricted sex chromosome differentiation. PLoS Genetics, 2019, 15, e1008013.	1.5	107
21	Genome editing reveals reproductive and developmental dependencies on specific types of vitellogenin in zebrafish (<i>Danio rerio</i>). Molecular Reproduction and Development, 2019, 86, 1168-1188.	1.0	27
22	What makes a bad egg? Egg transcriptome reveals dysregulation of translational machinery and novel fertility genes important for fertilization. BMC Genomics, 2019, 20, 584.	1.2	9
23	Domestication may affect the maternal mRNA profile in unfertilized eggs, potentially impacting the embryonic development of Eurasian perch (Perca fluviatilis). PLoS ONE, 2019, 14, e0226878.	1.1	14
24	Positive impact of moderate food restriction on reproductive success of the rainbow trout Oncorhynchus mykiss. Aquaculture, 2019, 502, 280-288.	1.7	13
25	Maternal temperature exposure impairs emotional and cognitive responses and triggers dysregulation of neurodevelopment genes in fish. PeerJ, 2019, 7, e6338.	0.9	30
26	Double maternal-effect: duplicated nucleoplasmin 2 genes, npm2a and npm2b, with essential but distinct functions are shared by fish and tetrapods. BMC Evolutionary Biology, 2018, 18, 167.	3.2	8
27	Maternal RNAs, Fish & Amphibians. , 2018, , 251-256.		1
28	MiR-202 controls female fecundity by regulating medaka oogenesis. PLoS Genetics, 2018, 14, e1007593.	1.5	75
29	CMA restricted to mammals and birds: myth or reality?. Autophagy, 2018, 14, 1267-1270.	4.3	18
30	Reply to: â€˜Subfunctionalization versus neofunctionalization after whole-genome duplicationâ€™. Nature Genetics, 2018, 50, 910-911.	9.4	17
31	Genes Involved in Drosophila melanogaster Ovarian Function Are Highly Conserved Throughout Evolution. Genome Biology and Evolution, 2018, 10, 2629-2642.	1.1	7
32	Multiple vitellogenins in zebrafish (Danio rerio): quantitative inventory of genes, transcripts and proteins, and relation to egg quality. Fish Physiology and Biochemistry, 2018, 44, 1509-1525.	0.9	38
33	<i>foxr1</i>is a novel maternal-effect gene in fish that is required for early embryonic success. PeerJ, 2018, 6, e5534.	0.9	13
34	Genome-wide identification of novel ovarian-predominant miRNAs: new insights from the medaka (Oryzias latipes). Scientific Reports, 2017, 7, 40241.	1.6	18
35	Transcriptomic Profiling of Egg Quality in Sea Bass (Dicentrarchus labrax) Sheds Light on Genes Involved in Ubiquitination and Translation. Marine Biotechnology, 2017, 19, 102-115.	1.1	36
36	Evolution of gene expression after wholeâ€genome duplication: New insights from the spotted gar genome. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2017, 328, 709-721.	0.6	52

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37	Evolutionary history of glucose-6-phosphatase encoding genes in vertebrate lineages: towards a better understanding of the functions of multiple duplicates. BMC Genomics, 2017, 18, 342.	1.2	29
38	Maternal investment in fish oocytes and eggs: The molecular cargo and its contributions to fertility and early development. Aquaculture, 2017, 472, 107-143.	1.7	134
39	Scrambled eggs: Proteomic portraits and novel biomarkers of egg quality in zebrafish (Danio rerio). PLoS ONE, 2017, 12, e0188084.	1.1	34
40	The advantage of channeling nucleotides for very processive functions. F1000Research, 2017, 6, 724.	0.8	27
41	The advantage of channeling nucleotides for very processive functions. F1000Research, 2017, 6, 724.	0.8	36
42	Compacting and correcting Trinity and Oases RNA-Seq <i>de novo</i> assemblies. PeerJ, 2017, 5, e2988.	0.9	105
43	The rainbow trout genome, an important landmark forÂaquaculture and genomeÂevolution. , 2016, , 21-43.		3
44	Gene evolution and gene expression after whole genome duplication in fish: the PhyloFish database. BMC Genomics, 2016, 17, 368.	1.2	288
45	Foxl2 and Its Relatives Are Evolutionary Conserved Players in Gonadal Sex Differentiation. Sexual Development, 2016, 10, 111-129.	1.1	87
46	Sexually dimorphic gene expressions in eels: useful markers for early sex assessment in a conservation context. Scientific Reports, 2016, 6, 34041.	1.6	28
47	Characterization of an extensive rainbow trout miRNA transcriptome by next generation sequencing. BMC Genomics, 2016, 17, 164.	1.2	69
48	The spotted gar genome illuminates vertebrate evolution and facilitates human-teleost comparisons. Nature Genetics, 2016, 48, 427-437.	9.4	545
49	Egg quality in fish: Present and future challenges. Animal Frontiers, 2015, 5, 66-72.	0.8	62
50	Effects of the anti-androgen cyproterone acetate (CPA) on oocyte meiotic maturation in rainbow trout (Oncorhynchus mykiss). Aquatic Toxicology, 2015, 164, 34-42.	1.9	6
51	A comparison between egg trancriptomes of cod and salmon reveals species-specific traits in eggs for each species. Molecular Reproduction and Development, 2015, 82, 397-404.	1.0	6
52	X-Linked Retinitis Pigmentosa 2 Is a Novel Maternal-Effect Gene Required for Left-Right Asymmetry in Zebrafish1. Biology of Reproduction, 2015, 93, 42.	1.2	5
53	Maternally Inherited npm2 mRNA Is Crucial for Egg Developmental Competence in Zebrafish1. Biology of Reproduction, 2014, 91, 43.	1.2	27
54	Connectivity of vertebrate genomes: Paired-related homeobox (Prrx) genes in spotted gar, basal teleosts, and tetrapods. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2014, 163, 24-36.	1.3	22

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55	The rainbow trout genome provides novel insights into evolution after whole-genome duplication in vertebrates. Nature Communications, 2014, 5, 3657.	5.8	814
56	Sex hormoneâ€binding globulins characterization and gonadal gene expression during sex differentiation in the rainbow trout, <i>Oncorhynchus mykiss</i>. Molecular Reproduction and Development, 2014, 81, 757-765.	1.0	16
57	Gamete quality and broodstock management in temperate fish. Reviews in Aquaculture, 2013, 5, S194.	4.6	195
58	Identification of Differentially Expressed miRNAs and Their Potential Targets During Fish Ovarian Development1. Biology of Reproduction, 2013, 88, 128.	1.2	76
59	Do not put all teleosts in one net: Focus on the sox2 and pou2 genes. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2013, 164, 69-79.	0.7	21
60	nanog 5â€²-upstream sequence, DNA methylation, and expression in gametes and early embryo reveal striking differences between teleosts and mammals. Gene, 2012, 492, 130-137.	1.0	26
61	Characterization of rainbow trout gonad, brain and gill deep cDNA repertoires using a Roche 454-Titanium sequencing approach. Gene, 2012, 500, 32-39.	1.0	11
62	Oocyte-somatic cells interactions, lessons from evolution. BMC Genomics, 2012, 13, 560.	1.2	40
63	Evolutionary history of <i>câ€myc</i> in teleosts and characterization of the duplicated <i>câ€myca</i> genes in goldfish embryos. Molecular Reproduction and Development, 2012, 79, 85-96.	1.0	20
64	The ovarian reserve in mammals: A functional and evolutionary perspective. Molecular and Cellular Endocrinology, 2012, 356, 2-12.	1.6	68
65	Aromatase is expressed and active in the rainbow trout oocyte during final oocyte maturation. Molecular Reproduction and Development, 2011, 78, 510-518.	1.0	32
66	The Effects of Immunostimulation Through Dietary Manipulation in the Rainbow Trout; Evaluation of Mucosal Immunity. Marine Biotechnology, 2010, 12, 88-99.	1.1	28
67	Comparative transcriptomic analysis of follicle-enclosed oocyte maturational and developmental competence acquisition in two non-mammalian vertebrates. BMC Genomics, 2010, 11, 18.	1.2	41
68	Cellular and molecular evidence for a role of tumor necrosis factor alpha in the ovulatory mechanism of trout. Reproductive Biology and Endocrinology, 2010, 8, 34.	1.4	34
69	Egg and sperm quality in fish. General and Comparative Endocrinology, 2010, 165, 535-548.	0.8	557
70	Oogenesis in teleosts: How fish eggs are formed. General and Comparative Endocrinology, 2010, 165, 367-389.	0.8	863
71	Nme Gene Family Evolutionary History Reveals Pre-Metazoan Origins and High Conservation between Humans and the Sea Anemone, Nematostella vectensis. PLoS ONE, 2010, 5, e15506.	1.1	29
72	Prochloraz-induced Oocyte Maturation in Rainbow Trout (Oncorhynchus mykiss), a Molecular and Functional Analysis. Toxicological Sciences, 2010, 118, 61-70.	1.4	20

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73	Diversity and biological significance of sex hormone-binding globulin in fish, an evolutionary perspective. Molecular and Cellular Endocrinology, 2010, 316, 66-78.	1.6	27
74	Lipopolysaccharide administration in preovulatory rainbow trout (Oncorhynchus mykiss) reduces egg quality. Aquaculture, 2010, 300, 240-242.	1.7	6
75	Nme protein family evolutionary history, a vertebrate perspective. BMC Evolutionary Biology, 2009, 9, 256.	3.2	94
76	Ovarian function of the trout preovulatory ovary: New insights from recent gene expression studies. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, 63-68.	0.8	46
77	In silico identification and molecular characterization of genes predominantly expressed in the fish oocyte. BMC Genomics, 2008, 9, 499.	1.2	19
78	A Novel, Functional, and Highly Divergent Sex Hormone-Binding Globulin that May Participate in the Local Control of Ovarian Functions in Salmonids. Endocrinology, 2008, 149, 2980-2989.	1.4	27
79	Functional Genomics and Proteomic Approaches for the Study of Gamete Formation and Viability in Farmed Finfish. Reviews in Fisheries Science, 2008, 16, 56-72.	2.1	25
80	Characterization of rainbow trout egg quality: A case study using four different breeding protocols, with emphasis on the incidence of embryonic malformations. Theriogenology, 2007, 67, 786-794.	0.9	85
81	Microarray-based analysis of fish egg quality after natural or controlled ovulation. BMC Genomics, 2007, 8, 55.	1.2	99
82	Hydration of rainbow trout oocyte during meiotic maturation and in vitro regulation by 17,20Î²-dihydroxy-4-pregnen-3-one and cortisol. Journal of Experimental Biology, 2006, 209, 1147-1156.	0.8	72
83	Identification of new participants in the rainbow trout (Oncorhynchus mykiss) oocyte maturation and ovulation processes using cDNA microarrays. Reproductive Biology and Endocrinology, 2006, 4, 39.	1.4	104
84	Two unrelated putative membrane-bound progestin receptors, progesterone membrane receptor component 1 (PGMRC1) and membrane progestin receptor (mPR) beta, are expressed in the rainbow trout oocyte and exhibit similar ovarian expression patterns. Reproductive Biology and Endocrinology, 2006, 4, 6.	1.4	46
85	Insulin-Like Growth Factor-Binding Protein (IGFBP)-1, -2, -3, -4, -5, and -6 and IGFBP-Related Protein 1 during Rainbow Trout Postvitellogenesis and Oocyte Maturation: Molecular Characterization, Expression Profiles, and Hormonal Regulation. Endocrinology, 2006, 147, 2399-2410.	1.4	100
86	Large scale real-time PCR analysis of mRNA abundance in rainbow trout eggs in relationship with egg quality and post-ovulatory ageing. Molecular Reproduction and Development, 2005, 72, 377-385.	1.0	112
87	Targeted Gene Expression Profiling in the Rainbow Trout (Oncorhynchus mykiss) Ovary During Maturational Competence Acquisition and Oocyte Maturation. Biology of Reproduction, 2004, 71, 73-82.	1.2	99
88	Messenger RNA stockpile of cyclin B, insulin-like growth factor I, insulin-like growth factor II, insulin-like growth factor receptor Ib, and p53 in the rainbow trout oocyte in relation with developmental competence. Molecular Reproduction and Development, 2004, 67, 127-135.	1.0	66
89	Post-ovulatory ageing and egg quality: a proteomic analysis of rainbow trout coelomic fluid. Reproductive Biology and Endocrinology, 2004, 2, 26.	1.4	81
90	Agonistic effect of imidazole and triazole fungicides on in vitro oocyte maturation in rainbow trout (Oncorhynchus mykiss). Marine Environmental Research, 2004, 58, 143-146.	1.1	15

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91	Rainbow trout follicular maturational competence acquisition is associated with an increased expression of follicle stimulating hormone receptor and insulin-like growth factor 2 messenger RNAs. Molecular Reproduction and Development, 2003, 66, 46-53.	1.0	63
92	Specific gene expression profiles are associated with follicular maturational competence acquisition in rainbow trout (Oncorhynchus mykiss). Fish Physiology and Biochemistry, 2003, 28, 309-311.	0.9	6
93	Conservation of Death Receptor-6 in Avian and Piscine Vertebrates. Biochemical and Biophysical Research Communications, 2001, 284, 1109-1115.	1.0	19
94	Molecular cloning and expression of a TNF receptor and two TNF ligands in the fish ovary. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2001, 129, 475-481.	0.7	81
95	A novel osteopontin-like protein is expressed in the trout ovary during ovulation. FEBS Letters, 2001, 489, 119-124.	1.3	20
96	Cysteine protease inhibitor is specifically expressed in pre- and early-vitellogenic oocytes from the brook trout periovulatory ovary. Molecular Reproduction and Development, 2001, 60, 312-318.	1.0	9
97	An Ovarian Progastricsin Is Present in the Trout Coelomic Fluid after Ovulation1. Biology of Reproduction, 2001, 64, 1048-1055.	1.2	24
98	Embryonic muscle development in rainbow trout (Oncorhynchus mykiss): A scanning electron microscopy and immunohistological study. , 2000, 286, 379-389.		14
99	A Tumor Necrosis Factor Decoy Receptor Homologue Is Up-Regulated in the Brook Trout (Salvelinus) Tj ETQq1 1 0.784314 rgBT /Overlo	1.2	45
100	A S100 homologue mRNA isolated by differential display PCR is down-regulated in the brook trout (Salvelinus fontinalis) post-ovulatory ovary. Gene, 2000, 257, 187-194.	1.0	16