

# Julien Bobe

## List of Publications by Year in descending order

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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	Oogenesis in teleosts: How fish eggs are formed. <i>General and Comparative Endocrinology</i> , 2010, 165, 367-389.	0.8	863
2	The rainbow trout genome provides novel insights into evolution after whole-genome duplication in vertebrates. <i>Nature Communications</i> , 2014, 5, 3657.	5.8	814
3	Egg and sperm quality in fish. <i>General and Comparative Endocrinology</i> , 2010, 165, 535-548.	0.8	557
4	The spotted gar genome illuminates vertebrate evolution and facilitates human-teleost comparisons. <i>Nature Genetics</i> , 2016, 48, 427-437.	9.4	545
5	Gene evolution and gene expression after whole genome duplication in fish: the PhyloFish database. <i>BMC Genomics</i> , 2016, 17, 368.	1.2	288
6	Gamete quality and broodstock management in temperate fish. <i>Reviews in Aquaculture</i> , 2013, 5, S194.	4.6	195
7	Maternal investment in fish oocytes and eggs: The molecular cargo and its contributions to fertility and early development. <i>Aquaculture</i> , 2017, 472, 107-143.	1.7	134
8	Large scale real-time PCR analysis of mRNA abundance in rainbow trout eggs in relationship with egg quality and post-ovulatory ageing. <i>Molecular Reproduction and Development</i> , 2005, 72, 377-385.	1.0	112
9	Identification of the master sex determining gene in Northern pike ( <i>Esox lucius</i> ) reveals restricted sex chromosome differentiation. <i>PLoS Genetics</i> , 2019, 15, e1008013.	1.5	107
10	Compacting and correcting Trinity and Oases RNA-Seq <i>de novo</i> assemblies. <i>PeerJ</i> , 2017, 5, e2988.	0.9	105
11	Identification of new participants in the rainbow trout ( <i>Oncorhynchus mykiss</i> ) oocyte maturation and ovulation processes using cDNA microarrays. <i>Reproductive Biology and Endocrinology</i> , 2006, 4, 39.	1.4	104
12	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. <i>Endocrinology</i> , 2006, 147, 2399-2410.	1.4	100
13	Targeted Gene Expression Profiling in the Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) Ovary During Maturation Competence Acquisition and Oocyte Maturation. <i>Biology of Reproduction</i> , 2004, 71, 73-82.	1.2	99
14	Microarray-based analysis of fish egg quality after natural or controlled ovulation. <i>BMC Genomics</i> , 2007, 8, 55.	1.2	99
15	Nme protein family evolutionary history, a vertebrate perspective. <i>BMC Evolutionary Biology</i> , 2009, 9, 256.	3.2	94
16	Foxl2 and Its Relatives Are Evolutionary Conserved Players in Gonadal Sex Differentiation. <i>Sexual Development</i> , 2016, 10, 111-129.	1.1	87
17	Characterization of rainbow trout egg quality: A case study using four different breeding protocols, with emphasis on the incidence of embryonic malformations. <i>Theriogenology</i> , 2007, 67, 786-794.	0.9	85
18	Molecular cloning and expression of a TNF receptor and two TNF ligands in the fish ovary. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2001, 129, 475-481.	0.7	81

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19	Post-ovulatory ageing and egg quality: a proteomic analysis of rainbow trout coelomic fluid. <i>Reproductive Biology and Endocrinology</i> , 2004, 2, 26.	1.4	81
20	Identification of Differentially Expressed miRNAs and Their Potential Targets During Fish Ovarian Development. <i>Biology of Reproduction</i> , 2013, 88, 128.	1.2	76
21	MiR-202 controls female fecundity by regulating medaka oogenesis. <i>PLoS Genetics</i> , 2018, 14, e1007593.	1.5	75
22	Hydration of rainbow trout oocyte during meiotic maturation and in vitro regulation by 17,20 $\beta$ -dihydroxy-4-pregnen-3-one and cortisol. <i>Journal of Experimental Biology</i> , 2006, 209, 1147-1156.	0.8	72
23	Characterization of an extensive rainbow trout miRNA transcriptome by next generation sequencing. <i>BMC Genomics</i> , 2016, 17, 164.	1.2	69
24	The ovarian reserve in mammals: A functional and evolutionary perspective. <i>Molecular and Cellular Endocrinology</i> , 2012, 356, 2-12.	1.6	68
25	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. <i>Molecular Reproduction and Development</i> , 2004, 67, 127-135.	1.0	66
26	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. <i>Molecular Reproduction and Development</i> , 2003, 66, 46-53.	1.0	63
27	Egg quality in fish: Present and future challenges. <i>Animal Frontiers</i> , 2015, 5, 66-72.	0.8	62
28	Evolution of gene expression after whole-genome duplication: New insights from the spotted gar genome. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2017, 328, 709-721.	0.6	52
29	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. <i>Reproductive Biology and Endocrinology</i> , 2006, 4, 6.	1.4	46
30	Ovarian function of the trout preovulatory ovary: New insights from recent gene expression studies. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2009, 153, 63-68.	0.8	46
31	A Tumor Necrosis Factor Decoy Receptor Homologue Is Up-Regulated in the Brook Trout ( <i>Salvelinus</i> ) Tj ETQq1 1 0.784314 rgBT /Over	1.2	45
32	Comparative transcriptomic analysis of follicle-enclosed oocyte maturational and developmental competence acquisition in two non-mammalian vertebrates. <i>BMC Genomics</i> , 2010, 11, 18.	1.2	41
33	Oocyte-somatic cells interactions, lessons from evolution. <i>BMC Genomics</i> , 2012, 13, 560.	1.2	40
34	Multiple vitellogenins in zebrafish ( <i>Danio rerio</i> ): quantitative inventory of genes, transcripts and proteins, and relation to egg quality. <i>Fish Physiology and Biochemistry</i> , 2018, 44, 1509-1525.	0.9	38
35	Transcriptomic Profiling of Egg Quality in Sea Bass ( <i>Dicentrarchus labrax</i> ) Sheds Light on Genes Involved in Ubiquitination and Translation. <i>Marine Biotechnology</i> , 2017, 19, 102-115.	1.1	36
36	The advantage of channeling nucleotides for very processive functions. <i>F1000Research</i> , 2017, 6, 724.	0.8	36

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37	Cellular and molecular evidence for a role of tumor necrosis factor alpha in the ovulatory mechanism of trout. <i>Reproductive Biology and Endocrinology</i> , 2010, 8, 34.	1.4	34
38	Scrambled eggs: Proteomic portraits and novel biomarkers of egg quality in zebrafish ( <i>Danio rerio</i> ). <i>PLoS ONE</i> , 2017, 12, e0188084.	1.1	34
39	Aromatase is expressed and active in the rainbow trout oocyte during final oocyte maturation. <i>Molecular Reproduction and Development</i> , 2011, 78, 510-518.	1.0	32
40	Evolution after Whole-Genome Duplication: Teleost MicroRNAs. <i>Molecular Biology and Evolution</i> , 2021, 38, 3308-3331.	3.5	31
41	Maternal temperature exposure impairs emotional and cognitive responses and triggers dysregulation of neurodevelopment genes in fish. <i>PeerJ</i> , 2019, 7, e6338.	0.9	30
42	Nme Gene Family Evolutionary History Reveals Pre-Metazoan Origins and High Conservation between Humans and the Sea Anemone, <i>Nematostella vectensis</i> . <i>PLoS ONE</i> , 2010, 5, e15506.	1.1	29
43	Evolutionary history of glucose-6-phosphatase encoding genes in vertebrate lineages: towards a better understanding of the functions of multiple duplicates. <i>BMC Genomics</i> , 2017, 18, 342.	1.2	29
44	Chaperone-Mediated Autophagy in the Light of Evolution: Insight from Fish. <i>Molecular Biology and Evolution</i> , 2020, 37, 2887-2899.	3.5	29
45	The Effects of Immunostimulation Through Dietary Manipulation in the Rainbow Trout; Evaluation of Mucosal Immunity. <i>Marine Biotechnology</i> , 2010, 12, 88-99.	1.1	28
46	Sexually dimorphic gene expressions in eels: useful markers for early sex assessment in a conservation context. <i>Scientific Reports</i> , 2016, 6, 34041.	1.6	28
47	A Novel, Functional, and Highly Divergent Sex Hormone-Binding Globulin that May Participate in the Local Control of Ovarian Functions in Salmonids. <i>Endocrinology</i> , 2008, 149, 2980-2989.	1.4	27
48	Diversity and biological significance of sex hormone-binding globulin in fish, an evolutionary perspective. <i>Molecular and Cellular Endocrinology</i> , 2010, 316, 66-78.	1.6	27
49	Maternally Inherited npm2 mRNA Is Crucial for Egg Developmental Competence in Zebrafish1. <i>Biology of Reproduction</i> , 2014, 91, 43.	1.2	27
50	Genome editing reveals reproductive and developmental dependencies on specific types of vitellogenin in zebrafish ( <i>Danio rerio</i> ). <i>Molecular Reproduction and Development</i> , 2019, 86, 1168-1188.	1.0	27
51	The advantage of channeling nucleotides for very processive functions. <i>F1000Research</i> , 2017, 6, 724.	0.8	27
52	nanog 5' upstream sequence, DNA methylation, and expression in gametes and early embryo reveal striking differences between teleosts and mammals. <i>Gene</i> , 2012, 492, 130-137.	1.0	26
53	Functional Genomics and Proteomic Approaches for the Study of Gamete Formation and Viability in Farmed Finfish. <i>Reviews in Fisheries Science</i> , 2008, 16, 56-72.	2.1	25
54	An Ovarian Progastricsin Is Present in the Trout Coelomic Fluid after Ovulation1. <i>Biology of Reproduction</i> , 2001, 64, 1048-1055.	1.2	24

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55	Allelic diversification after transposable element exaptation promoted <i>gsdf</i> as the master sex determining gene of sablefish. <i>Genome Research</i> , 2021, 31, 1366-1380.	2.4	23
56	Connectivity of vertebrate genomes: Paired-related homeobox ( <i>Prrx</i> ) genes in spotted gar, basal teleosts, and tetrapods. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2014, 163, 24-36.	1.3	22
57	Do not put all teleosts in one net: Focus on the <i>sox2</i> and <i>pou2</i> genes. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2013, 164, 69-79.	0.7	21
58	A novel osteopontin-like protein is expressed in the trout ovary during ovulation. <i>FEBS Letters</i> , 2001, 489, 119-124.	1.3	20
59	Prochloraz-induced Oocyte Maturation in Rainbow Trout ( <i>Oncorhynchus mykiss</i> ), a Molecular and Functional Analysis. <i>Toxicological Sciences</i> , 2010, 118, 61-70.	1.4	20
60	Evolutionary history of <i>myc</i> in teleosts and characterization of the duplicated <i>myca</i> genes in goldfish embryos. <i>Molecular Reproduction and Development</i> , 2012, 79, 85-96.	1.0	20
61	Conservation of Death Receptor-6 in Avian and Piscine Vertebrates. <i>Biochemical and Biophysical Research Communications</i> , 2001, 284, 1109-1115.	1.0	19
62	In silico identification and molecular characterization of genes predominantly expressed in the fish oocyte. <i>BMC Genomics</i> , 2008, 9, 499.	1.2	19
63	Genome-wide identification of novel ovarian-predominant miRNAs: new insights from the medaka ( <i>Oryzias latipes</i> ). <i>Scientific Reports</i> , 2017, 7, 40241.	1.6	18
64	CMA restricted to mammals and birds: myth or reality?. <i>Autophagy</i> , 2018, 14, 1267-1270.	4.3	18
65	Exploring the Impact of a Low-Protein High-Carbohydrate Diet in Mature Broodstock of a Glucose-Intolerant Teleost, the Rainbow Trout. <i>Frontiers in Physiology</i> , 2020, 11, 303.	1.3	18
66	Circulating miRNA repertoire as a biomarker of metabolic and reproductive states in rainbow trout. <i>BMC Biology</i> , 2021, 19, 235.	1.7	18
67	Reply to: "Subfunctionalization versus neofunctionalization after whole-genome duplication". <i>Nature Genetics</i> , 2018, 50, 910-911.	9.4	17
68	A S100 homologue mRNA isolated by differential display PCR is down-regulated in the brook trout ( <i>Salvelinus fontinalis</i> ) post-ovulatory ovary. <i>Gene</i> , 2000, 257, 187-194.	1.0	16
69	Sex hormone-binding globulins characterization and gonadal gene expression during sex differentiation in the rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Molecular Reproduction and Development</i> , 2014, 81, 757-765.	1.0	16
70	FishmiRNA: An Evolutionarily Supported MicroRNA Annotation and Expression Database for Ray-Finned Fishes. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	16
71	Agonistic effect of imidazole and triazole fungicides on in vitro oocyte maturation in rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Marine Environmental Research</i> , 2004, 58, 143-146.	1.1	15
72	Embryonic muscle development in rainbow trout ( <i>Oncorhynchus mykiss</i> ): A scanning electron microscopy and immunohistological study. , 2000, 286, 379-389.		14

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73	Domestication may affect the maternal mRNA profile in unfertilized eggs, potentially impacting the embryonic development of Eurasian perch ( <i>Perca fluviatilis</i> ). PLoS ONE, 2019, 14, e0226878.	1.1	14
74	Knock out of specific maternal vitellogenins in zebrafish ( <i>Danio rerio</i> ) evokes vital changes in egg proteomic profiles that resemble the phenotype of poor quality eggs. BMC Genomics, 2021, 22, 308.	1.2	14
75	Positive impact of moderate food restriction on reproductive success of the rainbow trout <i>Oncorhynchus mykiss</i> . Aquaculture, 2019, 502, 280-288.	1.7	13
76	<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
77	An ancient truncated duplication of the anti-allergic 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
78	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
79	Domestication modulates the expression of genes involved in neurogenesis in high-quality eggs of <i>Sander lucioperca</i> . Molecular Reproduction and Development, 2020, 87, 934-951.	1.0	10
80	Cysteine protease inhibitor is specifically expressed in pre- and early-vitellogenic oocytes from the brook trout periovitulatory ovary. Molecular Reproduction and Development, 2001, 60, 312-318.	1.0	9
81	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
82	Double maternal-effect: duplicated nucleoplasmin 2 genes, <i>npm2a</i> and <i>npm2b</i> , with essential but distinct functions are shared by fish and tetrapods. BMC Evolutionary Biology, 2018, 18, 167.	3.2	8
83	Effect of micro-algae <i>Schizochytrium</i> sp. supplementation in plant diet on reproduction of female rainbow trout ( <i>Oncorhynchus mykiss</i> ): maternal programming impact of progeny. Journal of Animal Science and Biotechnology, 2022, 13, 33.	2.1	8
84	Genes Involved in <i>Drosophila melanogaster</i> Ovarian Function Are Highly Conserved Throughout Evolution. Genome Biology and Evolution, 2018, 10, 2629-2642.	1.1	7
85	Specific gene expression profiles are associated with follicular maturational competence acquisition in rainbow trout ( <i>Oncorhynchus mykiss</i> ). Fish Physiology and Biochemistry, 2003, 28, 309-311.	0.9	6
86	Lipopolysaccharide administration in preovulatory rainbow trout ( <i>Oncorhynchus mykiss</i> ) reduces egg quality. Aquaculture, 2010, 300, 240-242.	1.7	6
87	Effects of the anti-androgen cyproterone acetate (CPA) on oocyte meiotic maturation in rainbow trout ( <i>Oncorhynchus mykiss</i> ). Aquatic Toxicology, 2015, 164, 34-42.	1.9	6
88	A comparison between egg transcriptomes of cod and salmon reveals species-specific traits in eggs for each species. Molecular Reproduction and Development, 2015, 82, 397-404.	1.0	6
89	X-Linked Retinitis Pigmentosa 2 Is a Novel Maternal-Effect Gene Required for Left-Right Asymmetry in Zebrafish. Biology of Reproduction, 2015, 93, 42.	1.2	5
90	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

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91	C-ECi: a CUBIC-ECi combined clearing method for three-dimensional follicular content analysis in the fish ovary. <i>Biology of Reproduction</i> , 2020, 103, 1099-1109.	1.2	4
92	VisEgg: a robust phenotyping tool to assess rainbow trout egg features and viability. <i>Fish Physiology and Biochemistry</i> , 2021, 47, 671-679.	0.9	4
93	Neurodevelopment vs. the immune system: Complementary contributions of maternally-inherited gene transcripts and proteins to successful embryonic development in fish. <i>Genomics</i> , 2021, 113, 3811-3826.	1.3	4
94	The rainbow trout genome, an important landmark for aquaculture and genome evolution. , 2016, , 21-43.		3
95	Evolution of sex hormone binding globulins reveals early gene duplication at the root of vertebrates. <i>General and Comparative Endocrinology</i> , 2021, 300, 113646.	0.8	3
96	Effect of a low water concentration in chloride, sodium and potassium on oocyte maturation, oocyte hydration, ovulation and egg quality in rainbow trout. <i>Aquaculture</i> , 2022, 546, 737374.	1.7	3
97	A nonfunctional copy of the salmonid sex-determining gene ( <i>sdY</i> ) is responsible for the "apparent" XY females in Chinook salmon, <i>Oncorhynchus tshawytscha</i> . <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	0.8	3
98	Maternal RNAs, <i>Fish &amp; Amphibians</i> . , 2018, , 251-256.		1
99	Liquid Chromatography and Tandem Mass Spectrometry in Label-Free of Zebrafish ( <i>Danio rerio</i> ) Eggs. <i>Methods in Molecular Biology</i> , 2021, 2218, 277-290.	0.4	1
100	A Comparison of Reproductive Performances in Young and Old Females: A Case Study on the Atlantic Bluefin Tuna in the Mediterranean Sea. <i>Animals</i> , 2021, 11, 3340.	1.0	1