

Yann Guiguen

List of Publications by Year in descending order

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88
papers

7,633
citations

71102

41
h-index

56724

83
g-index

109
all docs

109
docs citations

109
times ranked

8088
citing authors

#	ARTICLE	IF	CITATIONS
1	The rainbow trout genome provides novel insights into evolution after whole-genome duplication in vertebrates. <i>Nature Communications</i> , 2014, 5, 3657.	12.8	814
2	Ovarian aromatase and estrogens: A pivotal role for gonadal sex differentiation and sex change in fish. <i>General and Comparative Endocrinology</i> , 2010, 165, 352-366.	1.8	555
3	The spotted gar genome illuminates vertebrate evolution and facilitates human-teleost comparisons. <i>Nature Genetics</i> , 2016, 48, 427-437.	21.4	545
4	An Immune-Related Gene Evolved into the Master Sex-Determining Gene in Rainbow Trout, <i>Oncorhynchus mykiss</i> . <i>Current Biology</i> , 2012, 22, 1423-1428.	3.9	466
5	The sexually dimorphic on the Y-chromosome gene (<i>sdy</i>) is a conserved male-specific Y-chromosome sequence in many salmonids. <i>Evolutionary Applications</i> , 2013, 6, 486-496.	3.1	293
6	Gene evolution and gene expression after whole genome duplication in fish: the PhyloFish database. <i>BMC Genomics</i> , 2016, 17, 368.	2.8	288
7	Involvement of estrogens in the process of sex differentiation in two fish species: The rainbow trout (<i>Oncorhynchus mykiss</i>) and a tilapia (<i>Oreochromis niloticus</i>). <i>Molecular Reproduction and Development</i> , 1999, 54, 154-162.	2.0	279
8	DMRT1 expression during gonadal differentiation and spermatogenesis in the rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2000, 1493, 180-187.	2.4	235
9	Two Cyp19 (P450 Aromatase) Genes on Duplicated Zebrafish Chromosomes Are Expressed in Ovary or Brain. <i>Molecular Biology and Evolution</i> , 2001, 18, 542-550.	8.9	199
10	An evolutionary and functional analysis of FoxL2 in rainbow trout gonad differentiation. <i>Journal of Molecular Endocrinology</i> , 2004, 33, 705-715.	2.5	178
11	Characterization of early molecular sex differentiation in rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Developmental Dynamics</i> , 2007, 236, 2198-2206.	1.8	174
12	Large-Scale Temporal Gene Expression Profiling During Gonadal Differentiation and Early Gametogenesis in Rainbow Trout. <i>Biology of Reproduction</i> , 2005, 73, 959-966.	2.7	168
13	Aromatase plays a key role during normal and temperature-induced sex differentiation of tilapia <i>Oreochromis niloticus</i> . <i>Molecular Reproduction and Development</i> , 2001, 59, 265-276.	2.0	162
14	The sterlet sturgeon genome sequence and the mechanisms of segmental rediploidization. <i>Nature Ecology and Evolution</i> , 2020, 4, 841-852.	7.8	159
15	Fish Gonadogenesis. Part II: Molecular Biology and Genomics of Sex Differentiation. <i>Reviews in Fisheries Science</i> , 2008, 16, 35-55.	2.1	130
16	TAT>A transversion 11 bp from a splice acceptor site in the human gene for steroidogenic acute regulatory protein causes congenital lipid adrenal hyperplasia. <i>Human Molecular Genetics</i> , 1995, 4, 2299-2305.	2.9	120
17	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.	3.5	107
18	Compacting and correcting Trinity and Oases RNA-Seq <i>de novo</i> assemblies. <i>PeerJ</i> , 2017, 5, e2988.	2.0	105

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19	Rainbow Trout Gonadal Masculinization Induced by Inhibition of Estrogen Synthesis Is More Physiological Than Masculinization Induced by Androgen Supplementation. <i>Biology of Reproduction</i> , 2008, 78, 939-946.	2.7	100
20	Functional Annotation of All Salmonid Genomes (FAASG): an international initiative supporting future salmonid research, conservation and aquaculture. <i>BMC Genomics</i> , 2017, 18, 484.	2.8	99
21	Foxl2 and Its Relatives Are Evolutionary Conserved Players in Gonadal Sex Differentiation. <i>Sexual Development</i> , 2016, 10, 111-129.	2.0	87
22	Expression profiling of candidate genes during ovary-to-testis trans-differentiation in rainbow trout masculinized by androgens. <i>General and Comparative Endocrinology</i> , 2008, 156, 369-378.	1.8	83
23	Estrogen treatment up-regulates female genes but does not suppress all early testicular markers during rainbow trout male-to-female gonadal transdifferentiation. <i>Journal of Molecular Endocrinology</i> , 2008, 41, 277-288.	2.5	76
24	Characterization of a Y-specific duplication/insertion of the anti-Müllerian hormone type II receptor gene based on a chromosome-scale genome assembly of yellow perch, <i>Perca flavescens</i> . <i>Molecular Ecology Resources</i> , 2020, 20, 531-543.	4.8	76
25	Characterization of duplicated zebrafish <i>cyp19</i> genes. <i>The Journal of Experimental Zoology</i> , 2001, 290, 709-714.	1.4	73
26	Generation of a large scale repertoire of Expressed Sequence Tags (ESTs) from normalised rainbow trout cDNA libraries. <i>BMC Genomics</i> , 2006, 7, 196.	2.8	71
27	Steroid enzyme gene expressions during natural and androgen-induced gonadal differentiation in the rainbow trout, <i>Oncorhynchus mykiss</i> . <i>The Journal of Experimental Zoology</i> , 2001, 290, 558-566.	1.4	69
28	The unusual rainbow trout sex determination gene hijacked the canonical vertebrate gonadal differentiation pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12781-12786.	7.1	67
29	Divergent Expression Regulation of Gonad Development Genes in Medaka Shows Incomplete Conservation of the Downstream Regulatory Network of Vertebrate Sex Determination. <i>Molecular Biology and Evolution</i> , 2013, 30, 2328-2346.	8.9	65
30	Vertebrate sex-determining genes play musical chairs. <i>Comptes Rendus - Biologies</i> , 2016, 339, 258-262.	0.2	65
31	<i>Foxl2</i> gene and the development of the ovary: a story about goat, mouse, fish and woman. <i>Reproduction, Nutrition, Development</i> , 2005, 45, 377-382.	1.9	63
32	17 β -Estradiol Treatment Decreases Steroidogenic Enzyme Messenger Ribonucleic Acid Levels in the Rainbow Trout Testis*. <i>Endocrinology</i> , 2001, 142, 1841-1848.	2.8	62
33	Evolution of master sex determiners: TGF- β signalling pathways at regulatory crossroads. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200091.	4.0	60
34	Androgen-induced masculinization in rainbow trout results in a marked dysregulation of early gonadal gene expression profiles. <i>BMC Genomics</i> , 2007, 8, 357.	2.8	59
35	RUNX1 maintains the identity of the fetal ovary through an interplay with FOXL2. <i>Nature Communications</i> , 2019, 10, 5116.	12.8	59
36	Sexual dimorphism in the brain aromatase expression and activity, and in the central expression of other steroidogenic enzymes during the period of sex differentiation in monosex rainbow trout populations. <i>General and Comparative Endocrinology</i> , 2011, 170, 346-355.	1.8	58

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37	Sox5 is involved in germ-cell regulation and sex determination in medaka following co-option of nested transposable elements. <i>BMC Biology</i> , 2018, 16, 16.	3.8	56
38	Expression Profiling of Wnt Signaling Genes during Gonadal Differentiation and Gametogenesis in Rainbow Trout. <i>Sexual Development</i> , 2011, 5, 318-329.	2.0	55
39	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.	1.3	52
40	The bowfin genome illuminates the developmental evolution of ray-finned fishes. <i>Nature Genetics</i> , 2021, 53, 1373-1384.	21.4	48
41	Search for genes involved in the temperature-induced gonadal sex differentiation in the tilapia, <i>Oreochromis niloticus</i> . <i>The Journal of Experimental Zoology</i> , 2001, 290, 574-585.	1.4	46
42	Ovary-predominant <i>wnt4</i> expression during gonadal differentiation is not conserved in the rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Molecular Reproduction and Development</i> , 2012, 79, 51-63.	2.0	44
43	A 180 Myr-old female-specific genome region in sturgeon reveals the oldest known vertebrate sex determining system with undifferentiated sex chromosomes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200089.	4.0	41
44	RADSex: A computational workflow to study sex determination using restriction site-associated DNA sequencing data. <i>Molecular Ecology Resources</i> , 2021, 21, 1715-1731.	4.8	40
45	Heritable Targeted Inactivation of the Rainbow Trout (<i>Oncorhynchus mykiss</i>) Master Sex-Determining Gene Using Zinc-Finger Nucleases. <i>Marine Biotechnology</i> , 2014, 16, 243-250.	2.4	39
46	A brief review of vertebrate sex evolution with a pledge for integrative research: towards sexomics™. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200426.	4.0	39
47	Title is missing!. <i>Ecotoxicology</i> , 2000, 9, 25-40.	2.4	34
48	Aromatase (P450arom) and 11 β -hydroxylase (P45011 β) genes are differentially expressed during the sex change process of the protogynous rice field eel, <i>monopterus albus</i> . <i>Fish Physiology and Biochemistry</i> , 2009, 35, 511-518.	2.3	34
49	An improved PCR-based method for faster sex determination in brown trout (<i>Salmo trutta</i>) and Atlantic salmon (<i>Salmo salar</i>). <i>Conservation Genetics Resources</i> , 2014, 6, 825-827.	0.8	34
50	A supernumerary X-B-sex-chromosome drives male sex determination in the Pachón cavefish, <i>Astyanax mexicanus</i> . <i>Current Biology</i> , 2021, 31, 4800-4809.e9.	3.9	34
51	17 β -Estradiol Treatment Decreases Steroidogenic Enzyme Messenger Ribonucleic Acid Levels in the Rainbow Trout Testis. <i>Endocrinology</i> , 2001, 142, 1841-1848.	2.8	34
52	Independent Origin of XY and ZW Sex Determination Mechanisms in Mosquitofish Sister Species. <i>Genetics</i> , 2020, 214, 193-209.	2.9	30
53	Localization of steroidogenic enzymes and Foxl2a in the gonads of mature zebrafish (<i>Danio rerio</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2015, 188, 96-106.	1.8	29
54	Chaperone-Mediated Autophagy in the Light of Evolution: Insight from Fish. <i>Molecular Biology and Evolution</i> , 2020, 37, 2887-2899.	8.9	29

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55	Transcriptome of tambaqui <i>Colossoma macropomum</i> during gonad differentiation: Different molecular signals leading to sex identity. <i>Genomics</i> , 2020, 112, 2478-2488.	2.9	29
56	High Temperature Increases the Masculinization Rate of the All-Female (XX) Rainbow Trout "Malá• Population. <i>PLoS ONE</i> , 2014, 9, e113355.	2.5	29
57	Sexually dimorphic gene expressions in eels: useful markers for early sex assessment in a conservation context. <i>Scientific Reports</i> , 2016, 6, 34041.	3.3	28
58	Sex chromosome and sex locus characterization in goldfish, <i>Carassius auratus</i> (Linnaeus, 1758). <i>BMC Genomics</i> , 2020, 21, 552.	2.8	28
59	Synteny-Guided Resolution of Gene Trees Clarifies the Functional Impact of Whole-Genome Duplications. <i>Molecular Biology and Evolution</i> , 2020, 37, 3324-3337.	8.9	28
60	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.	2.8	27
61	Diversity and biological significance of sex hormone-binding globulin in fish, an evolutionary perspective. <i>Molecular and Cellular Endocrinology</i> , 2010, 316, 66-78.	3.2	27
62	Lessons from an unusual vertebrate sex-determining gene. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200092.	4.0	26
63	The genome of the arapaima (<i>Arapaima gigas</i>) provides insights into gigantism, fast growth and chromosomal sex determination system. <i>Scientific Reports</i> , 2019, 9, 5293.	3.3	25
64	A Y-linked anti-Mã¼lllerian hormone type-II receptor is the sex-determining gene in ayu, <i>Plecoglossus altivelis</i> . <i>PLoS Genetics</i> , 2021, 17, e1009705.	3.5	25
65	The rise and fall of the ancient northern pike master sex-determining gene. <i>ELife</i> , 2021, 10, .	6.0	24
66	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.	5.5	23
67	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.	2.6	22
68	The Chromosome-Level Genome Assembly of European Grayling Reveals Aspects of a Unique Genome Evolution Process Within Salmonids. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 1283-1294.	1.8	22
69	Genome Sequence of the Euryhaline Javafish Medaka, <i>Oryzias javanicus</i> : A Small Aquarium Fish Model for Studies on Adaptation to Salinity. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 907-915.	1.8	22
70	The duplicated rainbow trout (<i>Oncorhynchus mykiss</i>) Tã€box transcription factors 1, <i>tbx1a</i> and <i>tbx1b</i> , are upã€regulated during testicular development. <i>Molecular Reproduction and Development</i> , 2011, 78, 172-180.	2.0	21
71	CMA restricted to mammals and birds: myth or reality?. <i>Autophagy</i> , 2018, 14, 1267-1270.	9.1	18
72	Sex hormoneã€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.	2.0	16

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73	Dynamic and differential expression of the gonadal aromatase during the process of sexual differentiation in a novel transgenic <i>cyp19a1a</i> -eGFP zebrafish line. <i>General and Comparative Endocrinology</i> , 2018, 261, 179-189.	1.8	16
74	New insights regarding gonad development in European eel: evidence for a direct ovarian differentiation. <i>Fish Physiology and Biochemistry</i> , 2013, 39, 1129-1140.	2.3	15
75	Generation of a chromosome-level genome assembly for Pacific halibut (<i>Hippoglossus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Resources, 2022, 22, 2685-2700.	4.8	15
76	Genetic determinism of spontaneous masculinisation in XX female rainbow trout: new insights using medium throughput genotyping and whole-genome sequencing. <i>Scientific Reports</i> , 2020, 10, 17693.	3.3	13
77	<i>foxr1</i> is a novel maternal-effect gene in fish that is required for early embryonic success. <i>PeerJ</i> , 2018, 6, e5534.	2.0	13
78	An ancient truncated duplication of the anti-Müllerian hormone receptor type 2 gene is a potential conserved master sex determinant in the Pangasiidae catfish family. <i>Molecular Ecology Resources</i> , 2022, 22, 2411-2428.	4.8	13
79	Meta-Analysis of Microarray Data of Rainbow Trout Fry Gonad Differentiation Modulated by Ethynylestradiol. <i>PLoS ONE</i> , 2015, 10, e0135799.	2.5	10
80	Genome biology of the darkedged splitfin, <i>Girardinichthys multiradiatus</i> , and the evolution of sex chromosomes and placentation. <i>Genome Research</i> , 2022, 32, 583-594.	5.5	9
81	A novel evolutionary conserved mechanism of RNA stability regulates synexpression of primordial germ cell-specific genes prior to the sex-determination stage in medaka. <i>PLoS Biology</i> , 2019, 17, e3000185.	5.6	8
82	A duplicated copy of <i>id2b</i> is an unusual sex-determining candidate gene on the Y chromosome of <i>arapaima</i> (<i>Arapaima gigas</i>). <i>Scientific Reports</i> , 2021, 11, 21544.	3.3	8
83	Primordial Germ Cell Migration and Histological and Molecular Characterization of Gonadal Differentiation in Pachón Cavefish <i>Astyanax mexicanus</i>. <i>Sexual Development</i> , 2020, 14, 80-98.	2.0	7
84	No early gender effects on energetic status and life history in a salmonid. <i>Royal Society Open Science</i> , 2015, 2, 150441.	2.4	6
85	The rainbow trout genome, an important landmark for aquaculture and genome evolution. , 2016, , 21-43.		3
86	Evolution of Sex Determining Genes in Fish. , 2018, , 168-175.		3
87	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, .	1.8	3
88	A Supernumerary "B-Sex" Chromosome Drives Male Sex Determination in the Pachón Cavefish, <i>Astyanax mexicanus</i> . <i>SSRN Electronic Journal</i> , 0, , .	0.4	2