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	Genome biology of the darkedged splitfin, Girardinichthys multiradiatus, and the evolution of sex chromosomes and placentation. Genome Research, 2022, 32, 583-594.	5.5	9
2	A nonfunctional copy of the salmonid sex-determining gene (sdY) is responsible for the â€œapparentâ€•XY females in Chinook salmon, Oncorhynchus tshawytscha. G3: Genes, Genomes, Genetics, 2022, 12, .	1.8	3
3	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.	4.8	13
4	Generation of a chromosomeâ€level genome assembly for Pacific halibut (Hippoglossus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 T Resources, 2022, 22, 2685-2700.	4.8	15
5	The rise and fall of the ancient northern pike master sex-determining gene. ELife, 2021, 10, .	6.0	24
6	RADSex: A computational workflow to study sex determination using restriction siteâ€associated DNA sequencing data. Molecular Ecology Resources, 2021, 21, 1715-1731.	4.8	40
7	Allelic diversification after transposable element exaptation promotedgsdfas the master sex determining gene of sablefish. Genome Research, 2021, 31, 1366-1380.	5.5	23
8	A 180 Myr-old female-specific genome region in sturgeon reveals the oldest known vertebrate sex determining system with undifferentiated sex chromosomes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200089.	4.0	41
9	Evolution of master sex determiners: TGF-Î² signalling pathways at regulatory crossroads. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200091.	4.0	60
10	A brief review of vertebrate sex evolution with a pledge for integrative research: towards â€˜sexomicsâ€™. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200426.	4.0	39
11	Lessons from an unusual vertebrate sex-determining gene. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200092.	4.0	26
12	The bowfin genome illuminates the developmental evolution of ray-finned fishes. Nature Genetics, 2021, 53, 1373-1384.	21.4	48
13	A Y-linked anti-MÃ¼llerian hormone type-II receptor is the sex-determining gene in ayu, Plecoglossus altivelis. PLoS Genetics, 2021, 17, e1009705.	3.5	25
14	A supernumerary â€œB-sexâ€•chromosome drives male sex determination in the PachÃ³n cavefish, Astyanax mexicanus. Current Biology, 2021, 31, 4800-4809.e9.	3.9	34
15	A duplicated copy of id2b is an unusual sex-determining candidate gene on the Y chromosome of arapaima (Arapaima gigas). Scientific Reports, 2021, 11, 21544.	3.3	8
16	Characterization of a Yâ€specific duplication/insertion of the antiâ€Mullerian hormone type II receptor gene based on a chromosomeâ€scale genome assembly of yellow perch, Perca flavescens. Molecular Ecology Resources, 2020, 20, 531-543.	4.8	76
17	Genome Sequence of the Euryhaline Javafish Medaka, Oryzias javanicus: A Small Aquarium Fish Model for Studies on Adaptation to Salinity. G3: Genes, Genomes, Genetics, 2020, 10, 907-915.	1.8	22
18	Sex chromosome and sex locus characterization in goldfish, Carassius auratus (Linnaeus, 1758). BMC Genomics, 2020, 21, 552.	2.8	28

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19	Genetic determinism of spontaneous masculinisation in XX female rainbow trout: new insights using medium throughput genotyping and whole-genome sequencing. Scientific Reports, 2020, 10, 17693.	3.3	13
20	Chaperone-Mediated Autophagy in the Light of Evolution: Insight from Fish. Molecular Biology and Evolution, 2020, 37, 2887-2899.	8.9	29
21	Synteny-Guided Resolution of Gene Trees Clarifies the Functional Impact of Whole-Genome Duplications. Molecular Biology and Evolution, 2020, 37, 3324-3337.	8.9	28
22	Transcriptome of tambaqui Colossoma macropomum during gonad differentiation: Different molecular signals leading to sex identity. Genomics, 2020, 112, 2478-2488.	2.9	29
23	Independent Origin of XY and ZW Sex Determination Mechanisms in Mosquitofish Sister Species. Genetics, 2020, 214, 193-209.	2.9	30
24	The sterlet sturgeon genome sequence and the mechanisms of segmental rediploidization. Nature Ecology and Evolution, 2020, 4, 841-852.	7.8	159
25	Primordial Germ Cell Migration and Histological and Molecular Characterization of Gonadal Differentiation in PachÃ³n Cavefish <i>Astyanax mexicanus</i>. Sexual Development, 2020, 14, 80-98.	2.0	7
26	Identification of the master sex determining gene in Northern pike (Esox lucius) reveals restricted sex chromosome differentiation. PLoS Genetics, 2019, 15, e1008013.	3.5	107
27	RUNX1 maintains the identity of the fetal ovary through an interplay with FOXL2. Nature Communications, 2019, 10, 5116.	12.8	59
28	The Chromosome-Level Genome Assembly of European Grayling Reveals Aspects of a Unique Genome Evolution Process Within Salmonids. G3: Genes, Genomes, Genetics, 2019, 9, 1283-1294.	1.8	22
29	The genome of the arapaima (Arapaima gigas) provides insights into gigantism, fast growth and chromosomal sex determination system. Scientific Reports, 2019, 9, 5293.	3.3	25
30	A novel evolutionary conserved mechanism of RNA stability regulates synexpression of primordial germ cell-specific genes prior to the sex-determination stage in medaka. PLoS Biology, 2019, 17, e3000185.	5.6	8
31	Dynamic and differential expression of the gonadal aromatase during the process of sexual differentiation in a novel transgenic cyp19a1a-eGFP zebrafish line. General and Comparative Endocrinology, 2018, 261, 179-189.	1.8	16
32	The unusual rainbow trout sex determination gene hijacked the canonical vertebrate gonadal differentiation pathway. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12781-12786.	7.1	67
33	Evolution of Sex Determining Genes in Fish. , 2018, , 168-175.		3
34	CMA restricted to mammals and birds: myth or reality?. Autophagy, 2018, 14, 1267-1270.	9.1	18
35	Sox5 is involved in germ-cell regulation and sex determination in medaka following co-option of nested transposable elements. BMC Biology, 2018, 16, 16.	3.8	56
36	foxr1is a novel maternal-effect gene in fish that is required for early embryonic success. PeerJ, 2018, 6, e5534.	2.0	13

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37	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.	1.3	52
38	Functional Annotation of All Salmonid Genomes (FAASG): an international initiative supporting future salmonid research, conservation and aquaculture. BMC Genomics, 2017, 18, 484.	2.8	99
39	Compacting and correcting Trinity and Oases RNA-Seq de novo assemblies. PeerJ, 2017, 5, e2988.	2.0	105
40	The rainbow trout genome, an important landmark forÂaquaculture and genomeÂevolution. , 2016, , 21-43.		3
41	Gene evolution and gene expression after whole genome duplication in fish: the PhyloFish database. BMC Genomics, 2016, 17, 368.	2.8	288
42	Foxl2 and Its Relatives Are Evolutionary Conserved Players in Gonadal Sex Differentiation. Sexual Development, 2016, 10, 111-129.	2.0	87
43	Sexually dimorphic gene expressions in eels: useful markers for early sex assessment in a conservation context. Scientific Reports, 2016, 6, 34041.	3.3	28
44	Vertebrate sex-determining genes play musical chairs. Comptes Rendus - Biologies, 2016, 339, 258-262.	0.2	65
45	The spotted gar genome illuminates vertebrate evolution and facilitates human-teleost comparisons. Nature Genetics, 2016, 48, 427-437.	21.4	545
46	No early gender effects on energetic status and life history in a salmonid. Royal Society Open Science, 2015, 2, 150441.	2.4	6
47	Meta-Analysis of Microarray Data of Rainbow Trout Fry Gonad Differentiation Modulated by Ethynylestradiol. PLoS ONE, 2015, 10, e0135799.	2.5	10
48	Localization of steroidogenic enzymes and Foxl2a in the gonads of mature zebrafish (Danio rerio). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 188, 96-106.	1.8	29
49	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.	2.6	22
50	Heritable Targeted Inactivation of the Rainbow Trout (Oncorhynchus mykiss) Master Sex-Determining Gene Using Zinc-Finger Nucleases. Marine Biotechnology, 2014, 16, 243-250.	2.4	39
51	The rainbow trout genome provides novel insights into evolution after whole-genome duplication in vertebrates. Nature Communications, 2014, 5, 3657.	12.8	814
52	An improved PCR-based method for faster sex determination in brown trout (Salmo trutta) and Atlantic salmon (Salmo salar). Conservation Genetics Resources, 2014, 6, 825-827.	0.8	34
53	Sex hormoneâ€binding globulins characterization and gonadal gene expression during sex differentiation in the rainbow trout, Oncorhynchus mykiss. Molecular Reproduction and Development, 2014, 81, 757-765.	2.0	16
54	High Temperature Increases the Masculinization Rate of the All-Female (XX) Rainbow Trout â€œMalâ€• Population. PLoS ONE, 2014, 9, e113355.	2.5	29

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55	Divergent Expression Regulation of Gonad Development Genes in Medaka Shows Incomplete Conservation of the Downstream Regulatory Network of Vertebrate Sex Determination. Molecular Biology and Evolution, 2013, 30, 2328-2346.	8.9	65
56	The sexually dimorphic on the Yâ€chromosome gene (sdY) is a conserved maleâ€specific Yâ€chromosome sequence in many salmonids. Evolutionary Applications, 2013, 6, 486-496.	3.1	293
57	New insights regarding gonad development in European eel: evidence for a direct ovarian differentiation. Fish Physiology and Biochemistry, 2013, 39, 1129-1140.	2.3	15
58	An Immune-Related Gene Evolved into the Master Sex-Determining Gene in Rainbow Trout, OncorhynchusÂmykiss. Current Biology, 2012, 22, 1423-1428.	3.9	466
59	Ovaryâ€predominant wnt4 expression during gonadal differentiation is not conserved in the rainbow trout (Oncorhynchus mykiss). Molecular Reproduction and Development, 2012, 79, 51-63.	2.0	44
60	Expression Profiling of Wnt Signaling Genes during Gonadal Differentiation and Gametogenesis in Rainbow Trout. Sexual Development, 2011, 5, 318-329.	2.0	55
61	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. General and Comparative Endocrinology, 2011, 170, 346-355.	1.8	58
62	The duplicated rainbow trout (Oncorhynchus mykiss) Tâ€box transcription factors 1, tbx1a and tbx1b, are upâ€regulated during testicular development. Molecular Reproduction and Development, 2011, 78, 172-180.	2.0	21
63	Ovarian aromatase and estrogens: A pivotal role for gonadal sex differentiation and sex change in fish. General and Comparative Endocrinology, 2010, 165, 352-366.	1.8	555
64	Diversity and biological significance of sex hormone-binding globulin in fish, an evolutionary perspective. Molecular and Cellular Endocrinology, 2010, 316, 66-78.	3.2	27
65	Aromatase (P450arom) and 11Î²-hydroxylase (P45011Î²) genes are differentially expressed during the sex change process of the protogynous rice field eel, monopterus albus. Fish Physiology and Biochemistry, 2009, 35, 511-518.	2.3	34
66	Rainbow Trout Gonadal Masculinization Induced by Inhibition of Estrogen Synthesis Is More Physiological Than Masculinization Induced by Androgen Supplementation1. Biology of Reproduction, 2008, 78, 939-946.	2.7	100
67	Expression profiling of candidate genes during ovary-to-testis trans-differentiation in rainbow trout masculinized by androgens. General and Comparative Endocrinology, 2008, 156, 369-378.	1.8	83
68	Fish Gonadogenesis. Part II: Molecular Biology and Genomics of Sex Differentiation. Reviews in Fisheries Science, 2008, 16, 35-55.	2.1	130
69	Estrogen treatment up-regulates female genes but does not suppress all early testicular markers during rainbow trout male-to-female gonadal transdifferentiation. Journal of Molecular Endocrinology, 2008, 41, 277-288.	2.5	76
70	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.	2.8	27
71	Characterization of early molecular sex differentiation in rainbow trout, Oncorhynchus mykiss. Developmental Dynamics, 2007, 236, 2198-2206.	1.8	174
72	Androgen-induced masculinization in rainbow trout results in a marked dysregulation of early gonadal gene expression profiles. BMC Genomics, 2007, 8, 357.	2.8	59

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73	Generation of a large scale repertoire of Expressed Sequence Tags (ESTs) from normalised rainbow trout cDNA libraries. BMC Genomics, 2006, 7, 196.	2.8	71
74	Foxl2 gene and the development of the ovary: a story about goat, mouse, fish and woman. Reproduction, Nutrition, Development, 2005, 45, 377-382.	1.9	63
75	Large-Scale Temporal Gene Expression Profiling During Gonadal Differentiation and Early Gametogenesis in Rainbow Trout1. Biology of Reproduction, 2005, 73, 959-966.	2.7	168
76	An evolutionary and functional analysis of FoxL2 in rainbow trout gonad differentiation. Journal of Molecular Endocrinology, 2004, 33, 705-715.	2.5	178
77	Two Cyp19 (P450 Aromatase) Genes on Duplicated Zebrafish Chromosomes Are Expressed in Ovary or Brain. Molecular Biology and Evolution, 2001, 18, 542-550.	8.9	199
78	Steroid enzyme gene expressions during natural and androgen-induced gonadal differentiation in the rainbow trout,Oncorhynchus mykiss. The Journal of Experimental Zoology, 2001, 290, 558-566.	1.4	69
79	Search for genes involved in the temperatureâ€induced gonadal sex differentiation in the tilapia, Oreochromis niloticus. The Journal of Experimental Zoology, 2001, 290, 574-585.	1.4	46
80	Characterization of duplicated zebrafishcyp19 genes. The Journal of Experimental Zoology, 2001, 290, 709-714.	1.4	73
81	Aromatase plays a key role during normal and temperatureâ€induced sex differentiation of tilapia Oreochromis niloticus. Molecular Reproduction and Development, 2001, 59, 265-276.	2.0	162
82	17Î²-Estradiol Treatment Decreases Steroidogenic Enzyme Messenger Ribonucleic Acid Levels in the Rainbow Trout Testis*. Endocrinology, 2001, 142, 1841-1848.	2.8	62
83	17Â-Estradiol Treatment Decreases Steroidogenic Enzyme Messenger Ribonucleic Acid Levels in the Rainbow Trout Testis. Endocrinology, 2001, 142, 1841-1848.	2.8	34
84	DMRT1 expression during gonadal differentiation and spermatogenesis in the rainbow trout, Oncorhynchus mykiss. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2000, 1493, 180-187.	2.4	235
85	Title is missing!. Ecotoxicology, 2000, 9, 25-40.	2.4	34
86	Involvement of estrogens in the process of sex differentiation in two fish species: The rainbow trout (Oncorhynchus mykiss) and a tilapia (Oreochromis niloticus). Molecular Reproduction and Development, 1999, 54, 154-162.	2.0	279
87	Tâ†'A transversion 11 bp from a splice acceptor site in the human gene for steroidogenic acute regulatory protein causes congenital lipoid adrenal hyperplasia. Human Molecular Genetics, 1995, 4, 2299-2305.	2.9	120
88	A Supernumerary â€œB-Sexâ€•Chromosome Drives Male Sex Determination in the PachÃ³n Cavefish, Astyanax mexicanus. SSRN Electronic Journal, 0, , .	0.4	2