

Amaury Herpin

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

2,996
citations

185998

28
h-index

174990

52
g-index

73
all docs

73
docs citations

73
times ranked

3542
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasticity of geneâ€‘regulatory networks controlling sex determination: of masters, slaves, usual suspects, newcomers, and usurpators. <i>EMBO Reports</i> , 2015, 16, 1260-1274.	2.0	216
2	Transforming growth factor- β -related proteins: an ancestral and widespread superfamily of cytokines in metazoans. <i>Developmental and Comparative Immunology</i> , 2004, 28, 461-485.	1.0	189
3	Characterization of a Defensin from the Oyster <i>Crassostrea gigas</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 313-323.	1.6	166
4	<i>Dmrt1</i> genes at the crossroads: a widespread and central class of sexual development factors in fish. <i>FEBS Journal</i> , 2011, 278, 1010-1019.	2.2	165
5	The identification of genes from the oyster <i>Crassostrea gigas</i> that are differentially expressed in progeny exhibiting opposed susceptibility to summer mortality. <i>Gene</i> , 2004, 343, 211-220.	1.0	127
6	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
7	Transcriptional Rewiring of the Sex Determining <i>dmrt1</i> Gene Duplicate by Transposable Elements. <i>PLoS Genetics</i> , 2010, 6, e1000844.	1.5	100
8	Divergent expression patterns of <i>Sox9</i> duplicates in teleosts indicate a lineage specific subfunctionalization. <i>Development Genes and Evolution</i> , 2005, 215, 297-305.	0.4	91
9	Cross-talk between the bone morphogenetic protein pathway and other major signaling pathways results in tightly regulated cell-specific outcomes. <i>FEBS Journal</i> , 2007, 274, 2977-2985.	2.2	90
10	Specification of primordial germ cells in medaka (<i>Oryzias latipes</i>). <i>BMC Developmental Biology</i> , 2007, 7, 3.	2.1	89
11	Autosomal <i>gsdf</i> acts as a male sex initiator in the fish medaka. <i>Scientific Reports</i> , 2016, 6, 19738.	1.6	89
12	<i>Foxl2</i> and Its Relatives Are Evolutionary Conserved Players in Gonadal Sex Differentiation. <i>Sexual Development</i> , 2016, 10, 111-129.	1.1	87
13	Characterization of a Yâ€‘specific duplication/insertion of the anti-Mullerian hormone type II receptor gene based on a chromosomeâ€‘scale genome assembly of yellow perch, <i>Perca flavescens</i> . <i>Molecular Ecology Resources</i> , 2020, 20, 531-543.	2.2	76
14	miR-196 regulates axial patterning and pectoral appendage initiation. <i>Developmental Biology</i> , 2011, 357, 463-477.	0.9	74
15	Sex Determination: Switch and Suppress. <i>Current Biology</i> , 2011, 21, R656-R659.	1.8	68
16	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.	3.3	67
17	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.	3.5	65
18	Vertebrate sex-determining genes play musical chairs. <i>Comptes Rendus - Biologies</i> , 2016, 339, 258-262.	0.1	65

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19	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.	1.8	60
20	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.	1.7	56
21	Inhibition of primordial germ cell proliferation by the medaka male determining gene <i>Dmrt1bY</i> . <i>BMC Developmental Biology</i> , 2007, 7, 99.	2.1	55
22	Sequential SDF1a and b-induced mobility guides Medaka PGC migration. <i>Developmental Biology</i> , 2008, 320, 319-327.	0.9	50
23	Expanding the classical paradigm: what we have learnt from vertebrates about sex chromosome evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200097.	1.8	43
24	RADSex: A computational workflow to study sex determination using restriction site-associated DNA sequencing data. <i>Molecular Ecology Resources</i> , 2021, 21, 1715-1731.	2.2	40
25	Expression of the Male Determining Gene <i>dmrt1bY</i> and Its Autosomal Coorthologue <i>dmrt1a</i> in Medaka. <i>Sexual Development</i> , 2007, 1, 197-206.	1.1	37
26	Molecular mechanisms of sex determination and evolution of the Y-chromosome: Insights from the medakafish (<i>Oryzias latipes</i>). <i>Molecular and Cellular Endocrinology</i> , 2009, 306, 51-58.	1.6	37
27	Reconstruction of the birth of a male sex chromosome present in Atlantic herring. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24359-24368.	3.3	36
28	Regulatory back-up circuit of medaka <i>Wt1</i> co-orthologs ensures PGC maintenance. <i>Developmental Biology</i> , 2009, 325, 179-188.	0.9	34
29	A supernumerary B-sex chromosome drives male sex determination in the Pachón cavefish, <i>Astyanax mexicanus</i> . <i>Current Biology</i> , 2021, 31, 4800-4809.e9.	1.8	34
30	Structural and functional evidence for a singular repertoire of BMP receptor signal transducing proteins in the lophotrochozoan <i>Crassostrea gigas</i> suggests a shared ancestral BMP/activin pathway. <i>FEBS Journal</i> , 2005, 272, 3424-3440.	2.2	32
31	Increase of cortisol levels after temperature stress activates <i>dmrt1a</i> causing female-to-male sex reversal and reduced germ cell number in medaka. <i>Molecular Reproduction and Development</i> , 2019, 86, 1405-1417.	1.0	30
32	Defective autophagy through <i>epg5</i> mutation results in failure to reduce germ plasm and mitochondria. <i>FASEB Journal</i> , 2015, 29, 4145-4161.	0.2	29
33	Chaperone-Mediated Autophagy in the Light of Evolution: Insight from Fish. <i>Molecular Biology and Evolution</i> , 2020, 37, 2887-2899.	3.5	29
34	Structural and functional evidences for a type 1 TGF- β sensu stricto receptor in the lophotrochozoan <i>Crassostrea gigas</i> suggest conserved molecular mechanisms controlling mesodermal patterning across bilateria. <i>Mechanisms of Development</i> , 2005, 122, 695-705.	1.7	28
35	Sex chromosome and sex locus characterization in goldfish, <i>Carassius auratus</i> (Linnaeus, 1758). <i>BMC Genomics</i> , 2020, 21, 552.	1.2	28
36	Retinoic acid and meiosis induction in adult versus embryonic gonads of medaka. <i>Scientific Reports</i> , 2016, 6, 34281.	1.6	27

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37	Lessons from an unusual vertebrate sex-determining gene. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200092.	1.8	26
38	Gene structure and expression of cg -ALR1, a type I activin-like receptor from the bivalve mollusc <i>Crassostrea gigas</i> . <i>Gene</i> , 2002, 301, 21-30.	1.0	24
39	The rise and fall of the ancient northern pike master sex-determining gene. <i>ELife</i> , 2021, 10, .	2.8	24
40	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
41	Structural and functional characterizations of an Activin type II receptor orthologue from the pacific oyster <i>Crassostrea gigas</i> . <i>Gene</i> , 2009, 436, 101-107.	1.0	22
42	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.	0.8	22
43	Regulatory putesches create new ways of determining sexual development. <i>EMBO Reports</i> , 2008, 9, 966-968.	2.0	18
44	A highly conserved cis -regulatory motif directs differential gonadal synexpression of <i>Dmrt1</i> transcripts during gonad development. <i>Nucleic Acids Research</i> , 2009, 37, 1510-1520.	6.5	18
45	Ectopic Expression of Single Transcription Factors Directs Differentiation of a Medaka Spermatogonial Cell Line. <i>Stem Cells and Development</i> , 2011, 20, 1425-1438.	1.1	18
46	CMA restricted to mammals and birds: myth or reality?. <i>Autophagy</i> , 2018, 14, 1267-1270.	4.3	18
47	The replaceable master of sex determination: bottom-up hypothesis revisited. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200090.	1.8	16
48	Molecular characterization of a new leucine-rich repeat-containing G protein-coupled receptor from a bivalve mollusc: evolutionary implications. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2004, 1680, 137-144.	2.4	15
49	Analysis of a novel gene, <i>Sdgc</i> , reveals sex chromosome-dependent differences of medaka germ cells prior to gonad formation. <i>Development (Cambridge)</i> , 2014, 141, 3363-3369.	1.2	15
50	Analysis of the putative tumor suppressor gene <i>cdkn2ab</i> in pigment cells and melanoma of <i>Xiphophorus</i> and medaka. <i>Pigment Cell and Melanoma Research</i> , 2019, 32, 248-258.	1.5	15
51	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. <i>Molecular Ecology Resources</i> , 2022, 22, 2411-2428.	2.2	13
52	Diving into the Evolutionary History of HSC70-Linked Selective Autophagy Pathways: Endosomal Microautophagy and Chaperone-Mediated Autophagy. <i>Cells</i> , 2022, 11, 1945.	1.8	11
53	A tolloid homologue from the Pacific oyster <i>Crassostrea gigas</i> . <i>Gene Expression Patterns</i> , 2007, 7, 700-708.	0.3	10
54	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.	2.6	8

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55	Vertebrate sex determination: questioning the hierarchy. <i>FEBS Journal</i> , 2011, 278, 1001-1001.	2.2	7
56	Primordial Germ Cell Migration and Histological and Molecular Characterization of Gonadal Differentiation in Pach ³ n Cavefish <i>Astyanax mexicanus</i>. <i>Sexual Development</i> , 2020, 14, 80-98.	1.1	7
57	Lighting chaperone-mediated autophagy (CMA) evolution with an ancient LAMP: the existence of a functional CMA activity in fish. <i>Autophagy</i> , 2020, 16, 1918-1920.	4.3	5
58	Evolution of Sex Determining Genes in Fish. , 2018, , 168-175.		3
59	Crosstalk Between Retinoic Acid and Sex-Related Genes Controls Germ Cell Fate and Gametogenesis in Medaka. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 613497.	1.8	3
60	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
61	Sex Determination in Vertebrates. , 2018, , 159-167.		2
62	A Supernumerary "B-Sex" Chromosome Drives Male Sex Determination in the Pach ³ n Cavefish, <i>Astyanax mexicanus</i>. <i>SSRN Electronic Journal</i> , 0, .	0.4	2