

Amaury Herpin

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

2,996
citations

186265

28
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175258

52
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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. | 4.5 | 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. | 2.3 | 189 |
| 3 | Characterization of a Defensin from the Oyster <i>Crassostrea gigas</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 313-323. | 3.4 | 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. | 4.7 | 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. | 2.2 | 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. | 3.5 | 107 |
| 7 | Transcriptional Rewiring of the Sex Determining <i>dmrt1</i> Gene Duplicate by Transposable Elements. <i>PLoS Genetics</i> , 2010, 6, e1000844. | 3.5 | 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. | 0.9 | 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. | 4.7 | 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. | 3.3 | 89 |
| 12 | <i>Foxl2</i> and Its Relatives Are Evolutionary Conserved Players in Gonadal Sex Differentiation. <i>Sexual Development</i> , 2016, 10, 111-129. | 2.0 | 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. | 4.8 | 76 |
| 14 | miR-196 regulates axial patterning and pectoral appendage initiation. <i>Developmental Biology</i> , 2011, 357, 463-477. | 2.0 | 74 |
| 15 | Sex Determination: Switch and Suppress. <i>Current Biology</i> , 2011, 21, R656-R659. | 3.9 | 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. | 7.1 | 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. | 8.9 | 65 |
| 18 | Vertebrate sex-determining genes play musical chairs. <i>Comptes Rendus - Biologies</i> , 2016, 339, 258-262. | 0.2 | 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. | 4.0 | 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. | 3.8 | 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. | 2.0 | 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. | 4.0 | 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. | 4.8 | 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. | 2.0 | 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. | 3.2 | 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. | 7.1 | 36 |
| 28 | Regulatory back-up circuit of medaka <i>Wt1</i> co-orthologs ensures PGC maintenance. <i>Developmental Biology</i> , 2009, 325, 179-188. | 2.0 | 34 |
| 29 | A supernumerary B-sex chromosome drives male sex determination in the Pach ³ n cavefish, <i>Astyanax mexicanus</i> . <i>Current Biology</i> , 2021, 31, 4800-4809.e9. | 3.9 | 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. | 4.7 | 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. | 2.0 | 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. | 0.5 | 29 |
| 33 | Chaperone-Mediated Autophagy in the Light of Evolution: Insight from Fish. <i>Molecular Biology and Evolution</i> , 2020, 37, 2887-2899. | 8.9 | 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. | 2.8 | 28 |
| 36 | Retinoic acid and meiosis induction in adult versus embryonic gonads of medaka. <i>Scientific Reports</i> , 2016, 6, 34281. | 3.3 | 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. | 4.0 | 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. | 2.2 | 24 |
| 39 | The rise and fall of the ancient northern pike master sex-determining gene. <i>ELife</i> , 2021, 10, . | 6.0 | 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. | 5.5 | 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. | 2.2 | 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. | 1.8 | 22 |
| 43 | Regulatory <i>putsches</i> create new ways of determining sexual development. <i>EMBO Reports</i> , 2008, 9, 966-968. | 4.5 | 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. | 14.5 | 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. | 2.1 | 18 |
| 46 | CMA restricted to mammals and birds: myth or reality?. <i>Autophagy</i> , 2018, 14, 1267-1270. | 9.1 | 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. | 4.0 | 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. | 2.5 | 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. | 3.3 | 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. | 4.8 | 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. | 4.1 | 11 |
| 53 | A tolloid homologue from the Pacific oyster <i>Crassostrea gigas</i> . <i>Gene Expression Patterns</i> , 2007, 7, 700-708. | 0.8 | 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. | 5.6 | 8 |

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|----|---|-----|-----------|
| 55 | Vertebrate sex determination: questioning the hierarchy. <i>FEBS Journal</i> , 2011, 278, 1001-1001. | 4.7 | 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. | 2.0 | 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. | 9.1 | 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. | 3.7 | 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, . | 1.8 | 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 |