Ricard Albalat

List of Publications by Year
in descending order

63 papers	3,061 citations	257101 24 h-index	168136 53 g-index
63 all docs	63 docs citations	63 times ranked	3719 citing authors

#	Article	IF	Citations
1	Evolution by gene loss. Nature Reviews Genetics, 2016, 17, 379-391.	7.7	597
2	The amphioxus genome illuminates vertebrate origins and cephalochordate biology. Genome Research, 2008, 18, 1100-1111.	2.4	456
3	A novel effector domain from the RNA-binding protein TLS or EWS is required for oncogenic transformation by CHOP.. Genes and Development, 1994, 8, 2513-2526.	2.7	246
4	Amphioxus functional genomics and the origins of vertebrate gene regulation. Nature, 2018, 564, 64-70.	13.7	224
5	Evolution of the Nitric Oxide Synthase Family in Metazoans. Molecular Biology and Evolution, 2011, 28, 163-179.	3.5	123
6	Insights into spawning behavior and development of the european amphioxus (Branchiostoma) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54 308B, 484-493.	0.6	103
7	Impact of gene gains, losses and duplication modes on the origin and diversification of vertebrates. Seminars in Cell and Developmental Biology, 2013, 24, 83-94.	2.3	87
8	Preliminary observations on the spawning conditions of the European amphioxus (Branchiostoma) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.4	78
9	Is retinoic acid genetic machinery a chordate innovation?. Evolution & Development, 2006, 8, 394-406.	1.1	75
10	The retinoic acid machinery in invertebrates: Ancestral elements and vertebrate innovations. Molecular and Cellular Endocrinology, 2009, 313, 23-35.	1.6	63
11	Identification of Aldh1a, Cyp26 and RAR orthologs in protostomes pushes back the retinoic acid genetic machinery in evolutionary time to the bilaterian ancestor. Chemico-Biological Interactions, 2009, 178, 188-196.	1.7	60
12	Protein engineering ofDrosophilaalcohol dehydrogenase The hydroxyl group of Tyr152is involved in the active site of the enzyme. FEBS Letters, 1992, 308, 235-239.	1.3	49
13	Ascidian and Amphioxus Adh Genes Correlate Functional and Molecular Features of the ADH Family Expansion During Vertebrate Evolution. Journal of Molecular Evolution, 2002, 54, 81-89.	0.8	49
14	DNA methylation in amphioxus: from ancestral functions to new roles in vertebrates. Briefings in Functional Genomics, 2012, 11, 142-155.	1.3	43
15	Evolution of Retinoid and Steroid Signaling: Vertebrate Diversification from an Amphioxus Perspective. Genome Biology and Evolution, 2011, 3, 985-1005.	1.1	42
16	Coelimination and Survival in Gene Network Evolution: Dismantling the RA-Signaling in a Chordate. Molecular Biology and Evolution, 2016, 33, 2401-2416.	3.5	39
17	Merging protein, gene and genomic data: the evolution of the MDR-ADH family. Heredity, 2005, 95, 184-197.	1.2	38
18	Evolution of the Genetic Machinery of the Visual Cycle: A Novelty of the Vertebrate Eye?. Molecular Biology and Evolution, 2012, 29, 1461-1469.	3.5	38

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19	The ancestral retinoic acid receptor was a low-affinity sensor triggering neuronal differentiation. Science Advances, 2018, 4, eaao1261.	4.7	37
20	Amphioxus alcohol dehydrogenase is a class 3 form of single type and of structural conservation but with unique developmental expression. FEBS Journal, 2000, 267, 6511-6518.	0.2	36
21	Comparative expression analysis of Adh3 during arthropod, urochordate, cephalochordate, and vertebrate development challenges its predicted housekeeping role. Evolution & Development, 2003, 5, 157-162.	1.1	35
22	Evolution of DNA-methylation machinery: DNA methyltransferases and methyl-DNA binding proteins in the amphioxus Branchiostoma floridae. Development Genes and Evolution, 2008, 218, 691-701.	0.4	34
23	Wnt evolution and function shuffling in liberal and conservative chordate genomes. Genome Biology, 2018, 19, 98.	3.8	34
24	<i>Oikopleura dioica</i> culturing made easy: A Lowâ€Cost facility for an emerging animal model in <scp>E</scp>vo<scp>D</scp>evo. Genesis, 2015, 53, 183-193.	0.8	31
25	Identification and characterisation of the developmental expression pattern of tbx5b, a novel tbx5 gene in zebrafish. Gene Expression Patterns, 2010, 10, 24-30.	0.3	26
26	The evolutionary landscape of the Rab family in chordates. Cellular and Molecular Life Sciences, 2019, 76, 4117-4130.	2.4	25
27	S-nitrosogluthathione reductase activity of amphioxus ADH3: insights into the nitric oxide metabolism. International Journal of Biological Sciences, 2006, 2, 117-124.	2.6	24
28	Retinoic acid synthesis in the prevertebrate amphioxus involves retinol oxidation. Development Genes and Evolution, 2002, 212, 388-393.	0.4	21
29	Adh and Adh-dup sequences of Drosophila lebanonensis and D. immigrans: interspecies comparisons. Gene, 1993, 126, 171-178.	1.0	19
30	Characterization of a microsomal retinol dehydrogenase gene from amphioxus: retinoid metabolism before vertebrates. Chemico-Biological Interactions, 2001, 130-132, 359-370.	1.7	19
31	Metal binding functions of metallothioneins in the slug<i>Arion vulgaris</i>differ from metal-specific isoforms of terrestrial snails. Metallomics, 2018, 10, 1638-1654.	1.0	19
32	Involvement of the C-terminal Tail in the Activity of Drosophila Alcohol Dehydrogenase. Evaluation of Truncated Proteins Constructed by Site-Directed Mutagenesis. FEBS Journal, 1995, 233, 498-505.	0.2	17
33	The first non-LTR retrotransposon characterised in the cephalochordate amphioxus, BfCR1, shows similarities to CR1-like elements. Cellular and Molecular Life Sciences, 2003, 60, 803-809.	2.4	16
34	The non-LTR retrotransposons in Ciona intestinalis: new insights into the evolution of chordate genomes. Genome Biology, 2003, 4, R73.	13.9	16
35	Transposon diversity is higher in amphioxus than in vertebrates: functional and evolutionary inferences. Briefings in Functional Genomics, 2012, 11, 131-141.	1.3	16
36	Metallomics reveals a persisting impact of cadmium on the evolution of metal-selective snail metallothioneins. Metallomics, 2020, 12, 702-720.	1.0	15

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37	Analysis of the NADHâ€dependent retinaldehyde reductase activity of amphioxus retinol dehydrogenase enzymes enhances our understanding of the evolution of the retinol dehydrogenase family. FEBS Journal, 2007, 274, 3739-3752.	2.2	14
38	Biomphalaria glabrata Metallothionein: Lacking Metal Specificity of the Protein and Missing Gene Upregulation Suggest Metal Sequestration by Exchange Instead of through Selective Binding. International Journal of Molecular Sciences, 2017, 18, 1457.	1.8	14
39	Metallothioneins of the urochordate<i>Oikopleura dioica</i>have Cys-rich tandem repeats, large size and cadmium-binding preference. Metallomics, 2018, 10, 1585-1594.	1.0	14
40	Cardiopharyngeal deconstruction and ancestral tunicate sessility. Nature, 2021, 599, 431-435.	13.7	13
41	Drosophila lebanonensisADH: analysis of recombinant wild-type enzyme and site-directed mutants. FEBS Letters, 1994, 341, 171-176.	1.3	12
42	Diatom bloom-derived biotoxins cause aberrant development and gene expression in the appendicularian chordate Oikopleura dioica. Communications Biology, 2018, 1, 121.	2.0	12
43	Modularity in Protein Evolution: Modular Organization and De Novo Domain Evolution in Mollusk Metallothioneins. Molecular Biology and Evolution, 2021, 38, 424-436.	3.5	12
44	Massive Gene Loss and Function Shuffling in Appendicularians Stretch the Boundaries of Chordate Wnt Family Evolution. Frontiers in Cell and Developmental Biology, 2021, 9, 700827.	1.8	12
45	Characterization of the amphioxus presenilin gene in a high gene-density genomic region illustrates duplication during the vertebrate lineage. Gene, 2001, 279, 157-164.	1.0	11
46	Oikopleura dioica Alcohol Dehydrogenase Class 3 Provides New Insights into the Evolution of Retinoic Acid Synthesis in Chordates. Zoological Science, 2010, 27, 128.	0.3	10
47	Oikopleura dioica: An Emergent Chordate Model to Study the Impact of Gene Loss on the Evolution of the Mechanisms of Development. Results and Problems in Cell Differentiation, 2019, 68, 63-105.	0.2	10
48	Minisatellite instability at the Adh locus reveals somatic polymorphism in amphioxus. Nucleic Acids Research, 2002, 30, 2871-2876.	6.5	8
49	Two Unconventional Metallothioneins in the Apple Snail Pomacea bridgesii Have Lost Their Metal Specificity during Adaptation to Freshwater Habitats. International Journal of Molecular Sciences, 2021, 22, 95.	1.8	7
50	Getting closer to a pre-vertebrate genome: the non-LTR retrotransposons of Branchiostoma floridae. International Journal of Biological Sciences, 2006, 2, 48-53.	2.6	7
51	Nucleotide sequence of theAdhgene ofDrosophila lebanonensis. Nucleic Acids Research, 1990, 18, 6706-6706.	6.5	6
52	Endogenous Î²-galactosidase activity in amphioxus: a useful histochemical marker for the digestive system. Development Genes and Evolution, 2001, 211, 154-156.	0.4	6
53	Analysis of planarian Adh3 supports an intron-rich architecture and tissue-specific expression for the urbilaterian ancestral form. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2007, 146, 489-495.	0.7	6
54	Developmental atlas of appendicularian Oikopleura dioica actins provides new insights into the evolution of the notochord and the cardio-paraxial muscle in chordates. Developmental Biology, 2019, 448, 260-270.	0.9	6

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55	Tunicates Illuminate the Enigmatic Evolution of Chordate Metallothioneins by Gene Gains and Losses, Independent Modular Expansions, and Functional Convergences. Molecular Biology and Evolution, 2021, 38, 4435-4448.	3.5	6
56	Metal-Specificity Divergence between Metallothioneins of Nerita peloronta (Neritimorpha,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td Journal of Molecular Sciences, 2021, 22, 13114.	1.8	6
57	Isolation and characterization of the first non-autonomous transposable element in amphioxus, ATE-1. Gene, 2003, 318, 69-73.	1.0	5
58	The Xenopus alcohol dehydrogenase gene family: characterization and comparative analysis incorporating amphibian and reptilian genomes. BMC Genomics, 2014, 15, 216.	1.2	5
59	Modular Evolution and Population Variability of Oikopleura dioica Metallothioneins. Frontiers in Cell and Developmental Biology, 2021, 9, 702688.	1.8	5
60	Localization and Characterization of the RNA Binding Protein TLS in Skin and Stratified Mucosa. Journal of Investigative Dermatology, 1998, 110, 277-281.	0.3	4
61	Nucleotide sequence of theAdhgene ofDrosophila lebanonensis. Nucleic Acids Research, 1991, 19, 424-424.	6.5	0
62	A statistical analysis of nucleotide substitutions in the Drosophila Adh region reflects irregularities in molecular clocks.. Genes and Genetic Systems, 2001, 76, 209-212.	0.2	0
63	15-P010 Evolutionary shifts in ALDH structure suggest transitions between pleiotropic and patterning functions. Mechanisms of Development, 2009, 126, S250.	1.7	0