Cristian CaÃ±estro

List of Publications by Year
in descending order

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		236925	206112
48	3,550	25	48
papers	citations	h-index	g-index

50	50	50	4679
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evolution by gene loss. Nature Reviews Genetics, 2016, 17, 379-391.	16.3	597
2	The spotted gar genome illuminates vertebrate evolution and facilitates human-teleost comparisons. Nature Genetics, 2016, 48, 427-437.	21.4	545
3	Characterization and expression pattern of zebrafish anti-MÃ¼llerian hormone (amh) relative to sox9a, sox9b, and cyp19a1a, during gonad development. Gene Expression Patterns, 2005, 5, 655-667.	0.8	342
4	Plasticity of Animal Genome Architecture Unmasked by Rapid Evolution of a Pelagic Tunicate. Science, 2010, 330, 1381-1385.	12.6	251
5	Amphioxus functional genomics and the origins of vertebrate gene regulation. Nature, 2018, 564, 64-70.	27.8	224
6	Sex Reversal in Zebrafish fancl Mutants Is Caused by Tp53-Mediated Germ Cell Apoptosis. PLoS Genetics, 2010, 6, e1001034.	3.5	175
7	Evolutionary developmental biology and genomics. Nature Reviews Genetics, 2007, 8, 932-942.	16.3	115
8	Development of the central nervous system in the larvacean Oikopleura dioica and the evolution of the chordate brain. Developmental Biology, 2005, 285, 298-315.	2.0	107
9	Roles of brca2 (fancd1) in Oocyte Nuclear Architecture, Gametogenesis, Gonad Tumors, and Genome Stability in Zebrafish. PLoS Genetics, 2011, 7, e1001357.	3.5	91
10	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.	5.0	87
11	Retinoic Acid Metabolic Genes, Meiosis, and Gonadal Sex Differentiation in Zebrafish. PLoS ONE, 2013, 8, e73951.	2.5	83
12	Is retinoic acid genetic machinery a chordate innovation?. Evolution & Development, 2006, 8, 394-406.	2.0	75
13	Development of a chordate anteriorâ€“posterior axis without classical retinoic acid signaling. Developmental Biology, 2007, 305, 522-538.	2.0	71
14	Consequences of Lineage-Specific Gene Loss on Functional Evolution of Surviving Paralogs: ALDH1A and Retinoic Acid Signaling in Vertebrate Genomes. PLoS Genetics, 2009, 5, e1000496.	3.5	69
15	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.	4.0	60
16	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.	1.8	49
17	DNA methylation in amphioxus: from ancestral functions to new roles in vertebrates. Briefings in Functional Genomics, 2012, 11, 142-155.	2.7	43
18	Coelimination and Survival in Gene Network Evolution: Dismantling the RA-Signaling in a Chordate. Molecular Biology and Evolution, 2016, 33, 2401-2416.	8.9	39

#	ARTICLE	IF	CITATIONS
19	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
20	Comparative expression analysis of Adh3 during arthropod, urochordate, cephalochordate, and vertebrate development challenges its predicted housekeeping role. Evolution & Development, 2003, 5, 157-162.	2.0	35
21	Seeing chordate evolution through the Ciona genome sequence. Genome Biology, 2003, 4, 208.	9.6	35
22	Evolution of developmental roles of Pax2/5/8paralogs after independent duplication in urochordate and vertebrate lineages. BMC Biology, 2008, 6, 35.	3.8	34
23	Wnt evolution and function shuffling in liberal and conservative chordate genomes. Genome Biology, 2018, 19, 98.	8.8	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.	1.6	31
25	Evolution of the thyroid: Anteriorâ€"posterior regionalization of the<i>Oikopleura</i>endostyle revealed by<i>Otx</i>,<i>Pax2/5/8</i>, and<i>Hox1</i>expression. Developmental Dynamics, 2008, 237, 1490-1499.	1.8	28
26	The Fanconi anemia/BRCA gene network in zebrafish: Embryonic expression and comparative genomics. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2009, 668, 117-132.	1.0	27
27	Evolution of developmental regulation in the vertebrate <i>FgfD</i> subfamily. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2010, 314B, 33-56.	1.3	24
28	Characterization of a microsomal retinol dehydrogenase gene from amphioxus: retinoid metabolism before vertebrates. Chemico-Biological Interactions, 2001, 130-132, 359-370.	4.0	19
29	Two Rounds of Whole-Genome Duplication: Evidence and Impact on the Evolution of Vertebrate Innovations. , 2012, , 309-339.		19
30	Pth4, an ancient parathyroid hormone lost in eutherian mammals, reveals a new brainâ€toâ€bone signaling pathway. FASEB Journal, 2017, 31, 569-583.	0.5	17
31	PTH Reloaded: A New Evolutionary Perspective. Frontiers in Physiology, 2017, 8, 776.	2.8	17
32	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.	5.4	16
33	Transposon diversity is higher in amphioxus than in vertebrates: functional and evolutionary inferences. Briefings in Functional Genomics, 2012, 11, 131-141.	2.7	16
34	Metallothioneins of the urochordate<i>Oikopleura dioica</i>have Cys-rich tandem repeats, large size and cadmium-binding preference. Metallomics, 2018, 10, 1585-1594.	2.4	14
35	Cardiopharyngeal deconstruction and ancestral tunicate sessility. Nature, 2021, 599, 431-435.	27.8	13
36	Diatom bloom-derived biotoxins cause aberrant development and gene expression in the appendicularian chordate Oikopleura dioica. Communications Biology, 2018, 1, 121.	4.4	12

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37	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.	3.7	12
38	Characterization of the amphioxus presenilin gene in a high gene-density genomic region illustrates duplication during the vertebrate lineage. Gene, 2001, 279, 157-164.	2.2	11
39	Oikopleura dioica Alcohol Dehydrogenase Class 3 Provides New Insights into the Evolution of Retinoic Acid Synthesis in Chordates. Zoological Science, 2010, 27, 128.	0.7	10
40	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.	0.7	10
41	Minisatellite instability at the Adh locus reveals somatic polymorphism in amphioxus. Nucleic Acids Research, 2002, 30, 2871-2876.	14.5	8
42	Endogenous Î²-galactosidase activity in amphioxus: a useful histochemical marker for the digestive system. Development Genes and Evolution, 2001, 211, 154-156.	0.9	6
43	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.	2.0	6
44	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.	8.9	6
45	Isolation and characterization of the first non-autonomous transposable element in amphioxus, ATE-1. Gene, 2003, 318, 69-73.	2.2	5
46	Modular Evolution and Population Variability of Oikopleura dioica Metallothioneins. Frontiers in Cell and Developmental Biology, 2021, 9, 702688.	3.7	5
47	Reporter Analyses Reveal Redundant Enhancers that Confer Robustness on Cis-Regulatory Mechanisms. Advances in Experimental Medicine and Biology, 2018, 1029, 69-79.	1.6	3
48	Gene losses did not stop the evolution of big brains. ELife, 2018, 7, .	6.0	1