Cristian CaÃ±estro

List of Publications by Year
in descending order

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48 papers	3,550 citations	236925 25 h-index	206112 48 g-index
50 all docs	50 docs citations	50 times ranked	4679 citing authors

#	Article	IF	Citations
1	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
2	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
3	Modular Evolution and Population Variability of Oikopleura dioica Metallothioneins. Frontiers in Cell and Developmental Biology, 2021, 9, 702688.	3.7	5
4	Cardiopharyngeal deconstruction and ancestral tunicate sessility. Nature, 2021, 599, 431-435.	27.8	13
5	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
6	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
7	Metallothioneins of the urochordateOikopleura dioicahave Cys-rich tandem repeats, large size and cadmium-binding preference. Metallomics, 2018, 10, 1585-1594.	2.4	14
8	Amphioxus functional genomics and the origins of vertebrate gene regulation. Nature, 2018, 564, 64-70.	27.8	224
9	Wnt evolution and function shuffling in liberal and conservative chordate genomes. Genome Biology, 2018, 19, 98.	8.8	34
10	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
11	Diatom bloom-derived biotoxins cause aberrant development and gene expression in the appendicularian chordate Oikopleura dioica. Communications Biology, 2018, 1, 121.	4.4	12
12	Gene losses did not stop the evolution of big brains. ELife, 2018, 7, .	6.0	1
13	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
14	PTH Reloaded: A New Evolutionary Perspective. Frontiers in Physiology, 2017, 8, 776.	2.8	17
15	Evolution by gene loss. Nature Reviews Genetics, 2016, 17, 379-391.	16.3	597
16	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
17	The spotted gar genome illuminates vertebrate evolution and facilitates human-teleost comparisons. Nature Genetics, 2016, 48, 427-437.	21.4	545
18	Oikopleura dioica 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

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19	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
20	Retinoic Acid Metabolic Genes, Meiosis, and Gonadal Sex Differentiation in Zebrafish. PLoS ONE, 2013, 8, e73951.	2.5	83
21	Two Rounds of Whole-Genome Duplication: Evidence and Impact on the Evolution of Vertebrate Innovations. , 2012, , 309-339.		19
22	Transposon diversity is higher in amphioxus than in vertebrates: functional and evolutionary inferences. Briefings in Functional Genomics, 2012, 11, 131-141.	2.7	16
23	DNA methylation in amphioxus: from ancestral functions to new roles in vertebrates. Briefings in Functional Genomics, 2012, 11, 142-155.	2.7	43
24	Roles of brca2 (fancd1) in Oocyte Nuclear Architecture, Gametogenesis, Gonad Tumors, and Genome Stability in Zebrafish. PLoS Genetics, 2011, 7, e1001357.	3.5	91
25	Evolution of developmental regulation in the vertebrate FgfD subfamily. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2010, 314B, 33-56.	1.3	24
26	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
27	Sex Reversal in Zebrafish fancl Mutants Is Caused by Tp53-Mediated Germ Cell Apoptosis. PLoS Genetics, 2010, 6, e1001034.	3.5	175
28	Plasticity of Animal Genome Architecture Unmasked by Rapid Evolution of a Pelagic Tunicate. Science, 2010, 330, 1381-1385.	12.6	251
29	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
30	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
31	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
32	Evolution of developmental roles of Pax2/5/8paralogs after independent duplication in urochordate and vertebrate lineages. BMC Biology, 2008, 6, 35.	3.8	34
33	Evolution of the thyroid: Anteriorâ€“posterior regionalization of theOikopleuraendostyle revealed byOtx,Pax2/5/8, andHox1expression. Developmental Dynamics, 2008, 237, 1490-1499.	1.8	28
34	Development of a chordate anteriorâ€“posterior axis without classical retinoic acid signaling. Developmental Biology, 2007, 305, 522-538.	2.0	71
35	Evolutionary developmental biology and genomics. Nature Reviews Genetics, 2007, 8, 932-942.	16.3	115
36	Is retinoic acid genetic machinery a chordate innovation?. Evolution & Development, 2006, 8, 394-406.	2.0	75

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37	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
38	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
39	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
40	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
41	Isolation and characterization of the first non-autonomous transposable element in amphioxus, ATE-1. Gene, 2003, 318, 69-73.	2.2	5
42	Seeing chordate evolution through the Ciona genome sequence. Genome Biology, 2003, 4, 208.	9.6	35
43	Minisatellite instability at the Adh locus reveals somatic polymorphism in amphioxus. Nucleic Acids Research, 2002, 30, 2871-2876.	14.5	8
44	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
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.	2.2	11
46	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
47	Characterization of a microsomal retinol dehydrogenase gene from amphioxus: retinoid metabolism before vertebrates. Chemico-Biological Interactions, 2001, 130-132, 359-370.	4.0	19
48	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