Paola Oliveri

List of Publications by Year
in descending order

58 papers	8,236 citations	117625 34 h-index	138484 58 g-index
65 all docs	65 docs citations	65 times ranked	9871 citing authors

#	Article	IF	Citations
1	Direct multiplexed measurement of gene expression with color-coded probe pairs. Nature Biotechnology, 2008, 26, 317-325.	17.5	1,832
2	A Genomic Regulatory Network for Development. Science, 2002, 295, 1669-1678.	12.6	1,399
3	The Genome of the Sea Urchin <i>Strongylocentrotus purpuratus</i>. Science, 2006, 314, 941-952.	12.6	1,018
4	Global regulatory logic for specification of an embryonic cell lineage. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5955-5962.	7.1	354
5	A Provisional Regulatory Gene Network for Specification of Endomesoderm in the Sea Urchin Embryo. Developmental Biology, 2002, 246, 162-190.	2.0	319
6	Small Bilaterian Fossils from 40 to 55 Million Years Before the Cambrian. Science, 2004, 305, 218-222.	12.6	259
7	A Regulatory Gene Network That Directs Micromere Specification in the Sea Urchin Embryo. Developmental Biology, 2002, 246, 209-228.	2.0	234
8	Sea urchin Forkhead gene family: Phylogeny and embryonic expression. Developmental Biology, 2006, 300, 49-62.	2.0	192
9	Precambrian animal diversity: Putative phosphatized embryos from the Doushantuo Formation of China. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 4457-4462.	7.1	170
10	Alx1, a member of the Cart1/Alx3/Alx4 subfamily of Paired-class homeodomain proteins, is an essential component of the gene network controlling skeletogenic fate specification in the sea urchin embryo. Development (Cambridge), 2003, 130, 2917-2928.	2.5	170
11	Precambrian Animal Life: Probable Developmental and Adult Cnidarian Forms from Southwest China. Developmental Biology, 2002, 248, 182-196.	2.0	150
12	Gene regulatory network controlling embryonic specification in the sea urchin. Current Opinion in Genetics and Development, 2004, 14, 351-360.	3.3	140
13	A missing link in the sea urchin embryo gene regulatory network: <i>hesC</i> and the double-negative specification of micromeres. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12383-12388.	7.1	132
14	Activation of pmar1 controls specification of micromeres in the sea urchin embryo. Developmental Biology, 2003, 258, 32-43.	2.0	128
15	Repression of mesodermal fate by foxa, a key endoderm regulator of the sea urchin embryo. Development (Cambridge), 2006, 133, 4173-4181.	2.5	116
16	Phylogenomic analysis of echinoderm class relationships supports Asterozoa. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140479.	2.6	102
17	Vasa protein expression is restricted to the small micromeres of the sea urchin, but is inducible in other lineages early in development. Developmental Biology, 2008, 314, 276-286.	2.0	101
18	Sex and Pubertal Differences in the Type 1 Interferon Pathway Associate With Both X Chromosome Number and Serum Sex Hormone Concentration. Frontiers in Immunology, 2018, 9, 3167.	4.8	87

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19	The Cryptochrome/Photolyase Family in aquatic organisms. Marine Genomics, 2014, 14, 23-37.	1.1	81
20	Expression of an NK2 homeodomain gene in the apical ectoderm defines a new territory in the early sea urchin embryo. Developmental Biology, 2004, 269, 152-164.	2.0	71
21	An ancient role for Gata-1/2/3 and Scl transcription factor homologs in the development of immunocytes. Developmental Biology, 2013, 382, 280-292.	2.0	69
22	Environmental Controls on the Taphonomy of Phosphatized Animals and Animal Embryos from the Neoproterozoic Doushantuo Formation, Southwest China. Palaios, 2006, 21, 3-14.	1.3	67
23	Myogenesis in the sea urchin embryo: the molecular fingerprint of the myoblast precursors. EvoDevo, 2013, 4, 33.	3.2	62
24	Evolutionary transition between invertebrates and vertebrates via methylation reprogramming in embryogenesis. National Science Review, 2019, 6, 993-1003.	9.5	58
25	High regulatory gene use in sea urchin embryogenesis: Implications for bilaterian development and evolution. Developmental Biology, 2006, 300, 27-34.	2.0	57
26	A cnidarian homologue of an insect gustatory receptor functions in developmental body patterning. Nature Communications, 2015, 6, 6243.	12.8	57
27	Molecular characterization of the apical organ of the anthozoan Nematostella vectensis. Developmental Biology, 2015, 398, 120-133.	2.0	52
28	Expression of skeletogenic genes during arm regeneration in the brittle star Amphiura filiformis. Gene Expression Patterns, 2013, 13, 464-472.	0.8	50
29	NAD kinase controls animal NADP biosynthesis and is modulated via evolutionarily divergent calmodulin-dependent mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1386-1391.	7.1	49
30	Large-scale gene expression study in the ophiuroid Amphiura filiformis provides insights into evolution of gene regulatory networks. EvoDevo, 2016, 7, 2.	3.2	44
31	DEVELOPMENT: Built to Run, Not Fail. Science, 2007, 315, 1510-1511.	12.6	43
32	Discovery of sea urchin NGFFFamide receptor unites a bilaterian neuropeptide family. Open Biology, 2015, 5, 150030.	3.6	42
33	Homeobox-containing gene transiently expressed in a spatially restricted pattern in the early sea urchin embryo.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 8180-8184.	7.1	39
34	A protocol for unraveling gene regulatory networks. Nature Protocols, 2008, 3, 1876-1887.	12.0	38
35	Skeletal regeneration in the brittle star Amphiura filiformis. Frontiers in Zoology, 2016, 13, 18.	2.0	38
36	Response to Comment on "Small Bilaterian Fossils from 40 to 55 Million Years Before the Cambrian". Science, 2004, 306, 1291b-1291b.	12.6	35

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37	Precambrian animal life: Taphonomy of phosphatized metazoan embryos from southwest China. Lethaia, 2005, 38, 101-109.	1.4	31
38	Developmental transcriptomics of the brittle star Amphiura filiformis reveals gene regulatory network rewiring in echinoderm larval skeleton evolution. Genome Biology, 2018, 19, 26.	8.8	30
39	The cis-regulatory system of the tbrain gene: Alternative use of multiple modules to promote skeletogenic expression in the sea urchin embryo. Developmental Biology, 2009, 335, 428-441.	2.0	29
40	Regeneration in Stellate Echinoderms: Crinoidea, Asteroidea and Ophiuroidea. Results and Problems in Cell Differentiation, 2018, 65, 285-320.	0.7	29
41	cis-Regulatory activity of randomly chosen genomic fragments from the sea urchin. Gene Expression Patterns, 2004, 4, 205-213.	0.8	27
42	Neuropeptidergic Systems in Pluteus Larvae of the Sea Urchin Strongylocentrotus purpuratus: Neurochemical Complexity in a â€œSimpleâ€•Nervous System. Frontiers in Endocrinology, 2018, 9, 628.	3.5	27
43	Gene Regulatory Network Analysis in Sea Urchin Embryos. Methods in Cell Biology, 2004, 74, 775-794.	1.1	26
44	New Neuronal Subtypes With a â€œPre-Pancreaticâ€•Signature in the Sea Urchin Stongylocentrotus purpuratus. Frontiers in Endocrinology, 2018, 9, 650.	3.5	24
45	Fundamental aspects of arm repair phase in two echinoderm models. Developmental Biology, 2018, 433, 297-309.	2.0	21
46	Expression of homeobox-containing genes in the sea urchin (Parancentrotus lividus) embryo. Genetica, 1994, 94, 141-150.	1.1	20
47	Post-metamorphic skeletal growth in the sea urchin Paracentrotus lividus and implications for body plan evolution. EvoDevo, 2021, 12, 3.	3.2	18
48	FGF signalling plays similar roles in development and regeneration of the skeleton in the brittle star <i>Amphiura filiformis</i>. Development (Cambridge), 2021, 148, .	2.5	18
49	Quantitative imaging of cis-regulatory reporters in living embryos. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12895-12900.	7.1	17
50	Ultrastructural and molecular analysis of the origin and differentiation of cells mediating brittle star skeletal regeneration. BMC Biology, 2021, 19, 9.	3.8	17
51	Maristemâ€"Stem Cells of Marine/Aquatic Invertebrates: From Basic Research to Innovative Applications. Sustainability, 2018, 10, 526.	3.2	9
52	The Development and Neuronal Complexity of Bipinnaria Larvae of the Sea Star <i>Asterias rubens</i>. Integrative and Comparative Biology, 2021, 61, 337-351.	2.0	8
53	Non-directional Photoreceptors in the Pluteus of Strongylocentrotus purpuratus. Frontiers in Ecology and Evolution, 2016, 4, .	2.2	7
54	Evolution of lineage-specific functions in ancient <i>cis</i> -regulatory modules. Open Biology, 2015, 5, 150079.	3.6	6

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55	A conceptual history of the â€œregulatory genomeâ€: From Theodor Boveri to Eric Davidson. Marine Genomics, 2019, 44, 24-31.	1.1	3
56	Extracellular matrix gene expression during arm regeneration in Amphiura filiformis. Cell and Tissue Research, 2020, 381, 411-426.	2.9	3
57	Gene expression during early embryogenesis of sea urchin: the histone and homeobox genes. Invertebrate Reproduction and Development, 1997, 31, 11-19.	0.8	0
58	Unravelling the evolutionary history of kisspeptin. ELife, 2020, 9, .	6.0	0