James A Coffman

List of Publications by Year
in descending order

51 papers	2,760 citations	304743 22 h-index	206112 48 g-index
53 all docs	53 docs citations	53 times ranked	2789 citing authors

#	Article	IF	Citations
1	The Genome of the Sea Urchin <i>Strongylocentrotus purpuratus</i>. Science, 2006, 314, 941-952.	12.6	1,018
2	Runx transcription factors and the developmental balance between cell proliferation and differentiation. Cell Biology International, 2003, 27, 315-324.	3.0	173
3	The genomic underpinnings of apoptosis in Strongylocentrotus purpuratus. Developmental Biology, 2006, 300, 321-334.	2.0	111
4	Oralâ€"aboral axis specification in the sea urchin embryo. Developmental Biology, 2004, 273, 160-171.	2.0	101
5	Oralâ€"Aboral Axis Specification in the Sea Urchin Embryo. Developmental Biology, 2001, 230, 18-28.	2.0	94
6	Structural analysis of proteins by capillary HPLC electrospray tandem mass spectrometry. International Journal of Mass Spectrometry and Ion Processes, 1991, 111, 131-149.	1.8	86
7	The sea urchin kinome: A first look. Developmental Biology, 2006, 300, 180-193.	2.0	84
8	The evolution of Runx genes I. A comparative study of sequences from phylogenetically diverse model organisms. BMC Evolutionary Biology, 2003, 3, 4.	3.2	81
9	Cis-regulatory control of the nodal gene, initiator of the sea urchin oral ectoderm gene network. Developmental Biology, 2007, 306, 860-869.	2.0	78
10	Cell Cycle Development. Developmental Cell, 2004, 6, 321-327.	7.0	77
11	A hyaline layer protein that becomes localized to the oral ectoderm and foregut of sea urchin embryos. Developmental Biology, 1990, 140, 93-104.	2.0	72
12	Oralâ€"aboral axis specification in the sea urchin embryo. Developmental Biology, 2009, 330, 123-130.	2.0	69
13	Cortisol-treated zebrafish embryos develop into pro-inflammatory adults with aberrant immune gene regulation. Biology Open, 2016, 5, 1134-1141.	1.2	61
14	SpRunt-1, a New Member of the Runt Domain Family of Transcription Factors, Is a Positive Regulator of the Aboral Ectoderm-SpecificCyIIIAGene in Sea Urchin Embryos. Developmental Biology, 1996, 174, 43-54.	2.0	59
15	The genomic repertoire for cell cycle control and DNA metabolism in S. purpuratus. Developmental Biology, 2006, 300, 238-251.	2.0	48
16	Mitochondria, redox signaling and axis specification in metazoan embryos. Developmental Biology, 2007, 308, 266-280.	2.0	43
17	Gene Expression Changes Associated With the Developmental Plasticity of Sea Urchin Larvae in Response to Food Availability. Biological Bulletin, 2015, 228, 171-180.	1.8	38
18	The expression of SpRunt during sea urchin embryogenesis. Mechanisms of Development, 2002, 117, 327-330.	1.7	37

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19	SpGCF1, a Sea Urchin Embryo DNA-Binding Protein, Exists as Five Nested Variants Encoded by a Single mRNA. Developmental Biology, 1995, 169, 713-727.	2.0	31
20	Expression of spatially regulated genes in the sea urchin embryo. Current Opinion in Genetics and Development, 1992, 2, 260-268.	3.3	30
21	Evaluation of developmental phenotypes produced by morpholino antisense targeting of a sea urchin Runx gene. BMC Biology, 2004, 2, 6.	3.8	27
22	Is Runx a linchpin for developmental signaling in metazoans?. Journal of Cellular Biochemistry, 2009, 107, 194-202.	2.6	24
23	Klf9 is a key feedforward regulator of the transcriptomic response to glucocorticoid receptor activity. Scientific Reports, 2020, 10, 11415.	3.3	24
24	Runx Expression Is Mitogenic and Mutually Linked to Wnt Activity in Blastula-Stage Sea Urchin Embryos. PLoS ONE, 2008, 3, e3770.	2.5	22
25	Oralâ€"aboral axis specification in the sea urchin embryo, IV: Hypoxia radializes embryos by preventing the initial spatialization of nodal activity. Developmental Biology, 2014, 386, 302-307.	2.0	22
26	Redox regulation of development and regeneration. Current Opinion in Genetics and Development, 2019, 57, 9-15.	3.3	22
27	Developmental Ascendency: From Bottom-up to Top-down Control. Biological Theory, 2006, 1, 165-178.	1.5	21
28	Runx-dependent expression of PKC is critical for cell survival in the sea urchin embryo. BMC Biology, 2005, 3, 18.	3.8	20
29	Mitochondria and metazoan epigenesis. Seminars in Cell and Developmental Biology, 2009, 20, 321-329.	5.0	18
30	Simple and fast quantification of DNA damage by real-time PCR, and its application to nuclear and mitochondrial DNA from multiple tissues of aging zebrafish. BMC Research Notes, 2017, 10, 269.	1.4	17
31	The evolution of Runx genes II. The C-terminal Groucho recruitment motif is present in both eumetazoans and homoscleromorphs but absent in a haplosclerid demosponge. BMC Research Notes, 2009, 2, 59.	1.4	13
32	Chronic stress, physiological adaptation and developmental programming of the neuroendocrine stress system. Future Neurology, 2020, 15, FNL39.	0.5	13
33	CBFbeta is a facultative Runx partner in the sea urchin embryo. BMC Biology, 2006, 4, 4.	3.8	12
34	Comparative biology of tissue repair, regeneration and aging. Npj Regenerative Medicine, 2016, 1, .	5.2	12
35	On Causality in Nonlinear Complex Systems. , 2011, , 287-309.		11
36	Oxygen, pH, and oral-aboral axis specification in the sea urchin embryo. Molecular Reproduction and Development, 2011, 78, 68-68.	2.0	10

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37	<i>Nodal</i>â€mediated epigenesis requires dynaminâ€mediated endocytosis. Developmental Dynamics, 2011, 240, 704-711.	1.8	10
38	Glucocorticoid-Mediated Developmental Programming of Vertebrate Stress Responsivity. Frontiers in Physiology, 2021, 12, 812195.	2.8	10
39	On the Meaning of Chance in Biology. Biosemiotics, 2014, 7, 377-388.	1.4	8
40	An Elk transcription factor is required for Runx-dependent survival signaling in the sea urchin embryo. Developmental Biology, 2016, 416, 173-186.	2.0	8
41	Chronic cortisol exposure in early development leads to neuroendocrine dysregulation in adulthood. BMC Research Notes, 2020, 13, 366.	1.4	8
42	Glucocorticoid-Responsive Transcription Factor KrÃ¼ppel-Like Factor 9 Regulates fkbp5 and Metabolism. Frontiers in Cell and Developmental Biology, 2021, 9, 727037.	3.7	7
43	Developmental cis-regulatory analysis of the cyclin D gene in the sea urchin Strongylocentrotus purpuratus. Biochemical and Biophysical Research Communications, 2013, 440, 413-418.	2.1	6
44	Sea urchin <i>akt</i> activity is Runx-dependent and required for post-cleavage stage cell division. Biology Open, 2013, 2, 472-478.	1.2	6
45	Information as a Manifestation of Development. Information (Switzerland), 2011, 2, 102-116.	2.9	5
46	Identification of Sequence-Specific DNA Binding Proteins. Methods in Cell Biology, 2004, 74, 653-675.	1.1	4
47	On reductionism, organicism, somatic mutations and cancer. BioEssays, 2005, 27, 459-459.	2.5	4
48	Ping Aoâ€”Darwinian Dynamics Implies Developmental Ascendency (Biological Theory 2: 113â€“115, 2007). Biological Theory, 2007, 2, 179-180.	1.5	2
49	Mitochondrial patterns and function in animal development. Seminars in Cell and Developmental Biology, 2009, 20, 320.	5.0	1
50	Interview with James Coffman: early-life stress in adult illness. Future Neurology, 2017, 12, 9-11.	0.5	0
51	Why Functional Genomics Is the Central Concern of Biology and the Hard Problem of Abiogenesis. Springer Proceedings in Complexity, 2019, , 327-337.	0.3	0