

Gregory A Wray

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67

papers

4,133

citations

26

h-index

64

g-index

89

ext. papers

5,080

ext. citations

8.5

avg, IF

5.97

L-index

#	Paper	IF	Citations
67	The evolutionary significance of cis-regulatory mutations. <i>Nature Reviews Genetics</i> , 2007 , 8, 206-16	30.1	1062
66	The evolution of transcriptional regulation in eukaryotes. <i>Molecular Biology and Evolution</i> , 2003 , 20, 1378-419	8.4	842
65	Promoter regions of many neural- and nutrition-related genes have experienced positive selection during human evolution. <i>Nature Genetics</i> , 2007 , 39, 1140-4	36.3	221
64	Human-chimpanzee differences in a FZD8 enhancer alter cell-cycle dynamics in the developing neocortex. <i>Current Biology</i> , 2015 , 25, 772-779	6.3	142
63	The evolution of developmental strategy in marine invertebrates. <i>Trends in Ecology and Evolution</i> , 1991 , 6, 45-50	10.9	140
62	Parallel Evolution of Nonfeeding Larvae in Echinoids. <i>Systematic Biology</i> , 1996 , 45, 308-322	8.4	136
61	Novel origins of lineage founder cells in the direct-developing sea urchin <i>Heliocidaris erythrogramma</i> . <i>Developmental Biology</i> , 1990 , 141, 41-54	3.1	112
60	Evolutionary modification of cell lineage in the direct-developing sea urchin <i>Heliocidaris erythrogramma</i> . <i>Developmental Biology</i> , 1989 , 132, 458-70	3.1	104
59	Molecular phylogeny of nauidid worms (Annelida: Clitellata) based on cytochrome oxidase I. <i>Molecular Phylogenetics and Evolution</i> , 2004 , 30, 50-63	4.1	101
58	Evolution of regeneration and fission in annelids: insights from engrailed- and orthodenticle-class gene expression. <i>Development (Cambridge)</i> , 2001 , 128, 2781-2791	6.6	90
57	Extensive evolutionary changes in regulatory element activity during human origins are associated with altered gene expression and positive selection. <i>PLoS Genetics</i> , 2012 , 8, e1002789	6	85
56	Evaluation of chromatin accessibility in prefrontal cortex of individuals with schizophrenia. <i>Nature Communications</i> , 2018 , 9, 3121	17.4	74
55	Ontogeny in the fossil record: diversification of body plans and the evolution of 'berrant' symmetry in Paleozoic echinoderms. <i>Paleobiology</i> , 2007 , 33, 149-163	2.6	72
54	Comparative Developmental Transcriptomics Reveals Rewiring of a Highly Conserved Gene Regulatory Network during a Major Life History Switch in the Sea Urchin Genus <i>Heliocidaris</i> . <i>PLoS Biology</i> , 2016 , 14, e1002391	9.7	58
53	Transcriptional regulation and the evolution of development. <i>International Journal of Developmental Biology</i> , 2003 , 47, 675-84	1.9	57
52	The impact of gene expression variation on the robustness and evolvability of a developmental gene regulatory network. <i>PLoS Biology</i> , 2013 , 11, e1001696	9.7	54
51	Genomics and the Evolution of Phenotypic Traits. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2013 , 44, 51-72	13.5	52

50	Gene expression and larval evolution: changing roles of distal-less and orthodenticle in echinoderm larvae. <i>Evolution & Development</i> , 2002 , 4, 111-23	2.6	44
49	Developmental regulatory genes and echinoderm evolution. <i>Systematic Biology</i> , 2000 , 49, 28-51	8.4	43
48	An early cell shape transition drives evolutionary expansion of the human forebrain. <i>Cell</i> , 2021 , 184, 2084-2102, e19	3.6	41
47	RAPID EVOLUTION OF GASTRULATION MECHANISMS IN A SEA URCHIN WITH LECITHOTROPHIC LARVAE. <i>Evolution; International Journal of Organic Evolution</i> , 1991 , 45, 1741-1750	3.8	41
46	Evolutionary Divergence of Gene and Protein Expression in the Brains of Humans and Chimpanzees. <i>Genome Biology and Evolution</i> , 2015 , 7, 2276-88	3.9	32
45	Molecular clocks and the early evolution of metazoan nervous systems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015 , 370,	5.8	31
44	Mechanism of an Alternate Type of Echinoderm Blastula Formation: The Wrinkled Blastula of the Sea Urchin <i>Heliocidaris erythrogramma</i> . <i>Development Growth and Differentiation</i> , 1991 , 33, 317-328	3	28
43	Tracing the ancestry of the great white shark, <i>Carcharodon carcharias</i> , using morphometric analyses of fossil teeth. <i>Journal of Vertebrate Paleontology</i> , 2006 , 26, 806-814	1.7	27
42	Do convergent developmental mechanisms underlie convergent phenotypes?. <i>Brain, Behavior and Evolution</i> , 2002 , 59, 327-36	1.5	27
41	Genetic comparisons yield insight into the evolution of enamel thickness during human evolution. <i>Journal of Human Evolution</i> , 2014 , 73, 75-87	3.1	25
40	Dating branches on the tree of life using DNA. <i>Genome Biology</i> , 2002 , 3, REVIEWS0001	18.3	25
39	The phylogeny of extant starfish (Asteroidea: Echinodermata) including <i>Xyloplax</i> , based on comparative transcriptomics. <i>Molecular Phylogenetics and Evolution</i> , 2017 , 115, 161-170	4.1	24
38	Positive selection within the genomes of SARS-CoV-2 and other Coronaviruses independent of impact on protein function. <i>PeerJ</i> , 2020 , 8, e10234	3.1	24
37	Transcriptomic analysis of the highly derived radial body plan of a sea urchin. <i>Genome Biology and Evolution</i> , 2014 , 6, 964-73	3.9	21
36	Comparative expression analysis of the phosphocreatine circuit in extant primates: Implications for human brain evolution. <i>Journal of Human Evolution</i> , 2011 , 60, 205-212	3.1	21
35	The evolution of embryonic patterning mechanisms in animals. <i>Seminars in Cell and Developmental Biology</i> , 2000 , 11, 385-93	7.5	21
34	Rapid Evolution of Gastrulation Mechanisms in a Sea Urchin with Lecithotrophic Larvae. <i>Evolution; International Journal of Organic Evolution</i> , 1991 , 45, 1741	3.8	21
33	Population genetics of cis-regulatory sequences that operate during embryonic development in the sea urchin <i>Strongylocentrotus purpuratus</i> . <i>Evolution & Development</i> , 2012 , 14, 152-67	2.6	18

32	EchinoDB, an application for comparative transcriptomics of deeply-sampled clades of echinoderms. <i>BMC Bioinformatics</i> , 2016 , 17, 48	3.6	17
31	Analysis of synaptic gene expression in the neocortex of primates reveals evolutionary changes in glutamatergic neurotransmission. <i>Cerebral Cortex</i> , 2015 , 25, 1596-607	5.1	16
30	Culture of echinoderm larvae through metamorphosis. <i>Methods in Cell Biology</i> , 2004 , 74, 75-86	1.8	16
29	Genetics. Enhancing gene regulation. <i>Science</i> , 2008 , 321, 1300-1	33.3	15
28	A comparative analysis of egg provisioning using mass spectrometry during rapid life history evolution in sea urchins. <i>Evolution & Development</i> , 2019 , 21, 188-204	2.6	13
27	Expression of genes and proteins of the pax-six-eya-dach network in the metamorphic sea urchin: Insights into development of the enigmatic echinoderm body plan and sensory structures. <i>Developmental Dynamics</i> , 2018 , 247, 239-249	2.9	13
26	Chromosomal-Level Genome Assembly of the Sea Urchin <i>Lytechinus variegatus</i> Substantially Improves Functional Genomic Analyses. <i>Genome Biology and Evolution</i> , 2020 , 12, 1080-1086	3.9	10
25	Genomic Characterization of the Evolutionary Potential of the Sea Urchin <i>Strongylocentrotus droebachiensis</i> Facing Ocean Acidification. <i>Genome Biology and Evolution</i> , 2016 , 8, 3672-3684	3.9	9
24	Nodal and BMP expression during the transition to pentamery in the sea urchin <i>Heliocidaris erythrogramma</i> : insights into patterning the enigmatic echinoderm body plan. <i>BMC Developmental Biology</i> , 2017 , 17, 4	3.1	9
23	Gene expression and adaptive noncoding changes during human evolution. <i>BMC Genomics</i> , 2017 , 18, 435	4.5	9
22	Comparative Analyses of Chromatin Landscape in White Adipose Tissue Suggest Humans May Have Less Beigeing Potential than Other Primates. <i>Genome Biology and Evolution</i> , 2019 , 11, 1997-2008	3.9	9
21	Developmental single-cell transcriptomics in the <i>Lytechinus variegatus</i> sea urchin embryo. <i>Development (Cambridge)</i> , 2021 , 148,	6.6	9
20	Comparative Serum Challenges Show Divergent Patterns of Gene Expression and Open Chromatin in Human and Chimpanzee. <i>Genome Biology and Evolution</i> , 2018 , 10, 826-839	3.9	8
19	Transcriptomic analysis of Nodal- and BMP-associated genes during juvenile development of the sea urchin <i>Heliocidaris erythrogramma</i> . <i>Marine Genomics</i> , 2015 , 24 Pt 1, 41-5	1.9	8
18	Ocean acidification induces distinct transcriptomic responses across life history stages of the sea urchin <i>Heliocidaris erythrogramma</i> . <i>Molecular Ecology</i> , 2020 , 29, 4618-4636	5.7	5
17	Methodologies for Following EMT In Vivo at Single Cell Resolution. <i>Methods in Molecular Biology</i> , 2021 , 2179, 303-314	1.4	5
16	Transcriptomic analysis of sea star development through metamorphosis to the highly derived pentameral body plan with a focus on neural transcription factors. <i>DNA Research</i> , 2020 , 27,	4.5	4
15	The evolution of embryonic gene expression in sea urchins. <i>Integrative and Comparative Biology</i> , 2006 , 46, 233-42	2.8	4

14	Conserved and divergent expression dynamics during early patterning of the telencephalon in mouse and chick embryos. <i>Progress in Neurobiology</i> , 2020 , 186, 101735	10.9	4
13	Microbiome reduction and endosymbiont gain from a switch in sea urchin life history. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
12	Genetic basis for divergence in developmental gene expression in two closely related sea urchins. <i>Nature Ecology and Evolution</i> , 2020 , 4, 831-840	12.3	3
11	Evaluating Chromatin Accessibility Differences Across Multiple Primate Species Using a Joint Modeling Approach. <i>Genome Biology and Evolution</i> , 2019 , 11, 3035-3053	3.9	3
10	The epidemiology of Plasmodium vivax among adults in the Democratic Republic of the Congo. <i>Nature Communications</i> , 2021 , 12, 4169	17.4	3
9	Identifying branch-specific positive selection throughout the regulatory genome using an appropriate proxy neutral. <i>BMC Genomics</i> , 2020 , 21, 359	4.5	1
8	Reply to R apidly evolving human promoter regions <i>Nature Genetics</i> , 2008 , 40, 1263-1264	36.3	1
7	TBX5-encoded T-box transcription factor 5 variant T223M is associated with long QT syndrome and pediatric sudden cardiac death. <i>American Journal of Medical Genetics, Part A</i> , 2021 , 185, 923-929	2.5	1
6	Extreme phenotypic divergence and the evolution of development.. <i>Current Topics in Developmental Biology</i> , 2022 , 146, 79-112	5.3	0
5	Embryo microinjection of the lecithotrophic sea urchin. <i>Journal of Biological Methods</i> , 2019 , 6, e119	1.4	0
4	Transcriptomic analysis of Nodal - and BMP- associated genes during development to the juvenile seastar in Parvulastra exigua (Asterinidae). <i>Marine Genomics</i> , 2021 , 59, 100857	1.9	0
3	Rudolf A. Raff (1941-2019). <i>Nature Ecology and Evolution</i> , 2019 , 3, 518-519	12.3	
2	Evolution. CNCing is believing. <i>Science</i> , 2011 , 333, 946-7	33.3	
1	Gene expression during echinoderm metamorphosis. <i>Zygote</i> , 1999 , 8, S48-S49	1.6	