Katherine M. Buckley

List of Publications by Year
in descending order

40 papers	4,214 citations	304743 22 h-index	315739 38 g-index
46 all docs	46 docs citations	46 times ranked	4380 citing authors

#	Article	IF	Citations
1	The Genome of the Sea Urchin Strongylocentrotus purpuratus. Science, 2006, 314, 941-952.	12.6	1,018
2	The ctenophore genome and the evolutionary origins of neural systems. Nature, 2014, 510, 109-114.	27.8	606
3	Sequencing of the sea lamprey (Petromyzon marinus) genome provides insights into vertebrate evolution. Nature Genetics, 2013, 45, 415-421.	21.4	588
4	The immune gene repertoire encoded in the purple sea urchin genome. Developmental Biology, 2006, 300, 349-365.	2.0	513
5	Whole genome analysis of a schistosomiasis-transmitting freshwater snail. Nature Communications, 2017, 8, 15451.	12.8	216
6	Echinoderm Immunity. Advances in Experimental Medicine and Biology, 2010, 708, 260-301.	1.6	134
7	Dynamic Evolution of Toll-Like Receptor Multigene Families in Echinoderms. Frontiers in Immunology, 2012, 3, 136.	4.8	116
8	Distinctive expression patterns of 185/333 genes in the purple sea urchin, Strongylocentrotus purpuratus: an unexpectedly diverse family of transcripts in response to LPS, Î²-1,3-glucan, and dsRNA. BMC Molecular Biology, 2007, 8, 16.	3.0	84
9	Perturbation of gut bacteria induces a coordinated cellular immune response in the purple sea urchin larva. Immunology and Cell Biology, 2016, 94, 861-874.	2.3	78
10	Highly diversified innate receptor systems and new forms of animal immunity. Seminars in Immunology, 2010, 22, 39-47.	5.6	71
11	Diversity of animal immune receptors and the origins of recognition complexity in the deuterostomes. Developmental and Comparative Immunology, 2015, 49, 179-189.	2.3	71
12	Unexpected diversity displayed in cDNAs expressed by the immune cells of the purple sea urchin, Strongylocentrotus purpuratus. Physiological Genomics, 2006, 26, 134-144.	2.3	64
13	Echinodermata: The Complex Immune System in Echinoderms. , 2018, , 409-501.		62
14	Sp185/333: A novel family of genes and proteins involved in the purple sea urchin immune response. Developmental and Comparative Immunology, 2010, 34, 235-245.	2.3	57
15	IL17 factors are early regulators in the gut epithelium during inflammatory response to Vibrio in the sea urchin larva. ELife, 2017, 6, .	6.0	57
16	Extraordinary diversity among members of the large gene family, 185/333, from the purple sea urchin, Strongylocentrotus purpuratus. BMC Molecular Biology, 2007, 8, 68.	3.0	56
17	An Organismal Model for Gene Regulatory Networks in the Gut-Associated Immune Response. Frontiers in Immunology, 2017, 8, 1297.	4.8	41
18	The 185/333 Gene Family Is a Rapidly Diversifying Host-Defense Gene Cluster in the Purple Sea Urchin Strongylocentrotus purpuratus. Journal of Molecular Biology, 2008, 379, 912-928.	4.2	36

#	Article	IF	Citations
19	Sequence Variations in 185/333 Messages from the Purple Sea Urchin Suggest Posttranscriptional Modifications to Increase Immune Diversity. Journal of Immunology, 2008, 181, 8585-8594.	0.8	34
20	A conserved alternative form of the purple sea urchin HEB/E2-2/E2A transcription factor mediates a switch in E-protein regulatory state in differentiating immune cells. Developmental Biology, 2016, 416, 149-161.	2.0	32
21	AID/APOBEC-like cytidine deaminases are ancient innate immune mediators in invertebrates. Nature Communications, 2018, 9, 1948.	12.8	31
22	Sensing the world and its dangers: An evolutionary perspective in neuroimmunology. ELife, 2021, 10, .	6.0	29
23	An Sp185/333 gene cluster from the purple sea urchin and putative microsatellite-mediated gene diversification. BMC Genomics, 2010, 11, 575.	2.8	25
24	The Axial Organ and the Pharynx Are Sites of Hematopoiesis in the Sea Urchin. Frontiers in Immunology, 2019, 10, 870.	4.8	25
25	Immune activity at the gut epithelium in the larval sea urchin. Cell and Tissue Research, 2019, 377, 469-474.	2.9	23
26	Lamprey immunity is far from primitive. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5746-5747.	7.1	20
27	Mitochondrial copper and phosphate transporter specificity was defined early in the evolution of eukaryotes. ELife, 2021, 10, .	6.0	19
28	Bacterial artificial chromosomes as recombinant reporter constructs to investigate gene expression and regulation in echinoderms. Briefings in Functional Genomics, 2018, 17, 362-371.	2.7	12
29	Zinc protection of fertilized eggs is an ancient feature of sexual reproduction in animals. PLoS Biology, 2020, 18, e3000811.	5.6	11
30	Characterizing Immune Receptors from New Genome Sequences. Methods in Molecular Biology, 2011, 748, 273-298.	0.9	10
31	Techniques for analyzing gene expression using BAC-based reporter constructs. Methods in Cell Biology, 2019, 151, 197-218.	1.1	7
32	Analysis of immune response in the sea urchin larva. Methods in Cell Biology, 2019, 150, 333-355.	1.1	6
33	Extracellular Vesicle Signatures and Post-Translational Protein Deimination in Purple Sea Urchin (Strongylocentrotus purpuratus) Coelomic Fluidâ€"Novel Insights into Echinodermata Biology. Biology, 2021, 10, 866.	2.8	6
34	Immunological Diversity Is a Cornerstone of Organismal Defense and Allorecognition across Metazoa. Journal of Immunology, 2022, 208, 203-211.	0.8	6
35	A method for identifying alternative or cryptic donor splice sites within gene and mRNA sequences. Comparisons among sequences from vertebrates, echinoderms and other groups. BMC Genomics, 2009, 10, 318.	2.8	5
36	A nomenclature for echinoderm genes. Database: the Journal of Biological Databases and Curation, 2021, 2021, .	3.0	4

#	Article	IF	Citations
37	Correction to: Echinodermata: The Complex Immune System in Echinoderms. , 2018, , E1-E1.		3
38	The evolution of innate immune receptors: investigating the diversity, distribution, and phylogeny of immune recognition across eukaryotes. Immunogenetics, 2022, 74, 1-4.	2.4	3
39	Genomics in the Sea Urchin: New Perspectives on a Perennial Model System. , 2012, , 1-15.		0
40	Bioinformatics Approaches for Analyzing Multigene Families Encoding Immune Receptors. Methods in Molecular Biology, 2022, 2421, 151-169.	0.9	0