

Jonathan P Rast

List of Publications by Year in descending order

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61
papers

9,001
citations

94269

37
h-index

128067

60
g-index

65
all docs

65
docs citations

65
times ranked

7473
citing authors

#	ARTICLE	IF	CITATIONS
1	Post-translational protein deimination signatures in sea lamprey (<i>Petromyzon marinus</i>) plasma and plasma-extracellular vesicles. <i>Developmental and Comparative Immunology</i> , 2021, 125, 104225.	1.0	5
2	Evolution of variable lymphocyte receptor B antibody loci in jawless vertebrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	6
3	Ancient BCMA-like Genes Herald B Cell Regulation in Lampreys. <i>Journal of Immunology</i> , 2019, 203, 2909-2916.	0.4	3
4	Immune activity at the gut epithelium in the larval sea urchin. <i>Cell and Tissue Research</i> , 2019, 377, 469-474.	1.5	23
5	Mitigating Anticipated Effects of Systematic Errors Supports Sister-Group Relationship between Xenacoelomorpha and Ambulacraria. <i>Current Biology</i> , 2019, 29, 1818-1826.e6.	1.8	120
6	Analysis of immune response in the sea urchin larva. <i>Methods in Cell Biology</i> , 2019, 150, 333-355.	0.5	6
7	Bacterial Exposure Mediates Developmental Plasticity and Resistance to Lethal <i>Vibrio lentus</i> Infection in Purple Sea Urchin (<i>Strongylocentrotus purpuratus</i>) Larvae. <i>Frontiers in Immunology</i> , 2019, 10, 3014.	2.2	16
8	Bacterial artificial chromosomes as recombinant reporter constructs to investigate gene expression and regulation in echinoderms. <i>Briefings in Functional Genomics</i> , 2018, 17, 362-371.	1.3	12
9	AID/APOBEC-like cytidine deaminases are ancient innate immune mediators in invertebrates. <i>Nature Communications</i> , 2018, 9, 1948.	5.8	31
10	Echinodermata: The Complex Immune System in Echinoderms. , 2018, , 409-501.		62
11	Sea Urchin Larvae as a Model for Postembryonic Development. <i>Results and Problems in Cell Differentiation</i> , 2018, 65, 137-161.	0.2	13
12	Whole genome analysis of a schistosomiasis-transmitting freshwater snail. <i>Nature Communications</i> , 2017, 8, 15451.	5.8	216
13	An Organismal Model for Gene Regulatory Networks in the Gut-Associated Immune Response. <i>Frontiers in Immunology</i> , 2017, 8, 1297.	2.2	41
14	IL17 factors are early regulators in the gut epithelium during inflammatory response to <i>Vibrio</i> in the sea urchin larva. <i>ELife</i> , 2017, 6, .	2.8	57
15	Perturbation of gut bacteria induces a coordinated cellular immune response in the purple sea urchin larva. <i>Immunology and Cell Biology</i> , 2016, 94, 861-874.	1.0	78
16	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. <i>Developmental Biology</i> , 2016, 416, 149-161.	0.9	32
17	Diversity of animal immune receptors and the origins of recognition complexity in the deuterostomes. <i>Developmental and Comparative Immunology</i> , 2015, 49, 179-189.	1.0	71
18	The ctenophore genome and the evolutionary origins of neural systems. <i>Nature</i> , 2014, 510, 109-114.	13.7	606

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19	Lamprey immunity is far from primitive. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5746-5747.	3.3	20
20	An ancient role for Gata-1/2/3 and Scl transcription factor homologs in the development of immunocytes. Developmental Biology, 2013, 382, 280-292.	0.9	69
21	Sequencing of the sea lamprey (<i>Petromyzon marinus</i>) genome provides insights into vertebrate evolution. Nature Genetics, 2013, 45, 415-421.	9.4	588
22	Dynamic Evolution of Toll-Like Receptor Multigene Families in Echinoderms. Frontiers in Immunology, 2012, 3, 136.	2.2	116
23	The origins of vertebrate adaptive immunity. Nature Reviews Immunology, 2010, 10, 543-553.	10.6	284
24	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.	1.0	57
25	SpTie1/2 is expressed in coelomocytes, axial organ and embryos of the sea urchin <i>Strongylocentrotus purpuratus</i> , and is an orthologue of vertebrate Tie1 and Tie2. Developmental and Comparative Immunology, 2010, 34, 884-895.	1.0	13
26	Highly diversified innate receptor systems and new forms of animal immunity. Seminars in Immunology, 2010, 22, 39-47.	2.7	71
27	Evolution of innate and adaptive immune recognition structures. Seminars in Immunology, 2010, 22, 1-2.	2.7	2
28	Universal rules of immunity. Immunology and Cell Biology, 2009, 87, 507-509.	1.0	2
29	Marine Invertebrate Genome Sequences and Our Evolving Understanding of Animal Immunity. Biological Bulletin, 2008, 214, 274-283.	0.7	56
30	The amphioxus genome illuminates vertebrate origins and cephalochordate biology. Genome Research, 2008, 18, 1100-1111.	2.4	456
31	<i>Biological Bulletin</i> Virtual Symposium: Genomics of Large Marine Metazoans. Biological Bulletin, 2008, 214, 203-204.	0.7	1
32	Alternative mechanisms of immune receptor diversity. Current Opinion in Immunology, 2007, 19, 526-534.	2.4	52
33	The Genome of the Sea Urchin <i>Strongylocentrotus purpuratus</i> . Science, 2006, 314, 941-952.	6.0	1,018
34	The immune gene repertoire encoded in the purple sea urchin genome. Developmental Biology, 2006, 300, 349-365.	0.9	513
35	Unusual gene order and organization of the sea urchin hox cluster. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2006, 306B, 45-58.	0.6	145
36	An ancient evolutionary origin of the Rag1/2 gene locus. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3728-3733.	3.3	155

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37	Genomic Insights into the Immune System of the Sea Urchin. <i>Science</i> , 2006, 314, 952-956.	6.0	384
38	Echinoderms. <i>Current Biology</i> , 2005, 15, R944-R946.	1.8	15
39	New Insights into Alternative Mechanisms of Immune Receptor Diversification. <i>Advances in Immunology</i> , 2005, 87, 209-236.	1.1	36
40	The phylogenetic origins of the antigen-binding receptors and somatic diversification mechanisms. <i>Immunological Reviews</i> , 2004, 200, 12-22.	2.8	108
41	Expression patterns of four different regulatory genes that function during sea urchin development. <i>Gene Expression Patterns</i> , 2004, 4, 449-456.	0.3	135
42	Mechanisms of antigen receptor evolution. <i>Seminars in Immunology</i> , 2004, 16, 215-226.	2.7	62
43	Genomic Resources for the Study of Sea Urchin Development. <i>Methods in Cell Biology</i> , 2004, 74, 733-757.	0.5	12
44	Development gene networks and evolution. <i>Journal of Structural and Functional Genomics</i> , 2003, 3, 225-234.	1.2	4
45	Lineage-restricted retention of a primitive immunoglobulin heavy chain isotype within the Dipnoi reveals an evolutionary paradox. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 2501-2506.	3.3	71
46	Development gene networks and evolution. <i>Journal of Structural and Functional Genomics</i> , 2003, 3, 225-34.	1.2	0
47	A Genomic Regulatory Network for Development. <i>Science</i> , 2002, 295, 1669-1678.	6.0	1,399
48	New Early Zygotic Regulators Expressed in Endomesoderm of Sea Urchin Embryos Discovered by Differential Array Hybridization. <i>Developmental Biology</i> , 2002, 246, 132-147.	0.9	148
49	A Provisional Regulatory Gene Network for Specification of Endomesoderm in the Sea Urchin Embryo. <i>Developmental Biology</i> , 2002, 246, 162-190.	0.9	319
50	brachyury Target Genes in the Early Sea Urchin Embryo Isolated by Differential Macroarray Screening. <i>Developmental Biology</i> , 2002, 246, 191-208.	0.9	75
51	Characterization of three isotypes of immunoglobulin light chains and T-cell antigen receptor $\hat{\pm}$ in zebrafish. <i>Immunogenetics</i> , 2000, 51, 915-923.	1.2	112
52	Members of the Ikaros Gene Family Are Present in Early Representative Vertebrates. <i>Journal of Immunology</i> , 2000, 165, 306-312.	0.4	52
53	Recovery of Developmentally Defined Gene Sets from High-Density cDNA Macroarrays. <i>Developmental Biology</i> , 2000, 228, 270-286.	0.9	85
54	A long form of the skate IgX gene exhibits a striking resemblance to the new shark IgW and IgNARC genes. <i>Immunogenetics</i> , 1999, 49, 56-67.	1.2	50

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55	Origins of immunity: transcription factors and homologues of effector genes of the vertebrate immune system expressed in sea urchin coelomocytes. <i>Immunogenetics</i> , 1999, 49, 773-786.	1.2	129
56	EVOLUTION OF ANTIGEN BINDING RECEPTORS. <i>Annual Review of Immunology</i> , 1999, 17, 109-147.	9.5	308
57	Towards understanding the evolutionary origins and early diversification of rearranging antigen receptors. <i>Immunological Reviews</i> , 1998, 166, 79-86.	2.8	37
58	Î±, Î², Î³, and Î´ T Cell Antigen Receptor Genes Arose Early in Vertebrate Phylogeny. <i>Immunity</i> , 1997, 6, 1-11.	6.6	271
59	Identification and characterization of T-cell antigen receptor-related genes in phylogenetically diverse vertebrate species. <i>Immunogenetics</i> , 1995, 42, 204-12.	1.2	91
60	Complete genomic sequence and patterns of transcription of a member of an unusual family of closely related, chromosomally dispersed Ig gene clusters in Raja. <i>International Immunology</i> , 1994, 6, 1661-1670.	1.8	46
61	Evolutionary Development of the B-Cell Repertoire. <i>Annals of the New York Academy of Sciences</i> , 1992, 651, 360-368.	1.8	8