Jeffrey A. Yoder

List of Publications by Year
in descending order

102 papers	7,386 citations	94433 37 h-index	56724 83 g-index
109 all docs	109 docs citations	109 times ranked	8076 citing authors

#	Article	IF	Citations
1	Cytosine methylation and the ecology of intragenomic parasites. Trends in Genetics, 1997, 13, 335-340.	6.7	1,748
2	Methylation of tRNA ^{Asp} by the DNA Methyltransferase Homolog Dnmt2. Science, 2006, 311, 395-398.	12.6	967
3	The spotted gar genome illuminates vertebrate evolution and facilitates human-teleost comparisons. Nature Genetics, 2016, 48, 427-437.	21.4	545
4	DNA (cytosine-5)-methyltransferases in mouse cells and tissues. studies with a mechanism-based probe. Journal of Molecular Biology, 1997, 270, 385-395.	4.2	321
5	A candidate mammalian DNA methyltransferase related to pmt1p of fission yeast. Human Molecular Genetics, 1998, 7, 279-284.	2.9	241
6	Structure of human DNMT2, an enigmatic DNA methyltransferase homolog that displays denaturant-resistant binding to DNA. Nucleic Acids Research, 2001, 29, 439-448.	14.5	203
7	The zebrafish as a model organism to study development of the immune system. Advances in Immunology, 2003, 81, 253-330.	2.2	135
8	Photocaged Morpholino Oligomers for the Light-Regulation of Gene Function in Zebrafish and <i>Xenopus</i> Embryos. Journal of the American Chemical Society, 2010, 132, 15644-15650.	13.7	115
9	Immune-type receptor genes in zebrafish share genetic and functional properties with genes encoded by the mammalian leukocyte receptor cluster. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 6771-6776.	7.1	107
10	The Zebrafish as a Model Organism to Study Development of the Immune System. Advances in Immunology, 2003, , 254-330.	2.2	104
11	Zebrafish as an immunological model system. Microbes and Infection, 2002, 4, 1469-1478.	1.9	103
12	Fish pigmentation and the melanocortin system. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2017, 211, 26-33.	1.8	102
13	Resolution of the novel immune-type receptor gene cluster in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15706-15711.	7.1	94
14	On the origins of adaptive immunity: innate immune receptors join the tale. Trends in Immunology, 2004, 25, 11-16.	6.8	90
15	Gene Silencing in Mammalian Cells with Lightâ€Activated Antisense Agents. ChemBioChem, 2008, 9, 2937-2940.	2.6	89
16	New 5â€² Regions of the Murine and Human Genes for DNA (Cytosine-5)-methyltransferase. Journal of Biological Chemistry, 1996, 271, 31092-31097.	3.4	81
17	Novel immune-type receptor genes. Immunological Reviews, 2001, 181, 250-259.	6.0	81
18	A Review of Automated Microinjection Systems for Single Cells in the Embryogenesis Stage. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2391-2404.	5.8	78

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19	Extraordinary variation in a diversified family of immune-type receptor genes. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 13832-13837.	7.1	76
20	Specific Resistance to <i>Pseudomonas aeruginosa</i> Infection in Zebrafish Is Mediated by the Cystic Fibrosis Transmembrane Conductance Regulator. Infection and Immunity, 2010, 78, 4542-4550.	2.2	75
21	The phylogenetic origins of natural killer receptors and recognition: relationships, possibilities, and realities. Immunogenetics, 2011, 63, 123-141.	2.4	73
22	Single-cell transcriptional analysis of normal, aberrant, and malignant hematopoiesis in zebrafish. Journal of Experimental Medicine, 2016, 213, 979-992.	8.5	69
23	Sparc (Osteonectin) functions in morphogenesis of the pharyngeal skeleton and inner ear. Matrix Biology, 2008, 27, 561-572.	3.6	57
24	Alternative haplotypes of antigen processing genes in zebrafish diverged early in vertebrate evolution. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5014-23.	7.1	56
25	Pigment patterns in adult fish result from superimposition of two largely independent pigmentation mechanisms. Pigment Cell and Melanoma Research, 2015, 28, 196-209.	3.3	55
26	Loss of DNA methylation in zebrafish embryos activates retrotransposons to trigger antiviral signaling. Development (Cambridge), 2017, 144, 2925-2939.	2.5	53
27	Form, function and phylogenetics of NITRs in bony fish. Developmental and Comparative Immunology, 2009, 33, 135-144.	2.3	51
28	Differential expression and ligand binding indicate alternative functions for zebrafish polymeric immunoglobulin receptor (pIgR) and a family of pIgR-like (PIGRL) proteins. Immunogenetics, 2014, 66, 267-279.	2.4	51
29	Clinical improvement by farnesyltransferase inhibition in NK large granular lymphocyte leukemia associated with imbalanced NK receptor signaling. Blood, 2008, 112, 4694-4698.	1.4	49
30	The bowfin genome illuminates the developmental evolution of ray-finned fishes. Nature Genetics, 2021, 53, 1373-1384.	21.4	48
31	Countershading in zebrafish results from an Asip1 controlled dorsoventral gradient of pigment cell differentiation. Scientific Reports, 2019, 9, 3449.	3.3	45
32	Investigating the morphology, function and genetics of cytotoxic cells in bony fish. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2004, 138, 271-280.	2.6	43
33	The zebrafish activating immune receptor Nitr9 signals via Dap12. Immunogenetics, 2007, 59, 813-821.	2.4	43
34	Angiopellosis as an Alternative Mechanism of Cell Extravasation. Stem Cells, 2017, 35, 170-180.	3.2	42
35	Cloning novel immune-type inhibitory receptors from the rainbow trout, Oncorhynchus mykiss. Immunogenetics, 2002, 54, 662-670.	2.4	41
36	Structural characteristics of zebrafish orthologs of adaptor molecules that associate with transmembrane immune receptors. Gene, 2007, 401, 154-164.	2.2	41

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37	Transient Ectopic Overexpression of Agouti-Signalling Protein 1 (Asip1) Induces Pigment Anomalies in Flatfish. PLoS ONE, 2012, 7, e48526.	2.5	41
38	A critical role for DAP10 and DAP12 in CD8+ T cellâ€"mediated tissue damage in large granular lymphocyte leukemia. Blood, 2009, 113, 3226-3234.	1.4	38
39	Neutralization of Mitochondrial Superoxide by Superoxide Dismutase 2 Promotes Bacterial Clearance and Regulates Phagocyte Numbers in Zebrafish. Infection and Immunity, 2015, 83, 430-440.	2.2	38
40	Light-activation of gene function in mammalian cells viaribozymes. Chemical Communications, 2009, , 568-570.	4.1	37
41	Circulating tumor cells exit circulation while maintaining multicellularity augmenting metastatic potential. Journal of Cell Science, 2019, 132, .	2.0	36
42	Immune-related, lectin-like receptors are differentially expressed in the myeloid and lymphoid lineages of zebrafish. Immunogenetics, 2006, 58, 31-40.	2.4	34
43	The MHC class I genes of zebrafish. Developmental and Comparative Immunology, 2014, 46, 11-23.	2.3	34
44	Behind melanocortin antagonist overexpression in the zebrafish brain: A behavioral and transcriptomic approach. Hormones and Behavior, 2016, 82, 87-100.	2.1	34
45	Developmental and tissue-specific expression of NITRs. Immunogenetics, 2010, 62, 117-122.	2.4	33
46	Cloning of two zebrafish cDNAs that share domains with the MHC class II-associated invariant chain. Immunogenetics, 1999, 50, 84-88.	2.4	32
47	Ligand-mediated protein degradation reveals functional conservation among sequence variants of the CUL4-type E3 ligase substrate receptor cereblon. Journal of Biological Chemistry, 2018, 293, 6187-6200.	3.4	32
48	Enhanced transcription of complement and coagulation genes in the absence of adaptive immunity. Molecular Immunology, 2009, 46, 1505-1516.	2.2	31
49	Super Resolution Microscopy Reveals that Caveolin-1 Is Required for Spatial Organization of CRFB1 and Subsequent Antiviral Signaling in Zebrafish. PLoS ONE, 2013, 8, e68759.	2.5	31
50	Lossâ€ofâ€function mutations in the melanocortin 1 receptor cause disruption of dorsoâ€ventral countershading in teleost fish. Pigment Cell and Melanoma Research, 2019, 32, 817-828.	3.3	31
51	A Myristoylated Alanine-Rich C Kinase Substrateâ€"Related Peptide Suppresses Cytokine mRNA and Protein Expression in LPS-Activated Canine Neutrophils. American Journal of Respiratory Cell and Molecular Biology, 2013, 48, 314-321.	2.9	30
52	A photoactivatable small-molecule inhibitor for light-controlled spatiotemporal regulation of Rho kinase in live embryos. Development (Cambridge), 2012, 139, 437-442.	2.5	29
53	The medaka novel immune-type receptor (NITR) gene clusters reveal an extraordinary degree of divergence in variable domains. BMC Evolutionary Biology, 2008, 8, 177.	3.2	28
54	Evidence for a transposition event in a second NITR gene cluster in zebrafish. Immunogenetics, 2008, 60, 257-265.	2.4	26

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55	The confounding complexity of innate immune receptors within and between teleost species. Fish and Shellfish Immunology, 2016, 53, 24-34.	3.6	26
56	Immune-Type Diversity in the Absence of Somatic Rearrangement. Current Topics in Microbiology and Immunology, 2000, 248, 271-282.	1.1	26
57	Characterization of the Z lineage Major histocompatability complex class I genes in zebrafish. Immunogenetics, 2014, 66, 185-198.	2.4	25
58	Conditional Transgene and Gene Targeting Methodologies in Zebrafish. Zebrafish, 2006, 3, 415-429.	1.1	24
59	Spotted Gar and the Evolution of Innate Immune Receptors. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2017, 328, 666-684.	1.3	24
60	Expanding our understanding of immunoglobulin, T-cell antigen receptor, and novel immune-type receptor genes: a subset of the immunoglobulin gene superfamily. Immunogenetics, 1999, 50, 124-133.	2.4	23
61	Role for retinoid signaling in leftâ€"right asymmetric digestive organ morphogenesis. Developmental Dynamics, 2006, 235, 2266-2275.	1.8	23
62	Cross-linking a maturation-dependent ram sperm plasma membrane antigen induces the acrosome reaction. Molecular Reproduction and Development, 1991, 29, 200-207.	2.0	22
63	Genomic and functional characterization of the diverse immunoglobulin domain-containing protein (DICP) family. Genomics, 2012, 99, 282-291.	2.9	22
64	Multigene families of immunoglobulin domain-containing innate immune receptors in zebrafish: Deciphering the differences. Developmental and Comparative Immunology, 2014, 46, 24-34.	2.3	22
65	Therapeutic targeting of LCK tyrosine kinase and mTOR signaling in T-cell acute lymphoblastic leukemia. Blood, 2022, 140, 1891-1906.	1.4	19
66	BAC Recombineering of the <i>Agouti</i> Loci from Spotted Gar and Zebrafish Reveals the Evolutionary Ancestry of Dorsalâ€"Ventral Pigment Asymmetry in Fish. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2017, 328, 697-708.	1.3	18
67	Presence of cerebrospinal fluid antibodies associated with autoimmune encephalitis of humans in dogs with neurologic disease. Journal of Veterinary Internal Medicine, 2019, 33, 2175-2182.	1.6	18
68	On the relationship between extant innate immune receptors and the evolutionary origins of jawed vertebrate adaptive immunity. Immunogenetics, 2022, 74, 111-128.	2.4	18
69	Phage display and structural studies reveal plasticity in substrate specificity of caspaseâ€3a from zebrafish. Protein Science, 2016, 25, 2076-2088.	7.6	16
70	The zebrafish fth1, slc3a2, men1, pc, fgf3 and cycd1 genes define two regions of conserved synteny between linkage group 7 and human chromosome 11q13. Gene, 2000, 261, 235-242.	2.2	15
71	An ITAM in a Nonenveloped Virus Regulates Activation of NF-Î°B, Induction of Beta Interferon, and Viral Spread. Journal of Virology, 2014, 88, 2572-2583.	3.4	15
72	Cloning and sequence analysis of a zebrafish cDNA encoding DNA (cytosine-5)-methyltransferase-1. Genesis, 2001, 30, 213-219.	1.6	14

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73	Two Myristoylated Alanineâ€Rich Câ€Kinase Substrate (MARCKS) Paralogs are Required for Normal Development in Zebrafish. Anatomical Record, 2011, 294, 1511-1524.	1.4	13
74	Expression and function of triggering receptor expressed on myeloid cells-1 (TREM-1) on canine neutrophils. Developmental and Comparative Immunology, 2011, 35, 872-880.	2.3	13
75	Machine learning reveals sexâ€specific 17Î²â€estradiolâ€responsive expression patterns in white perch (<i>Morone americana</i>) plasma proteins. Proteomics, 2015, 15, 2678-2690.	2.2	13
76	Sp2 Is a Maternally Inherited Transcription Factor Required for Embryonic Development. Journal of Biological Chemistry, 2010, 285, 4153-4164.	3.4	12
77	Surface modifications on InAs decrease indium and arsenic leaching under physiological conditions. Applied Surface Science, 2012, 261, 842-850.	6.1	12
78	The identification of additional zebrafish DICP genes reveals haplotype variation and linkage to MHC class I genes. Immunogenetics, 2016, 68, 295-312.	2.4	12
79	Novel Immune-type Receptor Genes and the Origins of Adaptive and Innate Immune Recognition. Integrative and Comparative Biology, 2003, 43, 331-337.	2.0	11
80	Holosteans contextualize the role of the teleost genome duplication in promoting the rise of evolutionary novelties in the ray-finned fish innate immune system. Immunogenetics, 2021, 73, 479-497.	2.4	11
81	BIVM, a Novel Gene Widely Distributed among Deuterostomes, Shares a Core Sequence with an Unusual Gene in Giardia lamblia. Genomics, 2002, 79, 750-755.	2.9	10
82	A nonclassical MHC class I U lineage locus in zebrafish with a null haplotypic variant. Immunogenetics, 2015, 67, 501-513.	2.4	10
83	Fish Pigmentation. A Key Issue for the Sustainable Development of Fish Farming. , 2018, , 229-252.		10
84	Aquatic animal models of human disease: Selected papers and recommendations from the 4th Conference. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2009, 149, 121-128.	2.6	9
85	Transcriptome Ortholog Alignment Sequence Tools (TOAST) for phylogenomic dataset assembly. BMC Evolutionary Biology, 2020, 20, 41.	3.2	9
86	From IgZ to IgT: A Call for a Common Nomenclature for Immunoglobulin Heavy Chain Genes of Ray-Finned Fish. Zebrafish, 2021, 18, 343-345.	1.1	9
87	Disruption of Trim9 function abrogates macrophage motility in vivo. Journal of Leukocyte Biology, 2017, 102, 1371-1380.	3.3	8
88	Calcium imaging of primary canine sensory neurons: Smallâ€diameter neurons responsive to pruritogens and algogens. Brain and Behavior, 2019, 9, e01428.	2.2	8
89	<i>In vivo</i> assessment of respiratory burst inhibition by xenobiotic exposure using larval zebrafish. Journal of Immunotoxicology, 2020, 17, 94-104.	1.7	8
90	Evolutionary divergence of the vertebrate TNFAIP8 gene family: Applying the spotted gar orthology bridge to understand ohnolog loss in teleosts. PLoS ONE, 2017, 12, e0179517.	2.5	7

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91	A Zebrafish Model of Metastatic Colonization Pinpoints Cellular Mechanisms of Circulating Tumor Cell Extravasation. Frontiers in Oncology, 2021, 11, 641187.	2.8	6
92	Development and Characterization of Anti-Nitr9 Antibodies. Advances in Hematology, 2012, 2012, 1-9.	1.0	5
93	Immunoglobulin variable regions in molecules exhibiting characteristics of innate and adaptive immune receptors. Immunologic Research, 2007, 38, 294-304.	2.9	4
94	<i>Single-minded 2</i> is required for left-right asymmetric stomach morphogenesis. Development (Cambridge), 2021, 148, .	2.5	3
95	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
96	Transcriptome annotation reveals minimal immunogenetic diversity among Wyoming toads, Anaxyrus baxteri. Conservation Genetics, 2022, 23, 669-681.	1.5	2
97	Assessing Infection and Immunity in Zebrafish. Zebrafish, 2008, 5, 189-191.	1.1	1
98	A photoactivatable small-molecule inhibitor for light-controlled spatiotemporal regulation of Rho kinase in live embryos. Journal of Cell Science, 2012, 125, e1-e1.	2.0	1
99	Single-cell transcriptional analysis of normal, aberrant, and malignant hematopoiesis in zebrafish. Journal of Cell Biology, 2016, 213, 2133OIA95.	5.2	1
100	Knockdown of Transmembrane Protein 150A (<i>TMEM150A</i>) Results in Increased Production of Multiple Cytokines. Journal of Interferon and Cytokine Research, 2022, 42, 336-342.	1.2	1
101	Myristoylated Alanine-Rich C Kinase Substrate (MARCKS) Protein Plays A Critical Role In Production Of Proinflammatory Cytokines By Isolated Canine Neutrophils. , 2012, , .		0
102	Preface to the Special Issue: Zebrafish immunity and infection models. Developmental and Comparative Immunology, 2014, 46, 1-2.	2.3	0