Jared V Goldstone

List of Publications by Year
in descending order

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72 papers	6,073 citations	126907 33 h-index	88630 70 g-index
75 all docs	75 docs citations	75 times ranked	7958 citing authors

#	Article	IF	Citations
1	The Genome of the Sea Urchin Strongylocentrotus purpuratus. Science, 2006, 314, 941-952.	12.6	1,018
2	Genome sequence of the metazoan plant-parasitic nematode Meloidogyne incognita. Nature Biotechnology, 2008, 26, 909-915.	17.5	1,012
3	The African coelacanth genome provides insights into tetrapod evolution. Nature, 2013, 496, 311-316.	27.8	612
4	Identification and developmental expression of the full complement of Cytochrome P450 genes in Zebrafish. BMC Genomics, 2010, 11, 643.	2.8	339
5	Reactions of Hydroxyl Radical with Humic Substances:Â Bleaching, Mineralization, and Production of Bioavailable Carbon Substrates. Environmental Science & Technology, 2002, 36, 364-372.	10.0	255
6	The chemical defensome: Environmental sensing and response genes in the Strongylocentrotus purpuratus genome. Developmental Biology, 2006, 300, 366-384.	2.0	235
7	The cytochrome P450 genesis locus: the origin and evolution of animal cytochrome P450s. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120474.	4.0	147
8	Uncoupling of cytochrome P450 1A and stimulation of reactive oxygen species production by co-planar polychlorinated biphenyl congeners. Aquatic Toxicology, 2006, 77, 422-432.	4.0	146
9	Chemistry of Superoxide Radical in Seawater:â€‰ CDOM Associated Sink of Superoxide in Coastal Waters. Environmental Science & Technology, 2000, 34, 1043-1048.	10.0	144
10	Basal and 3,3â€²,4,4â€²,5-pentachlorobiphenyl-induced expression of cytochrome P450 1A, 1B and 1C genes in zebrafish. Toxicology and Applied Pharmacology, 2007, 221, 29-41.	2.8	131
11	Effects of sunlight and hydroxyl radical on dissolved organic matter: Bacterial growthefficiency and production of carboxylic acids and other substrates. Limnology and Oceanography, 2004, 49, 2011-2022.	3.1	120
12	Glutathione redox dynamics and expression of glutathione-related genes in the developing embryo. Free Radical Biology and Medicine, 2013, 65, 89-101.	2.9	105
13	Cytochrome P450 1 Genes in Early Deuterostomes (Tunicates and Sea Urchins) and Vertebrates (Chicken and Frog): Origin and Diversification of the CYP1 Gene Family. Molecular Biology and Evolution, 2007, 24, 2619-2631.	8.9	84
14	Nrf2b, Novel Zebrafish Paralog of Oxidant-responsive Transcription Factor NF-E2-related Factor 2 (NRF2). Journal of Biological Chemistry, 2012, 287, 4609-4627.	3.4	83
15	Environmental sensing and response genes in cnidaria: the chemical defensome in the sea anemone Nematostella vectensis. Cell Biology and Toxicology, 2008, 24, 483-502.	5.3	77
16	Evolution of a Major Drug Metabolizing Enzyme Defect in the Domestic Cat and Other Felidae: Phylogenetic Timing and the Role of Hypercarnivory. PLoS ONE, 2011, 6, e18046.	2.5	71
17	Cytochrome P450 1D1: A novel CYP1A-related gene that is not transcriptionally activated by PCB126 or TCDD. Archives of Biochemistry and Biophysics, 2009, 482, 7-16.	3.0	69
18	Identification and expression of multiple CYP1-like and CYP3-like genes in the bivalve mollusk Mytilus edulis. Aquatic Toxicology, 2013, 128-129, 101-112.	4.0	68

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19	New cytochrome P450 1B1, 1C2 and 1D1 genes in the killifish Fundulus heteroclitus: Basal expression and response of five killifish CYP1s to the AHR agonist PCB126. Aquatic Toxicology, 2009, 93, 234-243.	4.0	64
20	The new vertebrate CYP1C family: Cloning of new subfamily members and phylogenetic analysis. Biochemical and Biophysical Research Communications, 2005, 331, 1016-1024.	2.1	62
21	Caenorhabditis elegans Generates Biologically Relevant Levels of Genotoxic Metabolites from Aflatoxin B1 but Not Benzo[a]pyrene In Vivo. Toxicological Sciences, 2010, 118, 444-453.	3.1	62
22	Species extrapolation for the 21st century. Environmental Toxicology and Chemistry, 2011, 30, 52-63.	4.3	60
23	The role of Nrf1 and Nrf2 in the regulation of glutathione and redox dynamics in the developing zebrafish embryo. Redox Biology, 2017, 13, 207-218.	9.0	58
24	Role of Pregnane X Receptor and Aryl Hydrocarbon Receptor in Transcriptional Regulation of pxr, CYP2, and CYP3 Genes in Developing Zebrafish. Toxicological Sciences, 2015, 143, 398-407.	3.1	57
25	Identification of CYP genes in Mytilus (mussel) and Crassostrea (oyster) species: First approach to the full complement of cytochrome P450 genes in bivalves. Marine Environmental Research, 2010, 69, S1-S3.	2.5	47
26	Ensemble Modeling of Substrate Binding to Cytochromes P450:Â Analysis of Catalytic Differences between CYP1A Orthologsâ€,â€¡. Biochemistry, 2007, 46, 2640-2654.	2.5	45
27	Induction patterns of new CYP1 genes in environmentally exposed rainbow trout. Aquatic Toxicology, 2010, 98, 311-321.	4.0	45
28	On the occurrence of cytochrome P450 in viruses. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12343-12352.	7.1	45
29	Functional characterization of a full length pregnane X receptor, expression in vivo, and identification of PXR alleles, in Zebrafish (Danio rerio). Aquatic Toxicology, 2013, 142-143, 447-457.	4.0	44
30	Induction of cytochrome P450 1 genes and stress response genes in developing zebrafish exposed to ultraviolet radiation. Aquatic Toxicology, 2010, 98, 74-82.	4.0	41
31	Developmental Expression of the Nfe2-Related Factor (Nrf) Transcription Factor Family in the Zebrafish, Danio rerio. PLoS ONE, 2013, 8, e79574.	2.5	40
32	Perspectives on zebrafish as a model in environmental toxicology. Fish Physiology, 2010, , 367-439.	0.8	38
33	Genetic and structural analyses of cytochrome P450 hydroxylases in sex hormone biosynthesis: Sequential origin and subsequent coevolution. Molecular Phylogenetics and Evolution, 2016, 94, 676-687.	2.7	35
34	Cytochrome P450 CYP2 genes in the common cormorant: Evolutionary relationships with 130 diapsid CYP2 clan sequences and chemical effects on their expression. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2011, 153, 280-289.	2.6	31
35	The cytochrome P450 2AA gene cluster in zebrafish (Danio rerio): Expression of CYP2AA1 and CYP2AA2 and response to phenobarbital-type inducers. Toxicology and Applied Pharmacology, 2013, 272, 172-179.	2.8	31
36	Environmental contaminants activate human and polar bear (Ursus maritimus) pregnane X receptors (PXR, NR1I2) differently. Toxicology and Applied Pharmacology, 2015, 284, 54-64.	2.8	31

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37	A Multicomponent Model of Chromophoric Dissolved Organic Matter PhotobleachingÂ¶Â§. Photochemistry and Photobiology, 2004, 80, 52.	2.5	30
38	Cytochrome P450 1A, 1B, and 1C mRNA induction patterns in three-spined stickleback exposed to a transient and a persistent inducer. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2011, 154, 42-55.	2.6	30
39	Cloning a new cytochrome P450 isoform (CYP356A1) from oyster Crassostrea gigas. Marine Environmental Research, 2008, 66, 15-18.	2.5	29
40	Independent losses of a xenobiotic receptor across teleost evolution. Scientific Reports, 2018, 8, 10404.	3.3	26
41	Myelin sheaths are formed with proteins that originated in vertebrate lineages. Neuron Glia Biology, 2008, 4, 137-152.	1.6	24
42	Identification, modeling and ligand affinity of early deuterostome CYP51s, and functional characterization of recombinant zebrafish sterol 14Î±-demethylase. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 1825-1836.	2.4	24
43	Cytochrome P450 diversity and induction by gorgonian allelochemicals in the marine gastropod Cyphoma gibbosum. BMC Ecology, 2010, 10, 24.	3.0	23
44	Functional characterization of zebrafish cytochrome P450 1 family proteins expressed in yeast. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 2340-2352.	2.4	23
45	Sex-dependent expression of anti-MÃ¼llerian hormone (amh) and amh receptor 2 during sex organ differentiation and characterization of the MÃ¼llerian duct development in Xenopus tropicalis. General and Comparative Endocrinology, 2016, 229, 132-144.	1.8	22
46	Proteomic identification, cDNA cloning and enzymatic activity of glutathione S-transferases from the generalist marine gastropod, Cyphoma gibbosum. Archives of Biochemistry and Biophysics, 2008, 478, 7-17.	3.0	21
47	Cytochrome P450 20A1 in zebrafish: Cloning, regulation and potential involvement in hyperactivity disorders. Toxicology and Applied Pharmacology, 2016, 296, 73-84.	2.8	20
48	Isolation and phylogeny of novel cytochrome P450 genes from tunicates (Ciona spp.): A CYP3 line in early deuterostomes?. Molecular Phylogenetics and Evolution, 2006, 40, 760-771.	2.7	19
49	Gene structure of the novel cytochrome P4501D1 genes in stickleback (Gasterosteus aculeatus) and medaka (Oryzias latipes). Marine Environmental Research, 2008, 66, 19-20.	2.5	19
50	New CYP1 genes in the frog Xenopus (Silurana) tropicalis: Induction patterns and effects of AHR agonists during development. Toxicology and Applied Pharmacology, 2011, 250, 170-183.	2.8	19
51	Concerning P450 Evolution: Structural Analyses Support Bacterial Origin of Sterol 14Î±-Demethylases. Molecular Biology and Evolution, 2021, 38, 952-967.	8.9	19
52	The chemical defensome of five model teleost fish. Scientific Reports, 2021, 11, 10546.	3.3	19
53	Applying evolutionary genetics to developmental toxicology and risk assessment. Reproductive Toxicology, 2017, 69, 174-186.	2.9	15
54	The role of multixenobiotic transporters in predatory marine molluscs as counter-defense mechanisms against dietary allelochemicals. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2010, 152, 288-300.	2.6	14

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55	Expression and function of ryanodine receptor related pathways in PCB tolerant Atlantic killifish (Fundulus heteroclitus) from New Bedford Harbor, MA, USA. Aquatic Toxicology, 2015, 159, 156-166.	4.0	14
56	Ryanodine receptor and FK506 binding protein 1 in the Atlantic killifish (Fundulus heteroclitus): A phylogenetic and population-based comparison. Aquatic Toxicology, 2017, 192, 105-115.	4.0	13
57	Metabolic arsenal of giant viruses: Host hijack or self-use?. ELife, 0, 11, .	6.0	12
58	Molecular adaptation to high pressure in cytochrome P450 1A and aryl hydrocarbon receptor systems of the deep-sea fish Coryphaenoides armatus. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 155-165.	2.3	9
59	CRISPR-Cas9-Mutated Pregnane X Receptor (pxr) Retains Pregnenolone-induced Expression of cyp3a65 in Zebrafish (Danio rerio) Larvae. Toxicological Sciences, 2020, 174, 51-62.	3.1	9
60	Structural features of cytochrome P450 1A associated with the absence of EROD activity in liver of the loricariid catfish Pterygoplichthys sp.. Gene, 2011, 489, 111-118.	2.2	8
61	EZR1: A Novel Family of Highly Expressed Retroelements Induced by TCDD and Regulated by a NF-ÎºB-Like Factor in Embryos of Zebrafish (Danio rerio). Zebrafish, 2012, 9, 15-25.	1.1	7
62	The cytochrome P450 (CYP) superfamily in cnidarians. Scientific Reports, 2021, 11, 9834.	3.3	7
63	Resolving the Rules of Robustness and Resilience in Biology Across Scales. Integrative and Comparative Biology, 2022, 61, 2163-2179.	2.0	7
64	Biochemical Mechanisms for Geographical Adaptations to Novel Toxin Exposures in Butterflyfish. PLoS ONE, 2016, 11, e0154208.	2.5	7
65	Developmental exposure to non-dioxin-like polychlorinated biphenyls promotes sensory deficits and disrupts dopaminergic and GABAergic signaling in zebrafish. Communications Biology, 2021, 4, 1129.	4.4	7
66	Sequence Variations in pxr (nr1i2) From Zebrafish (Danio rerio) Strains Affect Nuclear Receptor Function. Toxicological Sciences, 2019, 168, 28-39.	3.1	6
67	Orphan cytochrome P450 20a1 CRISPR/Cas9 mutants and neurobehavioral phenotypes in zebrafish. Scientific Reports, 2021, 11, 23892.	3.3	5
68	Resistance to Cyp3a induction by polychlorinated biphenyls, including non-dioxin-like PCB153, in gills of killifish (Fundulus heteroclitus) from New Bedford Harbor. Environmental Toxicology and Pharmacology, 2021, 83, 103580.	4.0	4
69	Polycyclic aromatic hydrocarbons modulate the activity of Atlantic cod (Gadus morhua) vitamin D receptor paralogs in vitro. Aquatic Toxicology, 2021, 238, 105914.	4.0	4
70	Developmental Regulation of Nuclear Factor Erythroid-2 Related Factors (nrfs) by AHR1b in Zebrafish (Danio rerio). Toxicological Sciences, 2019, 167, 536-545.	3.1	3
71	A Multicomponent Model of Chromophoric Dissolved Organic Matter Photobleaching^{Â¶}^{Â§}. Photochemistry and Photobiology, 2004, 80, 52-60.	2.5	2
72	Methodological Approaches to Cytochrome P450 Profiling in Embryos. Methods in Molecular Biology, 2012, 889, 265-275.	0.9	0