Denis Broock Rosemberg

List of Publications by Year
in descending order

124 papers	5,088 citations	101384 36 h-index	106150 65 g-index
127 all docs	127 docs citations	127 times ranked	4361 citing authors

#	Article	IF	Citations
1	Towards a Comprehensive Catalog of Zebrafish Behavior 1.0 and Beyond. Zebrafish, 2013, 10, 70-86.	0.5	795
2	Measures of Anxiety in Zebrafish (Danio rerio): Dissociation of Black/White Preference and Novel Tank Test. PLoS ONE, 2012, 7, e36931.	1.1	228
3	The developing utility of zebrafish models of neurological and neuropsychiatric disorders: A critical review. Experimental Neurology, 2018, 299, 157-171.	2.0	188
4	Acetylcholinesterase activity and antioxidant capacity of zebrafish brain is altered by heavy metal exposure. NeuroToxicology, 2011, 32, 116-122.	1.4	172
5	Zebrafish neurotransmitter systems as potential pharmacological and toxicological targets. Neurotoxicology and Teratology, 2011, 33, 608-617.	1.2	170
6	Comparative Analyses of Zebrafish Anxiety-Like Behavior Using Conflict-Based Novelty Tests. Zebrafish, 2017, 14, 197-208.	0.5	169
7	Differences in Spatio-Temporal Behavior of Zebrafish in the Open Tank Paradigm after a Short-Period Confinement into Dark and Bright Environments. PLoS ONE, 2011, 6, e19397.	1.1	136
8	Behavioral effects of taurine pretreatment in zebrafish acutely exposed to ethanol. Neuropharmacology, 2012, 63, 613-623.	2.0	121
9	Seizures Induced by Pentylenetetrazole in the Adult Zebrafish: A Detailed Behavioral Characterization. PLoS ONE, 2013, 8, e54515.	1.1	104
10	Taurine prevents enhancement of acetylcholinesterase activity induced by acute ethanol exposure and decreases the level of markers of oxidative stress in zebrafish brain. Neuroscience, 2010, 171, 683-692.	1.1	96
11	A comparison of the light/dark and novel tank tests in zebrafish. Behaviour, 2012, 149, 1099-1123.	0.4	76
12	Subchronic atrazine exposure changes defensive behaviour profile and disrupts brain acetylcholinesterase activity of zebrafish. Neurotoxicology and Teratology, 2014, 44, 62-69.	1.2	76
13	The role of taurine on anxiety-like behaviors in zebrafish: A comparative study using the novel tank and the lightâ€“dark tasks. Neuroscience Letters, 2016, 613, 19-24.	1.0	76
14	Ethanol alters acetylcholinesterase activity and gene expression in zebrafish brain. Toxicology Letters, 2007, 174, 25-30.	0.4	75
15	Chronic Treatment with Paraquat Induces Brain Injury, Changes in Antioxidant Defenses System, and Modulates Behavioral Functions in Zebrafish. Molecular Neurobiology, 2017, 54, 3925-3934.	1.9	70
16	Strain- and context-dependent behavioural responses of acute alarm substance exposure in zebrafish. Behavioural Processes, 2016, 122, 1-11.	0.5	69
17	Modulatory effect of resveratrol on SIRT1, SIRT3, SIRT4, PGC1Î± and NAMPT gene expression profiles in wild-type adult zebrafish liver. Molecular Biology Reports, 2012, 39, 3281-3289.	1.0	65
18	Conspecific alarm substance differently alters group behavior of zebrafish populations: Putative involvement of cholinergic and purinergic signaling in anxiety- and fear-like responses. Behavioural Brain Research, 2017, 320, 255-263.	1.2	62

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19	Methanol alters ecto-nucleotidases and acetylcholinesterase in zebrafish brain. Neurotoxicology and Teratology, 2006, 28, 489-496.	1.2	56
20	NTPDase family in zebrafish: Nucleotide hydrolysis, molecular identification and gene expression profiles in brain, liver and heart. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2010, 155, 230-240.	0.7	56
21	Understanding zebrafish aggressive behavior. Behavioural Processes, 2019, 158, 200-210.	0.5	56
22	Involvement of purinergic system in inflammation and toxicity induced by copper in zebrafish larvae. Toxicology and Applied Pharmacology, 2013, 272, 681-689.	1.3	54
23	Modulatory action of taurine on ethanol-induced aggressive behavior in zebrafish. Pharmacology Biochemistry and Behavior, 2016, 141, 18-27.	1.3	53
24	Different effects of caffeine on behavioral neurophenotypes of two zebrafish populations. Pharmacology Biochemistry and Behavior, 2018, 165, 1-8.	1.3	50
25	Acute Restraint Stress in Zebrafish: Behavioral Parameters and Purinergic Signaling. Neurochemical Research, 2011, 36, 1876-1886.	1.6	49
26	Copper acutely impairs behavioral function and muscle acetylcholinesterase activity in zebrafish (Danio rerio). Ecotoxicology and Environmental Safety, 2015, 122, 440-447.	2.9	48
27	Zebrafish models relevant to studying central opioid and endocannabinoid systems. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2018, 86, 301-312.	2.5	48
28	Stress responses to conspecific visual cues of predation risk in zebrafish. PeerJ, 2017, 5, e3739.	0.9	48
29	Expression and functional analysis of Na+-dependent glutamate transporters from zebrafish brain. Brain Research Bulletin, 2010, 81, 517-523.	1.4	46
30	Biochemical and behavioral deficits in the lobster cockroach Nauphoeta cinerea model of methylmercury exposure. Toxicology Research, 2015, 4, 442-451.	0.9	46
31	In vitro effect of zinc and cadmium on acetylcholinesterase and ectonucleotidase activities in zebrafish (Danio rerio) brain. Toxicology in Vitro, 2006, 20, 954-958.	1.1	45
32	Aquatic toxicology of fluoxetine: Understanding the knowns and the unknowns. Aquatic Toxicology, 2014, 156, 269-273.	1.9	44
33	Taurine modulates the stress response in zebrafish. Hormones and Behavior, 2019, 109, 44-52.	1.0	43
34	Repeated ethanol exposure alters social behavior and oxidative stress parameters of zebrafish. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2017, 79, 105-111.	2.5	41
35	Sodium Selenite Prevents Paraquat-Induced Neurotoxicity in Zebrafish. Molecular Neurobiology, 2018, 55, 1928-1941.	1.9	41
36	The Janus face of caffeine. Neurochemistry International, 2013, 63, 594-609.	1.9	38

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37	Understanding nociception-related phenotypes in adult zebrafish: Behavioral and pharmacological characterization using a new acetic acid model. Behavioural Brain Research, 2019, 359, 570-578.	1.2	38
38	Carbofuran and malathion inhibit nucleotide hydrolysis in zebrafish (Danio rerio) brain membranes. Toxicology, 2005, 212, 107-115.	2.0	37
39	Lycorine induces cell death in the amitochondriate parasite, Trichomonas vaginalis, via an alternative non-apoptotic death pathway. Phytochemistry, 2011, 72, 645-650.	1.4	37
40	Anxiolytic effects of diphenyl diselenide on adult zebrafish in a novelty paradigm. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2014, 54, 187-194.	2.5	37
41	Extending the analysis of zebrafish behavioral endophenotypes for modeling psychiatric disorders: Fear conditioning to conspecific alarm response. Behavioural Processes, 2018, 149, 35-42.	0.5	37
42	Zebrafish models for attention deficit hyperactivity disorder (ADHD). Neuroscience and Biobehavioral Reviews, 2019, 100, 9-18.	2.9	35
43	Protective effect of Uncaria tomentosa extract against oxidative stress and genotoxicity induced by glyphosate-RoundupÂ® using zebrafish (Danio rerio) as a model. Environmental Science and Pollution Research, 2018, 25, 11703-11715.	2.7	34
44	Acute restraint stress induces an imbalance in the oxidative status of the zebrafish brain. Neuroscience Letters, 2014, 558, 103-108.	1.0	33
45	Short-term high-fat diet induces cognitive decline, aggression, and anxiety-like behavior in adult zebrafish. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2021, 110, 110288.	2.5	32
46	Ethanol and acetaldehyde alter NTPDase and 5â€²-nucleotidase from zebrafish brain membranes. Neurochemistry International, 2008, 52, 290-296.	1.9	31
47	Adenosine deaminase-related genes: Molecular identification, tissue expression pattern and truncated alternative splice isoform in adult zebrafish (Danio rerio). Life Sciences, 2007, 81, 1526-1534.	2.0	30
48	Trichomonas vaginalis nucleoside triphosphate diphosphohydrolase and ecto-5â€²-nucleotidase activities are inhibited by lycorine and candimine. Parasitology International, 2010, 59, 226-231.	0.6	30
49	Neurobehavioral and biochemical changes in Nauphoeta cinerea following dietary exposure to chlorpyrifos. Pesticide Biochemistry and Physiology, 2016, 130, 22-30.	1.6	29
50	Taurine modulates acute ethanol-induced social behavioral deficits and fear responses in adult zebrafish. Journal of Psychiatric Research, 2018, 104, 176-182.	1.5	29
51	Ketamine modulates aggressive behavior in adult zebrafish. Neuroscience Letters, 2018, 684, 164-168.	1.0	29
52	Candimine-Induced Cell Death of the Amitochondriate Parasite Trichomonas vaginalis. Journal of Natural Products, 2010, 73, 2019-2023.	1.5	28
53	Modulatory role of conspecific alarm substance on aggression and brain monoamine oxidase activity in two zebrafish populations. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2018, 86, 322-330.	2.5	27
54	Kinetic characterization of adenosine deaminase activity in zebrafish (Danio rerio) brain. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2008, 151, 96-101.	0.7	26

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55	Evaluation of spontaneous recovery of behavioral and brain injury profiles in zebrafish after hypoxia. Behavioural Brain Research, 2013, 253, 145-151.	1.2	25
56	Effects of ethanol and acetaldehyde in zebrafish brain structures: An in vitro approach on glutamate uptake and on toxicity-related parameters. Toxicology in Vitro, 2014, 28, 822-828.	1.1	25
57	Neuroprotection of luteolin against methylmercury-induced toxicity in lobster cockroach Nauphoeta cinerea. Environmental Toxicology and Pharmacology, 2016, 42, 243-251.	2.0	25
58	Nicotine prevents anxiety-like behavioral responses in zebrafish. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2019, 94, 109655.	2.5	25
59	Sensory ecology of ostariophysan alarm substances. Journal of Fish Biology, 2019, 95, 274-286.	0.7	23
60	Three- and bi-dimensional analyses of the shoaling behavior in zebrafish: Influence of modulators of anxiety-like responses. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2020, 102, 109957.	2.5	23
61	Understanding the neurobiological effects of drug abuse: Lessons from zebrafish models. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2020, 100, 109873.	2.5	23
62	Nicotine increases fear responses and brain acetylcholinesterase activity in a context-dependent manner in zebrafish. Pharmacology Biochemistry and Behavior, 2018, 170, 36-43.	1.3	22
63	Chronic ethanol treatment alters purine nucleotide hydrolysis and nucleotidase gene expression pattern in zebrafish brain. NeuroToxicology, 2011, 32, 871-878.	1.4	21
64	Iron exposure modifies acetylcholinesterase activity in zebrafish (Danio rerio) tissues: distinct susceptibility of tissues to iron overload. Fish Physiology and Biochemistry, 2011, 37, 573-581.	0.9	21
65	Hyperglycemia elicits anxiety-like behaviors in zebrafish: Protective role of dietary diphenyl diselenide. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2018, 85, 128-135.	2.5	21
66	Modeling psychiatric comorbid symptoms of epileptic seizures in zebrafish. Journal of Psychiatric Research, 2019, 119, 14-22.	1.5	21
67	Biochemical and Behavioral Responses in Zebrafish Exposed to Imidacloprid Oxidative Damage and Antioxidant Responses. Archives of Environmental Contamination and Toxicology, 2021, 81, 255-264.	2.1	21
68	Acute and subchronic copper treatments alter extracellular nucleotide hydrolysis in zebrafish brain membranes. Toxicology, 2007, 236, 132-139.	2.0	20
69	Zebrafish as a Model Organism to Evaluate Drugs Potentially Able to Modulate Sirtuin Expression. Zebrafish, 2011, 8, 9-16.	0.5	20
70	MK-801 alters Na+, K+-ATPase activity and oxidative status in zebrafish brain: reversal by antipsychotic drugs. Journal of Neural Transmission, 2012, 119, 661-667.	1.4	19
71	Understanding the Role of Environmental Enrichment in Zebrafish Neurobehavioral Models. Zebrafish, 2018, 15, 425-432.	0.5	19
72	Taurine Protects from Pentylenetetrazole-Induced Behavioral and Neurochemical Changes in Zebrafish. Molecular Neurobiology, 2019, 56, 583-594.	1.9	19

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73	Neuroprotective role of taurine on MK-801-induced memory impairment and hyperlocomotion in zebrafish. Neurochemistry International, 2020, 135, 104710.	1.9	19
74	Using zebrafish (Danio rerio) models to understand the critical role of social interactions in mental health and wellbeing. Progress in Neurobiology, 2022, 208, 101993.	2.8	18
75	Brain zinc chelation by diethyldithiocarbamate increased the behavioral and mitochondrial damages in zebrafish subjected to hypoxia. Scientific Reports, 2016, 6, 20279.	1.6	17
76	Pseudomonas aeruginosa strain PAO1 infection impairs locomotor activity in experimentally infected Rhamdia quelen: Interplay between a stress response and brain neurotransmitters. Aquaculture, 2017, 473, 74-79.	1.7	17
77	Role of the serotonergic system in ethanol-induced aggression and anxiety: A pharmacological approach using the zebrafish model. European Neuropsychopharmacology, 2020, 32, 66-76.	0.3	17
78	Understanding taurine CNS activity using alternative zebrafish models. Neuroscience and Biobehavioral Reviews, 2017, 83, 525-539.	2.9	16
79	Modulation of redox and insulin signaling underlie the anti-hyperglycemic and antioxidant effects of diphenyl diselenide in zebrafish. Free Radical Biology and Medicine, 2020, 158, 20-31.	1.3	16
80	Phasic and tonic serotonin modulate alarm reactions and postâ€exposure behavior in zebrafish. Journal of Neurochemistry, 2020, 153, 495-509.	2.1	16
81	Influence of mercury chloride on adenosine deaminase activity and gene expression in zebrafish (Danio rerio) brain. NeuroToxicology, 2010, 31, 291-296.	1.4	15
82	Neurochemical mechanisms underlying acute and chronic ethanol-mediated responses in zebrafish: The role of mitochondrial bioenergetics. Neurochemistry International, 2019, 131, 104584.	1.9	15
83	Evaluation of methylglyoxal toxicity in human erythrocytes, leukocytes and platelets. Toxicology Mechanisms and Methods, 2017, 27, 307-317.	1.3	14
84	Naloxone prolongs abdominal constriction writhing-like behavior in a zebrafish-based pain model. Neuroscience Letters, 2019, 708, 134336.	1.0	14
85	Taurine prevents memory consolidation deficits in a novel alcohol-induced blackout model in zebrafish. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2019, 93, 39-45.	2.5	14
86	Analysis of the NTPDase and ecto-5'-nucleotidase profiles in serum-limited Trichomonas vaginalis. Memorias Do Instituto Oswaldo Cruz, 2012, 107, 170-177.	0.8	13
87	Involvement of anxiety-like behaviors and brain oxidative stress in the chronic effects of alarm reaction in zebrafish populations. Neurochemistry International, 2019, 129, 104488.	1.9	13
88	Exploring Object Discrimination in Zebrafish: Behavioral Performance and Scopolamine-Induced Cognitive Deficits at Different Retention Intervals. Zebrafish, 2019, 16, 370-378.	0.5	13
89	Zebrafish in Brazilian Science: Scientific Production, Impact, and Collaboration. Zebrafish, 2016, 13, 217-225.	0.5	12
90	Azadirachtin, a neemâ€derived biopesticide, impairs behavioral and hematological parameters in carp (Cyprinus carpio). Environmental Toxicology, 2016, 31, 1381-1388.	2.1	11

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91	Concomitant taurine exposure counteracts ethanol-induced changes in locomotor and anxiety-like responses in zebrafish. Psychopharmacology, 2020, 237, 735-743.	1.5	11
92	Diet with Diphenyl Diselenide Mitigates Quinclorac Toxicity in Silver Catfish (Rhamdia quelen). PLoS ONE, 2014, 9, e114233.	1.1	11
93	Methionine Exposure Alters Glutamate Uptake and Adenine Nucleotide Hydrolysis in the Zebrafish Brain. Molecular Neurobiology, 2016, 53, 200-209.	1.9	10
94	Lactobacillus rhamnosus GG Effect on Behavior of Zebrafish During Chronic Ethanol Exposure. BioResearch Open Access, 2016, 5, 1-5.	2.6	10
95	Hydropower reservoirs: cytotoxic and genotoxic assessment using the Allium cepa root model. Environmental Science and Pollution Research, 2017, 24, 8759-8768.	2.7	10
96	Single pentylenetetrazole exposure increases aggression in adult zebrafish at different time intervals. Neuroscience Letters, 2019, 692, 27-32.	1.0	10
97	Zebrafish as a potential non-traditional model organism in translational bipolar disorder research: Genetic and behavioral insights. Neuroscience and Biobehavioral Reviews, 2022, 136, 104620.	2.9	10
98	Evidence that acute taurine treatment alters extracellular AMP hydrolysis and adenosine deaminase activity in zebrafish brain membranes. Neuroscience Letters, 2010, 481, 105-109.	1.0	9
99	Taurine-mediated aggression is abolished via 5-HT1A antagonism and serotonin depletion in zebrafish. Pharmacology Biochemistry and Behavior, 2020, 199, 173067.	1.3	9
100	Cross-species Analyses of Intra-species Behavioral Differences in Mammals and Fish. Neuroscience, 2020, 429, 33-45.	1.1	9
101	The Use of Zebrafish as a Non-traditional Model Organism in Translational Pain Research: The Knowns and the Unknowns. Current Neuropharmacology, 2022, 20, 476-493.	1.4	9
102	Acute effects of ethanol on behavioral responses of male and female zebrafish in the open field test with the influence of a non-familiar object. Behavioural Processes, 2021, 191, 104474.	0.5	9
103	Trichomonas vaginalis: Dehydroepiandrosterone sulfate and 17Î²-estradiol alter NTPDase activity and gene expression. Experimental Parasitology, 2010, 125, 187-195.	0.5	8
104	Zebrafish exposure to diphenyl diselenide-loaded polymeric nanocapsules caused no behavioral impairments and brain oxidative stress. Journal of Trace Elements in Medicine and Biology, 2019, 53, 62-68.	1.5	8
105	Taurine modulates behavioral effects of intermittent ethanol exposure without changing brain monoamine oxidase activity in zebrafish: Attenuation of shoal- and anxiety-like responses, and abolishment of memory acquisition deficit. Pharmacology Biochemistry and Behavior, 2021, 209, 173256.	1.3	8
106	Taurine prevents MK-801-induced shoal dispersion and altered cortisol responses in zebrafish. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2021, 111, 110399.	2.5	8
107	Kinetic characterization and gene expression of adenosine deaminase in intact trophozoites of Trichomonas vaginalis. FEMS Microbiology Letters, 2011, 319, 115-124.	0.7	7
108	Just Keep Swimming: Neuroendocrine, Metabolic, and Behavioral Changes After a Forced Swimming Test in Zebrafish. Zebrafish, 2017, 14, 51-59.	0.5	7

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109	Cholinergic system and exploratory behavior are changed after weekly-binge ethanol exposure in zebrafish. Pharmacology Biochemistry and Behavior, 2019, 186, 172790.	1.3	7
110	Stress increases susceptibility to pentylenetetrazole-induced seizures in adult zebrafish. Epilepsy and Behavior, 2021, 114, 107557.	0.9	7
111	Topographical Analysis of Reactive Zinc in the Central Nervous System of Adult Zebrafish (Danio) Tj ETQq1 1 0.784314 rgBT /Overloc	0.5	6
112	Adenosine deaminase activity and gene expression patterns are altered after chronic ethanol exposure in zebrafish brain. Neurotoxicology and Teratology, 2018, 65, 14-18.	1.2	5
113	A novel behavioral paradigm to measure anxiety-like behaviors in zebrafish by the concomitant assessment of geotaxis and scototaxis. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2022, 118, 110579.	2.5	5
114	Long-term proline exposure alters nucleotide catabolism and ectonucleotidase gene expression in zebrafish brain. Metabolic Brain Disease, 2012, 27, 541-549.	1.4	4
115	Induction of aggression and anxiety-like responses by perfluorooctanoic acid is accompanied by modulation of cholinergic- and purinergic signaling-related parameters in adult zebrafish. Ecotoxicology and Environmental Safety, 2022, 239, 113635.	2.9	4
116	Predictable chronic stress modulates behavioral and neuroendocrine phenotypes of zebrafish: Influence of two homotypic stressors on stress-mediated responses. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2021, 247, 109030.	1.3	3
117	Prolonged ethanol exposure alters glutamate uptake leading to astrogliosis and neuroinflammation in adult zebrafish brain. NeuroToxicology, 2022, 88, 57-64.	1.4	3
118	Understanding sex differences in zebrafish pain- and fear-related behaviors. Neuroscience Letters, 2022, 772, 136412.	1.0	3
119	Towards Modeling Anhedonia and Its Treatment in Zebrafish. International Journal of Neuropsychopharmacology, 2022, 25, 293-306.	1.0	3
120	Exploring CNS effects of American traditional medicines using zebrafish models. Current Neuropharmacology, 2021, 19, .	1.4	2
121	Ketamine acutely impairs memory consolidation and repeated exposure promotes stereotyped behavior without changing anxiety- and aggression-like parameters in adult zebrafish. Physiology and Behavior, 2022, 247, 113708.	1.0	2
122	Influence of acid-sensing ion channel blocker on behavioral responses in a zebrafish model of acute visceral pain. Behavioural Brain Research, 2022, 416, 113565.	1.2	1
123	Nociception-related behavioral phenotypes in adult zebrafish. , 2022, , 387-393.		1
124	Understanding early-life pain and its effects on adult human and animal emotionality: Translational lessons from rodent and zebrafish models. Neuroscience Letters, 2021, 768, 136382.	1.0	1