Xavier Cousin

List of Publications by Year
in descending order

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79 papers	3,198 citations	126708 33 h-index	161609 54 g-index
84 all docs	84 docs citations	84 times ranked	4093 citing authors

#	Article	IF	Citations
1	Environmental microplastics disrupt swimming activity in acute exposure in Danio rerio larvae and reduce growth and reproduction success in chronic exposure in D. rerio and Oryzias melastigma. Environmental Pollution, 2022, 308, 119721.	3.7	16
2	Sources of variation of DNA methylation in rainbow trout: combined effects of temperature and genetic background. Epigenetics, 2021, 16, 1031-1052.	1.3	19
3	An environmentally relevant mixture of polychlorinated biphenyls (PCBs) and polybrominated diphenylethers (PBDEs) disrupts mitochondrial function, lipid metabolism and neurotransmission in the brain of exposed zebrafish and their unexposed F2 offspring. Science of the Total Environment, 2021, 754, 142097.	3.9	21
4	A comparison of behavioral and reproductive parameters between wild-type, transgenic and mutant zebrafish: Could they all be considered the same â€œzebrafishâ€•for reglementary assays on endocrine disruption?. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2021, 239, 108879.	1.3	3
5	Chemicals sorbed to environmental microplastics are toxic to early life stages of aquatic organisms. Ecotoxicology and Environmental Safety, 2021, 208, 111665.	2.9	54
6	Genetic Parameters and Genome-Wide Association Studies of Quality Traits Characterised Using Imaging Technologies in Rainbow Trout, Oncorhynchus mykiss. Frontiers in Genetics, 2021, 12, 639223.	1.1	15
7	The insecticide permethrin induces transgenerational behavioral changes linked to transcriptomic and epigenetic alterations in zebrafish (Danio rerio). Science of the Total Environment, 2021, 779, 146404.	3.9	20
8	Chronic feeding exposure to virgin and spiked microplastics disrupts essential biological functions in teleost fish. Journal of Hazardous Materials, 2021, 415, 125626.	6.5	45
9	A review of the effects of contamination and temperature in Solea solea larvae. Modeling perspectives in the context of climate change. Journal of Sea Research, 2021, 176, 102101.	0.6	2
10	Global assessment of the response to chronic stress in European sea bass. Aquaculture, 2021, 544, 737072.	1.7	15
11	Microplastics and sorbed contaminants â€“ Trophic exposure in fish sensitive early life stages. Marine Environmental Research, 2020, 161, 105126.	1.1	17
12	Multi- and transgenerational effects following early-life exposure of zebrafish to permethrin and coumarin 47: Impact on growth, fertility, behavior and lipid metabolism. Ecotoxicology and Environmental Safety, 2020, 205, 111348.	2.9	16
13	Low temperature has opposite effects on sex determination in a marine fish at the larval/postlarval and juvenile stages. Ecology and Evolution, 2020, 10, 13825-13835.	0.8	15
14	Organic contaminants sorbed to microplastics affect marine medaka fish early life stages development. Marine Pollution Bulletin, 2020, 154, 111059.	2.3	77
15	Spatial distribution and activity patterns as welfare indicators in response to water quality changes in European sea bass, Dicentrarchus labrax. Applied Animal Behaviour Science, 2020, 226, 104974.	0.8	28
16	Zebrafish Danio rerio shows behavioural crossâ€context consistency at larval and juvenile stages but no consistency between stages. Journal of Fish Biology, 2020, 96, 1411-1421.	0.7	11
17	Refinement of an OECD test guideline for evaluating the effects of endocrine disrupting chemicals on aromatase gene expression and reproduction using novel transgenic cyp19a1a-eGFP zebrafish. Aquatic Toxicology, 2020, 220, 105403.	1.9	13
18	Insights on Ecotoxicological Effects of Microplastics in Marine Ecosystems: The EPHEMARE Project. Springer Water, 2020, , 12-19.	0.2	0

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19	Multi-Laboratory Hazard Assessment of Contaminated Microplastic Particles by Means of Enhanced Fish Embryo Test With the Zebrafish (Danio rerio). Frontiers in Environmental Science, 2019, 7, .	1.5	28
20	Examining multi- and transgenerational behavioral and molecular alterations resulting from parental exposure to an environmental PCB and PBDE mixture. Aquatic Toxicology, 2019, 208, 29-38.	1.9	42
21	Genetic and Genomic Characterization of Soles. , 2019, , 375-394.		6
22	Fish life-history traits are affected after chronic dietary exposure to an environmentally realistic marine mixture of PCBs and PBDEs. Science of the Total Environment, 2018, 610-611, 531-545.	3.9	43
23	An ecotoxicological view on neurotoxicity assessment. Environmental Sciences Europe, 2018, 30, 46.	2.6	168
24	Evaluation of different tags on survival, growth and stress response in the flatfish Senegalese sole. Aquaculture, 2018, 494, 10-18.	1.7	5
25	Ingestion and contact with polyethylene microplastics does not cause acute toxicity on marine zooplankton. Journal of Hazardous Materials, 2018, 360, 452-460.	6.5	155
26	Transcriptional regulation of genes involved in retinoic acid metabolism in Senegalese sole larvae. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2017, 203, 35-46.	0.7	10
27	Changes in Brain Monoamines Underlie Behavioural Disruptions after Zebrafish Diet Exposure to Polycyclic Aromatic Hydrocarbons Environmental Mixtures. International Journal of Molecular Sciences, 2017, 18, 560.	1.8	22
28	Fish Reproduction Is Disrupted upon Lifelong Exposure to Environmental PAHs Fractions Revealing Different Modes of Action. Toxics, 2016, 4, 26.	1.6	21
29	Current status in other finfish species. , 2016, , 195-221.		12
30	Trophic contamination by pyrolytic polycyclic aromatic hydrocarbons does not affect aerobic metabolic scope in zebrafish Danio rerio. Journal of Fish Biology, 2016, 88, 433-442.	0.7	7
31	Bioassay battery interlaboratory investigation of emerging contaminants in spiked water extracts â€“ Towards the implementation of bioanalytical monitoring tools in water quality assessment and monitoring. Water Research, 2016, 104, 473-484.	5.3	71
32	Molecular characterization and transcriptional regulation of the reninâ€“angiotensin system genes in Senegalese sole (Solea senegalensis Kaup, 1858): Differential gene regulation by salinity. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 184, 6-19.	0.8	10
33	Exposures of zebrafish through diet to three environmentally relevant mixtures of PAHs produce behavioral disruptions in unexposed F1 and F2 descendant. Environmental Science and Pollution Research, 2015, 22, 16371-16383.	2.7	34
34	Parental trophic exposure to three aromatic fractions of polycyclic aromatic hydrocarbons in the zebrafish: Consequences for the offspring. Science of the Total Environment, 2015, 524-525, 52-62.	3.9	19
35	Two novel COLVI long chains in zebrafish that are essential for muscle development. Human Molecular Genetics, 2015, 24, 6624-6639.	1.4	18
36	Molecular and functional characterization of seven Na+/K+-ATPase Î² subunit paralogs in Senegalese sole (Solea senegalensis Kaup, 1858). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2015, 182, 14-26.	0.7	17

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37	Environmental concentrations of benz[a]anthracene induce developmental defects and DNA damage and impair photomotor response in Japanese medaka larvae. Ecotoxicology and Environmental Safety, 2015, 113, 321-328.	2.9	24
38	Influence of sediment composition on PAH toxicity using zebrafish (Danio rerio) and Japanese medaka (Oryzias latipes) embryo-larval assays. Environmental Science and Pollution Research, 2014, 21, 13703-13719.	2.7	31
39	De novo assembly, characterization and functional annotation of Senegalese sole (Solea) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 microarray. BMC Genomics, 2014, 15, 952.	1.2	83
40	Early individual electronic identification of sea bass using RFID microtags: A first example of early phenotyping of sex-related growth. Aquaculture, 2014, 426-427, 165-171.	1.7	15
41	Chronic dietary exposure to pyrolytic and petrogenic mixtures of PAHs causes physiological disruption in zebrafishâ€"part II: behavior. Environmental Science and Pollution Research, 2014, 21, 13818-13832.	2.7	49
42	Development of a reference artificial sediment for chemical testing adapted to the MELA sediment contact assay. Environmental Science and Pollution Research, 2014, 21, 13689-13702.	2.7	16
43	Allometric relationship between body mass and aerobic metabolism in zebrafish Danio rerio. Journal of Fish Biology, 2014, 84, 1171-1178.	0.7	19
44	Chronic dietary exposure to pyrolytic and petrogenic mixtures of PAHs causes physiological disruption in zebrafish - part I: Survival and growth. Environmental Science and Pollution Research, 2014, 21, 13804-13817.	2.7	43
45	Molecular characterization and transcriptional regulation of the Na+/K+ ATPase Î± subunit isoforms during development and salinity challenge in a teleost fish, the Senegalese sole (Solea senegalensis). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2014, 175, 23-38.	0.7	56
46	Long-term disruption of growth, reproduction, and behavior after embryonic exposure of zebrafish to PAH-spiked sediment. Environmental Science and Pollution Research, 2014, 21, 13877-13887.	2.7	62
47	Developmental toxicity of PAH mixtures in fish early life stages. Part II: adverse effects in Japanese medaka. Environmental Science and Pollution Research, 2014, 21, 13732-13743.	2.7	59
48	Developmental toxicity of PAH mixtures in fish early life stages. Part I: adverse effects in rainbow trout. Environmental Science and Pollution Research, 2014, 21, 13720-13731.	2.7	42
49	Chronic dietary exposure of zebrafish to PAH mixtures results in carcinogenic but not genotoxic effects. Environmental Science and Pollution Research, 2014, 21, 13833-13849.	2.7	21
50	PAHs and fishâ€"exposure monitoring and adverse effectsâ€"from molecular to individual level. Environmental Science and Pollution Research, 2014, 21, 13685-13688.	2.7	24
51	Long-term dietary-exposure to non-coplanar PCBs induces behavioral disruptions in adult zebrafish and their offspring. Neurotoxicology and Teratology, 2013, 39, 45-56.	1.2	45
52	Systematic Screening of Behavioral Responses in Two Zebrafish Strains. Zebrafish, 2013, 10, 365-375.	0.5	117
53	Comparative Expression Pattern of Two Vestigial-Like 2 Genes in Zebrafish. Bioengineering and Bioscience, 2013, 1, 11-16.	0.2	1
54	Electronic individual identification of zebrafish using radio frequency identification (RFID) microtags. Journal of Experimental Biology, 2012, 215, 2729-2734.	0.8	37

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55	G.P.19 Collagen VI genes in zebrafish skeletal muscle: Implications for collagen VI-myopathies. Neuromuscular Disorders, 2012, 22, 828.	0.3	1
56	Long-term food-exposure of zebrafish to PCB mixtures mimicking some environmental situations induces ovary pathology and impairs reproduction ability. Aquatic Toxicology, 2011, 105, 270-278.	1.9	69
57	Retinoic acid activates myogenesis in vivo through Fgf8 signalling. Developmental Biology, 2006, 289, 127-140.	0.9	89
58	New friendly tools for users of ESTHER, the database of the Î±/Î²-hydrolase fold superfamily of proteins. Chemico-Biological Interactions, 2005, 157-158, 339-343.	1.7	22
59	Are there non-catalytic functions of acetylcholinesterases? Lessons from mutant animal models. BioEssays, 2005, 27, 189-200.	1.2	52
60	The Use of Zebrafish Mutants to Identify Secondary Target Effects of Acetylcholine Esterase Inhibitors. Toxicological Sciences, 2004, 77, 325-333.	1.4	51
61	ESTHER, the database of the Â/Â-hydrolase fold superfamily of proteins. Nucleic Acids Research, 2004, 32, 145D-147.	6.5	150
62	Cloning and expression pattern of vat-1 homolog gene in zebrafish. Gene Expression Patterns, 2004, 5, 91-96.	0.3	9
63	Acetylcholinesterase is required for neuronal and muscular development in the zebrafish embryo. Nature Neuroscience, 2002, 5, 111-118.	7.1	333
64	Zebrafish Acetylcholinesterase Is Encoded by a Single Gene Localized on Linkage Group 7. Journal of Biological Chemistry, 2001, 276, 464-474.	1.6	85
65	Links between kinetic data and sequences in the alpha/beta-hydrolases fold database. Briefings in Bioinformatics, 2001, 2, 30-37.	3.2	6
66	Two Distinct Proteins Are Associated with Tetrameric Acetylcholinesterase on the Cell Surface. Journal of Biological Chemistry, 2000, 275, 34260-34265.	1.6	41
67	Kinetic parameters of cholinesterase interactions with organophosphates: retrieval and comparison tools available through ESTHER database. Chemico-Biological Interactions, 1999, 119-120, 567-576.	1.7	7
68	Production of an immunoenzymatic tracer combining a scFv and the acetylcholinesterase ofBungarus fasciatusby genetic recombination. FEBS Letters, 1999, 455, 18-22.	1.3	6
69	aCHEdb: the database system for ESTHER, the alpha/beta fold family of proteins and the Cholinesterase gene server. Nucleic Acids Research, 1998, 26, 226-228.	6.5	60
70	Identification of a Novel Type of Alternatively Spliced Exon from the Acetylcholinesterase Gene of Bungarus fasciatus. Journal of Biological Chemistry, 1998, 273, 9812-9820.	1.6	42
71	L'acÃ©tylcholinestÃ©rase des poissons, cible des organophosphorÃ©s et des carbamates. CaractÃ©risation du gÃ¨ne et des formes molÃ©culaires de l'enzyme chez Danio rerio. Effets des anticholinestÃ©rasiques. Knowledge and Management of Aquatic Ecosystems: an International Journal on Aquatic Ecosystems, 1998, , 535-546.	0.4	5
72	Acetylcholinesterase Expression During Development of Danio Rerio. , 1998, , 141-142.		0

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73	The Â/Â fold family of proteins database and the cholinesterase gene server ESTHER. Nucleic Acids Research, 1997, 25, 143-146.	6.5	50
74	Acetylcholinesterases from Elapidae snake venoms: biochemical, immunological and enzymatic characterization. BBA - Proteins and Proteomics, 1997, 1339, 253-267.	2.1	69
75	Electrooptical measurements demonstrate a large permanent dipole moment associated with acetylcholinesterase. Biophysical Journal, 1996, 70, 1603-1608.	0.2	45
76	Acetylcholinesterase from Bungarus venom: a monomeric species. FEBS Letters, 1996, 387, 196-200.	1.3	61
77	Cloning and Expression of Acetylcholinesterase from Venom. Journal of Biological Chemistry, 1996, 271, 15099-15108.	1.6	79
78	A cholinesterase genes server (ESTHER): a database of cholinesterase- related sequences for multiple alignments, phylogenetic relationships, mutations and structural data retrieval. Nucleic Acids Research, 1996, 24, 132-136.	6.5	41
79	cDNA sequence, gene structure, and cholinesterase-like domains of an esterase fromCaenorhabditis elegansmapped to chromosome V. DNA Sequence, 1993, 3, 347-356.	0.7	4