

Xavier Cousin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6472721/publications.pdf>

Version: 2024-02-01

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	Acetylcholinesterase is required for neuronal and muscular development in the zebrafish embryo. <i>Nature Neuroscience</i> , 2002, 5, 111-118.	7.1	333
2	An ecotoxicological view on neurotoxicity assessment. <i>Environmental Sciences Europe</i> , 2018, 30, 46.	2.6	168
3	Ingestion and contact with polyethylene microplastics does not cause acute toxicity on marine zooplankton. <i>Journal of Hazardous Materials</i> , 2018, 360, 452-460.	6.5	155
4	ESTHER, the database of the \hat{A}/\hat{A} -hydrolase fold superfamily of proteins. <i>Nucleic Acids Research</i> , 2004, 32, 145D-147.	6.5	150
5	Systematic Screening of Behavioral Responses in Two Zebrafish Strains. <i>Zebrafish</i> , 2013, 10, 365-375.	0.5	117
6	Retinoic acid activates myogenesis in vivo through Fgf8 signalling. <i>Developmental Biology</i> , 2006, 289, 127-140.	0.9	89
7	Zebrafish Acetylcholinesterase Is Encoded by a Single Gene Localized on Linkage Group 7. <i>Journal of Biological Chemistry</i> , 2001, 276, 464-474.	1.6	85
8	De novo assembly, characterization and functional annotation of Senegalese sole (<i>Solea</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (microarray. <i>BMC Genomics</i> , 2014, 15, 952.	1.2	83
9	Cloning and Expression of Acetylcholinesterase from Venom. <i>Journal of Biological Chemistry</i> , 1996, 271, 15099-15108.	1.6	79
10	Organic contaminants sorbed to microplastics affect marine medaka fish early life stages development. <i>Marine Pollution Bulletin</i> , 2020, 154, 111059.	2.3	77
11	Bioassay battery interlaboratory investigation of emerging contaminants in spiked water extracts " Towards the implementation of bioanalytical monitoring tools in water quality assessment and monitoring. <i>Water Research</i> , 2016, 104, 473-484.	5.3	71
12	Acetylcholinesterases from Elapidae snake venoms: biochemical, immunological and enzymatic characterization. <i>BBA - Proteins and Proteomics</i> , 1997, 1339, 253-267.	2.1	69
13	Long-term food-exposure of zebrafish to PCB mixtures mimicking some environmental situations induces ovary pathology and impairs reproduction ability. <i>Aquatic Toxicology</i> , 2011, 105, 270-278.	1.9	69
14	Long-term disruption of growth, reproduction, and behavior after embryonic exposure of zebrafish to PAH-spiked sediment. <i>Environmental Science and Pollution Research</i> , 2014, 21, 13877-13887.	2.7	62
15	Acetylcholinesterase from Bungarus venom: a monomeric species. <i>FEBS Letters</i> , 1996, 387, 196-200.	1.3	61
16	aChEdb: the database system for ESTHER, the alpha/beta fold family of proteins and the Cholinesterase gene server. <i>Nucleic Acids Research</i> , 1998, 26, 226-228.	6.5	60
17	Developmental toxicity of PAH mixtures in fish early life stages. Part II: adverse effects in Japanese medaka. <i>Environmental Science and Pollution Research</i> , 2014, 21, 13732-13743.	2.7	59
18	Molecular characterization and transcriptional regulation of the Na ⁺ /K ⁺ ATPase $\hat{1}\pm$ subunit isoforms during development and salinity challenge in a teleost fish, the Senegalese sole (<i>Solea senegalensis</i>). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2014, 175, 23-38.	0.7	56

#	ARTICLE	IF	CITATIONS
19	Chemicals sorbed to environmental microplastics are toxic to early life stages of aquatic organisms. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111665.	2.9	54
20	Are there non-catalytic functions of acetylcholinesterases? Lessons from mutant animal models. <i>BioEssays</i> , 2005, 27, 189-200.	1.2	52
21	The Use of Zebrafish Mutants to Identify Secondary Target Effects of Acetylcholine Esterase Inhibitors. <i>Toxicological Sciences</i> , 2004, 77, 325-333.	1.4	51
22	The \hat{A} fold family of proteins database and the cholinesterase gene server ESTHER. <i>Nucleic Acids Research</i> , 1997, 25, 143-146.	6.5	50
23	Chronic dietary exposure to pyrolytic and petrogenic mixtures of PAHs causes physiological disruption in zebrafish – part II: behavior. <i>Environmental Science and Pollution Research</i> , 2014, 21, 13818-13832.	2.7	49
24	Electrooptical measurements demonstrate a large permanent dipole moment associated with acetylcholinesterase. <i>Biophysical Journal</i> , 1996, 70, 1603-1608.	0.2	45
25	Long-term dietary-exposure to non-coplanar PCBs induces behavioral disruptions in adult zebrafish and their offspring. <i>Neurotoxicology and Teratology</i> , 2013, 39, 45-56.	1.2	45
26	Chronic feeding exposure to virgin and spiked microplastics disrupts essential biological functions in teleost fish. <i>Journal of Hazardous Materials</i> , 2021, 415, 125626.	6.5	45
27	Chronic dietary exposure to pyrolytic and petrogenic mixtures of PAHs causes physiological disruption in zebrafish - part I: Survival and growth. <i>Environmental Science and Pollution Research</i> , 2014, 21, 13804-13817.	2.7	43
28	Fish life-history traits are affected after chronic dietary exposure to an environmentally realistic marine mixture of PCBs and PBDEs. <i>Science of the Total Environment</i> , 2018, 610-611, 531-545.	3.9	43
29	Identification of a Novel Type of Alternatively Spliced Exon from the Acetylcholinesterase Gene of <i>Bungarus fasciatus</i> . <i>Journal of Biological Chemistry</i> , 1998, 273, 9812-9820.	1.6	42
30	Developmental toxicity of PAH mixtures in fish early life stages. Part I: adverse effects in rainbow trout. <i>Environmental Science and Pollution Research</i> , 2014, 21, 13720-13731.	2.7	42
31	Examining multi- and transgenerational behavioral and molecular alterations resulting from parental exposure to an environmental PCB and PBDE mixture. <i>Aquatic Toxicology</i> , 2019, 208, 29-38.	1.9	42
32	A cholinesterase genes server (ESTHER): a database of cholinesterase- related sequences for multiple alignments, phylogenetic relationships, mutations and structural data retrieval. <i>Nucleic Acids Research</i> , 1996, 24, 132-136.	6.5	41
33	Two Distinct Proteins Are Associated with Tetrameric Acetylcholinesterase on the Cell Surface. <i>Journal of Biological Chemistry</i> , 2000, 275, 34260-34265.	1.6	41
34	Electronic individual identification of zebrafish using radio frequency identification (RFID) microtags. <i>Journal of Experimental Biology</i> , 2012, 215, 2729-2734.	0.8	37
35	Exposures of zebrafish through diet to three environmentally relevant mixtures of PAHs produce behavioral disruptions in unexposed F1 and F2 descendant. <i>Environmental Science and Pollution Research</i> , 2015, 22, 16371-16383.	2.7	34
36	Influence of sediment composition on PAH toxicity using zebrafish (<i>Danio rerio</i>) and Japanese medaka (<i>Oryzias latipes</i>) embryo-larval assays. <i>Environmental Science and Pollution Research</i> , 2014, 21, 13703-13719.	2.7	31

#	ARTICLE	IF	CITATIONS
37	Multi-Laboratory Hazard Assessment of Contaminated Microplastic Particles by Means of Enhanced Fish Embryo Test With the Zebrafish (<i>Danio rerio</i>). <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	28
38	Spatial distribution and activity patterns as welfare indicators in response to water quality changes in European sea bass, <i>Dicentrarchus labrax</i> . <i>Applied Animal Behaviour Science</i> , 2020, 226, 104974.	0.8	28
39	PAHs and fishâ€™exposure monitoring and adverse effectsâ€™from molecular to individual level. <i>Environmental Science and Pollution Research</i> , 2014, 21, 13685-13688.	2.7	24
40	Environmental concentrations of benz[a]anthracene induce developmental defects and DNA damage and impair photomotor response in Japanese medaka larvae. <i>Ecotoxicology and Environmental Safety</i> , 2015, 113, 321-328.	2.9	24
41	New friendly tools for users of ESTHER, the database of the Î±/Î²-hydrolase fold superfamily of proteins. <i>Chemico-Biological Interactions</i> , 2005, 157-158, 339-343.	1.7	22
42	Changes in Brain Monoamines Underlie Behavioural Disruptions after Zebrafish Diet Exposure to Polycyclic Aromatic Hydrocarbons Environmental Mixtures. <i>International Journal of Molecular Sciences</i> , 2017, 18, 560.	1.8	22
43	Chronic dietary exposure of zebrafish to PAH mixtures results in carcinogenic but not genotoxic effects. <i>Environmental Science and Pollution Research</i> , 2014, 21, 13833-13849.	2.7	21
44	Fish Reproduction Is Disrupted upon Lifelong Exposure to Environmental PAHs Fractions Revealing Different Modes of Action. <i>Toxics</i> , 2016, 4, 26.	1.6	21
45	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. <i>Science of the Total Environment</i> , 2021, 754, 142097.	3.9	21
46	The insecticide permethrin induces transgenerational behavioral changes linked to transcriptomic and epigenetic alterations in zebrafish (<i>Danio rerio</i>). <i>Science of the Total Environment</i> , 2021, 779, 146404.	3.9	20
47	Allometric relationship between body mass and aerobic metabolism in zebrafish <i><i>Danio rerio</i></i> . <i>Journal of Fish Biology</i> , 2014, 84, 1171-1178.	0.7	19
48	Parental trophic exposure to three aromatic fractions of polycyclic aromatic hydrocarbons in the zebrafish: Consequences for the offspring. <i>Science of the Total Environment</i> , 2015, 524-525, 52-62.	3.9	19
49	Sources of variation of DNA methylation in rainbow trout: combined effects of temperature and genetic background. <i>Epigenetics</i> , 2021, 16, 1031-1052.	1.3	19
50	Two novel COLVI long chains in zebrafish that are essential for muscle development. <i>Human Molecular Genetics</i> , 2015, 24, 6624-6639.	1.4	18
51	Molecular and functional characterization of seven Na ⁺ /K ⁺ -ATPase Î² subunit paralogs in Senegalese sole (<i>Solea senegalensis</i> Kaup, 1858). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2015, 182, 14-26.	0.7	17
52	Microplastics and sorbed contaminants â€™Trophic exposure in fish sensitive early life stages. <i>Marine Environmental Research</i> , 2020, 161, 105126.	1.1	17
53	Development of a reference artificial sediment for chemical testing adapted to the MELA sediment contact assay. <i>Environmental Science and Pollution Research</i> , 2014, 21, 13689-13702.	2.7	16
54	Multi- and transgenerational effects following early-life exposure of zebrafish to permethrin and coumarin 47: Impact on growth, fertility, behavior and lipid metabolism. <i>Ecotoxicology and Environmental Safety</i> , 2020, 205, 111348.	2.9	16

#	ARTICLE	IF	CITATIONS
55	Environmental microplastics disrupt swimming activity in acute exposure in <i>Danio rerio</i> larvae and reduce growth and reproduction success in chronic exposure in <i>D. rerio</i> and <i>Oryzias melastigma</i> . <i>Environmental Pollution</i> , 2022, 308, 119721.	3.7	16
56	Early individual electronic identification of sea bass using RFID microtags: A first example of early phenotyping of sex-related growth. <i>Aquaculture</i> , 2014, 426-427, 165-171.	1.7	15
57	Low temperature has opposite effects on sex determination in a marine fish at the larval/postlarval and juvenile stages. <i>Ecology and Evolution</i> , 2020, 10, 13825-13835.	0.8	15
58	Genetic Parameters and Genome-Wide Association Studies of Quality Traits Characterised Using Imaging Technologies in Rainbow Trout, <i>Oncorhynchus mykiss</i> . <i>Frontiers in Genetics</i> , 2021, 12, 639223.	1.1	15
59	Global assessment of the response to chronic stress in European sea bass. <i>Aquaculture</i> , 2021, 544, 737072.	1.7	15
60	Refinement of an OECD test guideline for evaluating the effects of endocrine disrupting chemicals on aromatase gene expression and reproduction using novel transgenic <i>cyp19a1a-eGFP</i> zebrafish. <i>Aquatic Toxicology</i> , 2020, 220, 105403.	1.9	13
61	Current status in other finfish species. , 2016, , 195-221.		12
62	Zebrafish <i>Danio rerio</i> shows behavioural cross-context consistency at larval and juvenile stages but no consistency between stages. <i>Journal of Fish Biology</i> , 2020, 96, 1411-1421.	0.7	11
63	Molecular characterization and transcriptional regulation of the renin-angiotensin system genes in Senegalese sole (<i>Solea senegalensis</i> Kaup, 1858): Differential gene regulation by salinity. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2015, 184, 6-19.	0.8	10
64	Transcriptional regulation of genes involved in retinoic acid metabolism in Senegalese sole larvae. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2017, 203, 35-46.	0.7	10
65	Cloning and expression pattern of <i>vat-1</i> homolog gene in zebrafish. <i>Gene Expression Patterns</i> , 2004, 5, 91-96.	0.3	9
66	Kinetic parameters of cholinesterase interactions with organophosphates: retrieval and comparison tools available through ESTHER database. <i>Chemico-Biological Interactions</i> , 1999, 119-120, 567-576.	1.7	7
67	Trophic contamination by pyrolytic polycyclic aromatic hydrocarbons does not affect aerobic metabolic scope in zebrafish <i>Danio rerio</i> . <i>Journal of Fish Biology</i> , 2016, 88, 433-442.	0.7	7
68	Production of an immunoenzymatic tracer combining a scFv and the acetylcholinesterase of <i>Bungarus fasciatus</i> by genetic recombination. <i>FEBS Letters</i> , 1999, 455, 18-22.	1.3	6
69	Links between kinetic data and sequences in the alpha/beta-hydrolases fold database. <i>Briefings in Bioinformatics</i> , 2001, 2, 30-37.	3.2	6
70	Genetic and Genomic Characterization of Soles. , 2019, , 375-394.		6
71	L'acetylcholinestrase des poissons, cible des organophosphorés et des carbamates. Caractérisation du gène et des formes moléculaires de l'enzyme chez <i>Danio rerio</i> . Effets des anticholinestrasiques. <i>Knowledge and Management of Aquatic Ecosystems: an International Journal on Aquatic Ecosystems</i> , 1998, , 535-546.	0.4	5
72	Evaluation of different tags on survival, growth and stress response in the flatfish Senegalese sole. <i>Aquaculture</i> , 2018, 494, 10-18.	1.7	5

#	ARTICLE	IF	CITATIONS
73	cDNA sequence, gene structure, and cholinesterase-like domains of an esterase from <i>Caenorhabditis elegans</i> mapped to chromosome V. <i>DNA Sequence</i> , 1993, 3, 347-356.	0.7	4
74	A comparison of behavioral and reproductive parameters between wild-type, transgenic and mutant zebrafish: Could they all be considered the same "zebrafish" for reglementary assays on endocrine disruption?. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2021, 239, 108879.	1.3	3
75	A review of the effects of contamination and temperature in <i>Solea solea</i> larvae. Modeling perspectives in the context of climate change. <i>Journal of Sea Research</i> , 2021, 176, 102101.	0.6	2
76	G.P.19 Collagen VI genes in zebrafish skeletal muscle: Implications for collagen VI-myopathies. <i>Neuromuscular Disorders</i> , 2012, 22, 828.	0.3	1
77	Comparative Expression Pattern of Two Vestigial-Like 2 Genes in Zebrafish. <i>Bioengineering and Bioscience</i> , 2013, 1, 11-16.	0.2	1
78	Acetylcholinesterase Expression During Development of <i>Danio Rerio</i> . , 1998, , 141-142.		0
79	Insights on Ecotoxicological Effects of Microplastics in Marine Ecosystems: The EPHEMARE Project. <i>Springer Water</i> , 2020, , 12-19.	0.2	0