Laurence Besseau

List of Publications by Citations

37 papers	1,424 citations	21 h-index	37 g-index
43 ext. papers	1,629 ext. citations	4.7 avg, IF	4.05 L-index

#	Paper	IF	Citations
37	Melatonin effects on the hypothalamo-pituitary axis in fish. *Trends in Endocrinology and Metabolism*, **2007**, 18, 81-8	8.8	195
36	Structural aspects of fish skin collagen which forms ordered arrays via liquid crystalline states. *Biomaterials*, **2000**, 21, 899-906	15.6	123
35	Liquid crystalline assemblies of collagen in bone and in vitro systems. *Journal of Biomechanics*, **2003**, 36, 1571-9	2.9	105
34	Structural and functional evolution of the pineal melatonin system in vertebrates. *Annals of the New York Academy of Sciences*, **2009**, 1163, 101-11	6.5	101
33	Melatonin modulates secretion of growth hormone and prolactin by trout pituitary glands and cells in culture. *Endocrinology*, **2003**, 144, 4648-58	4.8	88
32	Production of ordered collagen matrices for three-dimensional cell culture. *Biomaterials*, **2002**, 23, 27-36	15.6	83
31	Stabilization of fluid cholesteric phases of collagen to ordered gelated matrices. *Journal of Molecular Biology*, **1995**, 251, 197-202	6.5	79
30	Melatonin pathway: breaking the "high-at-night" rule in trout retina. *Experimental Eye Research*, **2006**, 82, 620-7	3.7	61
29	Cloning and retinal expression of melatonin receptors in the European sea bass, Dicentrarchus labrax. *General and Comparative Endocrinology*, **2008**, 157, 186-95	3	50
28	Starting the zebrafish pineal circadian clock with a single photic transition. *Endocrinology*, **2006**, 147, 2273-9	4.8	50
27	Drastic neofunctionalization associated with evolution of the timezyme AANAT 500 Mya. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 314-9	11.5	46
26	Melatonin receptors in the brain of the European sea bass: An in situ hybridization and autoradiographic study. *Journal of Comparative Neurology*, **2010**, 518, 3495-511	3.4	36
25	Resorption of unemitted gametes in Lithognathus mormyrus (Sparidae, Teleostei): a possible synergic action of somatic and immune cells. *Cell and Tissue Research*, **1994**, 276, 123-32	4.2	34
24	Melatonin receptors in a pleuronectiform species, Solea senegalensis: Cloning, tissue expression, day-night and seasonal variations. *General and Comparative Endocrinology*, **2010**, 167, 202-14	3	32
23	Banded patterns in liquid crystalline phases of type I collagen: relationship with crimp morphology in connective tissue architecture. *Connective Tissue Research*, **1998**, 37, 183-93	3.3	31
22	Subfunctionalization of arylalkylamine N-acetyltransferases in the sea bass Dicentrarchus labrax: two-ones for one two. *Journal of Pineal Research*, **2015**, 59, 354-64	10.4	26
21	Developmental and comparative transcriptomic identification of iridophore contribution to white barring in clownfish. *Pigment Cell and Melanoma Research*, **2019**, 32, 391-402	4.5	26

20	Evolution of AANAT: expansion of the gene family in the cephalochordate amphioxus. *BMC Evolutionary Biology*, **2010**, 10, 154	3	23
19	Optimization of Collagen Liquid Crystalline Assemblies: Influence of Sonic Fragmentation. *Journal of Structural Biology*, **1994**, 113, 99-106	3.4	23
18	Generation and characterization of the sea bass Dicentrarchus labrax brain and liver transcriptomes. *Gene*, **2014**, 544, 56-66	3.8	22
17	The timing of Timezyme diversification in vertebrates. *PLoS ONE*, **2014**, 9, e112380	3.7	21
16	The effect of dietary DHA and taurine on rotifer capture success, growth, survival and vision in the larvae of Atlantic bluefin tuna (Thunnus thynnus). *Aquaculture*, **2018**, 482, 137-145	4.4	18
15	Molecular and Cellular Regulation of Pineal Organ Responses. *Fish Physiology*, **2006**, 25, 243-306	2	17
14	Retinal, pineal and diencephalic expression of frog arylalkylamine N-acetyltransferase-1. *Molecular and Cellular Endocrinology*, **2006**, 252, 11-8	4.4	16
13	In the Heat of the Night: Thermo-TRPV Channels in the Salmonid Pineal Photoreceptors and Modulation of Melatonin Secretion. *Endocrinology*, **2015**, 156, 4629-38	4.8	15
12	Unique arylalkylamine N-acetyltransferase-2 polymorphism in salmonids and profound variations in thermal stability and catalytic efficiency conferred by two residues. *Journal of Experimental Biology*, **2013**, 216, 1938-48	3	15
11	Somatotropic axis genes are expressed before pituitary onset during zebrafish and sea bass development. *General and Comparative Endocrinology*, **2013**, 194, 133-41	3	15
10	Plasticity of gonad development in hermaphroditic sparids: ovotestis ontogeny in a protandric species, Lithognathus mormyrus. *Environmental Biology of Fishes*, **1995**, 43, 255-267	1.6	14
9	Functional diversity of Teleost arylalkylamine N-acetyltransferase-2: is the timezyme evolution driven by habitat temperature?. *Molecular Ecology*, **2012**, 21, 5027-41	5.7	12
8	Anemonefish, a model for Eco-Evo-Devo. *EvoDevo*, **2020**, 11, 20	3.2	8
7	A star is born again: Methods for larval rearing of an emerging model organism, the False clownfish Amphiprion ocellaris. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, **2021**, 336, 376-385	1.8	5
6	Effects of a temperature rise on melatonin and thyroid hormones during smoltification of Atlantic salmon, Salmo salar. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2020**, 190, 731-748	2.2	3
5	Dietary taurine improves vision in different age gilthead sea bream (Sparus aurata) larvae potentially contributing to increased prey hunting success and growth. *Aquaculture*, **2021**, 533, 736129	4.4	3
4	Cytoskeleton and mitosis in the dinoflagellate Crypthecodinium cohnii: immunolocalization of P72, an HSP70-related protein. *European Journal of Protistology*, **2002**, 38, 155-170	3.6	2
3	Transient Receptor Potential-Vanilloid (TRPV1-TRPV4) Channels in the Atlantic Salmon, . A Focus on the Pineal Gland and Melatonin Production.. *Frontiers in Physiology*, **2021**, 12, 784416	4.6	1

2	The Pineal Organ of Fish **2010**, 9-33	1
1	Pituitary Hormones mRNA Abundance in the Mediterranean Sea Bass : Seasonal Rhythms, Effects of Melatonin and Water Salinity.. *Frontiers in Physiology*, **2021**, 12, 774975	4.6