

# L Filipe C Castro

## List of Publications by Citations

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90  
papers

1,865  
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23  
h-index

40  
g-index

98  
ext. papers

2,294  
ext. citations

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L-index

#	Paper	IF	Citations
90	Long-chain polyunsaturated fatty acid biosynthesis in chordates: Insights into the evolution of Fads and Elovl gene repertoire. <i>Progress in Lipid Research</i> , <b>2016</b> , 62, 25-40	14.3	215
89	Imposex induction is mediated through the Retinoid X Receptor signalling pathway in the neogastropod <i>Nucella lapillus</i> . <i>Aquatic Toxicology</i> , <b>2007</b> , 85, 57-66	5.1	138
88	Genes for de novo biosynthesis of omega-3 polyunsaturated fatty acids are widespread in animals. <i>Science Advances</i> , <b>2018</b> , 4, eaar6849	14.3	123
87	Disruption of zebrafish ( <i>Danio rerio</i> ) embryonic development after full life-cycle parental exposure to low levels of ethinylestradiol. <i>Aquatic Toxicology</i> , <b>2009</b> , 95, 330-8	5.1	90
86	Dispersal of NK homeobox gene clusters in amphioxus and humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 5292-5	11.5	74
85	The evolutionary history of the stearoyl-CoA desaturase gene family in vertebrates. <i>BMC Evolutionary Biology</i> , <b>2011</b> , 11, 132	3	72
84	The Mammalian "Obesogen" Tributyltin Targets Hepatic Triglyceride Accumulation and the Transcriptional Regulation of Lipid Metabolism in the Liver and Brain of Zebrafish. <i>PLoS ONE</i> , <b>2015</b> , 10, e0143911	3.7	69
83	Tributyltin-induced imposex in marine gastropods involves tissue-specific modulation of the retinoid X receptor. <i>Aquatic Toxicology</i> , <b>2011</b> , 101, 221-7	5.1	66
82	Recurrent gene loss correlates with the evolution of stomach phenotypes in gnathostome history. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2014</b> , 281, 20132669	4.4	48
81	The estrogen receptor of the gastropod <i>Nucella lapillus</i> : modulation following exposure to an estrogenic effluent?. <i>Aquatic Toxicology</i> , <b>2007</b> , 84, 465-8	5.1	42
80	Statins: An undesirable class of aquatic contaminants?. <i>Aquatic Toxicology</i> , <b>2016</b> , 174, 1-9	5.1	41
79	The genomic environment around the Aromatase gene: evolutionary insights. <i>BMC Evolutionary Biology</i> , <b>2005</b> , 5, 43	3	39
78	Diversity and history of the long-chain acyl-CoA synthetase (Acsl) gene family in vertebrates. <i>BMC Evolutionary Biology</i> , <b>2013</b> , 13, 271	3	37
77	A mollusk retinoic acid receptor (RAR) ortholog sheds light on the evolution of ligand binding. <i>Endocrinology</i> , <b>2014</b> , 155, 4275-86	4.8	37
76	An antecedent of the MHC-linked genomic region in amphioxus. <i>Immunogenetics</i> , <b>2004</b> , 55, 782-4	3.2	35
75	To bind or not to bind: the taxonomic scope of nuclear receptor mediated endocrine disruption in invertebrate phyla. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 5361-3	10.3	33
74	Organotin levels in seafood from Portuguese markets and the risk for consumers. <i>Chemosphere</i> , <b>2009</b> , 75, 661-666	8.4	33

73	Effects of Tributyltin and Other Retinoid Receptor Agonists in Reproductive-Related Endpoints in the Zebrafish ( <i>Danio rerio</i> ). <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , <b>2015</b> , 78, 747-60	3.2	26
72	Gene expression analysis of ABC efflux transporters, CYP1A and GST in Nile tilapia after exposure to benzo(a)pyrene. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , <b>2012</b> , 155, 469-82	3.2	25
71	A complete enzymatic capacity for long-chain polyunsaturated fatty acid biosynthesis is present in the Amazonian teleost tambaqui, <i>Colossoma macropomum</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>2019</b> , 227, 90-97	2.3	25
70	Rapid-behaviour responses as a reliable indicator of estrogenic chemical toxicity in zebrafish juveniles. <i>Chemosphere</i> , <b>2011</b> , 85, 1543-7	8.4	24
69	"": A Draft Genome Assembly, Liver Transcriptome, and Nutrigenomics of the European Sardine,. <i>Genes</i> , <b>2018</b> , 9,	4.2	24
68	Zebrafish ( <i>Danio rerio</i> ) life-cycle exposure to chronic low doses of ethinylestradiol modulates p53 gene transcription within the gonads, but not NER pathways. <i>Ecotoxicology</i> , <b>2012</b> , 21, 1513-22	2.9	23
67	Retinoid metabolism in invertebrates: when evolution meets endocrine disruption. <i>General and Comparative Endocrinology</i> , <b>2014</b> , 208, 134-45	3	22
66	Tissue-specific distribution patterns of retinoids and didehydroretinoids in rainbow trout <i>Oncorhynchus mykiss</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>2012</b> , 161, 69-78	2.3	19
65	Retinol metabolism in the mollusk <i>Osilinus lineatus</i> indicates an ancient origin for retinyl ester storage capacity. <i>PLoS ONE</i> , <b>2012</b> , 7, e35138	3.7	19
64	Complete Inactivation of Sebum-Producing Genes Parallels the Loss of Sebaceous Glands in Cetacea. <i>Molecular Biology and Evolution</i> , <b>2019</b> , 36, 1270-1280	8.3	18
63	Cloning and expression analysis of the 17 $\beta$ hydroxysteroid dehydrogenase type 12 (HSD17B12) in the neogastropod <i>Nucella lapillus</i> . <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2013</b> , 134, 8-14 <sup>5.1</sup>		18
62	Seasonal and gender variation of peroxisome proliferator activated receptors expression in brown trout liver. <i>General and Comparative Endocrinology</i> , <b>2009</b> , 161, 146-52	3	18
61	Dietary Oil Source and Selenium Supplementation Modulate Fads2 and Elovl5 Transcriptional Levels in Liver and Brain of Meagre ( <i>Argyrosomus regius</i> ). <i>Lipids</i> , <b>2016</b> , 51, 729-41	1.6	16
60	Adaptive evolution of the Retinoid X receptor in vertebrates. <i>Genomics</i> , <b>2012</b> , 99, 81-9	4.3	15
59	Evolutionary Exploitation of Vertebrate Peroxisome Proliferator-Activated Receptor by Organotins. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 13951-13959	10.3	15
58	Acyl-coenzyme A oxidases 1 and 3 in brown trout ( <i>Salmo trutta f. fario</i> ): Can peroxisomal fatty acid oxidation be regulated by estrogen signaling?. <i>Fish Physiology and Biochemistry</i> , <b>2016</b> , 42, 389-401	2.7	14
57	Differences in retinoid levels and metabolism among gastropod lineages: imposex-susceptible gastropods lack the ability to store retinoids in the form of retinyl esters. <i>Aquatic Toxicology</i> , <b>2013</b> , 142-143, 96-103	5.1	14
56	The retinoic acid receptor (RAR) in molluscs: Function, evolution and endocrine disruption insights. <i>Aquatic Toxicology</i> , <b>2019</b> , 208, 80-89	5.1	13

55	Cetacea are natural knockouts for IL20. <i>Immunogenetics</i> , <b>2018</b> , 70, 681-687	3.2	13
54	Linking chemical exposure to lipid homeostasis: A municipal waste water treatment plant influent is obesogenic for zebrafish larvae. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 182, 109406	7	13
53	In vitro exposure of Nile tilapia ( <i>Oreochromis niloticus</i> ) testis to estrogenic endocrine disrupting chemicals: mRNA expression of genes encoding steroidogenic enzymes. <i>Toxicology Mechanisms and Methods</i> , <b>2012</b> , 22, 47-53	3.6	13
52	A mollusk VDR/PXR/CAR-like (NR1J) nuclear receptor provides insight into ancient detoxification mechanisms. <i>Aquatic Toxicology</i> , <b>2016</b> , 174, 61-9	5.1	12
51	Estrogenic chemical effects are independent from the degree of sex role reversal in pipefish. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 263 Pt 2, 746-53	12.8	12
50	Tributyltin Affects Retinoid X Receptor-Mediated Lipid Metabolism in the Marine Rotifer <i>Brachionus koreanus</i> . <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 7830-7839	10.3	11
49	The last frontier: Coupling technological developments with scientific challenges to improve hazard assessment of deep-sea mining. <i>Science of the Total Environment</i> , <b>2018</b> , 627, 1505-1514	10.2	11
48	Estrogenic and anti-estrogenic influences in cultured brown trout hepatocytes: Focus on the expression of some estrogen and peroxisomal related genes and linked phenotypic anchors. <i>Aquatic Toxicology</i> , <b>2015</b> , 169, 133-42	5.1	10
47	Diets supplemented with <i>Saccharina latissima</i> influence the expression of genes related to lipid metabolism and oxidative stress modulating rainbow trout ( <i>Oncorhynchus mykiss</i> ) fillet composition. <i>Food and Chemical Toxicology</i> , <b>2020</b> , 140, 111332	4.7	10
46	LXR and LXRI Nuclear Receptors Evolved in the Common Ancestor of Gnathostomes. <i>Genome Biology and Evolution</i> , <b>2017</b> , 9, 222-230	3.9	10
45	A novel Acetyl-CoA synthetase short-chain subfamily member 1 ( <i>Acss1</i> ) gene indicates a dynamic history of paralogue retention and loss in vertebrates. <i>Gene</i> , <b>2012</b> , 497, 249-55	3.8	10
44	ABC transporters, CYP1A and GST gene transcription patterns in developing stages of the Nile tilapia ( <i>Oreochromis niloticus</i> ). <i>Gene</i> , <b>2012</b> , 506, 317-24	3.8	10
43	The 17beta-hydroxysteroid dehydrogenase 4: Gender-specific and seasonal gene expression in the liver of brown trout ( <i>Salmo trutta f. fario</i> ). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>2009</b> , 153, 157-64	2.3	10
42	The Origin and Diversity of Cpt1 Genes in Vertebrate Species. <i>PLoS ONE</i> , <b>2015</b> , 10, e0138447	3.7	10
41	Expansion, retention and loss in the Acyl-CoA synthetase "Bubblegum" ( <i>Acsbg</i> ) gene family in vertebrate history. <i>Gene</i> , <b>2018</b> , 664, 111-118	3.8	9
40	Transgenerational inheritance of chemical-induced signature: A case study with simvastatin. <i>Environment International</i> , <b>2020</b> , 144, 106020	12.9	9
39	The Singularity of Cetacea Behavior Parallels the Complete Inactivation of Melatonin Gene Modules. <i>Genes</i> , <b>2019</b> , 10,	4.2	9
38	Unusual loss of chymosin in mammalian lineages parallels neo-natal immune transfer strategies. <i>Molecular Phylogenetics and Evolution</i> , <b>2017</b> , 116, 78-86	4.1	8

37	Peroxisome proliferator-activated receptor gamma (PPAR $\gamma$ ) in brown trout: Interference of estrogenic and androgenic inputs in primary hepatocytes. <i>Environmental Toxicology and Pharmacology</i> , <b>2016</b> , 46, 328-336	5.8	7
36	Vitellogenin gene expression in the intertidal blenny <i>Lipophrys pholis</i> : a new sentinel species for estrogenic chemical pollution monitoring in the European Atlantic coast?. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , <b>2009</b> , 149, 58-64	3.2	7
35	The evolutionary road to invertebrate thyroid hormone signaling: Perspectives for endocrine disruption processes. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , <b>2019</b> , 223, 124-138	3.2	6
34	Convergent inactivation of the skin-specific C-C motif chemokine ligand 27 in mammalian evolution. <i>Immunogenetics</i> , <b>2019</b> , 71, 363-372	3.2	6
33	PseudoChecker: an integrated online platform for gene inactivation inference. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, W321-W331	20.1	6
32	Of Retinoids and Organotins: The Evolution of the Retinoid X Receptor in Metazoa. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	6
31	Anti-androgenic effects of sewage treatment plant effluents in the prosobranch gastropod <i>Nucella lapillus</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , <b>2008</b> , 148, 87-93 <sup>3.2</sup>	3.2	6
30	Convergent Loss of the Necroptosis Pathway in Disparate Mammalian Lineages Shapes Viruses Countermeasures. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 747737	8.4	6
29	Ecotoxicology of deep-sea environments: Functional and biochemical effects of suspended sediments in the model species <i>Mytilus galloprovincialis</i> under hyperbaric conditions. <i>Science of the Total Environment</i> , <b>2019</b> , 670, 218-225	10.2	5
28	Cartilaginous fishes offer unique insights into the evolution of the nuclear receptor gene repertoire in gnathostomes. <i>General and Comparative Endocrinology</i> , <b>2020</b> , 295, 113527	3	5
27	A resource for sustainable management: assembly and annotation of the liver transcriptome of the Atlantic chub mackerel. <i>Data in Brief</i> , <b>2018</b> , 18, 276-284	1.2	5
26	An Orthologue of the Retinoic Acid Receptor (RAR) Is Present in the Ecdysozoa Phylum Priapulida. <i>Genes</i> , <b>2019</b> , 10,	4.2	5
25	De novo assembly of the kidney and spleen transcriptomes of the cosmopolitan blue shark, <i>Prionace glauca</i> . <i>Marine Genomics</i> , <b>2018</b> , 37, 50-53	1.9	5
24	Cross-interference of two model peroxisome proliferators in peroxisomal and estrogenic pathways in brown trout hepatocytes. <i>Aquatic Toxicology</i> , <b>2017</b> , 187, 153-162	5.1	4
23	Evolutionary Plasticity in Detoxification Gene Modules: The Preservation and Loss of the Pregnane X Receptor in Chondrichthyes Lineages. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	4
22	The Echinodermata PPAR: Functional characterization and exploitation by the model lipid homeostasis regulator tributyltin. <i>Environmental Pollution</i> , <b>2020</b> , 263, 114467	9.3	4
21	Sex-steroids and hypolipidemic chemicals impacts on brown trout lipid and peroxisome signaling - Molecular, biochemical and morphological insights. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , <b>2018</b> , 212, 1-17	3.2	4
20	Pex11 $\beta$ in brown trout ( <i>Salmo trutta</i> f. <i>fario</i> ): Expression dynamics during the reproductive cycle reveals sex-specific seasonal patterns. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2013</b> , 164, 207-14	2.6	4

19	Basal Gnathostomes provide unique insights into the evolution of vitamin B12 binders. <i>Genome Biology and Evolution</i> , <b>2014</b> , 7, 457-64	3.9	4
18	Losing Genes: The Evolutionary Remodeling of Cetacea Skin. <i>Frontiers in Marine Science</i> , <b>2020</b> , 7,	4.5	4
17	Testosterone-induced modulation of peroxisomal morphology and peroxisome-related gene expression in brown trout ( <i>Salmo trutta</i> f. <i>fario</i> ) primary hepatocytes. <i>Aquatic Toxicology</i> , <b>2017</b> , 193, 30-39	5.1	3
16	The Gastric Phenotype in the Cypriniform Loaches: A Case of Reinvention?. <i>PLoS ONE</i> , <b>2016</b> , 11, e0163696	3.7	3
15	A drastic shift in the energetic landscape of toothed whale sperm cells. <i>Current Biology</i> , <b>2021</b> , 31, 3648-3655.e9	3.9	3
14	Molecular ontogeny of the stomach in the catshark <i>Scyliorhinus canicula</i> . <i>Scientific Reports</i> , <b>2019</b> , 9, 586	4.9	2
13	From the Amazon: A comprehensive liver transcriptome dataset of the teleost fish tambaqui,. <i>Data in Brief</i> , <b>2019</b> , 23, 103751	1.2	2
12	Cartilaginous fish class II genes reveal unprecedented old allelic lineages and confirm the late evolutionary emergence of DM. <i>Molecular Immunology</i> , <b>2020</b> , 128, 125-138	4.3	2
11	A real-time PCR assay for differential expression of vitellogenin I and II genes in the liver of the sentinel fish species <i>Lipophrys pholis</i> . <i>Toxicology Mechanisms and Methods</i> , <b>2013</b> , 23, 591-7	3.6	2
10	Convergent Cortistatin losses parallel modifications in circadian rhythmicity and energy homeostasis in Cetacea and other mammalian lineages. <i>Genomics</i> , <b>2021</b> , 113, 1064-1070	4.3	2
9	An ancestral nuclear receptor couple, PPAR-RXR, is exploited by organotins. <i>Science of the Total Environment</i> , <b>2021</b> , 797, 149044	10.2	2
8	Biofortified Diets Containing Algae and Selenised Yeast: Effects on Growth Performance, Nutrient Utilization, and Tissue Composition of Gilthead Seabream ( <i>Lepomis microlophus</i> ). <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 812884	4.6	1
7	Neuroendocrine pathways at risk? Simvastatin induces inter and transgenerational disruption in the keystone amphipod <i>Gammarus locusta</i> .. <i>Aquatic Toxicology</i> , <b>2022</b> , 244, 106095	5.1	1
6	Regulation of gene expression associated with LC-PUFA metabolism in juvenile tambaqui ( <i>Colossoma macropomum</i> ) fed different dietary oil sources. <i>Aquaculture Research</i> , <b>2021</b> , 52, 3923-3934	1.9	1
5	A drastic shift in the energetic landscape of toothed whale sperm cells		1
4	Silencing of PPARBb mRNA in brown trout primary hepatocytes: effects on molecular and morphological targets under the influence of an estrogen and a PPARagonist. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>2019</b> , 229, 1-9	2.3	1
3	Shedding light on the Chimaeridae taxonomy: the complete mitochondrial genome of the cartilaginous fish (Collett, 1904) (Holocephali: Chimaeridae). <i>Mitochondrial DNA Part B: Resources</i> , <b>2021</b> , 6, 420-422	0.5	1
2	Functional or Vestigial? The Genomics of the Pineal Gland in <i>Xenarthra</i> . <i>Journal of Molecular Evolution</i> , <b>2021</b> , 89, 565-575	3.1	1

- 1 A Highly Complex, MHC-Linked, 350 Million-Year-Old Shark Nonclassical Class I Lineage. *Journal of Immunology*, **2021**, 207, 824-836 53 ○