Paulo J Gavaia

List of Publications by Year in descending order

79	2,118	279701	254106
papers	citations	23 h-index	43 g-index

83	83	83	2073
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Skeletal anomalies in reared <scp>E</scp>uropean fish larvae and juveniles. Part 2: main typologies, occurrences and causative factors. Reviews in Aquaculture, 2013, 5, S121.	4.6	242
2	Factors enhancing fish sperm quality and emerging tools for sperm analysis. Aquaculture, 2014, 432, 389-401.	1.7	172
3	Osteological development and abnormalities of the vertebral column and caudal skeleton in larval and juvenile stages of hatchery-reared Senegal sole (Solea senegalensis). Aquaculture, 2002, 211, 305-323.	1.7	129
4	Skeletal anomalies in reared <scp>E</scp>uropean fish larvae and juveniles. Part 1: normal and anomalous skeletogenic processes. Reviews in Aquaculture, 2013, 5, S99.	4.6	119
5	Osteocalcin and matrix Gla protein in zebrafish (Danio rerio) and Senegal sole (Solea senegalensis): Comparative gene and protein expression during larval development through adulthood. Gene Expression Patterns, 2006, 6, 637-652.	0.3	84
6	Co-feeding in Senegalese sole larvae with inert diet from mouth opening promotes growth at weaning. Aquaculture, 2009, 288, 264-272.	1.7	81
7	Detection of Mineralized Structures in Early Stages of Development of Marine Teleostei Using a Modified Alcian Blue-Alizarin Red Double Staining Technique for Bone and Cartilage. Biotechnic and Histochemistry, 2000, 75, 79-84.	0.7	67
8	Oligopeptide transporter PepT1 in Atlantic cod (Gadus morhuaL.): cloning, tissue expression and comparative aspects. Journal of Experimental Biology, 2007, 210, 3883-3896.	0.8	58
9	Glucose metabolism and gene expression in juvenile zebrafish (Danio rerio) challenged with a high carbohydrate diet: effects of an acute glucose stimulus during late embryonic life. British Journal of Nutrition, 2015, 113, 403-413.	1.2	52
10	Comparing skeletal development of wild and hatchery-reared Senegalese sole (Solea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (s 40, 1585-1593.	0.9	49
11	Effect of egg incubation temperature on the occurrence of skeletal deformities in Solea senegalensis. Journal of Applied Ichthyology, 2012, 28, 471-476.	0.3	48
12	Fish: a suitable system to model human bone disorders and discover drugs with osteogenic or osteotoxic activities. Drug Discovery Today: Disease Models, 2014, 13, 29-37.	1.2	46
13	Fish as a model to assess chemical toxicity in bone. Aquatic Toxicology, 2018, 194, 208-226.	1.9	41
14	Novel methodologies in marine fish larval nutrition. Fish Physiology and Biochemistry, 2010, 36, 1-16.	0.9	40
15	Warfarin, a potential pollutant in aquatic environment acting through Pxr signaling pathway and Î³-glutamyl carboxylation of vitamin K-dependent proteins. Environmental Pollution, 2014, 194, 86-95.	3.7	39
16	Glucose overload in yolk has little effects on the long term modulation of carbohydrate metabolic genes in zebrafish (Danio rerio). Journal of Experimental Biology, 2014, 217, 1139-49.	0.8	37
17	Matrix Gla protein gene expression and protein accumulation colocalize with cartilage distribution during development of the teleost fish Sparus aurata. Bone, 2003, 32, 201-210.	1.4	36
18	The zebrafish operculum: A powerful system to assess osteogenic bioactivities of molecules with pharmacological and toxicological relevance. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2017, 197, 45-52.	1.3	35

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19	Quantitative assessment of the regenerative and mineralogenic performances of the zebrafish caudal fin. Scientific Reports, 2016, 6, 39191.	1.6	34
20	Dietary Supplementation with Vitamin K Affects Transcriptome and Proteome of Senegalese Sole, Improving Larval Performance and Quality. Marine Biotechnology, 2014, 16, 522-537.	1.1	30
21	Evidences for a New Role of miR-214 in Chondrogenesis. Scientific Reports, 2018, 8, 3704.	1.6	30
22	Lack of essential fatty acids in live feed during larval and post-larval rearing: effect on the performance of juvenile Solea senegalensis. Aquaculture International, 2010, 18, 741-757.	1.1	26
23	Solea senegalensis sperm cryopreservation: New insights on sperm quality. PLoS ONE, 2017, 12, e0186542.	1.1	26
24	Assessment of nutritional supplementation in phospholipids on the reproductive performance of zebrafish, Danio rerio (Hamilton, 1822). Journal of Applied Ichthyology, 2015, 31, 3-9.	0.3	24
25	Intracellular iron uptake is favored in Hfeâ€KO mouse primary chondrocytes mimicking an osteoarthritisâ€related phenotype. BioFactors, 2019, 45, 583-597.	2.6	24
26	Osteology of the axial and appendicular skeletons of the meagre Argyrosomus regius (Sciaenidae) and early skeletal development at two rearing facilities. Journal of Applied Ichthyology, 2012, 28, 464-470.	0.3	22
27	Solea senegalensis vasa transcripts: molecular characterisation, tissue distribution and developmental expression profiles. Reproduction, Fertility and Development, 2013, 25, 646.	0.1	22
28	Impact of dietary protein hydrolysates on skeleton quality and proteome in Diplodus sargus larvae. Journal of Applied Ichthyology, 2012, 28, 477-487.	0.3	21
29	Identification of a Promoter Element within the Zebrafish colXÎ±1 Gene Responsive to Runx2 Isoforms Osf2/Cbfa1 and til-1 but not to pebp2Î±A2. Calcified Tissue International, 2006, 79, 230-244.	1.5	20
30	Early Transition to Microdiets Improves Growth, Reproductive Performance and Reduces Skeletal Anomalies in Zebrafish (Danio rerio). Zebrafish, 2019, 16, 300-307.	0.5	19
31	Characterization of Osteocalcin (BGP) and Matrix Gla Protein (MGP) Fish Specific Antibodies: Validation for Immunodetection Studies in Lower Vertebrates. Calcified Tissue International, 2004, 74, 170-180.	1.5	18
32	Circulating small non-coding RNAs provide new insights into vitamin K nutrition and reproductive physiology in teleost fish. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 39-51.	1.1	18
33	Identification of a new cartilage-specific S100-like protein up-regulated during endo/perichondral mineralization in gilthead seabream. Gene Expression Patterns, 2011, 11, 448-455.	0.3	17
34	Zebrafish vitamin K epoxide reductases: expression in vivo, along extracellular matrix mineralization and under phylloquinone and warfarin in vitro exposure. Fish Physiology and Biochemistry, 2015, 41, 745-759.	0.9	17
35	Lordotic-kyphotic vertebrae develop ectopic cartilage-like tissue in Senegalese sole (Solea) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	0.3	16
36	Warfarin-exposed zebrafish embryos resembles human warfarin embryopathy in a dose and developmental-time dependent manner â€“ From molecular mechanisms to environmental concerns. Ecotoxicology and Environmental Safety, 2019, 181, 559-571.	2.9	16

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37	Effects of pristine or contaminated polyethylene microplastics on zebrafish development. Chemosphere, 2022, 303, 135198.	4.2	16
38	Larval and juvenile development of dusky grouper Epinephelus marginatus reared in mesocosms. Journal of Fish Biology, 2013, 83, 448-465.	0.7	15
39	Electric ultrafreezer (â^'â€‰150ÂÂ°C) as an alternative for zebrafish sperm cryopreservation and storage. Fish Physiology and Biochemistry, 2018, 44, 1443-1455.	0.9	15
40	Osteocalcin and matrix GLA protein in developing teleost teeth: identification of sites of mRNA and protein accumulation at single cell resolution. Histochemistry and Cell Biology, 2005, 124, 123-130.	0.8	14
41	Improved regeneration and de novo bone formation in a diabetic zebrafish model treated with paricalcitol and cinacalcet. Wound Repair and Regeneration, 2017, 25, 432-442.	1.5	14
42	Review of the principal diseases affecting cultured meagre (Argyrosomus regius). Aquaculture Research, 2018, 49, 1373-1382.	0.9	14
43	Fish Models of Induced Osteoporosis. Frontiers in Cell and Developmental Biology, 2021, 9, 672424.	1.8	14
44	The xenobiotic sensor PXR in a marine flatfish species (Solea senegalensis): Gene expression patterns and its regulation under different physiological conditions. Marine Environmental Research, 2017, 130, 187-199.	1.1	13
45	Solea senegalensis skeletal ossification and gene expression patterns during metamorphosis: New clues on the onset of skeletal deformities during larval to juvenile transition. Aquaculture, 2018, 496, 153-165.	1.7	13
46	Anti-Osteogenic Activity of Cadmium in Zebrafish. Fishes, 2019, 4, 11.	0.7	13
47	Red algal extracts from Plocamium lyngbyanum and Ceramium secundatum stimulate osteogenic activities in vitro and bone growth in zebrafish larvae. Scientific Reports, 2018, 8, 7725.	1.6	12
48	Osteotoxicity of 3-methylcholanthrene in fish. Ecotoxicology and Environmental Safety, 2018, 161, 721-728.	2.9	12
49	Effect of Dietary Manganese and Zinc Levels on Growth and Bone Status of Senegalese Sole (Solea) Tj ETQq1 1 0.784314 rgBT /Overlo	1.9	12
50	ESSA1 embryonic stem like cells from gilthead seabream: A new tool to study mesenchymal cell lineage differentiation in fish. Differentiation, 2012, 84, 240-251.	1.0	11
51	Screening for osteogenic activity in extracts from Irish marine organisms: The potential of Ceramium pallidum. PLoS ONE, 2018, 13, e0207303.	1.1	11
52	Altered bone microarchitecture in a type 1 diabetes mouse model Ins2^{Akita}. Journal of Cellular Physiology, 2019, 234, 9338-9350.	2.0	11
53	Microdiet Formulation with Phospholipid Modulate Zebrafish Skeletal Development and Reproduction. Zebrafish, 2020, 17, 27-37.	0.5	11
54	Antioxidant and Anti-inflammatory Extracts From Sea Cucumbers and Tunicates Induce a Pro-osteogenic Effect in Zebrafish Larvae. Frontiers in Nutrition, 2022, 9, .	1.6	11

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55	Microâ€anatomical characterization of vertebral curvatures in Senegalese sole Solea senegalensis. Journal of Fish Biology, 2015, 86, 1796-1810.	0.7	10
56	Exogenous WNT5A and WNT11 proteins rescue CITED2 dysfunction in mouse embryonic stem cells and zebrafish morphants. Cell Death and Disease, 2019, 10, 582.	2.7	9
57	Selection Criteria of Zebrafish Male Donors for Sperm Cryopreservation. Zebrafish, 2019, 16, 189-196.	0.5	9
58	Matrix Gla protein in turbot (Scophthalmus maximus): Gene expression analysis and identification of sites of protein accumulation. Aquaculture, 2009, 294, 202-211.	1.7	8
59	Optimization of phosphorus content in high plant protein practical diets for Senegalese sole (Solea senegalensis,Kaup 1858) juveniles: influence on growth performance and composition of whole body and vertebrae. Aquaculture Nutrition, 2017, 23, 18-29.	1.1	7
60	Insights from dietary supplementation with zinc and strontium on the skeleton of zebrafish,Danio rerio(Hamilton, 1822) larvae: From morphological analysis to osteogenic markers. Journal of Applied Ichthyology, 2018, 34, 512-523.	0.3	7
61	AvanÃ§os recentes em nutriÃ§Ã£o de larvas de peixes. Revista Brasileira De Zootecnia, 2009, 38, 26-35.	0.3	6
62	Fat-Soluble Vitamins in Fish: A Transcriptional Tissue-Specific Crosstalk that Remains to be Unveiled and Characterized. , 2018, , 159-208.		6
63	Preliminary Evaluation of Moniliformin as a Potential Threat for Teleosts. Fishes, 2018, 3, 4.	0.7	6
64	Cryoprotectants synergy improve zebrafish sperm cryopreservation and offspring skeletogenesis. Cryobiology, 2019, 91, 115-127.	0.3	6
65	New insights into benzo[â²]pyrene osteotoxicity in zebrafish. Ecotoxicology and Environmental Safety, 2021, 226, 112838.	2.9	6
66	Generation of zebrafishDanio rerio(Hamilton, 1822) transgenic lines overexpressing a heat-shock mediated Gla-rich protein. Journal of Applied Ichthyology, 2018, 34, 472-480.	0.3	4
67	Does a ghrelin stimulus during zebrafish embryonic stage modulate its performance on the long-term?. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2019, 228, 1-8.	0.8	4
68	New Insights on Vitamin K Metabolism in Senegalese sole (Solea senegalensis) Based on Ontogenetic and Tissue-Specific Vitamin K Epoxide Reductase Molecular Data. International Journal of Molecular Sciences, 2020, 21, 3489.	1.8	4
69	Molecular insights indicate that Pachycara thermophilum (Geistdoerfer, 1994) and P. saldanhai (Biscoito and Almeida, 2004) (Perciformes: Zoarcidae) from the Mid-Atlantic Ridge are synonymous species. Molecular Phylogenetics and Evolution, 2007, 45, 423-426.	1.2	3
70	Reversal of Doxorubicin-Induced Bone Loss and Mineralization by Supplementation of Resveratrol and MitoTEMPO in the Early Development of Sparus aurata. Nutrients, 2022, 14, 1154.	1.7	3
71	An overview on the teleost bone mechanophysiology. Journal of Applied Ichthyology, 2018, 34, 440-448.	0.3	2
72	Reduction of skeletal anomalies in meagre (Argyrosomus regius, Asso, 1801) through early introduction of inert diet. Aquaculture Research, 2019, 50, 2782-2792.	0.9	2

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73	ZEB316: A Small Stand-Alone Housing System to Study Microplastics in Small Teleosts. Zebrafish, 2020, 17, 18-26.	0.5	2
74	Cells Isolated from Regenerating Caudal Fin of Sparus aurata Can Differentiate into Distinct Bone Cell Lineages. Marine Biotechnology, 2020, 22, 333-347.	1.1	2
75	Zebrafish as a Model to Unveil the Pro-Osteogenic Effects of Boron-Vitamin D3 Synergism. Frontiers in Nutrition, 2022, 9, 868805.	1.6	2
76	Biopotential of Sea Cucumbers (Echinodermata) and Tunicates (Chordata) from the Western Coast of Portugal for the Prevention and Treatment of Chronic Illnesses. , 2020, 61, .		1
77	Two-dimensional proteomics as a tool to evaluate nutritional effects in farmed fish. , 2012, , 156-158.		0
78	Establishing an in vitro system to study chondrocyte phenotypes associated to human hereditary hemochromatosis and identify molecular players involved in chondrocyte related iron metabolism. Bone Abstracts, 0, , .	0.0	0
79	Does copepods influence dusky grouper (Epinephelus marginatus) early development?. Frontiers in Marine Science, 0, 1, .	1.2	0