

# Paulo J Gavaia

## List of Publications by Year in descending order

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79  
papers

2,118  
citations

279701

23  
h-index

254106

43  
g-index

83  
all docs

83  
docs citations

83  
times ranked

2073  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversal of Doxorubicin-Induced Bone Loss and Mineralization by Supplementation of Resveratrol and MitoTEMPO in the Early Development of <i>Sparus aurata</i> . <i>Nutrients</i> , 2022, 14, 1154.	1.7	3
2	Zebrafish as a Model to Unveil the Pro-Osteogenic Effects of Boron-Vitamin D3 Synergism. <i>Frontiers in Nutrition</i> , 2022, 9, 868805.	1.6	2
3	Antioxidant and Anti-inflammatory Extracts From Sea Cucumbers and Tunicates Induce a Pro-osteogenic Effect in Zebrafish Larvae. <i>Frontiers in Nutrition</i> , 2022, 9, .	1.6	11
4	Effects of pristine or contaminated polyethylene microplastics on zebrafish development. <i>Chemosphere</i> , 2022, 303, 135198.	4.2	16
5	Effect of Dietary Manganese and Zinc Levels on Growth and Bone Status of Senegalese Sole ( <i>Solea</i> ) Tj ETQq1 1 0.784314 rgBT /Overl	1.9	12
6	Fish Models of Induced Osteoporosis. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 672424.	1.8	14
7	New insights into benzo[ <i>a</i> ]pyrene osteotoxicity in zebrafish. <i>Ecotoxicology and Environmental Safety</i> , 2021, 226, 112838.	2.9	6
8	Microdiet Formulation with Phospholipid Modulate Zebrafish Skeletal Development and Reproduction. <i>Zebrafish</i> , 2020, 17, 27-37.	0.5	11
9	ZEB316: A Small Stand-Alone Housing System to Study Microplastics in Small Teleosts. <i>Zebrafish</i> , 2020, 17, 18-26.	0.5	2
10	New Insights on Vitamin K Metabolism in Senegalese sole ( <i>Solea senegalensis</i> ) Based on Ontogenetic and Tissue-Specific Vitamin K Epoxide Reductase Molecular Data. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3489.	1.8	4
11	Cells Isolated from Regenerating Caudal Fin of <i>Sparus aurata</i> Can Differentiate into Distinct Bone Cell Lineages. <i>Marine Biotechnology</i> , 2020, 22, 333-347.	1.1	2
12	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
13	Exogenous WNT5A and WNT11 proteins rescue CITED2 dysfunction in mouse embryonic stem cells and zebrafish morphants. <i>Cell Death and Disease</i> , 2019, 10, 582.	2.7	9
14	Cryoprotectants synergy improve zebrafish sperm cryopreservation and offspring skeletogenesis. <i>Cryobiology</i> , 2019, 91, 115-127.	0.3	6
15	Reduction of skeletal anomalies in meagre ( <i>Argyrosomus regius</i> , Asso, 1801) through early introduction of inert diet. <i>Aquaculture Research</i> , 2019, 50, 2782-2792.	0.9	2
16	Warfarin-exposed zebrafish embryos resembles human warfarin embryopathy in a dose and developmental-time dependent manner – From molecular mechanisms to environmental concerns. <i>Ecotoxicology and Environmental Safety</i> , 2019, 181, 559-571.	2.9	16
17	Intracellular iron uptake is favored in <i>Hfe</i> KO mouse primary chondrocytes mimicking an osteoarthritis-related phenotype. <i>BioFactors</i> , 2019, 45, 583-597.	2.6	24
18	Anti-Osteogenic Activity of Cadmium in Zebrafish. <i>Fishes</i> , 2019, 4, 11.	0.7	13

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19	Early Transition to Microdiets Improves Growth, Reproductive Performance and Reduces Skeletal Anomalies in Zebrafish ( <i>Danio rerio</i> ). <i>Zebrafish</i> , 2019, 16, 300-307.	0.5	19
20	Does a ghrelin stimulus during zebrafish embryonic stage modulate its performance on the long-term?. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2019, 228, 1-8.	0.8	4
21	Altered bone microarchitecture in a type 1 diabetes mouse model <i>Ins2<sup>Akita</sup></i> . <i>Journal of Cellular Physiology</i> , 2019, 234, 9338-9350.	2.0	11
22	Selection Criteria of Zebrafish Male Donors for Sperm Cryopreservation. <i>Zebrafish</i> , 2019, 16, 189-196.	0.5	9
23	Circulating small non-coding RNAs provide new insights into vitamin K nutrition and reproductive physiology in teleost fish. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 39-51.	1.1	18
24	Evidences for a New Role of miR-214 in Chondrogenesis. <i>Scientific Reports</i> , 2018, 8, 3704.	1.6	30
25	An overview on the teleost bone mechanophysiology. <i>Journal of Applied Ichthyology</i> , 2018, 34, 440-448.	0.3	2
26	Generation of zebrafish ( <i>Danio rerio</i> ) (Hamilton, 1822) transgenic lines overexpressing a heat-shock mediated Gla-rich protein. <i>Journal of Applied Ichthyology</i> , 2018, 34, 472-480.	0.3	4
27	Insights from dietary supplementation with zinc and strontium on the skeleton of zebrafish, ( <i>Danio rerio</i> ) (Hamilton, 1822) larvae: From morphological analysis to osteogenic markers. <i>Journal of Applied Ichthyology</i> , 2018, 34, 512-523.	0.3	7
28	Electric ultrafreezer ( $\sim -150^{\circ}\text{C}$ ) as an alternative for zebrafish sperm cryopreservation and storage. <i>Fish Physiology and Biochemistry</i> , 2018, 44, 1443-1455.	0.9	15
29	Fat-Soluble Vitamins in Fish: A Transcriptional Tissue-Specific Crosstalk that Remains to be Unveiled and Characterized. , 2018, , 159-208.		6
30	Review of the principal diseases affecting cultured meagre ( <i>Argyrosomus regius</i> ). <i>Aquaculture Research</i> , 2018, 49, 1373-1382.	0.9	14
31	Fish as a model to assess chemical toxicity in bone. <i>Aquatic Toxicology</i> , 2018, 194, 208-226.	1.9	41
32	Screening for osteogenic activity in extracts from Irish marine organisms: The potential of <i>Ceramium pallidum</i> . <i>PLoS ONE</i> , 2018, 13, e0207303.	1.1	11
33	Red algal extracts from <i>Plocamium lyngbyanum</i> and <i>Ceramium secundatum</i> stimulate osteogenic activities in vitro and bone growth in zebrafish larvae. <i>Scientific Reports</i> , 2018, 8, 7725.	1.6	12
34	Osteotoxicity of 3-methylcholanthrene in fish. <i>Ecotoxicology and Environmental Safety</i> , 2018, 161, 721-728.	2.9	12
35	<i>Solea senegalensis</i> skeletal ossification and gene expression patterns during metamorphosis: New clues on the onset of skeletal deformities during larval to juvenile transition. <i>Aquaculture</i> , 2018, 496, 153-165.	1.7	13
36	Preliminary Evaluation of Moniliformin as a Potential Threat for Teleosts. <i>Fishes</i> , 2018, 3, 4.	0.7	6

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37	Optimization of phosphorus content in high plant protein practical diets for Senegalese sole ( <i>Solea senegalensis</i> , Kaup 1858) juveniles: influence on growth performance and composition of whole body and vertebrae. <i>Aquaculture Nutrition</i> , 2017, 23, 18-29.	1.1	7
38	The zebrafish operculum: A powerful system to assess osteogenic bioactivities of molecules with pharmacological and toxicological relevance. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2017, 197, 45-52.	1.3	35
39	Improved regeneration and de novo bone formation in a diabetic zebrafish model treated with paricalcitol and cinacalcet. <i>Wound Repair and Regeneration</i> , 2017, 25, 432-442.	1.5	14
40	The xenobiotic sensor PXR in a marine flatfish species ( <i>Solea senegalensis</i> ): Gene expression patterns and its regulation under different physiological conditions. <i>Marine Environmental Research</i> , 2017, 130, 187-199.	1.1	13
41	<i>Solea senegalensis</i> sperm cryopreservation: New insights on sperm quality. <i>PLoS ONE</i> , 2017, 12, e0186542.	1.1	26
42	Quantitative assessment of the regenerative and mineralogenic performances of the zebrafish caudal fin. <i>Scientific Reports</i> , 2016, 6, 39191.	1.6	34
43	Microanatomical characterization of vertebral curvatures in Senegalese sole ( <i>Solea senegalensis</i> ). <i>Journal of Fish Biology</i> , 2015, 86, 1796-1810.	0.7	10
44	Glucose metabolism and gene expression in juvenile zebrafish ( <i>Danio rerio</i> ) challenged with a high carbohydrate diet: effects of an acute glucose stimulus during late embryonic life. <i>British Journal of Nutrition</i> , 2015, 113, 403-413.	1.2	52
45	Zebrafish vitamin K epoxide reductases: expression in vivo, along extracellular matrix mineralization and under phyloquinone and warfarin in vitro exposure. <i>Fish Physiology and Biochemistry</i> , 2015, 41, 745-759.	0.9	17
46	Assessment of nutritional supplementation in phospholipids on the reproductive performance of zebrafish, ( <i>Danio rerio</i> ) (Hamilton, 1822). <i>Journal of Applied Ichthyology</i> , 2015, 31, 3-9.	0.3	24
47	Glucose overload in yolk has little effects on the long term modulation of carbohydrate metabolic genes in zebrafish ( <i>Danio rerio</i> ). <i>Journal of Experimental Biology</i> , 2014, 217, 1139-49.	0.8	37
48	Dietary Supplementation with Vitamin K Affects Transcriptome and Proteome of Senegalese Sole, Improving Larval Performance and Quality. <i>Marine Biotechnology</i> , 2014, 16, 522-537.	1.1	30
49	Factors enhancing fish sperm quality and emerging tools for sperm analysis. <i>Aquaculture</i> , 2014, 432, 389-401.	1.7	172
50	Fish: a suitable system to model human bone disorders and discover drugs with osteogenic or osteotoxic activities. <i>Drug Discovery Today: Disease Models</i> , 2014, 13, 29-37.	1.2	46
51	Warfarin, a potential pollutant in aquatic environment acting through Pxr signaling pathway and $\gamma$ -glutamyl carboxylation of vitamin K-dependent proteins. <i>Environmental Pollution</i> , 2014, 194, 86-95.	3.7	39
52	Larval and juvenile development of dusky grouper ( <i>Epinephelus marginatus</i> ) reared in mesocosms. <i>Journal of Fish Biology</i> , 2013, 83, 448-465.	0.7	15
53	Skeletal anomalies in reared European fish larvae and juveniles. Part 2: main typologies, occurrences and causative factors. <i>Reviews in Aquaculture</i> , 2013, 5, S121.	4.6	242
54	<i>Solea senegalensis</i> vasa transcripts: molecular characterisation, tissue distribution and developmental expression profiles. <i>Reproduction, Fertility and Development</i> , 2013, 25, 646.	0.1	22

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55	Skeletal anomalies in reared European fish larvae and juveniles. Part 1: normal and anomalous skeletogenic processes. <i>Reviews in Aquaculture</i> , 2013, 5, S99.	4.6	119
56	ESSA1 embryonic stem like cells from gilthead seabream: A new tool to study mesenchymal cell lineage differentiation in fish. <i>Differentiation</i> , 2012, 84, 240-251.	1.0	11
57	Lordotic-kyphotic vertebrae develop ectopic cartilage-like tissue in Senegalese sole ( <i>Solea</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 0.3 16	0.3	16
58	Osteology of the axial and appendicular skeletons of the meagre <i>Argyrosomus regius</i> (Sciaenidae) and early skeletal development at two rearing facilities. <i>Journal of Applied Ichthyology</i> , 2012, 28, 464-470.	0.3	22
59	Impact of dietary protein hydrolysates on skeleton quality and proteome in <i>Diplodus sargus</i> larvae. <i>Journal of Applied Ichthyology</i> , 2012, 28, 477-487.	0.3	21
60	Effect of egg incubation temperature on the occurrence of skeletal deformities in <i>Solea senegalensis</i> . <i>Journal of Applied Ichthyology</i> , 2012, 28, 471-476.	0.3	48
61	Two-dimensional proteomics as a tool to evaluate nutritional effects in farmed fish. , 2012, , 156-158.		0
62	Identification of a new cartilage-specific S100-like protein up-regulated during endo/perichondral mineralization in gilthead seabream. <i>Gene Expression Patterns</i> , 2011, 11, 448-455.	0.3	17
63	Lack of essential fatty acids in live feed during larval and post-larval rearing: effect on the performance of juvenile <i>Solea senegalensis</i> . <i>Aquaculture International</i> , 2010, 18, 741-757.	1.1	26
64	Novel methodologies in marine fish larval nutrition. <i>Fish Physiology and Biochemistry</i> , 2010, 36, 1-16.	0.9	40
65	Avanços recentes em nutrição de larvas de peixes. <i>Revista Brasileira De Zootecnia</i> , 2009, 38, 26-35.	0.3	6
66	Comparing skeletal development of wild and hatchery-reared Senegalese sole ( <i>Solea</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (s 40, 1585-1593.	0.9	49
67	Co-feeding in Senegalese sole larvae with inert diet from mouth opening promotes growth at weaning. <i>Aquaculture</i> , 2009, 288, 264-272.	1.7	81
68	Matrix Gla protein in turbot ( <i>Scophthalmus maximus</i> ): Gene expression analysis and identification of sites of protein accumulation. <i>Aquaculture</i> , 2009, 294, 202-211.	1.7	8
69	Oligopeptide transporter PepT1 in Atlantic cod ( <i>Gadus morhua</i> ): cloning, tissue expression and comparative aspects. <i>Journal of Experimental Biology</i> , 2007, 210, 3883-3896.	0.8	58
70	Molecular insights indicate that <i>Pachycara thermophilum</i> (Geistdoerfer, 1994) and <i>P. saldanhai</i> (Biscoito and Almeida, 2004) (Perciformes: Zoarcidae) from the Mid-Atlantic Ridge are synonymous species. <i>Molecular Phylogenetics and Evolution</i> , 2007, 45, 423-426.	1.2	3
71	Identification of a Promoter Element within the Zebrafish <i>colX1</i> Gene Responsive to Runx2 Isoforms <i>Osf2/Cbfa1</i> and <i>til-1</i> but not to <i>pebp2A2</i> . <i>Calcified Tissue International</i> , 2006, 79, 230-244.	1.5	20
72	Osteocalcin and matrix Gla protein in zebrafish ( <i>Danio rerio</i> ) and Senegal sole ( <i>Solea senegalensis</i> ): Comparative gene and protein expression during larval development through adulthood. <i>Gene Expression Patterns</i> , 2006, 6, 637-652.	0.3	84

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73	Osteocalcin and matrix GLA protein in developing teleost teeth: identification of sites of mRNA and protein accumulation at single cell resolution. <i>Histochemistry and Cell Biology</i> , 2005, 124, 123-130.	0.8	14
74	Characterization of Osteocalcin (BGP) and Matrix Gla Protein (MGP) Fish Specific Antibodies: Validation for Immunodetection Studies in Lower Vertebrates. <i>Calcified Tissue International</i> , 2004, 74, 170-180.	1.5	18
75	Matrix Gla protein gene expression and protein accumulation colocalize with cartilage distribution during development of the teleost fish <i>Sparus aurata</i> . <i>Bone</i> , 2003, 32, 201-210.	1.4	36
76	Osteological development and abnormalities of the vertebral column and caudal skeleton in larval and juvenile stages of hatchery-reared Senegal sole ( <i>Solea senegalensis</i> ). <i>Aquaculture</i> , 2002, 211, 305-323.	1.7	129
77	Detection of Mineralized Structures in Early Stages of Development of Marine <i>Teleostei</i> Using a Modified Alcian Blue-Alizarin Red Double Staining Technique for Bone and Cartilage. <i>Biotechnic and Histochemistry</i> , 2000, 75, 79-84.	0.7	67
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. <i>Bone Abstracts</i> , 0, , .	0.0	0
79	Does copepods influence dusky grouper ( <i>Epinephelus marginatus</i> ) early development?. <i>Frontiers in Marine Science</i> , 0, 1, .	1.2	0