

# Douglas R Tocher

## List of Publications by Year in descending order

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337  
papers

28,577  
citations

4352

85  
h-index

6719

153  
g-index

345  
all docs

345  
docs citations

345  
times ranked

10872  
citing authors

#	ARTICLE	IF	CITATIONS
1	High dietary lipid level promotes low salinity adaptation in the marine euryhaline crab ( <i>Scylla</i> ) Tj ETQq1 1 0.784314.rgBT /Overlock 10	5.8	12
2	Molecular Antioxidant Functions are Enhanced in Atlantic Bluefin Tuna ( <i>Thunnus Thynnus</i> , L.) Larvae Fed Selenium-Enriched Rotifers <i>Brachionus Rotundiformis</i> . <i>Antioxidants</i> , 2023, 12, 26.	5.2	3
3	Dietary choline activates the Ampk/Srebp signaling pathway and decreases lipid levels in Pacific white shrimp ( <i>Litopenaeus vannamei</i> ). <i>Animal Nutrition</i> , 2023, 15, 58-70.	5.3	1
4	Effects of an alternating linseed oil-fish oil feeding strategy on growth, fatty acid restoration and expression of lipid related genes in black seabream ( <i>A. schlegelii</i> ). <i>Aquaculture</i> , 2022, 547, 737456.	3.5	17
5	The lipids. , 2022, , 303-467.		21
6	Lipidomic profiling reveals molecular modification of lipids in hepatopancreas of juvenile mud crab ( <i>Scylla paramamosain</i> ) fed with different dietary DHA/EPA ratios. <i>Food Chemistry</i> , 2022, 372, 131289.	8.3	13
7	Environmental adaptation in fish induced changes in the regulatory region of fatty acid elongase gene, <i>elovl5</i> , involved in long-chain polyunsaturated fatty acid biosynthesis. <i>International Journal of Biological Macromolecules</i> , 2022, 204, 144-153.	7.6	14
8	Desaturases and elongases involved in long-chain polyunsaturated fatty acid biosynthesis in aquatic animals: From genes to functions. <i>Progress in Lipid Research</i> , 2022, 86, 101157.	12.1	73
9	Micronutrient supplementation affects DNA methylation in male gonads with potential intergenerational epigenetic inheritance involving the embryonic development through glutamate receptor-associated genes. <i>BMC Genomics</i> , 2022, 23, 115.	2.9	7
10	Hepatopancreas transcriptomic and lipidomic analyses reveal the molecular responses of mud crab ( <i>Scylla paramamosain</i> ) to dietary ratio of docosahexaenoic acid to eicosapentaenoic acid. <i>Aquaculture</i> , 2022, 551, 737903.	3.5	12
11	Effect of Greater Duckweed <i>Spirodela polyrhiza</i> Supplemented Feed on Growth Performance, Digestive Enzymes, Amino and Fatty Acid Profiles, and Expression of Genes Involved in Fatty Acid Biosynthesis of Juvenile Common Carp <i>Cyprinus carpio</i> . <i>Frontiers in Marine Science</i> , 2022, 9, .	2.5	7
12	Effect of Lemna minor supplemented diets on growth, digestive physiology and expression of fatty acids biosynthesis genes of <i>Cyprinus carpio</i> . <i>Scientific Reports</i> , 2022, 12, 3711.	3.4	5
13	Physiological responses and adaptive strategies to acute low-salinity environmental stress of the euryhaline marine fish black seabream ( <i>Acanthopagrus schlegelii</i> ). <i>Aquaculture</i> , 2022, 554, 738117.	3.5	29
14	Freshwater Macrophytes: A Potential Source of Minerals and Fatty Acids for Fish, Poultry, and Livestock. <i>Frontiers in Nutrition</i> , 2022, 9, 869425.	3.8	9
15	Dietary calcium pyruvate could improve growth performance and reduce excessive lipid deposition in juvenile golden pompano ( <i>Trachinotus ovatus</i> ) fed a high fat diet. <i>Fish Physiology and Biochemistry</i> , 2022, 48, 555-570.	2.2	10
16	A comparison of regression models for defining EPA+DHA requirements using the gilthead seabream ( <i>Sparus aurata</i> ) as a model species. <i>Aquaculture</i> , 2022, 556, 738308.	3.5	3
17	Oils Derived from GM Crops as Sustainable Solutions to the Supply of Long-Chain Omega-3 for On-Growing Atlantic Bluefin Tuna ( <i>Thunnus thynnus</i> L.). <i>Fishes</i> , 2022, 7, 366.	1.7	2
18	Micronutrient supplementation affects transcriptional and epigenetic regulation of lipid metabolism in a dose-dependent manner. <i>Epigenetics</i> , 2021, 16, 1217-1234.	2.9	29

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19	Oil from transgenic <i>Camelina sativa</i> as a source of EPA and DHA in feed for European sea bass ( <i>Dicentrarchus labrax</i> L.). <i>Aquaculture</i> , 2021, 530, 735759.	3.5	33
20	Effects of different dietary oil sources on growth performance, antioxidant capacity and lipid deposition of juvenile golden pompano <i>Trachinotus ovatus</i> . <i>Aquaculture</i> , 2021, 530, 735923.	3.5	31
21	Dietary DHA/EPA ratio affects growth, tissue fatty acid profiles and expression of genes involved in lipid metabolism in mud crab <i>Scylla paramamosain</i> supplied with appropriate n-3 LC-PUFA at two lipid levels. <i>Aquaculture</i> , 2021, 532, 736028.	3.5	36
22	What influences the intention to adopt aquaculture innovations? Concepts and empirical assessment of fish farmers' perceptions and beliefs about aquafeed containing non-conventional ingredients. <i>Aquaculture, Economics and Management</i> , 2021, 25, 339-366.	3.9	12
23	Transcriptomic and physiological analyses of hepatopancreas reveal the key metabolic changes in response to dietary copper level in Pacific white shrimp <i>Litopenaeus vannamei</i> . <i>Aquaculture</i> , 2021, 532, 736060.	3.5	20
24	Dietary lipid and n-3 long-chain PUFA levels impact growth performance and lipid metabolism of juvenile mud crab, <i>Scylla paramamosain</i> . <i>British Journal of Nutrition</i> , 2021, 125, 876-890.	2.6	14
25	Dietary organic zinc promotes growth, immune response and antioxidant capacity by modulating zinc signaling in juvenile Pacific white shrimp ( <i>Litopenaeus vannamei</i> ). <i>Aquaculture Reports</i> , 2021, 19, 100638.	1.7	11
26	Dietary soybean oil aggravates the adverse effects of low salinity on intestinal health in juvenile mud crab <i>Scylla paramamosain</i> . <i>Ecotoxicology and Environmental Safety</i> , 2021, 213, 112004.	6.1	16
27	Regulation of long-chain polyunsaturated fatty acid biosynthesis in teleost fish. <i>Progress in Lipid Research</i> , 2021, 82, 101095.	12.1	87
28	Dietary copper improves growth and regulates energy generation by mediating lipolysis and autophagy in hepatopancreas of Pacific white shrimp ( <i>Litopenaeus vannamei</i> ). <i>Aquaculture</i> , 2021, 537, 736505.	3.5	14
29	Untargeted lipidomics reveals metabolic responses to different dietary n-3 PUFA in juvenile swimming crab ( <i>Portunus trituberculatus</i> ). <i>Food Chemistry</i> , 2021, 354, 129570.	8.3	32
30	Comparison of the growth performance and long-chain polyunsaturated fatty acids (LC-PUFA) biosynthetic ability of red tilapia ( <i>Oreochromis mossambicus</i> ) fed fish oil or vegetable oil diet at different salinities. <i>Aquaculture</i> , 2021, 542, 736899.	3.5	22
31	Dietary chromium modulates glucose homeostasis and induces oxidative stress in Pacific white shrimp ( <i>Litopenaeus vannamei</i> ). <i>Aquatic Toxicology</i> , 2021, 240, 105967.	4.0	15
32	Impacts of dietary konjac glucomannan supplementation on growth, antioxidant capacity, hepatic lipid metabolism and inflammatory response in golden pompano ( <i>Trachinotus ovatus</i> ) fed a high fat diet. <i>Aquaculture</i> , 2021, 545, 737113.	3.5	26
33	Risk assessment of the use of alternative animal and plant raw material resources in aquaculture feeds. <i>Reviews in Aquaculture</i> , 2020, 12, 703-758.	9.6	122
34	Modification of nutritional values and flavor qualities of muscle of swimming crab ( <i>Portunus</i> )	8.3	51
35	Effects of dietary lipid level on growth, fatty acid profiles, antioxidant capacity and expression of genes involved in lipid metabolism in juvenile swimming crab, <i>Portunus trituberculatus</i> . <i>British Journal of Nutrition</i> , 2020, 123, 149-160.	2.6	42
36	The catadromous teleost <i>Anguilla japonica</i> has a complete enzymatic repertoire for the biosynthesis of docosahexaenoic acid from l $\alpha$ -linolenic acid: Cloning and functional characterization of an Elovl2 elongase. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2020, 240, 110373.	1.7	16

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37	Molecular and functional characterisation of a putative elovl4 gene and its expression in response to dietary fatty acid profile in Atlantic bluefin tuna ( <i>Thunnus thynnus</i> ). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2020, 240, 110372.	1.7	23
38	Can mesopelagic mixed layers be used as feed sources for salmon aquaculture?. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2020, 180, 104722.	1.5	28
39	Long-chain polyunsaturated fatty acid metabolism in carnivorous marine teleosts: Insight into the profile of endogenous biosynthesis in golden pompano ( <i>Trachinotus ovatus</i> ). <i>Aquaculture Research</i> , 2020, 51, 623-635.	1.8	13
40	Variation in the nutritional composition of farmed Atlantic salmon ( <i>Salmo salar</i> L.) fillets with emphasis on EPA and DHA contents. <i>Journal of Food Composition and Analysis</i> , 2020, 94, 103618.	3.9	27
41	Agriculture can help aquaculture become greener. <i>Nature Food</i> , 2020, 1, 680-683.	10.0	36
42	miR-26a mediates LC-PUFA biosynthesis by targeting the Lxr1/Srebp1 pathway in the marine teleost <i>Siganus canaliculatus</i> . <i>Journal of Biological Chemistry</i> , 2020, 295, 13875-13886.	3.5	9
43	Development of a C18 Supercritical Fluid Chromatography-Tandem Mass Spectrometry Methodology for the Analysis of Very-Long-Chain Polyunsaturated Fatty Acid Lipid Matrices and Its Application to Fish Oil Substitutes Derived from Genetically Modified Oilseeds in the Aquaculture Sector. <i>ACS Omega</i> , 2020, 5, 22289-22298.	3.6	8
44	Identification of miR-145 as a Key Regulator Involved in LC-PUFA Biosynthesis by Targeting <i>hnf4</i> in the Marine Teleost <i>Siganus canaliculatus</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 15123-15133.	5.3	5
45	Influence of dietary zinc on growth, zinc bioaccumulation and expression of genes involved in antioxidant and innate immune in juvenile mud crabs ( <i>Scylla paramamosain</i> ). <i>British Journal of Nutrition</i> , 2020, 124, 681-692.	2.6	17
46	The miR-15/16 Cluster Is Involved in the Regulation of Vertebrate LC-PUFA Biosynthesis by Targeting <i>ppar3</i> as Demonstrated in Rabbitfish <i>Siganus canaliculatus</i> . <i>Marine Biotechnology</i> , 2020, 22, 475-487.	2.3	6
47	Higher dietary micronutrients are required to maintain optimal performance of Atlantic salmon ( <i>Salmo salar</i> ) fed a high plant material diet during the full production cycle. <i>Aquaculture</i> , 2020, 528, 735551.	3.5	25
48	Effects of dietary zinc level on growth performance, lipolysis and expression of genes involved in the calcium/calmodulin-dependent protein kinase kinase-1 <sup>2</sup> /AMP-activated protein kinase pathway in juvenile Pacific white shrimp. <i>British Journal of Nutrition</i> , 2020, 124, 773-784.	2.6	22
49	Dietary micronutrient composition affects fillet texture and muscle cell size in Atlantic salmon ( <i>Salmo salar</i> L.) Tj ETQq1 1 0.784314 rgBT /Overlock 2.7 5	2.7	5
50	Growth and digestive enzyme activities of rohu <i>labeo rohita</i> fed diets containing macrophytes and almond oil-cake. <i>Animal Feed Science and Technology</i> , 2020, 263, 114456.	2.2	20
51	Central and peripheral clocks in Atlantic bluefin tuna ( <i>Thunnus thynnus</i> , L.): Daily rhythmicity of hepatic lipid metabolism and digestive genes. <i>Aquaculture</i> , 2020, 523, 735220.	3.5	14
52	Genome wide identification and functional characterization of two LC-PUFA biosynthesis elongase ( <i>elovl8</i> ) genes in rabbitfish ( <i>Siganus canaliculatus</i> ). <i>Aquaculture</i> , 2020, 522, 735127.	3.5	36
53	Dietary fenofibrate attenuated high-fat-diet-induced lipid accumulation and inflammation response partly through regulation of <i>ppar1</i> and <i>sirt1</i> in juvenile black seabream ( <i>Acanthopagrus schlegelii</i> ). <i>Developmental and Comparative Immunology</i> , 2020, 109, 103691.	2.2	36
54	Toxicological mechanism of excessive copper supplementation: Effects on coloration, copper bioaccumulation and oxidation resistance in mud crab <i>Scylla paramamosain</i> . <i>Journal of Hazardous Materials</i> , 2020, 395, 122600.	12.5	37

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55	No transfer of the non-regulated mycotoxins, beauvericin and enniatins, from feeds to farmed fish reared on plant-based diets. <i>Food Chemistry</i> , 2020, 323, 126773.	8.3	12
56	Functional diversification of teleost Fads2 fatty acyl desaturases occurs independently of the trophic level. <i>Scientific Reports</i> , 2019, 9, 11199.	3.4	32
57	Endogenous production of n-3 long-chain PUFA from first feeding and the influence of dietary linoleic acid and the n-3-linolenic:linoleic ratio in Atlantic salmon ( <i>Salmo salar</i> ). <i>British Journal of Nutrition</i> , 2019, 122, 1091-1102.	2.6	17
58	Sp1 is Involved in Vertebrate LC-PUFA Biosynthesis by Upregulating the Expression of Liver Desaturase and Elongase Genes. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5066.	4.2	15
59	Enhanced micronutrient supplementation in low marine diets reduced vertebral malformation in diploid and triploid Atlantic salmon ( <i>Salmo salar</i> ) parr, and increased vertebral expression of bone biomarker genes in diploids. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2019, 237, 110327.	1.7	12
60	Production potential of greater duckweed <i>Spirodela polyrhiza</i> (L. Schleiden) and its biochemical composition evaluation. <i>Aquaculture</i> , 2019, 513, 734419.	3.5	16
61	miR-24 is involved in vertebrate LC-PUFA biosynthesis as demonstrated in marine teleost <i>Siganus canaliculatus</i> . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 619-628.	2.6	20
62	Taurine metabolism and effects of inclusion levels in rotifer ( <i>Brachionus rotundiformis</i> ), <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (Ts)</i> 353-363.	3.5	4
63	MicroRNAs Involved in the Regulation of LC-PUFA Biosynthesis in Teleosts: miR-33 Enhances LC-PUFA Biosynthesis in <i>Siganus canaliculatus</i> by Targeting <i>insig1</i> which in Turn Upregulates <i>sreb1</i> . <i>Marine Biotechnology</i> , 2019, 21, 475-487.	2.3	18
64	Biosynthesis of long-chain polyunsaturated fatty acids in the razor clam <i>Sinonovacula constricta</i> : Characterization of four fatty acyl elongases and a novel desaturase capacity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 1083-1090.	2.6	21
65	Evaluation of different feeding protocols for larvae of Atlantic bluefin tuna ( <i>Thunnus thynnus</i> L.). <i>Aquaculture</i> , 2019, 505, 523-538.	3.5	10
66	Dietary choline supplementation attenuated high-fat diet-induced inflammation through regulation of lipid metabolism and suppression of NF $\kappa$ B activation in juvenile black seabream ( <i>Acanthopagrus</i> ) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (Ts)</i>	3.5	4
67	Ppar $\delta$ Is Involved in the Transcriptional Regulation of Liver LC-PUFA Biosynthesis by Targeting the $\delta$ 5 Fatty Acyl Desaturase Gene in the Marine Teleost <i>Siganus canaliculatus</i> . <i>Marine Biotechnology</i> , 2019, 21, 19-29.	2.3	16
68	Performance, feed utilization, and hepatic metabolic response of weaned juvenile Atlantic bluefin tuna ( <i>Thunnus thynnus</i> L.): effects of dietary lipid level and source. <i>Fish Physiology and Biochemistry</i> , 2019, 45, 697-718.	2.2	12
69	Omega-3 Long-Chain Polyunsaturated Fatty Acids, EPA and DHA: Bridging the Gap between Supply and Demand. <i>Nutrients</i> , 2019, 11, 89.	4.2	392
70	The effect of micronutrient supplementation on growth and hepatic metabolism in diploid and triploid Atlantic salmon ( <i>Salmo salar</i> ) parr fed a low marine ingredient diet. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2019, 227, 106-121.	1.7	25
71	Update on <i>GM</i> canola crops as novel sources of omega-3 fish oils. <i>Plant Biotechnology Journal</i> , 2019, 17, 703-705.	8.4	72
72	Essential fatty acid metabolism and requirements of the cleaner fish, ballan wrasse <i>Labrus bergylta</i> : Defining pathways of long-chain polyunsaturated fatty acid biosynthesis. <i>Aquaculture</i> , 2018, 488, 199-206.	3.5	21

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73	Cloning and characterization of a $\Delta^6/\Delta^5$ fatty acyl desaturase (Fad) gene promoter in the marine teleost <i>Siganus canaliculatus</i> . <i>Gene</i> , 2018, 647, 174-180.	2.3	36
74	Hnf4 $\beta$ is involved in the regulation of vertebrate LC-PUFA biosynthesis: insights into the regulatory role of Hnf4 $\beta$ on expression of liver fatty acyl desaturases in the marine teleost <i>Siganus canaliculatus</i> . <i>Fish Physiology and Biochemistry</i> , 2018, 44, 805-815.	2.2	21
75	Genes for de novo biosynthesis of omega-3 polyunsaturated fatty acids are widespread in animals. <i>Science Advances</i> , 2018, 4, eaar6849.	10.8	271
76	Characteristics of the fads2 gene promoter in marine teleost <i>Epinephelus coioides</i> and role of Sp1-binding site in determining promoter activity. <i>Scientific Reports</i> , 2018, 8, 5305.	3.4	27
77	Total Replacement of Dietary Fish Oil with a Blend of Vegetable Oils in the Marine Herbivorous Teleost, <i>Siganus canaliculatus</i> . <i>Journal of the World Aquaculture Society</i> , 2018, 49, 692-702.	2.3	8
78	Impact of Dietary Carbohydrate/Protein Ratio on Hepatic Metabolism in Land-Locked Atlantic Salmon ( <i>Salmo salar</i> L.). <i>Frontiers in Physiology</i> , 2018, 9, 1751.	2.8	8
79	Mass Production of <i>Lemna minor</i> and Its Amino Acid and Fatty Acid Profiles. <i>Frontiers in Chemistry</i> , 2018, 6, 479.	3.7	67
80	Retention of fatty acyl desaturase 1 (fads1) in Elopomorpha and Cyclostomata provides novel insights into the evolution of long-chain polyunsaturated fatty acid biosynthesis in vertebrates. <i>BMC Evolutionary Biology</i> , 2018, 18, 157.	3.1	44
81	Oil from transgenic <i>Camelina sativa</i> containing over 25 % n-3 long-chain PUFA as the major lipid source in feed for Atlantic salmon ( <i>Salmo salar</i> ). <i>British Journal of Nutrition</i> , 2018, 119, 1378-1392.	2.6	52
82	Encapsulated Fish Oil Products Available in the UK Meet Regulatory Guidelines With Respect to EPA+DHA Contents and Oxidative Status. <i>European Journal of Lipid Science and Technology</i> , 2018, 120, 191800105.		12
83	Polyunsaturated Fatty Acid Biosynthesis and Metabolism in Fish. , 2018, , 31-60.		38
84	Molecular cloning and functional characterization of a putative <i>Elovl4</i> gene and its expression in response to dietary fatty acid profiles in orange-spotted grouper <i>Epinephelus coioides</i> . <i>Aquaculture Research</i> , 2017, 48, 537-552.	1.8	37
85	Two alternative pathways for docosahexaenoic acid (DHA, 22:6n-3) biosynthesis are widespread among teleost fish. <i>Scientific Reports</i> , 2017, 7, 3889.	3.4	105
86	Molecular aspects of lipid metabolism, digestibility and antioxidant status of Atlantic bluefin tuna ( <i>T. j. ETQq0 0 0 rgBT /Overlock 10 Tf</i> )	3.5	12
87	Nutritional evaluation of seafood, with respect to long-chain omega-3 fatty acids, available to UK consumers. <i>Proceedings of the Nutrition Society</i> , 2017, 76, .	1.0	11
88	Elongation of very Long Chain (>C <sub>24</sub> ) Fatty Acids in <i>Clarias gariepinus</i> : Cloning, Functional Characterization and Tissue Expression of <i>elovl4</i> Elongases. <i>Lipids</i> , 2017, 52, 837-848.	1.7	31
89	Early nutritional intervention can improve utilisation of vegetable-based diets in diploid and triploid Atlantic salmon ( <i>Salmo salar</i> L.). <i>British Journal of Nutrition</i> , 2017, 118, 17-29.	2.6	50
90	Functional characterization and differential nutritional regulation of putative <i>Elovl5</i> and <i>Elovl4</i> elongases in large yellow croaker ( <i>Larimichthys crocea</i> ). <i>Scientific Reports</i> , 2017, 7, 2303.	3.4	84

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91	The compositional and metabolic responses of gilthead seabream ( <i>Sparus aurata</i> ) to a gradient of dietary fish oil and associated $n-3$ long-chain PUFA content. <i>British Journal of Nutrition</i> , 2017, 118, 1010-1022.	2.6	46
92	Molecular and functional characterisation of two <i>elovl4</i> elongases involved in the biosynthesis of very long-chain (> C24) polyunsaturated fatty acids in black seabream <i>Acanthopagrus schlegelii</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2017, 212, 41-50.	1.7	37
93	Comparative study on fatty acid metabolism of early stages of two crustacean species: <i>Artemia</i> sp. <i>metanauplii</i> and <i>Grapsus adscensionis</i> zoeae, as live prey for marine animals. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2017, 204, 53-60.	1.7	17
94	Lipid metabolism-related gene expression pattern of Atlantic bluefin tuna ( <i>Thunnus thynnus</i> L.) larvae fed on live prey. <i>Fish Physiology and Biochemistry</i> , 2017, 43, 493-516.	2.2	21
95	Future availability of raw materials for salmon feeds and supply chain implications: The case of Scottish farmed salmon. <i>Aquaculture</i> , 2017, 467, 49-62.	3.5	79
96	Molecular and functional characterization of a <i>fads2</i> orthologue in the Amazonian teleost, <i>Arapaima gigas</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2017, 203, 84-91.	1.7	29
97	Biosynthesis of Polyunsaturated Fatty Acids in <i>Octopus vulgaris</i> : Molecular Cloning and Functional Characterisation of a Stearoyl-CoA Desaturase and an Elongation of Very Long-Chain Fatty Acid 4 Protein. <i>Marine Drugs</i> , 2017, 15, 82.	4.5	37
98	An oil containing EPA and DHA from transgenic <i>Camelina sativa</i> to replace marine fish oil in feeds for Atlantic salmon ( <i>Salmo salar</i> L.): Effects on intestinal transcriptome, histology, tissue fatty acid profiles and plasma biochemistry. <i>PLoS ONE</i> , 2017, 12, e0175415.	2.5	74
99	Dietary DHA/EPA ratio affected tissue fatty acid profiles, antioxidant capacity, hematological characteristics and expression of lipid-related genes but not growth in juvenile black seabream ( <i>Acanthopagrus schlegelii</i> ). <i>PLoS ONE</i> , 2017, 12, e0176216.	2.5	52
100	Isolation and Functional Characterisation of a <i>fads2</i> in Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) with $\uparrow$ 5 Desaturase Activity. <i>PLoS ONE</i> , 2016, 11, e0150770.	2.5	29
101	Hepatocyte Nuclear Factor $4\uparrow$ (HNF $4\uparrow$ ) Is a Transcription Factor of Vertebrate Fatty Acyl Desaturase Gene as Identified in Marine Teleost <i>Siganus canaliculatus</i> . <i>PLoS ONE</i> , 2016, 11, e0160361.	2.5	34
102	Could an El Niño event put dietary supplies of $n-3$ long-chain polyunsaturated fatty acids (EPA and DHA) in jeopardy. <i>European Journal of Lipid Science and Technology</i> , 2016, 118, 1684-1691.	1.9	5
103	Evolutionary functional elaboration of the <i>Elovl2/5</i> gene family in chordates. <i>Scientific Reports</i> , 2016, 6, 20510.	3.4	64
104	Modulation of selenium tissue distribution and selenoprotein expression in Atlantic salmon ( <i>Salmo salar</i> L.) fed diets with graded levels of plant ingredients. <i>British Journal of Nutrition</i> , 2016, 115, 1325-1338.	2.6	25
105	Biosynthesis of long-chain polyunsaturated fatty acids in the African catfish <i>Clarias gariepinus</i> : Molecular cloning and functional characterisation of fatty acyl desaturase ( <i>fads2</i> ) and elongase ( <i>elovl2</i> ) cDNAs. <i>Aquaculture</i> , 2016, 462, 70-79.	3.5	68
106	Differential responses of the gut transcriptome to plant protein diets in farmed Atlantic salmon. <i>BMC Genomics</i> , 2016, 17, 156.	2.9	103
107	A Transgenic <i>Camelina sativa</i> Seed Oil Effectively Replaces Fish Oil as a Dietary Source of Eicosapentaenoic Acid in Mice. <i>Journal of Nutrition</i> , 2016, 146, 227-235.	2.7	25
108	Influence of dietary inclusion of a wet processed faba bean protein isolate on post-smolt Atlantic salmon ( <i>Salmo salar</i> ). <i>Aquaculture</i> , 2016, 465, 124-133.	3.5	16

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109	Regulatory divergence of homeologous Atlantic salmon <i>elov5</i> genes following the salmonid-specific whole-genome duplication. <i>Gene</i> , 2016, 591, 34-42.	2.3	12
110	Cloning and Characterization of <i>Lxr</i> and <i>Srebp1</i> , and Their Potential Roles in Regulation of LC-PUFA Biosynthesis in Rabbitfish <i>Siganus canaliculatus</i> . <i>Lipids</i> , 2016, 51, 1051-1063.	1.7	34
111	The miR-33 gene is identified in a marine teleost: a potential role in regulation of LC-PUFA biosynthesis in <i>Siganus canaliculatus</i> . <i>Scientific Reports</i> , 2016, 6, 32909.	3.4	19
112	Composition and metabolism of phospholipids in <i>Octopus vulgaris</i> and <i>Sepia officinalis</i> hatchlings. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2016, 200, 62-68.	1.7	20
113	Impact of sustainable feeds on omega-3 long-chain fatty acid levels in farmed Atlantic salmon, 2006-2015. <i>Scientific Reports</i> , 2016, 6, 21892.	3.4	347
114	Nutritional regulation of long-chain PUFA biosynthetic genes in rainbow trout ( <i>Oncorhynchus</i> )	2.6	33
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132	Evaluation of a high-EPA oil from transgenic <i>Camelina sativa</i> in feeds for Atlantic salmon ( <i>Salmo salar</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 1-12.	3.5	131
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