Douglas R Tocher

List of Publications by Year in Descending Order

361 papers	23,861 citations	82 h-index	141 g-index
367 ext. papers	26,529 ext. citations	3.9 avg, IF	7.33 L-index

#	Paper	IF	Citations
361	Environmental adaptation in fish induced changes in the regulatory region of fatty acid elongase gene, elovl5, involved in long-chain polyunsaturated fatty acid biosynthesis.. *International Journal of Biological Macromolecules*, **2022**, 204, 144-153	7.9	0
360	Desaturases and elongases involved in long-chain polyunsaturated fatty acid biosynthesis in aquatic animals: From genes to functions.. *Progress in Lipid Research*, **2022**, 86, 101157	14.3	5
359	Micronutrient supplementation affects DNA methylation in male gonads with potential intergenerational epigenetic inheritance involving the embryonic development through glutamate receptor-associated genes.. *BMC Genomics*, **2022**, 23, 115	4.5	0
358	Hepatopancreas transcriptomic and lipidomic analyses reveal the molecular responses of mud crab (Scylla paramamosain) to dietary ratio of docosahexaenoic acid to eicosapentaenoic acid. *Aquaculture*, **2022**, 551, 737903	4.4	1
357	The lipids **2022**, 303-467		6
356	Lipidomic profiling reveals molecular modification of lipids in hepatopancreas of juvenile mud crab (Scylla paramamosain) fed with different dietary DHA/EPA ratios. *Food Chemistry*, **2022**, 372, 131289	8.5	3
355	Effects of an alternating linseed oil-fish oil feeding strategy on growth, fatty acid restoration and expression of lipid related genes in black seabream (A. schlegelii). *Aquaculture*, **2022**, 547, 737456	4.4	2
354	Effect of Lemna minor supplemented diets on growth, digestive physiology and expression of fatty acids biosynthesis genes of Cyprinus carpio.. *Scientific Reports*, **2022**, 12, 3711	4.9	
353	Physiological responses and adaptive strategies to acute low-salinity environmental stress of the euryhaline marine fish black seabream (Acanthopagrus schlegelii). *Aquaculture*, **2022**, 554, 738117	4.4	0
352	Freshwater Macrophytes: A Potential Source of Minerals and Fatty Acids for Fish, Poultry, and Livestock.. *Frontiers in Nutrition*, **2022**, 9, 869425	6.2	0
351	Dietary calcium pyruvate could improve growth performance and reduce excessive lipid deposition in juvenile golden pompano (Trachinotus ovatus) fed a high fat diet.. *Fish Physiology and Biochemistry*, **2022**, 1	2.7	0
350	A comparison of regression models for defining EPA+DHA requirements using the gilthead seabream (Sparus aurata) as a model species. *Aquaculture*, **2022**, 556, 738308	4.4	0
349	Micronutrient supplementation affects transcriptional and epigenetic regulation of lipid metabolism in a dose-dependent manner. *Epigenetics*, **2021**, 16, 1217-1234	5.7	9
348	Dietary organic zinc promotes growth, immune response and antioxidant capacity by modulating zinc signaling in juvenile Pacific white shrimp (Litopenaeus vannamei). *Aquaculture Reports*, **2021**, 19, 100638	2.3	4
347	Dietary soybean oil aggravates the adverse effects of low salinity on intestinal health in juvenile mud crab Scylla paramamosain. *Ecotoxicology and Environmental Safety*, **2021**, 213, 112004	7	5
346	Regulation of long-chain polyunsaturated fatty acid biosynthesis in teleost fish. *Progress in Lipid Research*, **2021**, 82, 101095	14.3	14
345	Dietary copper improves growth and regulates energy generation by mediating lipolysis and autophagy in hepatopancreas of Pacific white shrimp (Litopenaeus vannamei). *Aquaculture*, **2021**, 537, 736505	4.4	4

344	Oil from transgenic as a source of EPA and DHA in feed for European sea bass (L.). *Aquaculture*, **2021**, 530, 735759	4.4	10
343	Effects of different dietary oil sources on growth performance, antioxidant capacity and lipid deposition of juvenile golden pompano Trachinotus ovatus. *Aquaculture*, **2021**, 530, 735923	4.4	11
342	Dietary DHA/EPA ratio affects growth, tissue fatty acid profiles and expression of genes involved in lipid metabolism in mud crab Scylla paramamosain supplied with appropriate n-3 LC-PUFA at two lipid levels. *Aquaculture*, **2021**, 532, 736028	4.4	13
341	What influences the intention to adopt aquaculture innovations? Concepts and empirical assessment of fish farmers□perceptions and beliefs about aquafeed containing non-conventional ingredients. *Aquaculture, Economics and Management*, **2021**, 25, 339-366	3.5	2
340	Transcriptomic and physiological analyses of hepatopancreas reveal the key metabolic changes in response to dietary copper level in Pacific white shrimp Litopenaeus vannamei. *Aquaculture*, **2021**, 532, 736060	4.4	9
339	Dietary lipid and -3 long-chain PUFA levels impact growth performance and lipid metabolism of juvenile mud crab,. *British Journal of Nutrition*, **2021**, 125, 876-890	3.6	5
338	Untargeted lipidomics reveals metabolic responses to different dietary n-3 PUFA in juvenile swimming crab (Portunus trituberculatus). *Food Chemistry*, **2021**, 354, 129570	8.5	9
337	Comparison of the growth performance and long-chain polyunsaturated fatty acids (LC-PUFA) biosynthetic ability of red tilapia (Oreochromis mossambicus?□O. niloticus?) fed fish oil or vegetable oil diet at different salinities. *Aquaculture*, **2021**, 542, 736899	4.4	4
336	Dietary chromium modulates glucose homeostasis and induces oxidative stress in Pacific white shrimp (Litopenaeus vannamei). *Aquatic Toxicology*, **2021**, 240, 105967	5.1	3
335	Environmental salinity and dietary lipid nutrition strategy: Effects on flesh quality of the marine euryhaline crab Scylla paramamosain. *Food Chemistry*, **2021**, 361, 130160	8.5	0
334	Impacts of dietary konjac glucomannan supplementation on growth, antioxidant capacity, hepatic lipid metabolism and inflammatory response in golden pompano (Trachinotus ovatus) fed a high fat diet. *Aquaculture*, **2021**, 545, 737113	4.4	4
333	Influence of dietary zinc on growth, zinc bioaccumulation and expression of genes involved in antioxidant and innate immune in juvenile mud crabs (). *British Journal of Nutrition*, **2020**, 124, 681-692	3.6	6
332	The miR-15/16 Cluster Is Involved in the Regulation of Vertebrate LC-PUFA Biosynthesis by Targeting ppar□as Demonostrated in Rabbitfish Siganus canaliculatus. *Marine Biotechnology*, **2020**, 22, 475-487	3.4	4
331	Higher dietary micronutrients are required to maintain optimal performance of Atlantic salmon (Salmo salar) fed a high plant material diet during the full production cycle. *Aquaculture*, **2020**, 528, 735551	4.4	15
330	Effects of dietary zinc level on growth performance, lipolysis and expression of genes involved in the calcium/calmodulin-dependent protein kinase kinase-□AMP-activated protein kinase pathway in juvenile Pacific white shrimp. *British Journal of Nutrition*, **2020**, 124, 773-784	3.6	10
329	Dietary micronutrient composition affects fillet texture and muscle cell size in Atlantic salmon (Salmo salar). *Aquaculture Nutrition*, **2020**, 26, 936-945	3.2	2
328	Growth and digestive enzyme activities of rohu labeo rohita fed diets containing macrophytes and almond oil-cake. *Animal Feed Science and Technology*, **2020**, 263, 114456	3	7
327	Central and peripheral clocks in Atlantic bluefin tuna (Thunnus thynnus, L.): Daily rhythmicity of hepatic lipid metabolism and digestive genes. *Aquaculture*, **2020**, 523, 735220	4.4	5

326	Genome wide identification and functional characterization of two LC-PUFA biosynthesis elongase (elovl8) genes in rabbitfish (Siganus canaliculatus). *Aquaculture*, **2020**, 522, 735127	4.4	11
325	Dietary fenofibrate attenuated high-fat-diet-induced lipid accumulation and inflammation response partly through regulation of ppar and sirt1 in juvenile black seabream (Acanthopagrus schlegelii). *Developmental and Comparative Immunology*, **2020**, 109, 103691	3.2	11
324	Toxicological mechanism of excessive copper supplementation: Effects on coloration, copper bioaccumulation and oxidation resistance in mud crab Scylla paramamosain. *Journal of Hazardous Materials*, **2020**, 395, 122600	12.8	15
323	The catadromous teleost Anguilla japonica has a complete enzymatic repertoire for the biosynthesis of docosahexaenoic acid from linolenic acid: Cloning and functional characterization of an Elovl2 elongase. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2020**, 240, 110373	2.3	11
322	Molecular and functional characterisation of a putative elovl4 gene and its expression in response to dietary fatty acid profile in Atlantic bluefin tuna (Thunnus thynnus). *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2020**, 240, 110372	2.3	15
321	Can mesopelagic mixed layers be used as feed sources for salmon aquaculture?. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2020**, 180, 104722	2.3	9
320	Long-chain polyunsaturated fatty acid metabolism in carnivorous marine teleosts: Insight into the profile of endogenous biosynthesis in golden pompano Trachinotus ovatus. *Aquaculture Research*, **2020**, 51, 623-635	1.9	11
319	Variation in the nutritional composition of farmed Atlantic salmon (Salmo salar L.) fillets with emphasis on EPA and DHA contents. *Journal of Food Composition and Analysis*, **2020**, 94, 103618	4.1	10
318	Agriculture can help aquaculture become greener. *Nature Food*, **2020**, 1, 680-683	14.4	7
317	miR-26a mediates LC-PUFA biosynthesis by targeting the Lxr Srebp1 pathway in the marine teleost. *Journal of Biological Chemistry*, **2020**, 295, 13875-13886	5.4	6
316	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. *ACS Omega*, **2020**, 5, 22289-22298	3.9	5
315	Identification of miR-145 as a Key Regulator Involved in LC-PUFA Biosynthesis by Targeting n the Marine Teleost. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 15123-15133	5.7	2
314	Risk assessment of the use of alternative animal and plant raw material resources in aquaculture feeds. *Reviews in Aquaculture*, **2020**, 12, 703-758	8.9	54
313	Modification of nutritional values and flavor qualities of muscle of swimming crab (Portunus trituberculatus): Application of a dietary lipid nutrition strategy. *Food Chemistry*, **2020**, 308, 125607	8.5	21
312	Effects of dietary lipid level on growth, fatty acid profiles, antioxidant capacity and expression of genes involved in lipid metabolism in juvenile swimming crab,. *British Journal of Nutrition*, **2020**, 123, 149-160	3.6	18
311	No transfer of the non-regulated mycotoxins, beauvericin and enniatins, from feeds to farmed fish reared on plant-based diets. *Food Chemistry*, **2020**, 323, 126773	8.5	8
310	Production potential of greater duckweed Spirodela polyrhiza (L. Schleiden) and its biochemical composition evaluation. *Aquaculture*, **2019**, 513, 734419	4.4	6
309	miR-24 is involved in vertebrate LC-PUFA biosynthesis as demonstrated in marine teleost Siganus canaliculatus. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2019**, 1864, 619-628	5	16

308	Taurine metabolism and effects of inclusion levels in rotifer (Brachionus rotundiformis, Tschugunoff, 1921) on Atlantic bluefin tuna (Thunnus thynnus, L.) larvae. *Aquaculture*, **2019**, 510, 353-363	4.4	2
307	MicroRNAs Involved in the Regulation of LC-PUFA Biosynthesis in Teleosts: miR-33 Enhances LC-PUFA Biosynthesis in Siganus canaliculatus by Targeting insig1 which in Turn Upregulates srebp1. *Marine Biotechnology*, **2019**, 21, 475-487	3.4	14
306	Biosynthesis of long-chain polyunsaturated fatty acids in the razor clam Sinonovacula constricta: Characterization of four fatty acyl elongases and a novel desaturase capacity. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2019**, 1864, 1083-1090	5	12
305	Evaluation of different feeding protocols for larvae of Atlantic bluefin tuna (Thunnus thynnus L.). *Aquaculture*, **2019**, 505, 523-538	4.4	7
304	Functional diversification of teleost Fads2 fatty acyl desaturases occurs independently of the trophic level. *Scientific Reports*, **2019**, 9, 11199	4.9	20
303	Endogenous production of -3 long-chain PUFA from first feeding and the influence of dietary linoleic acid and the -linolenic:linoleic ratio in Atlantic salmon (). *British Journal of Nutrition*, **2019**, 122, 1091-1102	3.6	9
302	Sp1 is Involved in Vertebrate LC-PUFA Biosynthesis by Upregulating the Expression of Liver Desaturase and Elongase Genes. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	8
301	Enhanced micronutrient supplementation in low marine diets reduced vertebral malformation in diploid and triploid Atlantic salmon (Salmo salar) parr, and increased vertebral expression of bone biomarker genes in diploids. *Comparative Biochemistry and Physiology - B Biochemistry and*	2.3	11
300	Dietary choline supplementation attenuated high-fat diet-induced inflammation through regulation of lipid metabolism and suppression of NFB activation in juvenile black seabream (). *Journal of Nutritional Science*, **2019**, 8, e38	2.7	17
299	Metformin attenuates lipid accumulation in hepatocytes of blunt snout bream (Megalobrama amblycephala) via activation of AMP-activated protein kinase. *Aquaculture*, **2019**, 499, 90-100	4.4	9
298	Ppar□s Involved in the Transcriptional Regulation of Liver LC-PUFA Biosynthesis by Targeting the □5 Fatty Acyl Desaturase Gene in the Marine Teleost Siganus canaliculatus. *Marine Biotechnology* , **2019**, 21, 19-29	3.4	11
297	Performance, feed utilization, and hepatic metabolic response of weaned juvenile Atlantic bluefin tuna (Thunnus thynnus L.): effects of dietary lipid level and source. *Fish Physiology and Biochemistry*, **2019**, 45, 697-718	2.7	5
296	Omega-3 Long-Chain Polyunsaturated Fatty Acids, EPA and DHA: Bridging the Gap between Supply and Demand. *Nutrients*, **2019**, 11,	6.7	209
295	The effect of micronutrient supplementation on growth and hepatic metabolism in diploid and triploid Atlantic salmon (Salmo salar) parr fed a low marine ingredient diet. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2019**, 227, 106-121	2.3	20
294	Update on GM canola crops as novel sources of omega-3 fish oils. *Plant Biotechnology Journal*, **2019** , 17, 703-705	11.6	38
293	Essential fatty acid metabolism and requirements of the cleaner fish, ballan wrasse Labrus bergylta: Defining pathways of long-chain polyunsaturated fatty acid biosynthesis. *Aquaculture*, **2018**, 488, 199-206	4.4	15
292	Cloning and characterization of /5 fatty acyl desaturase (Fad) gene promoter in the marine teleost Siganus canaliculatus. *Gene*, **2018**, 647, 174-180	3.8	28
291	Hnf4□s involved in the regulation of vertebrate LC-PUFA biosynthesis: insights into the regulatory role of Hnf4□n expression of liver fatty acyl desaturases in the marine teleost Siganus canaliculatus. *Fish Physiology and Biochemistry*, **2018**, 44, 805-815	2.7	15

290	Genes for de novo biosynthesis of omega-3 polyunsaturated fatty acids are widespread in animals. *Science Advances*, **2018**, 4, eaar6849	14.3	123
289	Characteristics of the fads2 gene promoter in marine teleost Epinephelus coioides and role of Sp1-binding site in determining promoter activity. *Scientific Reports*, **2018**, 8, 5305	4.9	19
288	Encapsulated Fish Oil Products Available in the UK Meet Regulatory Guidelines With Respect to EPA + DHA Contents and Oxidative Status. *European Journal of Lipid Science and Technology*, **2018**, 120, 1800105	3	7
287	Polyunsaturated Fatty Acid Biosynthesis and Metabolism in Fish **2018**, 31-60		19
286	Total Replacement of Dietary Fish Oil with a Blend of Vegetable Oils in the Marine Herbivorous Teleost, Siganus canaliculatus. *Journal of the World Aquaculture Society*, **2018**, 49, 692-702	2.5	8
285	Impact of Dietary Carbohydrate/Protein Ratio on Hepatic Metabolism in Land-Locked Atlantic Salmon (L.). *Frontiers in Physiology*, **2018**, 9, 1751	4.6	5
284	Mass Production of and Its Amino Acid and Fatty Acid Profiles. *Frontiers in Chemistry*, **2018**, 6, 479	5	24
283	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. *BMC Evolutionary Biology*, **2018**, 18, 157	3	29
282	Oil from transgenic Camelina sativa containing over 25 % n-3 long-chain PUFA as the major lipid source in feed for Atlantic salmon (Salmo salar). *British Journal of Nutrition*, **2018**, 119, 1378-1392	3.6	33
281	Molecular cloning and functional characterization of a putative Elovl4 gene and its expression in response to dietary fatty acid profiles in orange-spotted grouper Epinephelus coioides. *Aquaculture Research*, **2017**, 48, 537-552	1.9	33
280	Two alternative pathways for docosahexaenoic acid (DHA, 22:6n-3) biosynthesis are widespread among teleost fish. *Scientific Reports*, **2017**, 7, 3889	4.9	74
279	Molecular aspects of lipid metabolism, digestibility and antioxidant status of Atlantic bluefin tuna (T. thynnus L.) larvae during first feeding. *Aquaculture*, **2017**, 479, 357-369	4.4	9
278	Nutritional evaluation of seafood, with respect to long-chain omega-3 fatty acids, available to UK consumers. *Proceedings of the Nutrition Society*, **2017**, 76,	2.9	11
277	An oil containing EPA and DHA from transgenic Camelina sativa to replace marine fish oil in feeds for Atlantic salmon (Salmo salar L.): Effects on intestinal transcriptome, histology, tissue fatty acid profiles and plasma biochemistry. *PLoS ONE*, **2017**, 12, e0175415	3.7	50
276	Early nutritional programming affects liver transcriptome in diploid and triploid Atlantic salmon, Salmo salar. *BMC Genomics*, **2017**, 18, 886	4.5	20
275	Elongation of very Long-Chain (>C) Fatty Acids in Clarias gariepinus: Cloning, Functional Characterization and Tissue Expression of elovl4 Elongases. *Lipids*, **2017**, 52, 837-848	1.6	24
274	Microbial and genetically engineered oils as replacements for fish oil in aquaculture feeds. *Biotechnology Letters*, **2017**, 39, 1599-1609	3	87
273	Early nutritional intervention can improve utilisation of vegetable-based diets in diploid and triploid Atlantic salmon (Salmo salar L.). *British Journal of Nutrition*, **2017**, 118, 17-29	3.6	30

272	Functional characterization and differential nutritional regulation of putative Elovl5 and Elovl4 elongases in large yellow croaker (Larimichthys crocea). *Scientific Reports*, **2017**, 7, 2303	4.9	53
271	The compositional and metabolic responses of gilthead seabream (Sparus aurata) to a gradient of dietary fish oil and associated n-3 long-chain PUFA content. *British Journal of Nutrition*, **2017**, 118, 1010-1022	3.6	37
270	Molecular and functional characterisation of two elovl4 elongases involved in the biosynthesis of very long-chain (>C) polyunsaturated fatty acids in black seabream Acanthopagrus schlegelii. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2017**, 212, 41-50	2.3	30
269	Comparative study on fatty acid metabolism of early stages of two crustacean species: Artemia sp. metanauplii and Grapsus adscensionis zoeae, as live prey for marine animals. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2017**, 204, 53-60	2.3	13
268	Lipid metabolism-related gene expression pattern of Atlantic bluefin tuna (Thunnus thynnus L.) larvae fed on live prey. *Fish Physiology and Biochemistry*, **2017**, 43, 493-516	2.7	16
267	Future availability of raw materials for salmon feeds and supply chain implications: The case of Scottish farmed salmon. *Aquaculture*, **2017**, 467, 49-62	4.4	59
266	Molecular and functional characterization of a fads2 orthologue in the Amazonian teleost, Arapaima gigas. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2017**, 203, 84-91	2.3	25
265	Biosynthesis of Polyunsaturated Fatty Acids in Octopus vulgaris: Molecular Cloning and Functional Characterisation of a Stearoyl-CoA Desaturase and an Elongation of Very Long-Chain Fatty Acid 4 Protein. *Marine Drugs*, **2017**, 15,	6	26
264	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 (Acanthopagrus schlegelii). *PLoS ONE*, **2017**, 12, e0176216	3.7	29
263	In vivo metabolism of unsaturated fatty acids in Sepia officinalis hatchlings. *Aquaculture*, **2016**, 450, 67-73	4.4	12
262	Investigating the essential fatty acids in the common cuttlefish Sepia officinalis (Mollusca, Cephalopoda): Molecular cloning and functional characterisation of fatty acyl desaturase and elongase. *Aquaculture*, **2016**, 450, 38-47	4.4	24
261	Cloning and Characterization of Lxr and Srebp1, and Their Potential Roles in Regulation of LC-PUFA Biosynthesis in Rabbitfish Siganus canaliculatus. *Lipids*, **2016**, 51, 1051-63	1.6	26
260	The miR-33 gene is identified in a marine teleost: a potential role in regulation of LC-PUFA biosynthesis in Siganus canaliculatus. *Scientific Reports*, **2016**, 6, 32909	4.9	15
259	Composition and metabolism of phospholipids in Octopus vulgaris and Sepia officinalis hatchlings. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2016**, 200, 62-8	2.3	13
258	Impact of sustainable feeds on omega-3 long-chain fatty acid levels in farmed Atlantic salmon, 2006-2015. *Scientific Reports*, **2016**, 6, 21892	4.9	243
257	Nutritional regulation of long-chain PUFA biosynthetic genes in rainbow trout (Oncorhynchus mykiss). *British Journal of Nutrition*, **2016**, 115, 1721-9	3.6	23
256	Long-chain polyunsaturated fatty acid biosynthesis in the euryhaline herbivorous teleost Scatophagus argus: Functional characterization, tissue expression and nutritional regulation of two fatty acyl elongases. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2016**, 198, 37-45	2.3	33
255	Assessment of a land-locked Atlantic salmon (Salmo salar L.) population as a potential genetic resource with a focus on long-chain polyunsaturated fatty acid biosynthesis. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2016**, 1861, 227-38	5	14

254	Air-classified faba bean protein concentrate is efficiently utilized as a dietary protein source by post-smolt Atlantic salmon (Salmo salar). *Aquaculture*, **2016**, 452, 169-177	4.4	8
253	Long-chain polyunsaturated fatty acid biosynthesis in chordates: Insights into the evolution of Fads and Elovl gene repertoire. *Progress in Lipid Research*, **2016**, 62, 25-40	14.3	215
252	Nutritional Evaluation of an EPA-DHA Oil from Transgenic Camelina sativa in Feeds for Post-Smolt Atlantic Salmon (Salmo salar L.). *PLoS ONE*, **2016**, 11, e0159934	3.7	47
251	Temperature Increase Negatively Affects the Fatty Acid Bioconversion Capacity of Rainbow Trout (Oncorhynchus mykiss) Fed a Linseed Oil-Based Diet. *PLoS ONE*, **2016**, 11, e0164478	3.7	19
250	Isolation and Functional Characterisation of a fads2 in Rainbow Trout (Oncorhynchus mykiss) with □5 Desaturase Activity. *PLoS ONE*, **2016**, 11, e0150770	3.7	23
249	Hepatocyte Nuclear Factor 4□(HNF4□)Is a Transcription Factor of Vertebrate Fatty Acyl Desaturase Gene as Identified in Marine Teleost Siganus canaliculatus. *PLoS ONE*, **2016**, 11, e0160361	3.7	29
248	Could an El Ni□ event put dietary supplies of n-3 long-chain polyunsaturated fatty acids (EPA and DHA) in jeopardy. *European Journal of Lipid Science and Technology*, **2016**, 118, 1684-1691	3	4
247	Evolutionary functional elaboration of the Elovl2/5 gene family in chordates. *Scientific Reports*, **2016**, 6, 20510	4.9	46
246	Modulation of selenium tissue distribution and selenoprotein expression in Atlantic salmon (Salmo salar L.) fed diets with graded levels of plant ingredients. *British Journal of Nutrition*, **2016**, 115, 1325-38	3.6	19
245	Biosynthesis of long-chain polyunsaturated fatty acids in the African catfish Clarias gariepinus: Molecular cloning and functional characterisation of fatty acyl desaturase (fads2) and elongase (elovl2) cDNAs7. *Aquaculture*, **2016**, 462, 70-79	4.4	57
244	Differential responses of the gut transcriptome to plant protein diets in farmed Atlantic salmon. *BMC Genomics*, **2016**, 17, 156	4.5	54
243	A Transgenic Camelina sativa Seed Oil Effectively Replaces Fish Oil as a Dietary Source of Eicosapentaenoic Acid in Mice. *Journal of Nutrition*, **2016**, 146, 227-35	4.1	17
242	Influence of dietary inclusion of a wet processed faba bean protein isolate on post-smolt Atlantic salmon (Salmo salar). *Aquaculture*, **2016**, 465, 124-133	4.4	11
241	Replacement of Marine Fish Oil with de novo Omega-3 Oils from Transgenic Camelina sativa in Feeds for Gilthead Sea Bream (Sparus aurata L.). *Lipids*, **2016**, 51, 1171-1191	1.6	69
240	Regulatory divergence of homeologous Atlantic salmon elovl5 genes following the salmonid-specific whole-genome duplication. *Gene*, **2016**, 591, 34-42	3.8	8
239	Dynamics of fatty acid metabolism in a cell line from southern bluefin tuna (Thunnus maccoyii). *Aquaculture*, **2015**, 449, 58-68	4.4	5
238	Effects of dietary fatty acids on mitochondrial phospholipid compositions, oxidative status and mitochondrial gene expression of zebrafish at different ages. *Fish Physiology and Biochemistry*, **2015**, 41, 1187-204	2.7	6
237	Influence of dietary phospholipid on early development and performance of Atlantic salmon (Salmo salar). *Aquaculture*, **2015**, 448, 262-272	4.4	37

236	Nutrigenomic profiling of transcriptional processes affected in liver and distal intestine in response to a soybean meal-induced nutritional stress in Atlantic salmon (Salmo salar). *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics*, **2015**, 15, 1-11	2	43
235	Roles of selenoprotein antioxidant protection in zebrafish, Danio rerio, subjected to dietary oxidative stress. *Fish Physiology and Biochemistry*, **2015**, 41, 705-20	2.7	16
234	Atlantic salmon (Salmo salar) parr as a model to predict the optimum inclusion of air classified faba bean protein concentrate in feeds for seawater salmon. *Aquaculture*, **2015**, 444, 70-78	4.4	22
233	Lipids and Fatty Acids **2015**, 47-94		34
232	Evaluation of a high-EPA oil from transgenic in feeds for Atlantic salmon (L.): Effects on tissue fatty acid composition, histology and gene expression. *Aquaculture*, **2015**, 444, 1-12	4.4	106
231	Replacement of dietary soy- with air classified faba bean protein concentrate alters the hepatic transcriptome in Atlantic salmon (Salmo salar) parr. *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics*, **2015**, 16, 48-58	2	13
230	Dietary Linseed Oil Reduces Growth While Differentially Impacting LC-PUFA Synthesis and Accretion into Tissues in Eurasian Perch (Perca fluviatilis). *Lipids*, **2015**, 50, 1219-32	1.6	18
229	Molecular mechanism of dietary phospholipid requirement of Atlantic salmon, Salmo salar, fry. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2015**, 1851, 1428-41	5	19
228	Characteristics of LC-PUFA biosynthesis in marine herbivorous teleost Siganus canaliculatus under different ambient salinities. *Aquaculture Nutrition*, **2015**, 21, 541-551	3.2	43
227	Docosahexaenoic acid in Arctic charr (Salvelinus alpinus): the importance of dietary supply and physiological response during the entire growth period. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2015**, 181, 7-14	2.3	7
226	Dietary fatty acids affect mitochondrial phospholipid compositions and mitochondrial gene expression of rainbow trout liver at different ages. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2015**, 185, 73-86	2.2	3
225	Influence of broodstock diet on somatic growth, fecundity, gonad carotenoids and larval survival of sea urchin. *Aquaculture Research*, **2015**, 46, 969-976	1.9	21
224	A comparative analysis of the response of the hepatic transcriptome to dietary docosahexaenoic acid in Atlantic salmon (Salmo salar) post-smolts. *BMC Genomics*, **2015**, 16, 684	4.5	28
223	Influence of Development and Dietary Phospholipid Content and Composition on Intestinal Transcriptome of Atlantic Salmon (Salmo salar). *PLoS ONE*, **2015**, 10, e0140964	3.7	25
222	A nutritionally-enhanced oil from transgenic Camelina sativa effectively replaces fish oil as a source of eicosapentaenoic acid for fish. *Scientific Reports*, **2015**, 5, 8104	4.9	106
221	Docosahexaenoic acid biosynthesis via fatty acyl elongase and Δ4-desaturase and its modulation by dietary lipid level and fatty acid composition in a marine vertebrate. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2015**, 1851, 588-97	5	34
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