Samuel A M Martin

List of Publications by Year
in descending order

108 papers	6,165 citations	57758 44 h-index	79698 73 g-index
127 all docs	127 docs citations	127 times ranked	5586 citing authors

#	Article	IF	Citations
1	Protein growth performance, amino acid utilisation and somatotropic axis responsiveness to fish meal replacement by plant protein sources in gilthead sea bream (Sparus aurata). Aquaculture, 2004, 232, 493-510.	3.5	369
2	Environmental and physiological factors shape the gut microbiota of Atlantic salmon parr (Salmo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.5	354
3	Harnessing genomics to fast-track genetic improvement in aquaculture. Nature Reviews Genetics, 2020, 21, 389-409.	16.3	286
4	Nutrigenomics and immune function in fish: new insights from omics technologies. Developmental and Comparative Immunology, 2017, 75, 86-98.	2.3	214
5	Nasal immunity is an ancient arm of the mucosal immune system of vertebrates. Nature Communications, 2014, 5, 5205.	12.8	178
6	Functional Characterization of a Nonmammalian IL-21: Rainbow Trout <i>Oncorhynchus mykiss</i> IL-21 Upregulates the Expression of the Th Cell Signature Cytokines IFN-Î^3, IL-10, and IL-22. Journal of Immunology, 2011, 186, 708-721.	0.8	163
7	Proteomic sensitivity to dietary manipulations in rainbow trout. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1651, 17-29.	2.3	149
8	Effects of dietary amino acid profile on growth performance, key metabolic enzymes and somatotropic axis responsiveness of gilthead sea bream (Sparus aurata). Aquaculture, 2003, 220, 749-767.	3.5	142
9	Dietary plant-protein substitution affects hepatic metabolism in rainbow trout (Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.3	136
10	Transcriptomic responses in the fish intestine. Developmental and Comparative Immunology, 2016, 64, 103-117.	2.3	136
11	Lineage-specific rediploidization is a mechanism to explain time-lags between genome duplication and evolutionary diversification. Genome Biology, 2017, 18, 111.	8.8	136
12	Disrupted seasonal biology impacts health, food security and ecosystems. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151453.	2.6	130
13	Starvation alters the liver transcriptome of the innate immune response in Atlantic salmon (Salmo) Tj ETQq1 1 0.784314 rgBT /Overlock	2.8	121
14	Seawater transfer alters the intestinal microbiota profiles of Atlantic salmon (Salmo salar L.). Scientific Reports, 2017, 7, 13877.	3.3	121
15	Transcriptome response following administration of a live bacterial vaccine in Atlantic salmon (Salmo salar). Molecular Immunology, 2006, 43, 1900-1911.	2.2	114
16	Functional Annotation of All Salmonid Genomes (FAASG): an international initiative supporting future salmonid research, conservation and aquaculture. BMC Genomics, 2017, 18, 484.	2.8	99
17	Differential responses of the gut transcriptome to plant protein diets in farmed Atlantic salmon. BMC Genomics, 2016, 17, 156.	2.8	98
18	Transcriptomic responses to functional feeds in Atlantic salmon (Salmo salar). Fish and Shellfish Immunology, 2011, 31, 704-715.	3.6	93

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19	Transcriptomic and physiological responses to fishmeal substitution with plant proteins in formulated feed in farmed Atlantic salmon (Salmo salar). BMC Genomics, 2012, 13, 363.	2.8	89
20	Directional responses following recombinant cytokine stimulation of rainbow trout (Oncorhynchus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.8	88
21	Multiple tissue transcriptomic responses to<i>Piscirickettsia salmonis</i>in Atlantic salmon (<i>Salmo salar</i>). Physiological Genomics, 2011, 43, 1241-1254.	2.3	88
22	Cortisol modulates the induction of inflammatory gene expression in a rainbow trout macrophage cell line. Fish and Shellfish Immunology, 2011, 30, 215-223.	3.6	85
23	Title is missing!. Fish Physiology and Biochemistry, 2001, 24, 259-270.	2.3	77
24	Identification and characterisation of TLR18-21 genes in Atlantic salmon (Salmo salar). Fish and Shellfish Immunology, 2014, 41, 549-559.	3.6	77
25	Ubiquitin-proteasome-dependent proteolysis in rainbow trout (Oncorhynchus mykiss): effect of food deprivation. Pflugers Archiv European Journal of Physiology, 2002, 445, 257-266.	2.8	75
26	Two interleukin-17C-like genes exist in rainbow trout Oncorhynchus mykiss that are differentially expressed and modulated. Developmental and Comparative Immunology, 2010, 34, 491-500.	2.3	73
27	Two copies of the genes encoding the subunits of putative interleukin (IL)-4/IL-13 receptors, IL-4RÎ±, IL-13RÎ±1 and IL-13RÎ±2, have been identified in rainbow trout (Oncorhynchus mykiss) and have complex patterns of expression and modulation. Immunogenetics, 2011, 63, 235-253.	2.4	73
28	Cloning and characterization of the Rainbow trout (Oncorhynchus mykiss) type II interleukin-1 receptor cDNA. FEBS Journal, 2000, 267, 7031-7037.	0.2	70
29	Exploring the Transcriptome of Atlantic Salmon (Salmo salar) Skin, a Major Defense Organ. Marine Biotechnology, 2012, 14, 559-569.	2.4	69
30	Genetic improvement of feed conversion ratio via indirect selection against lipid deposition in farmed rainbow trout (<i>Oncorhynchus mykiss</i>Walbaum). British Journal of Nutrition, 2016, 116, 1656-1665.	2.3	68
31	High-throughput proteomic profiling of the fish liver following bacterial infection. BMC Genomics, 2018, 19, 719.	2.8	68
32	Proteome analysis of the Atlantic salmon (Salmo salar) cell line SHK-1 following recombinant IFN-Î³ stimulation. Proteomics, 2007, 7, 2275-2286.	2.2	67
33	Contrasting effects of acute and chronic stress on the transcriptome, epigenome, and immune response of Atlantic salmon. Epigenetics, 2018, 13, 1191-1207.	2.7	67
34	Impact of selenium supplementation on fish antiviral responses: a whole transcriptomic analysis in rainbow trout (Oncorhynchus mykiss) fed supranutritional levels of Sel-PlexÂ®. BMC Genomics, 2016, 17, 116.	2.8	65
35	The structural variation landscape in 492 Atlantic salmon genomes. Nature Communications, 2020, 11, 5176.	12.8	60
36	Fat or lean? The quantitative genetic basis for selection strategies of muscle and body composition traits in breeding schemes of rainbow trout (Oncorhynchus mykiss). Aquaculture, 2006, 261, 510-521.	3.5	59

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37	Transcriptional Responses of Resistant and Susceptible Fish Clones to the Bacterial Pathogen Flavobacterium psychrophilum. PLoS ONE, 2012, 7, e39126.	2.5	57
38	Selenium Supplementation in Fish: A Combined Chemical and Biomolecular Study to Understand Sel-Plex Assimilation and Impact on Selenoproteome Expression in Rainbow Trout (Oncorhynchus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.5	55
39	Disparate developmental patterns of immune responses to bacterial and viral infections in fish. Scientific Reports, 2015, 5, 15458.	3.3	53
40	Characterization of cytosolic glutathione peroxidase and phospholipid-hydroperoxide glutathione peroxidase genes in rainbow trout (Oncorhynchus mykiss) and their modulation by in vitro selenium exposure. Aquatic Toxicology, 2013, 130-131, 97-111.	4.0	52
41	Viral Resistance and IFN Signaling in STAT2 Knockout Fish Cells. Journal of Immunology, 2019, 203, 465-475.	0.8	52
42	Protein growth rate in rainbow trout (Oncorhynchus mykiss) is negatively correlated to liver 20S proteasome activity. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2004, 137, 75-85.	1.8	49
43	Insights into the fish thioredoxin system: Expression profile of thioredoxin and thioredoxin reductase in rainbow trout (Oncorhynchus mykiss) during infection and in vitro stimulation. Developmental and Comparative Immunology, 2014, 42, 261-277.	2.3	49
44	Development of an Efficient Genome Editing Method by CRISPR/Cas9 in a Fish Cell Line. Marine Biotechnology, 2016, 18, 449-452.	2.4	49
45	Identification of two FoxP3 genes in rainbow trout (Oncorhynchus mykiss) with differential induction patterns. Molecular Immunology, 2010, 47, 2563-2574.	2.2	48
46	Identification and characterization of TLR7, TLR8a2, TLR8b1 and TLR8b2 genes in Atlantic salmon (Salmo) Tj ETQq0 0 0 rgBT /Overlock 1	2.3	48
47	Functional Divergence of Type 2 Deiodinase Paralogs in the Atlantic Salmon. Current Biology, 2015, 25, 936-941.	3.9	48
48	Characterisation of Î³-interferon responsive promoters in fish. Molecular Immunology, 2008, 45, 3454-3462.	2.2	45
49	Inflammatory responses in primary muscle cell cultures in Atlantic salmon (Salmo salar). BMC Genomics, 2013, 14, 747.	2.8	43
50	Transforming growth factor-Î²1b: A second TGF-Î²1 paralogue in the rainbow trout (Oncorhynchus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 and Shellfish Immunology, 2013, 34, 420-432.	3.6	43
51	Extensive Local Gene Duplication and Functional Divergence among Paralogs in Atlantic Salmon. Genome Biology and Evolution, 2014, 6, 1790-1805.	2.5	43
52	The compositional and metabolic responses of gilthead seabream (<i>Sparus aurata</i>) to a gradient of dietary fish oil and associated<i>n</i>-3 long-chain PUFA content. British Journal of Nutrition, 2017, 118, 1010-1022.	2.3	43
53	Dietary Yeast Cell Wall Extract Alters the Proteome of the Skin Mucous Barrier in Atlantic Salmon (Salmo salar): Increased Abundance and Expression of a Calreticulin-Like Protein. PLoS ONE, 2017, 12, e0169075.	2.5	41
54	Negative correlation between milk production and brown adipose tissue gene expression in lactating mice. Journal of Experimental Biology, 2011, 214, 4160-4170.	1.7	40

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55	Cross Talk Between Growth and Immunity: Coupling of the IGF Axis to Conserved Cytokine Pathways in Rainbow Trout. Endocrinology, 2016, 157, 1942-1955.	2.8	40
56	Efficient CRISPR/Cas9 genome editing in a salmonid fish cell line using a lentivirus delivery system. BMC Biotechnology, 2020, 20, 35.	3.3	39
57	Phylogeny and expression analysis of C-reactive protein (CRP) and serum amyloid-P (SAP) like genes reveal two distinct groups in fish. Fish and Shellfish Immunology, 2017, 65, 42-51.	3.6	32
58	Ubiquitin E3 ligase atrogin-1 (Fbox-32) in Atlantic salmon (Salmo salar): Sequence analysis, genomic structure and modulation of expression. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2010, 157, 364-373.	1.6	31
59	Proteomic comparison of selective breeding and growth hormone transgenesis in fish: Unique pathways to enhanced growth. Journal of Proteomics, 2019, 192, 114-124.	2.4	31
60	Proteomic Profiling of Liver from Atlantic Salmon (Salmo salar) Fed Genetically Modified Soy Compared to the Near-Isogenic non-GM Line. Marine Biotechnology, 2010, 12, 273-281.	2.4	30
61	The construction of spliced leader cDNA libraries from the filarial nematode Brugia pahangi. Molecular and Biochemical Parasitology, 1995, 70, 241-245.	1.1	27
62	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.	3.5	27
63	Rainbow trout (Oncorhynchus mykiss) possess multiple novel immunoglobulin-like transcripts containing either an ITAM or ITIMs. Developmental and Comparative Immunology, 2009, 33, 525-532.	2.3	26
64	Identification and characterisation of the IL-27 p28 subunits in fish: Cloning and comparative expression analysis of two p28 paralogues in Atlantic salmon Salmo salar. Fish and Shellfish Immunology, 2014, 41, 102-112.	3.6	26
65	Growth hormone transgenesis in coho salmon disrupts muscle immune function impacting cross-talk with growth systems. Journal of Experimental Biology, 2018, 221, .	1.7	24
66	Genome-Wide Reconstruction of Rediploidization Following Autopolyploidization across One Hundred Million Years of Salmonid Evolution. Molecular Biology and Evolution, 2022, 39, .	8.9	24
67	Genetic potential for simultaneous selection of growth and body composition in rainbow trout (Oncorhynchus mykiss) depends on the dietary protein and lipid content: Phenotypic and genetic correlations on two diets. Aquaculture, 2007, 271, 162-172.	3.5	23
68	Divergent regulation of insulin-like growth factor binding protein genes in cultured Atlantic salmon myotubes under different models of catabolism and anabolism. General and Comparative Endocrinology, 2017, 247, 53-65.	1.8	23
69	Dietary methylmercury alters the proteome in Atlantic salmon (Salmo salar) kidney. Aquatic Toxicology, 2012, 108, 70-77.	4.0	22
70	Core vs. diet -associated and postprandial bacterial communities of the rainbow trout (<i>Oncorhynchus mykiss</i>) midgut and feaces. Biology Open, 2018, 7, .	1.2	21
71	Brugia pahangi: Characterisation of a Small Heat Shock Protein cDNA Clone. Experimental Parasitology, 1996, 83, 259-266.	1.2	20
72	Rainbow trout (Oncorhynchus mykiss) urea cycle and polyamine synthesis gene families show dynamic expression responses to inflammation. Fish and Shellfish Immunology, 2019, 89, 290-300.	3.6	20

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73	A Temporally Dynamic Gut Microbiome in Atlantic Salmon During Freshwater Recirculating Aquaculture System (RAS) Production and Post-seawater Transfer. Frontiers in Marine Science, 2021, 8, .	2.5	20
74	Muscle-Specific RING Finger (MuRF) cDNAs in Atlantic Salmon (Salmo salar) and Their Role as Regulators of Muscle Protein Degradation. Marine Biotechnology, 2012, 14, 35-45.	2.4	19
75	Immunologic Profiling of the Atlantic Salmon Gill by Single Nuclei Transcriptomics. Frontiers in Immunology, 2021, 12, 669889.	4.8	18
76	Supplementation of arginine, ornithine and citrulline in rainbow trout (Oncorhynchus mykiss): Effects on growth, amino acid levels in plasma and gene expression responses in liver tissue. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2020, 241, 110632.	1.8	17
77	Impacts of jellyfish on marine cage aquaculture: an overview of existing knowledge and the challenges to finfish health. ICES Journal of Marine Science, 2021, 78, 1557-1573.	2.5	17
78	Antiviral and metabolic gene expression responses to viral infection in Atlantic salmon (Salmo salar). Fish and Shellfish Immunology, 2015, 42, 297-305.	3.6	16
79	The complete salmonid IGF-IR gene repertoire and its transcriptional response to disease. Scientific Reports, 2016, 6, 34806.	3.3	16
80	Integration of Transcriptome, Gross Morphology and Histopathology in the Gill of Sea Farmed Atlantic Salmon (Salmo salar): Lessons From Multi-Site Sampling. Frontiers in Genetics, 2020, 11, 610.	2.3	16
81	Stage specific gene expression in the post-infective L3 of the filarial nematode, Brugia pahangi. Molecular and Biochemical Parasitology, 1996, 79, 109-112.	1.1	15
82	Establishment of an IFN-Î³ specific reporter cell line in fish. Fish and Shellfish Immunology, 2010, 28, 312-319.	3.6	15
83	Sampling the fish gill microbiome: a comparison of tissue biopsies and swabs. BMC Microbiology, 2021, 21, 313.	3.3	15
84	Influence of dietary inclusion of a wet processed faba bean protein isolate on post-smolt Atlantic salmon (Salmo salar). Aquaculture, 2016, 465, 124-133.	3.5	14
85	Proteomics in Fish and Aquaculture Research. , 2018, , 311-338.		14
86	Interactive effects of dietary lipid and nutritional emulsifier supplementation on growth, chemical composition, immune response and lipid metabolism of juvenile Nile tilapia (Oreochromis niloticus). Aquaculture, 2022, 546, 737341.	3.5	14
87	Cloning and sequence analysis of rainbow trout LMP 2 cDNA and differential expression of the mRNA. Fish and Shellfish Immunology, 1999, 9, 621-632.	3.6	13
88	Tenebrio molitor larvae meal inclusion affects hepatic proteome and apoptosis and/or autophagy of three farmed fish species. Scientific Reports, 2022, 12, 121.	3.3	13
89	A cytidine deaminase expressed in the post-infective L3 stage of the filarial nematode, Brugia pahangi, has a novel RNA-binding activity. Molecular and Biochemical Parasitology, 1997, 88, 105-114.	1.1	12
90	Regulatory factors controlling muscle mass: Competition between innate immune function and anabolic signals in regulation of atrogin-1 in Atlantic salmon. Molecular Immunology, 2015, 67, 341-349.	2.2	12

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91	The AMPK system of salmonid fishes was expanded through genome duplication and is regulated by growth and immune status in muscle. Scientific Reports, 2019, 9, 9819.	3.3	12
92	Arginine, ornithine and citrulline supplementation in rainbow trout: Free amino acid dynamics and gene expression responses to bacterial infection. Fish and Shellfish Immunology, 2020, 98, 374-390.	3.6	12
93	Cloning and Characterisation of Multiple Ferritin Isoforms in the Atlantic Salmon (Salmo salar). PLoS ONE, 2014, 9, e103729.	2.5	12
94	Genomic organisation analysis of novel immunoglobulin-like transcripts in Atlantic salmon (Salmo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.8	11
95	Interactions between Paramoeba perurans, the causative agent of amoebic gill disease, and the blue mussel, Mytilus edulis. Aquaculture, 2016, 456, 1-8.	3.5	11
96	NFAT5 genes are part of the osmotic regulatory system in Atlantic salmon (Salmo salar). Marine Genomics, 2017, 31, 25-31.	1.1	11
97	The vertebrate muscleâ€specific RING finger protein family includes MuRF4 â€" A novel, conserved E3â€ubiquitin ligase. FEBS Letters, 2014, 588, 4390-4397.	2.8	10
98	Temporal changes in skin and gill microbiomes of Atlantic salmon in a recirculating aquaculture system â€" Why do they matter?. Aquaculture, 2022, 558, 738352.	3.5	10
99	Functional characterisation of a TLR accessory protein, UNC93B1, in Atlantic salmon (Salmo salar). Developmental and Comparative Immunology, 2015, 50, 38-48.	2.3	9
100	Postprandial hepatic protein expression in trout Oncorhynchus mykiss a proteomics examination. Biochemistry and Biophysics Reports, 2017, 9, 79-85.	1.3	9
101	Marine nâ^'3 fatty acids alter the proteomic response to methylmercury in Atlantic salmon kidney (ASK) cells. Aquatic Toxicology, 2012, 106-107, 65-75.	4.0	8
102	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.	3.5	8
103	Four selenoprotein P genes exist in salmonids: Analysis of their origin and expression following Se supplementation and bacterial infection. PLoS ONE, 2018, 13, e0209381.	2.5	6
104	Cloning and expression analysis of the Mitochondrial Ubiquitin Ligase Activator of NF-Î°B (MULAN) in Atlantic salmon (Salmo salar). Molecular Immunology, 2011, 49, 558-565.	2.2	5
105	MULAN related gene (MRG): A potential novel ubiquitin ligase activator of NF-kB involved in immune response in Atlantic salmon (Salmo salar). Developmental and Comparative Immunology, 2012, 38, 545-553.	2.3	4
106	Photoperiod-dependent developmental reprogramming of the transcriptional response to seawater entry in Atlantic salmon (<i>Salmo salar</i>). G3: Genes, Genomes, Genetics, 2021, 11, .	1.8	2
107	Gill Transcriptomic Responses to Toxin-producing Alga Prymnesium parvum in Rainbow Trout. Frontiers in Immunology, 2021, 12, 794593.	4.8	2
108	Disparate developmental patterns of immune responses to bacterial and viral infections in fish. Fish and Shellfish Immunology, 2016, 53, 92.	3.6	1