Samuel A M Martin

List of Publications by Year
in descending order

107 papers	6,043 citations	48877 44 h-index	70839 72 g-index
128 all docs	128 docs citations	128 times ranked	4880 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	375
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	374
3	Harnessing genomics to fast-track genetic improvement in aquaculture. Nature Reviews Genetics, 2020, 21, 389-409.	16.7	317
4	Nutrigenomics and immune function in fish: new insights from omics technologies. Developmental and Comparative Immunology, 2017, 75, 86-98.	2.3	226
5	Nasal immunity is an ancient arm of the mucosal immune system of vertebrates. Nature Communications, 2014, 5, 5205.	13.2	183
6	Functional Characterization of a Nonmammalian IL-21: Rainbow Trout Oncorhynchus mykiss IL-21 Upregulates the Expression of the Th Cell Signature Cytokines IFN-Î³, 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	150
8	Lineage-specific rediploidization is a mechanism to explain time-lags between genome duplication and evolutionary diversification. Genome Biology, 2017, 18, 111.	9.1	145
9	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	144
10	Transcriptomic responses in the fish intestine. Developmental and Comparative Immunology, 2016, 64, 103-117.	2.3	142
11	Dietary plant-protein substitution affects hepatic metabolism in rainbow trout (Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.4	139
12	Starvation alters the liver transcriptome of the innate immune response in Atlantic salmon (Salmo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.9	128
13	Seawater transfer alters the intestinal microbiota profiles of Atlantic salmon (Salmo salar L.). Scientific Reports, 2017, 7, 13877.	3.5	123
14	Differential responses of the gut transcriptome to plant protein diets in farmed Atlantic salmon. BMC Genomics, 2016, 17, 156.	2.9	103
15	Functional Annotation of All Salmonid Genomes (FAASG): an international initiative supporting future salmonid research, conservation and aquaculture. BMC Genomics, 2017, 18, 484.	2.9	100
16	Transcriptomic responses to functional feeds in Atlantic salmon (Salmo salar). Fish and Shellfish Immunology, 2011, 31, 704-715.	3.7	96
17	Multiple tissue transcriptomic responses toPiscirickettsia salmonisin Atlantic salmon (Salmo salar). Physiological Genomics, 2011, 43, 1241-1254.	2.2	90
18	Transcriptomic and physiological responses to fishmeal substitution with plant proteins in formulated feed in farmed Atlantic salmon (Salmo salar). BMC Genomics, 2012, 13, 363.	2.9	90

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19	Directional responses following recombinant cytokine stimulation of rainbow trout (Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Overlo	2.9	88
20	Cortisol modulates the induction of inflammatory gene expression in a rainbow trout macrophage cell line. Fish and Shellfish Immunology, 2011, 30, 215-223.	3.7	87
21	Identification and characterisation of TLR18-21 genes in Atlantic salmon (Salmo salar). Fish and Shellfish Immunology, 2014, 41, 549-559.	3.7	80
22	Title is missing!. Fish Physiology and Biochemistry, 2001, 24, 259-270.	2.3	78
23	Contrasting effects of acute and chronic stress on the transcriptome, epigenome, and immune response of Atlantic salmon. Epigenetics, 2018, 13, 1191-1207.	2.9	75
24	High-throughput proteomic profiling of the fish liver following bacterial infection. BMC Genomics, 2018, 19, 719.	2.9	75
25	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
26	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.	2.5	73
27	Cloning and characterization of the Rainbow trout (Oncorhynchus mykiss) type II interleukin-1 receptor cDNA. FEBS Journal, 2000, 267, 7031-7037.	1.0	72
28	Genetic improvement of feed conversion ratio via indirect selection against lipid deposition in farmed rainbow trout (Oncorhynchus mykissWalbaum). British Journal of Nutrition, 2016, 116, 1656-1665.	2.4	72
29	The structural variation landscape in 492 Atlantic salmon genomes. Nature Communications, 2020, 11, 5176.	13.2	71
30	Exploring the Transcriptome of Atlantic Salmon (Salmo salar) Skin, a Major Defense Organ. Marine Biotechnology, 2012, 14, 559-569.	2.3	70
31	Proteome analysis of the Atlantic salmon (Salmo salar) cell line SHK-1 following recombinant IFN-Î³ stimulation. Proteomics, 2007, 7, 2275-2286.	2.7	68
32	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	60
33	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 ETQq1 1 0.784314 rgBT /Overlo	4.1	60
34	Transcriptional Responses of Resistant and Susceptible Fish Clones to the Bacterial Pathogen Flavobacterium psychrophilum. PLoS ONE, 2012, 7, e39126.	2.4	59
35	Disparate developmental patterns of immune responses to bacterial and viral infections in fish. Scientific Reports, 2015, 5, 15458.	3.5	55
36	Viral Resistance and IFN Signaling in STAT2 Knockout Fish Cells. Journal of Immunology, 2019, 203, 465-475.	0.8	55

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37	Development of an Efficient Genome Editing Method by CRISPR/Cas9 in a Fish Cell Line. Marine Biotechnology, 2016, 18, 449-452.	2.3	54
38	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	53
39	Identification and characterization of TLR7, TLR8a2, TLR8b1 and TLR8b2 genes in Atlantic salmon (Salmo) Tj ETQq1 1 0.784314 rgBT	2.3	51
40	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
41	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
42	Functional Divergence of Type 2 Deiodinase Paralogs in the Atlantic Salmon. Current Biology, 2015, 25, 936-941.	4.0	49
43	Identification of two FoxP3 genes in rainbow trout (Oncorhynchus mykiss) with differential induction patterns. Molecular Immunology, 2010, 47, 2563-2574.	2.4	48
44	The compositional and metabolic responses of gilthead seabream (Sparus aurata) to a gradient of dietary fish oil and associatedn-3 long-chain PUFA content. British Journal of Nutrition, 2017, 118, 1010-1022.	2.4	46
45	Characterisation of Î³-interferon responsive promoters in fish. Molecular Immunology, 2008, 45, 3454-3462.	2.4	45
46	Inflammatory responses in primary muscle cell cultures in Atlantic salmon (Salmo salar). BMC Genomics, 2013, 14, 747.	2.9	44
47	Transforming growth factor-Î²1b: A second TGF-Î²1 paralogue in the rainbow trout (Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Overlock and Shellfish Immunology, 2013, 34, 420-432.	3.7	44
48	Efficient CRISPR/Cas9 genome editing in a salmonid fish cell line using a lentivirus delivery system. BMC Biotechnology, 2020, 20, 35.	3.4	44
49	Extensive Local Gene Duplication and Functional Divergence among Paralogs in Atlantic Salmon. Genome Biology and Evolution, 2014, 6, 1790-1805.	2.6	43
50	Cross Talk Between Growth and Immunity: Coupling of the IGF Axis to Conserved Cytokine Pathways in Rainbow Trout. Endocrinology, 2016, 157, 1942-1955.	2.9	42
51	Negative correlation between milk production and brown adipose tissue gene expression in lactating mice. Journal of Experimental Biology, 2011, 214, 4160-4170.	1.7	41
52	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.	2.4	41
53	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.	3.7	33
54	Proteomic comparison of selective breeding and growth hormone transgenesis in fish: Unique pathways to enhanced growth. Journal of Proteomics, 2019, 192, 114-124.	2.5	33

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55	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.	1.7	31
56	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.	2.3	30
57	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	30
58	Genome-Wide Reconstruction of Rediploidization Following Autopolyploidization across One Hundred Million Years of Salmonid Evolution. Molecular Biology and Evolution, 2022, 39, .	9.1	30
59	The construction of spliced leader cDNA libraries from the filarial nematode Brugia pahangi. Molecular and Biochemical Parasitology, 1995, 70, 241-245.	1.1	27
60	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
61	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.	3.7	26
62	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	25
63	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
64	Core vs. diet -associated and postprandial bacterial communities of the rainbow trout (Oncorhynchus mykiss) midgut and feaces. Biology Open, 2018, 7, .	1.2	24
65	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
66	Dietary methylmercury alters the proteome in Atlantic salmon (Salmo salar) kidney. Aquatic Toxicology, 2012, 108, 70-77.	4.0	23
67	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.	1.7	23
68	Immunologic Profiling of the Atlantic Salmon Gill by Single Nuclei Transcriptomics. Frontiers in Immunology, 2021, 12, 669889.	5.0	21
69	Brugia pahangi: Characterisation of a Small Heat Shock Protein cDNA Clone. Experimental Parasitology, 1996, 83, 259-266.	1.2	20
70	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.	3.7	20
71	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	20
72	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.	2.6	20

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73	Sampling the fish gill microbiome: a comparison of tissue biopsies and swabs. BMC Microbiology, 2021, 21, 313.	3.4	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.	2.3	19
75	The complete salmonid IGF-IR gene repertoire and its transcriptional response to disease. Scientific Reports, 2016, 6, 34806.	3.5	17
76	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	17
77	Antiviral and metabolic gene expression responses to viral infection in Atlantic salmon (Salmo salar). Fish and Shellfish Immunology, 2015, 42, 297-305.	3.7	16
78	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	16
79	Proteomics in Fish and Aquaculture Research. , 2018, , 311-338.		16
80	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
81	Establishment of an IFN-Î³ specific reporter cell line in fish. Fish and Shellfish Immunology, 2010, 28, 312-319.	3.7	15
82	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.	3.7	14
83	Tenebrio molitor larvae meal inclusion affects hepatic proteome and apoptosis and/or autophagy of three farmed fish species. Scientific Reports, 2022, 12, 121.	3.5	14
84	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	14
85	Cloning and sequence analysis of rainbow trout LMP 2 cDNA and differential expression of the mRNA. Fish and Shellfish Immunology, 1999, 9, 621-632.	3.7	13
86	NFAT5 genes are part of the osmotic regulatory system in Atlantic salmon (Salmo salar). Marine Genomics, 2017, 31, 25-31.	1.1	13
87	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.	3.5	13
88	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
89	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.	2.4	12
90	Cloning and Characterisation of Multiple Ferritin Isoforms in the Atlantic Salmon (Salmo salar). PLoS ONE, 2014, 9, e103729.	2.4	12

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91	Genomic organisation analysis of novel immunoglobulin-like transcripts in Atlantic salmon (Salmo) Tj ETQq1 1 0.784314 rgBT /Overlo	2.9	11
92	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
93	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
94	Functional characterisation of a TLR accessory protein, UNC93B1, in Atlantic salmon (Salmo salar). Developmental and Comparative Immunology, 2015, 50, 38-48.	2.3	9
95	Postprandial hepatic protein expression in trout Oncorhynchus mykiss a proteomics examination. Biochemistry and Biophysics Reports, 2017, 9, 79-85.	1.4	9
96	Marine nâˆ’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
97	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
98	Cloning and expression analysis of the Mitochondrial Ubiquitin Ligase Activator of NF-ÎºB (MULAN) in Atlantic salmon (Salmo salar). Molecular Immunology, 2011, 49, 558-565.	2.4	5
99	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
100	Catch of the Day: New Serum Amyloid A (SAA) Antibody Is a Valuable Tool to Study Fish Health in Salmonids. Cells, 2023, 12, 2097.	4.3	4
101	Mapping the cellular landscape of Atlantic salmon head kidney by single cell and single nucleus transcriptomics. Fish and Shellfish Immunology, 2024, 146, 109357.	3.7	4
102	Proteomics in Aquaculture. , 2009, , 147-173.		3
103	Photoperiod-dependent developmental reprogramming of the transcriptional response to seawater entry in Atlantic salmon (Salmo salar). G3: Genes, Genomes, Genetics, 2021, 11, .	1.9	2
104	Application of Proteomics to Fish Processing and Quality. , 2012, , 406-424.		1
105	Fur removal promotes an earlier expression of involution-related genes in mammary gland of lactating mice. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2023, 193, 171-192.	1.5	1
106	Impact of freshwater rearing history on Atlantic salmon gill response to viral stimulation post seawater transfer. Fish and Shellfish Immunology, 2024, 150, 109653.	3.7	0
107	Dynamics of Gill Responses to a Natural Infection with Neoparamoeba perurans in Farmed Tasmanian Atlantic Salmon. Animals, 2024, 14, 2356.	2.4	0