

Samuel A M Martin

List of Publications by Year in descending order

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108
papers

6,165
citations

57631

44
h-index

79541

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 (<i>Sparus aurata</i>). <i>Aquaculture</i> , 2004, 232, 493-510.	1.7	369
2	Environmental and physiological factors shape the gut microbiota of Atlantic salmon parr (<i>Salmo</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.7	354
3	Harnessing genomics to fast-track genetic improvement in aquaculture. <i>Nature Reviews Genetics</i> , 2020, 21, 389-409.	7.7	286
4	Nutrigenomics and immune function in fish: new insights from omics technologies. <i>Developmental and Comparative Immunology</i> , 2017, 75, 86-98.	1.0	214
5	Nasal immunity is an ancient arm of the mucosal immune system of vertebrates. <i>Nature Communications</i> , 2014, 5, 5205.	5.8	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- γ , IL-10, and IL-22. <i>Journal of Immunology</i> , 2011, 186, 708-721.	0.4	163
7	Proteomic sensitivity to dietary manipulations in rainbow trout. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003, 1651, 17-29.	1.1	149
8	Effects of dietary amino acid profile on growth performance, key metabolic enzymes and somatotropic axis responsiveness of gilthead sea bream (<i>Sparus aurata</i>). <i>Aquaculture</i> , 2003, 220, 749-767.	1.7	142
9	Dietary plant-protein substitution affects hepatic metabolism in rainbow trout (<i>Oncorhynchus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.2	136
10	Transcriptomic responses in the fish intestine. <i>Developmental and Comparative Immunology</i> , 2016, 64, 103-117.	1.0	136
11	Lineage-specific rediploidization is a mechanism to explain time-lags between genome duplication and evolutionary diversification. <i>Genome Biology</i> , 2017, 18, 111.	3.8	136
12	Disrupted seasonal biology impacts health, food security and ecosystems. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151453.	1.2	130
13	Starvation alters the liver transcriptome of the innate immune response in Atlantic salmon (<i>Salmo</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.2	121
14	Seawater transfer alters the intestinal microbiota profiles of Atlantic salmon (<i>Salmo salar</i> L.). <i>Scientific Reports</i> , 2017, 7, 13877.	1.6	121
15	Transcriptome response following administration of a live bacterial vaccine in Atlantic salmon (<i>Salmo salar</i>). <i>Molecular Immunology</i> , 2006, 43, 1900-1911.	1.0	114
16	Functional Annotation of All Salmonid Genomes (FAASG): an international initiative supporting future salmonid research, conservation and aquaculture. <i>BMC Genomics</i> , 2017, 18, 484.	1.2	99
17	Differential responses of the gut transcriptome to plant protein diets in farmed Atlantic salmon. <i>BMC Genomics</i> , 2016, 17, 156.	1.2	98
18	Transcriptomic responses to functional feeds in Atlantic salmon (<i>Salmo salar</i>). <i>Fish and Shellfish Immunology</i> , 2011, 31, 704-715.	1.6	93

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19	Transcriptomic and physiological responses to fishmeal substitution with plant proteins in formulated feed in farmed Atlantic salmon (<i>Salmo salar</i>). <i>BMC Genomics</i> , 2012, 13, 363.	1.2	89
20	Directional responses following recombinant cytokine stimulation of rainbow trout (<i>Oncorhynchus mykiss</i>) T cell lines. <i>Overlook</i> 10 Tf 5	1.2	88
21	Multiple tissue transcriptomic responses to <i>Piscirickettsia salmonis</i> in Atlantic salmon (<i>Salmo salar</i>). <i>Physiological Genomics</i> , 2011, 43, 1241-1254.	1.0	88
22	Cortisol modulates the induction of inflammatory gene expression in a rainbow trout macrophage cell line. <i>Fish and Shellfish Immunology</i> , 2011, 30, 215-223.	1.6	85
23	Title is missing!. <i>Fish Physiology and Biochemistry</i> , 2001, 24, 259-270.	0.9	77
24	Identification and characterisation of TLR18-21 genes in Atlantic salmon (<i>Salmo salar</i>). <i>Fish and Shellfish Immunology</i> , 2014, 41, 549-559.	1.6	77
25	Ubiquitin-proteasome-dependent proteolysis in rainbow trout (<i>Oncorhynchus mykiss</i>): effect of food deprivation. <i>Pflügers Archiv European Journal of Physiology</i> , 2002, 445, 257-266.	1.3	75
26	Two interleukin-17C-like genes exist in rainbow trout <i>Oncorhynchus mykiss</i> that are differentially expressed and modulated. <i>Developmental and Comparative Immunology</i> , 2010, 34, 491-500.	1.0	73
27	Two copies of the genes encoding the subunits of putative interleukin (IL)-4/IL-13 receptors, IL-4R α 1 and IL-13R α 2, have been identified in rainbow trout (<i>Oncorhynchus mykiss</i>) and have complex patterns of expression and modulation. <i>Immunogenetics</i> , 2011, 63, 235-253.	1.2	73
28	Cloning and characterization of the Rainbow trout (<i>Oncorhynchus mykiss</i>) type II interleukin-1 receptor cDNA. <i>FEBS Journal</i> , 2000, 267, 7031-7037.	0.2	70
29	Exploring the Transcriptome of Atlantic Salmon (<i>Salmo salar</i>) Skin, a Major Defense Organ. <i>Marine Biotechnology</i> , 2012, 14, 559-569.	1.1	69
30	Genetic improvement of feed conversion ratio via indirect selection against lipid deposition in farmed rainbow trout (<i>Oncorhynchus mykiss</i> Walbaum). <i>British Journal of Nutrition</i> , 2016, 116, 1656-1665.	1.2	68
31	High-throughput proteomic profiling of the fish liver following bacterial infection. <i>BMC Genomics</i> , 2018, 19, 719.	1.2	68
32	Proteome analysis of the Atlantic salmon (<i>Salmo salar</i>) cell line SHK-1 following recombinant IFN- β stimulation. <i>Proteomics</i> , 2007, 7, 2275-2286.	1.3	67
33	Contrasting effects of acute and chronic stress on the transcriptome, epigenome, and immune response of Atlantic salmon. <i>Epigenetics</i> , 2018, 13, 1191-1207.	1.3	67
34	Impact of selenium supplementation on fish antiviral responses: a whole transcriptomic analysis in rainbow trout (<i>Oncorhynchus mykiss</i>) fed supranutritional levels of Sel-Plex ® . <i>BMC Genomics</i> , 2016, 17, 116.	1.2	65
35	The structural variation landscape in 492 Atlantic salmon genomes. <i>Nature Communications</i> , 2020, 11, 5176.	5.8	60
36	Fat or lean? The quantitative genetic basis for selection strategies of muscle and body composition traits in breeding schemes of rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquaculture</i> , 2006, 261, 510-521.	1.7	59

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37	Transcriptional Responses of Resistant and Susceptible Fish Clones to the Bacterial Pathogen <i>Flavobacterium psychrophilum</i> . <i>PLoS ONE</i> , 2012, 7, e39126.	1.1	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 (<i>Oncorhynchus mykiss</i>). <i>Journal of Proteomics</i> , 2011, 14, 101-110.	1.1	50
39	Disparate developmental patterns of immune responses to bacterial and viral infections in fish. <i>Scientific Reports</i> , 2015, 5, 15458.	1.6	53
40	Characterization of cytosolic glutathione peroxidase and phospholipid-hydroperoxide glutathione peroxidase genes in rainbow trout (<i>Oncorhynchus mykiss</i>) and their modulation by in vitro selenium exposure. <i>Aquatic Toxicology</i> , 2013, 130-131, 97-111.	1.9	52
41	Viral Resistance and IFN Signaling in STAT2 Knockout Fish Cells. <i>Journal of Immunology</i> , 2019, 203, 465-475.	0.4	52
42	Protein growth rate in rainbow trout (<i>Oncorhynchus mykiss</i>) is negatively correlated to liver 20S proteasome activity. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2004, 137, 75-85.	0.8	49
43	Insights into the fish thioredoxin system: Expression profile of thioredoxin and thioredoxin reductase in rainbow trout (<i>Oncorhynchus mykiss</i>) during infection and in vitro stimulation. <i>Developmental and Comparative Immunology</i> , 2014, 42, 261-277.	1.0	49
44	Development of an Efficient Genome Editing Method by CRISPR/Cas9 in a Fish Cell Line. <i>Marine Biotechnology</i> , 2016, 18, 449-452.	1.1	49
45	Identification of two FoxP3 genes in rainbow trout (<i>Oncorhynchus mykiss</i>) with differential induction patterns. <i>Molecular Immunology</i> , 2010, 47, 2563-2574.	1.0	48
46	Identification and characterization of TLR7, TLR8a2, TLR8b1 and TLR8b2 genes in Atlantic salmon (<i>Salmo salar</i>). <i>Journal of Fish Diseases</i> , 2010, 33, 481-490.	1.0	48
47	Functional Divergence of Type 2 Deiodinase Paralogs in the Atlantic Salmon. <i>Current Biology</i> , 2015, 25, 936-941.	1.8	48
48	Characterisation of β -interferon responsive promoters in fish. <i>Molecular Immunology</i> , 2008, 45, 3454-3462.	1.0	45
49	Inflammatory responses in primary muscle cell cultures in Atlantic salmon (<i>Salmo salar</i>). <i>BMC Genomics</i> , 2013, 14, 747.	1.2	43
50	Transforming growth factor- β 1b: A second TGF- β 1 paralogue in the rainbow trout (<i>Oncorhynchus mykiss</i>) and Shellfish Immunology, 2013, 34, 420-432.	1.6	43
51	Extensive Local Gene Duplication and Functional Divergence among Paralogs in Atlantic Salmon. <i>Genome Biology and Evolution</i> , 2014, 6, 1790-1805.	1.1	43
52	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.	1.2	43
53	Dietary Yeast Cell Wall Extract Alters the Proteome of the Skin Mucous Barrier in Atlantic Salmon (<i>Salmo salar</i>): Increased Abundance and Expression of a Calreticulin-Like Protein. <i>PLoS ONE</i> , 2017, 12, e0169075.	1.1	41
54	Negative correlation between milk production and brown adipose tissue gene expression in lactating mice. <i>Journal of Experimental Biology</i> , 2011, 214, 4160-4170.	0.8	40

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55	Cross Talk Between Growth and Immunity: Coupling of the IGF Axis to Conserved Cytokine Pathways in Rainbow Trout. <i>Endocrinology</i> , 2016, 157, 1942-1955.	1.4	40
56	Efficient CRISPR/Cas9 genome editing in a salmonid fish cell line using a lentivirus delivery system. <i>BMC Biotechnology</i> , 2020, 20, 35.	1.7	39
57	Phylogeny and expression analysis of C-reactive protein (CRP) and serum amyloid-P (SAP) like genes reveal two distinct groups in fish. <i>Fish and Shellfish Immunology</i> , 2017, 65, 42-51.	1.6	32
58	Ubiquitin E3 ligase atrogin-1 (Fbox-32) in Atlantic salmon (<i>Salmo salar</i>): Sequence analysis, genomic structure and modulation of expression. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2010, 157, 364-373.	0.7	31
59	Proteomic comparison of selective breeding and growth hormone transgenesis in fish: Unique pathways to enhanced growth. <i>Journal of Proteomics</i> , 2019, 192, 114-124.	1.2	31
60	Proteomic Profiling of Liver from Atlantic Salmon (<i>Salmo salar</i>) Fed Genetically Modified Soy Compared to the Near-Isogenic non-GM Line. <i>Marine Biotechnology</i> , 2010, 12, 273-281.	1.1	30
61	The construction of spliced leader cDNA libraries from the filarial nematode <i>Brugia pahangi</i> . <i>Molecular and Biochemical Parasitology</i> , 1995, 70, 241-245.	0.5	27
62	Atlantic salmon (<i>Salmo salar</i>) parr as a model to predict the optimum inclusion of air classified faba bean protein concentrate in feeds for seawater salmon. <i>Aquaculture</i> , 2015, 444, 70-78.	1.7	27
63	Rainbow trout (<i>Oncorhynchus mykiss</i>) possess multiple novel immunoglobulin-like transcripts containing either an ITAM or ITIMs. <i>Developmental and Comparative Immunology</i> , 2009, 33, 525-532.	1.0	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 <i>Salmo salar</i> . <i>Fish and Shellfish Immunology</i> , 2014, 41, 102-112.	1.6	26
65	Growth hormone transgenesis in coho salmon disrupts muscle immune function impacting cross-talk with growth systems. <i>Journal of Experimental Biology</i> , 2018, 221, .	0.8	24
66	Genome-Wide Reconstruction of Rediploidization Following Autopolyploidization across One Hundred Million Years of Salmonid Evolution. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	24
67	Genetic potential for simultaneous selection of growth and body composition in rainbow trout (<i>Oncorhynchus mykiss</i>) depends on the dietary protein and lipid content: Phenotypic and genetic correlations on two diets. <i>Aquaculture</i> , 2007, 271, 162-172.	1.7	23
68	Divergent regulation of insulin-like growth factor binding protein genes in cultured Atlantic salmon myotubes under different models of catabolism and anabolism. <i>General and Comparative Endocrinology</i> , 2017, 247, 53-65.	0.8	23
69	Dietary methylmercury alters the proteome in Atlantic salmon (<i>Salmo salar</i>) kidney. <i>Aquatic Toxicology</i> , 2012, 108, 70-77.	1.9	22
70	Core vs. diet -associated and postprandial bacterial communities of the rainbow trout (<i>Oncorhynchus mykiss</i>) midgut and faeces. <i>Biology Open</i> , 2018, 7, .	0.6	21
71	<i>Brugia pahangi</i> : Characterisation of a Small Heat Shock Protein cDNA Clone. <i>Experimental Parasitology</i> , 1996, 83, 259-266.	0.5	20
72	Rainbow trout (<i>Oncorhynchus mykiss</i>) urea cycle and polyamine synthesis gene families show dynamic expression responses to inflammation. <i>Fish and Shellfish Immunology</i> , 2019, 89, 290-300.	1.6	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. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	20
74	Muscle-Specific RING Finger (MuRF) cDNAs in Atlantic Salmon (<i>Salmo salar</i>) and Their Role as Regulators of Muscle Protein Degradation. <i>Marine Biotechnology</i> , 2012, 14, 35-45.	1.1	19
75	Immunologic Profiling of the Atlantic Salmon Gill by Single Nuclei Transcriptomics. <i>Frontiers in Immunology</i> , 2021, 12, 669889.	2.2	18
76	Supplementation of arginine, ornithine and citrulline in rainbow trout (<i>Oncorhynchus mykiss</i>): Effects on growth, amino acid levels in plasma and gene expression responses in liver tissue. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2020, 241, 110632.	0.8	17
77	Impacts of jellyfish on marine cage aquaculture: an overview of existing knowledge and the challenges to finfish health. <i>ICES Journal of Marine Science</i> , 2021, 78, 1557-1573.	1.2	17
78	Antiviral and metabolic gene expression responses to viral infection in Atlantic salmon (<i>Salmo salar</i>). <i>Fish and Shellfish Immunology</i> , 2015, 42, 297-305.	1.6	16
79	The complete salmonid IGF-IR gene repertoire and its transcriptional response to disease. <i>Scientific Reports</i> , 2016, 6, 34806.	1.6	16
80	Integration of Transcriptome, Gross Morphology and Histopathology in the Gill of Sea Farmed Atlantic Salmon (<i>Salmo salar</i>): Lessons From Multi-Site Sampling. <i>Frontiers in Genetics</i> , 2020, 11, 610.	1.1	16
81	Stage specific gene expression in the post-infective L3 of the filarial nematode, <i>Brugia pahangi</i> . <i>Molecular and Biochemical Parasitology</i> , 1996, 79, 109-112.	0.5	15
82	Establishment of an IFN- γ specific reporter cell line in fish. <i>Fish and Shellfish Immunology</i> , 2010, 28, 312-319.	1.6	15
83	Sampling the fish gill microbiome: a comparison of tissue biopsies and swabs. <i>BMC Microbiology</i> , 2021, 21, 313.	1.3	15
84	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.	1.7	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 (<i>Oreochromis niloticus</i>). <i>Aquaculture</i> , 2022, 546, 737341.	1.7	14
87	Cloning and sequence analysis of rainbow trout LMP 2 cDNA and differential expression of the mRNA. <i>Fish and Shellfish Immunology</i> , 1999, 9, 621-632.	1.6	13
88	<i>Tenebrio molitor</i> larvae meal inclusion affects hepatic proteome and apoptosis and/or autophagy of three farmed fish species. <i>Scientific Reports</i> , 2022, 12, 121.	1.6	13
89	A cytidine deaminase expressed in the post-infective L3 stage of the filarial nematode, <i>Brugia pahangi</i> , has a novel RNA-binding activity. <i>Molecular and Biochemical Parasitology</i> , 1997, 88, 105-114.	0.5	12
90	Regulatory factors controlling muscle mass: Competition between innate immune function and anabolic signals in regulation of atrogin-1 in Atlantic salmon. <i>Molecular Immunology</i> , 2015, 67, 341-349.	1.0	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. <i>Scientific Reports</i> , 2019, 9, 9819.	1.6	12
92	Arginine, ornithine and citrulline supplementation in rainbow trout: Free amino acid dynamics and gene expression responses to bacterial infection. <i>Fish and Shellfish Immunology</i> , 2020, 98, 374-390.	1.6	12
93	Cloning and Characterisation of Multiple Ferritin Isoforms in the Atlantic Salmon (<i>Salmo salar</i>). <i>PLoS ONE</i> , 2014, 9, e103729.	1.1	12
94	Genomic organisation analysis of novel immunoglobulin-like transcripts in Atlantic salmon (<i>Salmo</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.2	11
95	Interactions between <i>Paramoeba perurans</i> , the causative agent of amoebic gill disease, and the blue mussel, <i>Mytilus edulis</i> . <i>Aquaculture</i> , 2016, 456, 1-8.	1.7	11
96	NFAT5 genes are part of the osmotic regulatory system in Atlantic salmon (<i>Salmo salar</i>). <i>Marine Genomics</i> , 2017, 31, 25-31.	0.4	11
97	The vertebrate muscle-specific RING finger protein family includes MuRF4 – A novel, conserved E3-ubiquitin ligase. <i>FEBS Letters</i> , 2014, 588, 4390-4397.	1.3	10
98	Temporal changes in skin and gill microbiomes of Atlantic salmon in a recirculating aquaculture system – Why do they matter?. <i>Aquaculture</i> , 2022, 558, 738352.	1.7	10
99	Functional characterisation of a TLR accessory protein, UINC93B1, in Atlantic salmon (<i>Salmo salar</i>). <i>Developmental and Comparative Immunology</i> , 2015, 50, 38-48.	1.0	9
100	Postprandial hepatic protein expression in trout <i>Oncorhynchus mykiss</i> a proteomics examination. <i>Biochemistry and Biophysics Reports</i> , 2017, 9, 79-85.	0.7	9
101	Marine n-3 fatty acids alter the proteomic response to methylmercury in Atlantic salmon kidney (ASK) cells. <i>Aquatic Toxicology</i> , 2012, 106-107, 65-75.	1.9	8
102	Air-classified faba bean protein concentrate is efficiently utilized as a dietary protein source by post-smolt Atlantic salmon (<i>Salmo salar</i>). <i>Aquaculture</i> , 2016, 452, 169-177.	1.7	8
103	Four selenoprotein P genes exist in salmonids: Analysis of their origin and expression following Se supplementation and bacterial infection. <i>PLoS ONE</i> , 2018, 13, e0209381.	1.1	6
104	Cloning and expression analysis of the Mitochondrial Ubiquitin Ligase Activator of NF- κ B (MULAN) in Atlantic salmon (<i>Salmo salar</i>). <i>Molecular Immunology</i> , 2011, 49, 558-565.	1.0	5
105	MULAN related gene (MRC): A potential novel ubiquitin ligase activator of NF- κ B involved in immune response in Atlantic salmon (<i>Salmo salar</i>). <i>Developmental and Comparative Immunology</i> , 2012, 38, 545-553.	1.0	4
106	Photoperiod-dependent developmental reprogramming of the transcriptional response to seawater entry in Atlantic salmon (<i>Salmo salar</i>). <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	0.8	2
107	Gill Transcriptomic Responses to Toxin-producing Alga <i>Prymnesium parvum</i> in Rainbow Trout. <i>Frontiers in Immunology</i> , 2021, 12, 794593.	2.2	2
108	Disparate developmental patterns of immune responses to bacterial and viral infections in fish. <i>Fish and Shellfish Immunology</i> , 2016, 53, 92.	1.6	1