

# Samuel A M Martin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112  
papers

4,330  
citations

38  
h-index

62  
g-index

127  
ext. papers

5,480  
ext. citations

4.6  
avg, IF

5.66  
L-index

#	Paper	IF	Citations
112	<i>Tenebrio molitor</i> larvae meal inclusion affects hepatic proteome and apoptosis and/or autophagy of three farmed fish species.. <i>Scientific Reports</i> , <b>2022</b> , 12, 121	4.9	3
111	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> , <b>2022</b> , 546, 737341	4.4	2
110	Temporal changes in skin and gill microbiomes of Atlantic salmon in a recirculating aquaculture system [Why do they matter?]. <i>Aquaculture</i> , <b>2022</b> , 738352	4.4	0
109	Sampling the fish gill microbiome: a comparison of tissue biopsies and swabs. <i>BMC Microbiology</i> , <b>2021</b> , 21, 313	4.5	2
108	Genome-wide reconstruction of rediploidization following autopolyploidization across one hundred million years of salmonid evolution. <i>Molecular Biology and Evolution</i> , <b>2021</b> ,	8.3	2
107	Photoperiod-dependent developmental reprogramming of the transcriptional response to seawater entry in Atlantic salmon ( <i>Salmo salar</i> ). <i>G3: Genes, Genomes, Genetics</i> , <b>2021</b> , 11,	3.2	1
106	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> , <b>2021</b> , 78, 1557-1573	2.7	5
105	Immunologic Profiling of the Atlantic Salmon Gill by Single Nuclei Transcriptomics. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 669889	8.4	2
104	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> , <b>2021</b> , 8,	4.5	8
103	Gill Transcriptomic Responses to Toxin-producing Alga in Rainbow Trout.. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 794593	8.4	
102	Integration of Transcriptome, Gross Morphology and Histopathology in the Gill of Sea Farmed Atlantic Salmon (): Lessons From Multi-Site Sampling. <i>Frontiers in Genetics</i> , <b>2020</b> , 11, 610	4.5	10
101	Efficient CRISPR/Cas9 genome editing in a salmonid fish cell line using a lentivirus delivery system. <i>BMC Biotechnology</i> , <b>2020</b> , 20, 35	3.5	17
100	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> , <b>2020</b> , 98, 374-390	4.3	9
99	Harnessing genomics to fast-track genetic improvement in aquaculture. <i>Nature Reviews Genetics</i> , <b>2020</b> , 21, 389-409	30.1	114
98	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 &amp; Integrative Physiology</i> , <b>2020</b> , 241, 110632	2.6	12
97	The structural variation landscape in 492 Atlantic salmon genomes. <i>Nature Communications</i> , <b>2020</b> , 11, 5176	17.4	24
96	Viral Resistance and IFN Signaling in STAT2 Knockout Fish Cells. <i>Journal of Immunology</i> , <b>2019</b> , 203, 465-475	3.5	24

95	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> , <b>2019</b> , 89, 290-300	4.3	11
94	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> , <b>2019</b> , 9, 9819	4.9	8
93	Proteomic comparison of selective breeding and growth hormone transgenesis in fish: Unique pathways to enhanced growth. <i>Journal of Proteomics</i> , <b>2019</b> , 192, 114-124	3.9	17
92	Proteomics in Fish and Aquaculture Research <b>2018</b> , 311-338		5
91	Growth hormone transgenesis in coho salmon disrupts muscle immune function impacting cross-talk with growth systems. <i>Journal of Experimental Biology</i> , <b>2018</b> , 221,	3	16
90	Four selenoprotein P genes exist in salmonids: Analysis of their origin and expression following Se supplementation and bacterial infection. <i>PLoS ONE</i> , <b>2018</b> , 13, e0209381	3.7	5
89	Contrasting effects of acute and chronic stress on the transcriptome, epigenome, and immune response of Atlantic salmon. <i>Epigenetics</i> , <b>2018</b> , 13, 1191-1207	5.7	37
88	High-throughput proteomic profiling of the fish liver following bacterial infection. <i>BMC Genomics</i> , <b>2018</b> , 19, 719	4.5	34
87	Core versus diet-associated and postprandial bacterial communities of the rainbow trout ( <i>O</i> ) midgut and faeces. <i>Biology Open</i> , <b>2018</b> , 7,	2.2	15
86	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> , <b>2017</b> , 247, 53-65	3	20
85	Nutrigenomics and immune function in fish: new insights from omics technologies. <i>Developmental and Comparative Immunology</i> , <b>2017</b> , 75, 86-98	3.2	117
84	Postprandial hepatic protein expression in trout <i>Oncorhynchus mykiss</i> a proteomics examination. <i>Biochemistry and Biophysics Reports</i> , <b>2017</b> , 9, 79-85	2.2	6
83	Lineage-specific rediploidization is a mechanism to explain time-lags between genome duplication and evolutionary diversification. <i>Genome Biology</i> , <b>2017</b> , 18, 111	18.3	86
82	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> , <b>2017</b> , 65, 42-51	4.3	17
81	Seawater transfer alters the intestinal microbiota profiles of Atlantic salmon ( <i>Salmo salar</i> L.). <i>Scientific Reports</i> , <b>2017</b> , 7, 13877	4.9	69
80	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> , <b>2017</b> , 12, e0169075	3.7	25
79	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> , <b>2017</b> , 118, 1010-1022	3.6	37
78	NFAT5 genes are part of the osmotic regulatory system in Atlantic salmon ( <i>Salmo salar</i> ). <i>Marine Genomics</i> , <b>2017</b> , 31, 25-31	1.9	5

77	Environmental and physiological factors shape the gut microbiota of Atlantic salmon parr ( L). <i>Aquaculture</i> , <b>2017</b> , 467, 149-157	4.4	184
76	Transcriptomic responses in the fish intestine. <i>Developmental and Comparative Immunology</i> , <b>2016</b> , 64, 103-17	3.2	77
75	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 <sup>®</sup> . <i>BMC Genomics</i> , <b>2016</b> , 17, 116	4.5	52
74	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> , <b>2016</b> , 452, 169-177	4.4	8
73	Interactions between <i>Paramoeba perurans</i> , the causative agent of amoebic gill disease, and the blue mussel, <i>Mytilus edulis</i> . <i>Aquaculture</i> , <b>2016</b> , 456, 1-8	4.4	9
72	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> , <b>2016</b> , 116, 1656-1665	3.6	36
71	The complete salmonid IGF-IR gene repertoire and its transcriptional response to disease. <i>Scientific Reports</i> , <b>2016</b> , 6, 34806	4.9	8
70	Development of an Efficient Genome Editing Method by CRISPR/Cas9 in a Fish Cell Line. <i>Marine Biotechnology</i> , <b>2016</b> , 18, 449-52	3.4	32
69	Cross Talk Between Growth and Immunity: Coupling of the IGF Axis to Conserved Cytokine Pathways in Rainbow Trout. <i>Endocrinology</i> , <b>2016</b> , 157, 1942-55	4.8	31
68	Differential responses of the gut transcriptome to plant protein diets in farmed Atlantic salmon. <i>BMC Genomics</i> , <b>2016</b> , 17, 156	4.5	54
67	Influence of dietary inclusion of a wet processed faba bean protein isolate on post-smolt Atlantic salmon ( <i>Salmo salar</i> ). <i>Aquaculture</i> , <b>2016</b> , 465, 124-133	4.4	11
66	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> , <b>2015</b> , 444, 70-78	4.4	22
65	Functional divergence of type 2 deiodinase paralogs in the Atlantic salmon. <i>Current Biology</i> , <b>2015</b> , 25, 936-41	6.3	39
64	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> , <b>2015</b> , 67, 341-9	4.3	12
63	Antiviral and metabolic gene expression responses to viral infection in Atlantic salmon ( <i>Salmo salar</i> ). <i>Fish and Shellfish Immunology</i> , <b>2015</b> , 42, 297-305	4.3	14
62	Disparate developmental patterns of immune responses to bacterial and viral infections in fish. <i>Scientific Reports</i> , <b>2015</b> , 5, 15458	4.9	35
61	Disrupted seasonal biology impacts health, food security and ecosystems. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2015</b> , 282, 20151453	4.4	100
60	Functional characterisation of a TLR accessory protein, UNC93B1, in Atlantic salmon ( <i>Salmo salar</i> ). <i>Developmental and Comparative Immunology</i> , <b>2015</b> , 50, 38-48	3.2	4

59	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>PLoS ONE</i> , <b>2015</b> , 10, e0127041	3.7	41
58	The vertebrate muscle-specific RING finger protein family includes MuRF4--a novel, conserved E3-ubiquitin ligase. <i>FEBS Letters</i> , <b>2014</b> , 588, 4390-7	3.8	9
57	Identification and characterisation of TLR18-21 genes in Atlantic salmon ( <i>Salmo salar</i> ). <i>Fish and Shellfish Immunology</i> , <b>2014</b> , 41, 549-59	4.3	63
56	Nasal immunity is an ancient arm of the mucosal immune system of vertebrates. <i>Nature Communications</i> , <b>2014</b> , 5, 5205	17.4	134
55	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> , <b>2014</b> , 41, 102-12	4.3	20
54	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> , <b>2014</b> , 42, 261-77	3.2	37
53	Extensive local gene duplication and functional divergence among paralogs in Atlantic salmon. <i>Genome Biology and Evolution</i> , <b>2014</b> , 6, 1790-805	3.9	28
52	Cloning and characterisation of multiple ferritin isoforms in the Atlantic salmon ( <i>Salmo salar</i> ). <i>PLoS ONE</i> , <b>2014</b> , 9, e103729	3.7	10
51	Inflammatory responses in primary muscle cell cultures in Atlantic salmon ( <i>Salmo salar</i> ). <i>BMC Genomics</i> , <b>2013</b> , 14, 747	4.5	38
50	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> , <b>2013</b> , 130-131, 97-111	5.1	40
49	Transforming growth factor- $\beta$ : a second TGF- $\beta$ paralogue in the rainbow trout ( <i>Oncorhynchus mykiss</i> ) that has a lower constitutive expression but is more responsive to immune stimulation. <i>Fish and Shellfish Immunology</i> , <b>2013</b> , 34, 420-32	4.3	34
48	Identification and characterization of TLR7, TLR8a2, TLR8b1 and TLR8b2 genes in Atlantic salmon ( <i>Salmo salar</i> ). <i>Developmental and Comparative Immunology</i> , <b>2013</b> , 41, 295-305	3.2	39
47	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> , <b>2012</b> , 14, 35-45	3.4	17
46	Exploring the transcriptome of Atlantic salmon ( <i>Salmo salar</i> ) skin, a major defense organ. <i>Marine Biotechnology</i> , <b>2012</b> , 14, 559-69	3.4	59
45	Dietary methylmercury alters the proteome in Atlantic salmon ( <i>Salmo salar</i> ) kidney. <i>Aquatic Toxicology</i> , <b>2012</b> , 108, 70-7	5.1	21
44	Marine n-3 fatty acids alter the proteomic response to methylmercury in Atlantic salmon kidney (ASK) cells. <i>Aquatic Toxicology</i> , <b>2012</b> , 106-107, 65-75	5.1	6
43	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> , <b>2012</b> , 13, 363	4.5	58
42	MULAN related gene (MRG): a potential novel ubiquitin ligase activator of NF- $\kappa$ B involved in immune response in Atlantic salmon ( <i>Salmo salar</i> ). <i>Developmental and Comparative Immunology</i> , <b>2012</b> , 38, 545-53	3.2	3

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40	Transcriptional responses of resistant and susceptible fish clones to the bacterial pathogen <i>Flavobacterium psychrophilum</i> . <i>PLoS ONE</i> , <b>2012</b> , 7, e39126	3.7	36
39	Cortisol modulates the induction of inflammatory gene expression in a rainbow trout macrophage cell line. <i>Fish and Shellfish Immunology</i> , <b>2011</b> , 30, 215-23	4.3	70
38	Transcriptomic responses to functional feeds in Atlantic salmon ( <i>Salmo salar</i> ). <i>Fish and Shellfish Immunology</i> , <b>2011</b> , 31, 704-15	4.3	74
37	Cloning and expression analysis of the mitochondrial ubiquitin ligase activator of NF- $\kappa$ B (MULAN) in Atlantic salmon ( <i>Salmo salar</i> ). <i>Molecular Immunology</i> , <b>2011</b> , 49, 558-65	4.3	4
36	Two copies of the genes encoding the subunits of putative interleukin (IL)-4/IL-13 receptors, IL-4R $\beta$ and IL-13R $\beta$ , have been identified in rainbow trout ( <i>Oncorhynchus mykiss</i> ) and have complex patterns of expression and modulation. <i>Immunogenetics</i> , <b>2011</b> , 63, 235-53	3.2	63
35	Negative correlation between milk production and brown adipose tissue gene expression in lactating mice. <i>Journal of Experimental Biology</i> , <b>2011</b> , 214, 4160-70	3	32
34	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-gamma, IL-10, and IL-22. <i>Journal of Immunology</i> , <b>2011</b> , 186, 708-21	5.3	131
33	Multiple tissue transcriptomic responses to <i>Piscirickettsia salmonis</i> in Atlantic salmon ( <i>Salmo salar</i> ). <i>Physiological Genomics</i> , <b>2011</b> , 43, 1241-54	3.6	62
32	Identification of two FoxP3 genes in rainbow trout ( <i>Oncorhynchus mykiss</i> ) with differential induction patterns. <i>Molecular Immunology</i> , <b>2010</b> , 47, 2563-74	4.3	42
31	Establishment of an IFN-gamma specific reporter cell line in fish. <i>Fish and Shellfish Immunology</i> , <b>2010</b> , 28, 312-9	4.3	12
30	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> , <b>2010</b> , 34, 491-500	3.2	62
29	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> , <b>2010</b> , 157, 364-73	2.3	27
28	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> , <b>2010</b> , 12, 273-81	3.4	28
27	Starvation alters the liver transcriptome of the innate immune response in Atlantic salmon ( <i>Salmo salar</i> ). <i>BMC Genomics</i> , <b>2010</b> , 11, 418	4.5	98
26	Genomic organisation analysis of novel immunoglobulin-like transcripts in Atlantic salmon ( <i>Salmo salar</i> ) reveals a tightly clustered and multigene family. <i>BMC Genomics</i> , <b>2010</b> , 11, 697	4.5	8
25	Rainbow trout ( <i>Oncorhynchus mykiss</i> ) possess multiple novel immunoglobulin-like transcripts containing either an ITAM or ITIMs. <i>Developmental and Comparative Immunology</i> , <b>2009</b> , 33, 525-32	3.2	22
24	Characterisation of gamma-interferon responsive promoters in fish. <i>Molecular Immunology</i> , <b>2008</b> , 45, 3454-62	4.3	34

23	Proteome analysis of the Atlantic salmon ( <i>Salmo salar</i> ) cell line SHK-1 following recombinant IFN-gamma stimulation. <i>Proteomics</i> , <b>2007</b> , 7, 2275-86	4.8	53
22	Directional responses following recombinant cytokine stimulation of rainbow trout ( <i>Oncorhynchus mykiss</i> ) RTS-11 macrophage cells as revealed by transcriptome profiling. <i>BMC Genomics</i> , <b>2007</b> , 8, 150	4.5	73
21	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> , <b>2007</b> , 271, 162-172	4.4	21
20	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> , <b>2006</b> , 261, 510-521	4.4	51
19	Transcriptome response following administration of a live bacterial vaccine in Atlantic salmon ( <i>Salmo salar</i> ). <i>Molecular Immunology</i> , <b>2006</b> , 43, 1900-11	4.3	92
18	Dietary plant-protein substitution affects hepatic metabolism in rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>British Journal of Nutrition</i> , <b>2004</b> , 92, 71-80	3.6	117
17	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 &amp; Integrative Physiology</i> , <b>2004</b> , 137, 75-85	2.6	45
16	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> , <b>2004</b> , 232, 493-510	4.4	315
15	Proteomic sensitivity to dietary manipulations in rainbow trout. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2003</b> , 1651, 17-29	4	125
14	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> , <b>2003</b> , 220, 749-767	4.4	125
13	Ubiquitin-proteasome-dependent proteolysis in rainbow trout ( <i>Oncorhynchus mykiss</i> ): effect of food deprivation. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2002</b> , 445, 257-66	4.6	65
12	Proteome analysis of rainbow trout ( <i>Oncorhynchus mykiss</i> ) liver proteins during short term starvation. <i>Fish Physiology and Biochemistry</i> , <b>2001</b> , 24, 259-270	2.7	64
11	Cloning and characterization of the rainbow trout ( <i>Oncorhynchus mykiss</i> ) type II interleukin-1 receptor cDNA. <i>FEBS Journal</i> , <b>2000</b> , 267, 7031-7		53
10	Cloning and sequence analysis of rainbow trout LMP 2 cDNA and differential expression of the mRNA. <i>Fish and Shellfish Immunology</i> , <b>1999</b> , 9, 621-632	4.3	11
9	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> , <b>1997</b> , 88, 105-14	1.9	12
8	<i>Brugia pahangi</i> : characterisation of a small heat shock protein cDNA clone. <i>Experimental Parasitology</i> , <b>1996</b> , 83, 259-66	2.1	20
7	Stage specific gene expression in the post-infective L3 of the filarial nematode, <i>Brugia pahangi</i> . <i>Molecular and Biochemical Parasitology</i> , <b>1996</b> , 79, 109-12	1.9	15
6	The construction of spliced leader cDNA libraries from the filarial nematode <i>Brugia pahangi</i> . <i>Molecular and Biochemical Parasitology</i> , <b>1995</b> , 70, 241-5	1.9	26

5	Proteomics in Aquaculture147-173	3
4	Functional Analysis of All Salmonid Genomes (FAASG): an international initiative supporting future salmonid research, conservation and aquaculture	7
3	Lineage-specific rediploidization is a mechanism to explain time-lags between genome duplication and evolutionary diversification	3
2	Growth hormone transgenesis disrupts immune function in muscle of coho salmon ( <i>Oncorhynchus kisutch</i> ) impacting cross-talk with growth systems	2
1	Efficient CRISPR/Cas9 genome editing in a salmonid fish cell line using a lentivirus delivery system	2