

Christopher John Secombes

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142
papers

5,724
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44
h-index

70
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144
ext. papers

6,986
ext. citations

4.1
avg. IF

6.03
L-index

#	Paper	IF	Citations
142	Cytokines and innate immunity of fish. <i>Developmental and Comparative Immunology</i> , 2001 , 25, 713-23	3.2	308
141	The Function of Fish Cytokines. <i>Biology</i> , 2016 , 5,	4.9	238
140	The interleukins of fish. <i>Developmental and Comparative Immunology</i> , 2011 , 35, 1336-45	3.2	198
139	The cytokine networks of adaptive immunity in fish. <i>Fish and Shellfish Immunology</i> , 2013 , 35, 1703-18	4.3	192
138	Two types of TNF- β exist in teleost fish: phylogeny, expression, and bioactivity analysis of type-II TNF- β in rainbow trout <i>Oncorhynchus mykiss</i> . <i>Journal of Immunology</i> , 2013 , 191, 5959-72	5.3	136
137	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, 708-21	5.3	131
136	DNA vaccination against viral haemorrhagic septicaemia (VHS) in rainbow trout: size, dose, route of injection and duration of protection-early protection correlates with Mx expression. <i>Fish and Shellfish Immunology</i> , 2003 , 15, 39-50	4.3	128
135	Phylogeny of cytokines: molecular cloning and expression analysis of sea bass <i>Dicentrarchus labrax</i> interleukin-1 β . <i>Fish and Shellfish Immunology</i> , 2001 , 11, 711-26	4.3	122
134	Factors influencing the expression of interleukin-1 beta in cultured rainbow trout (<i>Oncorhynchus mykiss</i>) leucocytes. <i>Developmental and Comparative Immunology</i> , 2000 , 24, 575-82	3.2	115
133	Bioactivity studies of rainbow trout (<i>Oncorhynchus mykiss</i>) interleukin-6: effects on macrophage growth and antimicrobial peptide gene expression. <i>Molecular Immunology</i> , 2011 , 48, 1903-16	4.3	113
132	Expression of genes related to the early immune response in rainbow trout (<i>Oncorhynchus mykiss</i>) after viral haemorrhagic septicemia virus (VHSV) infection. <i>Developmental and Comparative Immunology</i> , 2005 , 29, 615-26	3.2	107
131	Evolution of the CD4 family: teleost fish possess two divergent forms of CD4 in addition to lymphocyte activation gene-3. <i>Journal of Immunology</i> , 2006 , 177, 3939-51	5.3	98
130	Complete sequencing and expression of three complement components, C1r, C4 and C1 inhibitor, of the classical activation pathway of the complement system in rainbow trout <i>Oncorhynchus mykiss</i> . <i>Immunogenetics</i> , 2003 , 55, 615-28	3.2	95
129	Gene expression profiling in naïve and vaccinated rainbow trout after <i>Yersinia ruckeri</i> infection: insights into the mechanisms of protection seen in vaccinated fish. <i>Vaccine</i> , 2011 , 29, 4388-99	4.1	92
128	Identification of a novel IL-1 cytokine family member in teleost fish. <i>Journal of Immunology</i> , 2009 , 183, 962-74	5.3	89
127	Two macrophage colony-stimulating factor genes exist in fish that differ in gene organization and are differentially expressed. <i>Journal of Immunology</i> , 2008 , 181, 3310-22	5.3	89
126	Molecular and functional characterization of IL-15 in rainbow trout <i>Oncorhynchus mykiss</i> : a potent inducer of IFN- γ expression in spleen leukocytes. <i>Journal of Immunology</i> , 2007 , 179, 1475-88	5.3	87

125	Cloning and expression of the first nonmammalian interleukin-11 gene in rainbow trout <i>Oncorhynchus mykiss</i> . <i>FEBS Journal</i> , 2005 , 272, 1136-47	5.7	87
124	Salmonids have an extraordinary complex type I IFN system: characterization of the IFN locus in rainbow trout <i>Oncorhynchus mykiss</i> reveals two novel IFN subgroups. <i>Journal of Immunology</i> , 2014 , 193, 2273-86	5.3	81
123	CD4-Transgenic Zebrafish Reveal Tissue-Resident Th2- and Regulatory T Cell-like Populations and Diverse Mononuclear Phagocytes. <i>Journal of Immunology</i> , 2016 , 197, 3520-3530	5.3	75
122	First in-depth analysis of the novel Th2-type cytokines in salmonid fish reveals distinct patterns of expression and modulation but overlapping bioactivities. <i>Oncotarget</i> , 2016 , 7, 10917-46	3.3	74
121	Cloning and characterization of rainbow trout interleukin-17A/F2 (IL-17A/F2) and IL-17 receptor A: expression during infection and bioactivity of recombinant IL-17A/F2. <i>Infection and Immunity</i> , 2013 , 81, 340-53	3.7	72
120	Sequence and expression analysis of two T helper master transcription factors, T-bet and GATA3, in rainbow trout <i>Oncorhynchus mykiss</i> and analysis of their expression during bacterial and parasitic infection. <i>Fish and Shellfish Immunology</i> , 2010 , 29, 705-15	4.3	72
119	An Mx1 promoter-reporter system to study interferon pathways in rainbow trout. <i>Developmental and Comparative Immunology</i> , 2004 , 28, 793-801	3.2	72
118	Rainbow trout suppressor of cytokine signalling (SOCS)-1, 2 and 3: molecular identification, expression and modulation. <i>Molecular Immunology</i> , 2008 , 45, 1449-57	4.3	69
117	Rainbow trout interleukin-2: cloning, expression and bioactivity analysis. <i>Fish and Shellfish Immunology</i> , 2009 , 27, 414-22	4.3	68
116	Phylogenetic analysis of vertebrate CXC chemokines reveals novel lineage specific groups in teleost fish. <i>Developmental and Comparative Immunology</i> , 2013 , 41, 137-52	3.2	64
115	Cloning of two rainbow trout nucleotide-binding oligomerization domain containing 2 (NOD2) splice variants and functional characterization of the NOD2 effector domains. <i>Fish and Shellfish Immunology</i> , 2011 , 30, 118-27	4.3	63
114	Two copies of the genes encoding the subunits of putative interleukin (IL)-4/IL-13 receptors, IL-4R α and IL-13R α , have been identified in rainbow trout (<i>Oncorhynchus mykiss</i>) and have complex patterns of expression and modulation. <i>Immunogenetics</i> , 2011 , 63, 235-53	3.2	63
113	Immune gene expression profiling of Proliferative Kidney Disease in rainbow trout <i>Oncorhynchus mykiss</i> reveals a dominance of anti-inflammatory, antibody and T helper cell-like activities. <i>Veterinary Research</i> , 2013 , 44, 55	3.8	62
112	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	3.2	62
111	Cloning of the IL-1 β gene and IL-1 α pseudogene in salmonids uncovers a second type of IL-1 gene in teleost fish. <i>Developmental and Comparative Immunology</i> , 2012 , 38, 431-46	3.2	59
110	Differential expression, modulation and bioactivity of distinct fish IL-12 isoforms: implication towards the evolution of Th1-like immune responses. <i>European Journal of Immunology</i> , 2014 , 44, 1541-51	6.1	58
109	Identification of IL-34 in teleost fish: differential expression of rainbow trout IL-34, MCSF1 and MCSF2, ligands of the MCSF receptor. <i>Molecular Immunology</i> , 2013 , 53, 398-409	4.3	56
108	First Demonstration of Antigen Induced Cytokine Expression by CD4-1+ Lymphocytes in a Poikilotherm: Studies in Zebrafish (<i>Danio rerio</i>). <i>PLoS ONE</i> , 2015 , 10, e0126378	3.7	56

107	Isolation and Characterization of Salmonid CD4+ T Cells. <i>Journal of Immunology</i> , 2016 , 196, 4150-63	5.3	56
106	The RxLR Motif of the Host Targeting Effector AVR3a of <i>Is</i> Cleaved before Secretion. <i>Plant Cell</i> , 2017 , 29, 1184-1195	11.6	55
105	The expanding repertoire of the IL-12 cytokine family in teleost fish: Identification of three paralogues each of the p35 and p40 genes in salmonids, and comparative analysis of their expression and modulation in Atlantic salmon <i>Salmo salar</i> . <i>Developmental and Comparative Immunology</i> , 2014 , 46, 194-207	3.2	54
104	Cloning, expression analysis and bioactivity studies of rainbow trout (<i>Oncorhynchus mykiss</i>) interleukin-22. <i>Cytokine</i> , 2011 , 55, 62-73	4	54
103	Functional conservation of suppressors of cytokine signaling proteins between teleosts and mammals: Atlantic salmon SOCS1 binds to JAK/STAT family members and suppresses type I and II IFN signaling. <i>Developmental and Comparative Immunology</i> , 2014 , 45, 177-89	3.2	53
102	The evolution of IL-4 and IL-13 and their receptor subunits. <i>Cytokine</i> , 2015 , 75, 8-13	4	51
101	Molecular characterization and expression analysis of the IFN-gamma related gene (IFN-gammarel) in grass carp <i>Ctenopharyngodon idella</i> . <i>Veterinary Immunology and Immunopathology</i> , 2010 , 134, 199-207	2	50
100	The protective mechanisms induced by a fish rhabdovirus DNA vaccine depend on temperature. <i>Vaccine</i> , 2009 , 27, 3870-80	4.1	50
99	Fish Suppressors of Cytokine Signaling (SOCS): Gene Discovery, Modulation of Expression and Function. <i>Journal of Signal Transduction</i> , 2011 , 2011, 905813		47
98	Identification of the salmonid IL-17A/F1a/b, IL-17A/F2b, IL-17A/F3 and IL-17N genes and analysis of their expression following in vitro stimulation and infection. <i>Immunogenetics</i> , 2015 , 67, 395-412	3.2	44
97	Sequencing of a second interleukin-10 gene in rainbow trout <i>Oncorhynchus mykiss</i> and comparative investigation of the expression and modulation of the paralogues in vitro and in vivo. <i>Fish and Shellfish Immunology</i> , 2011 , 31, 107-17	4.3	43
96	Identification of two FoxP3 genes in rainbow trout (<i>Oncorhynchus mykiss</i>) with differential induction patterns. <i>Molecular Immunology</i> , 2010 , 47, 2563-74	4.3	42
95	The Peculiar Characteristics of Fish Type I Interferons. <i>Viruses</i> , 2016 , 8,	6.2	42
94	Role of pathogen-derived cell wall carbohydrates and prostaglandin E2 in immune response and suppression of fish immunity by the oomycete <i>Saprolegnia parasitica</i> . <i>Infection and Immunity</i> , 2014 , 82, 4518-29	3.7	41
93	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> , 2015 , 10, e0127041	3.7	41
92	Sequence and expression analysis of rainbow trout CXCR2, CXCR3a and CXCR3b aids interpretation of lineage-specific conversion, loss and expansion of these receptors during vertebrate evolution. <i>Developmental and Comparative Immunology</i> , 2014 , 45, 201-13	3.2	40
91	Expression in <i>Escherichia coli</i> and purification of sea bass (<i>Dicentrarchus labrax</i>) interleukin 1beta, a possible immunoadjuvant in aquaculture. <i>Marine Biotechnology</i> , 2004 , 6, 53-9	3.4	40
90	Interleukin (IL)-2 Is a Key Regulator of T Helper 1 and T Helper 2 Cytokine Expression in Fish: Functional Characterization of Two Divergent Paralogs in Salmonids. <i>Frontiers in Immunology</i> , 2018 , 9, 1683	8.4	39

89	Identification of suppressor of cytokine signalling (SOCS) 6, 7, 9 and CISH in rainbow trout <i>Oncorhynchus mykiss</i> and analysis of their expression in relation to other known trout SOCS. <i>Fish and Shellfish Immunology</i> , 2010 , 29, 656-67	4.3	39
88	Dysregulation of B Cell Activity During Proliferative Kidney Disease in Rainbow Trout. <i>Frontiers in Immunology</i> , 2018 , 9, 1203	8.4	38
87	Re-examination of the rainbow trout (<i>Oncorhynchus mykiss</i>) immune response to flagellin: <i>Yersinia ruckeri</i> flagellin is a potent activator of acute phase proteins, anti-microbial peptides and pro-inflammatory cytokines in vitro. <i>Developmental and Comparative Immunology</i> , 2016 , 57, 75-87	3.2	37
86	Cloning of a novel interleukin (IL)-20-like gene in rainbow trout <i>Oncorhynchus mykiss</i> gives an insight into the evolution of the IL-10 family. <i>Developmental and Comparative Immunology</i> , 2010 , 34, 158-67	3.2	37
85	DNA vaccination against a fish rhabdovirus promotes an early chemokine-related recruitment of B cells to the muscle. <i>Vaccine</i> , 2014 , 32, 1160-8	4.1	36
84	Identification and expression analysis of two fish-specific IL-6 cytokine family members, the ciliary neurotrophic factor (CNTF)-like and M17 genes, in rainbow trout <i>Oncorhynchus mykiss</i> . <i>Molecular Immunology</i> , 2009 , 46, 2290-8	4.3	36
83	Distinct Differentiation Programs Triggered by IL-6 and LPS in Teleost IgM(+) B Cells in The Absence of Germinal Centers. <i>Scientific Reports</i> , 2016 , 6, 30004	4.9	36
82	The gamma-chain cytokine/receptor system in fish: more ligands and receptors. <i>Fish and Shellfish Immunology</i> , 2011 , 31, 673-87	4.3	35
81	Which Th pathway is involved during late stage amoebic gill disease?. <i>Fish and Shellfish Immunology</i> , 2015 , 46, 417-25	4.3	34
80	Transforming growth factor- β 1b: a second TGF- β 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> , 2013 , 34, 420-32	4.3	34
79	Involvement of two microRNAs in the early immune response to DNA vaccination against a fish rhabdovirus. <i>Vaccine</i> , 2015 , 33, 3215-22	4.1	31
78	Discovery of All Three Types in Cartilaginous Fishes Enables Phylogenetic Resolution of the Origins and Evolution of Interferons. <i>Frontiers in Immunology</i> , 2019 , 10, 1558	8.4	31
77	Sequencing and expression of the second allele of the interleukin-1 β gene in rainbow trout (<i>Oncorhynchus mykiss</i>): identification of a novel SINE in the third intron. <i>Fish and Shellfish Immunology</i> , 2004 , 16, 335-58	4.3	31
76	Ontogeny and modulation after PAMPs stimulation of β defensin, hepcidin, and piscidin antimicrobial peptides in meagre (<i>Argyrosomus regius</i>). <i>Fish and Shellfish Immunology</i> , 2017 , 69, 200-210	4.3	30
75	Studies on the Use of Flagellin as an Immunostimulant and Vaccine Adjuvant in Fish Aquaculture. <i>Frontiers in Immunology</i> , 2018 , 9, 3054	8.4	29
74	Insights into the Evolution of the Suppressors of Cytokine Signaling (SOCS) Gene Family in Vertebrates. <i>Molecular Biology and Evolution</i> , 2019 , 36, 393-411	8.3	29
73	Four CISH paralogues are present in rainbow trout <i>Oncorhynchus mykiss</i> : differential expression and modulation during immune responses and development. <i>Molecular Immunology</i> , 2014 , 62, 186-98	4.3	28
72	The effect of peptidoglycan enriched diets on antimicrobial peptide gene expression in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Fish and Shellfish Immunology</i> , 2013 , 34, 529-37	4.3	26

71	Rainbow trout (<i>Oncorhynchus mykiss</i>) adipose tissue undergoes major changes in immune gene expression following bacterial infection or stimulation with pro-inflammatory molecules. <i>Developmental and Comparative Immunology</i> , 2018 , 81, 83-94	3.2	26
70	Long-term stimulation of trout head kidney cells with the cytokines MCSF, IL-2 and IL-6: gene expression dynamics. <i>Fish and Shellfish Immunology</i> , 2012 , 32, 35-44	4.3	23
69	Increased parasite resistance of greater amberjack (<i>Seriola dumerili</i> Risso 1810) juveniles fed a cMOS supplemented diet is associated with upregulation of a discrete set of immune genes in mucosal tissues. <i>Fish and Shellfish Immunology</i> , 2019 , 86, 35-45	4.3	23
68	Rainbow trout CK9, a CCL25-like ancient chemokine that attracts and regulates B cells and macrophages, the main antigen presenting cells in fish. <i>Oncotarget</i> , 2016 , 7, 17547-64	3.3	22
67	Cloning and expression analysis of two ROR- γ homologues (ROR- γ 1 and ROR- γ 2) in rainbow trout <i>Oncorhynchus mykiss</i> . <i>Fish and Shellfish Immunology</i> , 2012 , 33, 365-74	4.3	21
66	Identification and expression modulation of a C-type lectin domain family 4 homologue that is highly expressed in monocytes/macrophages in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Developmental and Comparative Immunology</i> , 2016 , 54, 55-65	3.2	20
65	Identification and expression analysis of two interleukin-23(p19) isoforms, in rainbow trout <i>Oncorhynchus mykiss</i> and Atlantic salmon <i>Salmo salar</i> . <i>Molecular Immunology</i> , 2015 , 66, 216-28	4.3	20
64	Individual monitoring of immune responses in rainbow trout after cohabitation and intraperitoneal injection challenge with <i>Yersinia ruckeri</i> . <i>Fish and Shellfish Immunology</i> , 2016 , 55, 469-78	4.3	20
63	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, 102-12	4.3	20
62	Analysis of adipose tissue immune gene expression after vaccination of rainbow trout with adjuvanted bacterins reveals an association with side effects. <i>Molecular Immunology</i> , 2017 , 88, 89-98	4.3	19
61	Characterization of BAFF and APRIL subfamily receptors in rainbow trout (<i>Oncorhynchus mykiss</i>). Potential role of the BAFF / APRIL axis in the pathogenesis of proliferative kidney disease. <i>PLoS ONE</i> , 2017 , 12, e0174249	3.7	19
60	Comparative study of CXC chemokines modulation in brown trout (<i>Salmo trutta</i>) following infection with a bacterial or viral pathogen. <i>Molecular Immunology</i> , 2016 , 71, 64-77	4.3	18
59	The Immunology of Teleosts 2012 , 144-166		18
58	Dissecting the immune pathways stimulated following injection vaccination of rainbow trout (<i>Oncorhynchus mykiss</i>) against enteric redmouth disease (ERM). <i>Fish and Shellfish Immunology</i> , 2019 , 85, 18-30	4.3	18
57	Lineage/species-specific expansion of the Mx gene family in teleosts: Differential expression and modulation of nine Mx genes in rainbow trout <i>Oncorhynchus mykiss</i> . <i>Fish and Shellfish Immunology</i> , 2019 , 90, 413-430	4.3	17
56	Evolution of Th2 responses: characterization of IL-4/13 in sea bass (<i>Dicentrarchus labrax</i> L.) and studies of expression and biological activity. <i>Scientific Reports</i> , 2017 , 7, 2240	4.9	17
55	Characterisation of rainbow trout peripheral blood leucocytes prepared by hypotonic lysis of erythrocytes, and analysis of their phagocytic activity, proliferation and response to PAMPs and proinflammatory cytokines. <i>Developmental and Comparative Immunology</i> , 2018 , 88, 104-113	3.2	16
54	Identification of three IFN- γ -inducible lysosomal thiol reductase (GILT)-like genes in mud crab <i>Scylla paramamosain</i> with distinct gene organizations and patterns of expression. <i>Gene</i> , 2015 , 570, 78-88	3.8	15

53	The longevity of the antimicrobial response in rainbow trout (<i>Oncorhynchus mykiss</i>) fed a peptidoglycan (PG) supplemented diet. <i>Fish and Shellfish Immunology</i> , 2015 , 44, 316-20	4-3	15
52	Evolution of IFN subgroups in bony fish - 2. analysis of subgroup appearance and expansion in teleost fish with a focus on salmonids. <i>Fish and Shellfish Immunology</i> , 2020 , 98, 564-573	4-3	14
51	Analysis of interferon gamma protein expression in zebrafish (<i>Danio rerio</i>). <i>Fish and Shellfish Immunology</i> , 2016 , 57, 79-86	4-3	14
50	Gene expression analysis of isolated salmonid GALT leucocytes in response to PAMPs and recombinant cytokines. <i>Fish and Shellfish Immunology</i> , 2018 , 80, 426-436	4-3	13
49	Evolution of IFN subgroups in bony fish - 1: Group I-III IFN exist in early ray-finned fish, with group II IFN subgroups present in the Holostean spotted gar, <i>Lepisosteus oculatus</i> . <i>Fish and Shellfish Immunology</i> , 2019 , 95, 163-170	4-3	13
48	Molecular characterisation of four class 2 cytokine receptor family members in rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Developmental and Comparative Immunology</i> , 2015 , 48, 43-54	3-2	12
47	Characterisation of ZBTB46 and DC-SCRIPT/ZNF366 in rainbow trout, transcription factors potentially involved in dendritic cell maturation and activation in fish. <i>Developmental and Comparative Immunology</i> , 2018 , 80, 2-14	3-2	12
46	Macrophage migration inhibitory factor (MIF) family in arthropods: Cloning and expression analysis of two MIF and one D-dopachrome tautomerase (DDT) homologues in mud crabs, <i>Scylla paramamosain</i> . <i>Fish and Shellfish Immunology</i> , 2016 , 50, 142-9	4-3	12
45	Dietary supplementation of <i>Chlorella vulgaris</i> ameliorates chronic sodium arsenite toxicity in Nile tilapia <i>Oreochromis niloticus</i> as revealed by histopathological, biochemical and immune gene expression analysis. <i>Fisheries Science</i> , 2019 , 85, 199-215	1-9	12
44	Immune response modulation upon sequential heterogeneous co-infection with <i>Tetracapsuloides bryosalmonae</i> and VHSV in brown trout (<i>Salmo trutta</i>). <i>Fish and Shellfish Immunology</i> , 2019 , 88, 375-390	4-3	11
43	Characterisation of the TNF superfamily members CD40L and BAFF in the small-spotted catshark (<i>Scyliorhinus canicula</i>). <i>Fish and Shellfish Immunology</i> , 2015 , 47, 381-9	4-3	11
42	Viral and bacterial septicaemic infections modulate the expression of PACAP splicing variants and VIP/PACAP receptors in brown trout immune organs. <i>Fish and Shellfish Immunology</i> , 2015 , 47, 923-32	4-3	11
41	The discovery and comparative expression analysis of three distinct type I interferons in the perciform fish, meagre (<i>Argyrosomus regius</i>). <i>Developmental and Comparative Immunology</i> , 2018 , 84, 123-132	3-2	11
40	Identification, molecular characterization and functional analysis of interleukin (IL)-2 and IL-2like (IL-2L) cytokines in sea bass (<i>Dicentrarchus labrax</i> L.). <i>Cytokine</i> , 2020 , 126, 154898	4	11
39	Characterisation of arginase paralogues in salmonids and their modulation by immune stimulation/infection. <i>Fish and Shellfish Immunology</i> , 2017 , 61, 138-151	4-3	10
38	Effects of temperature on amoebic gill disease development: Does it play a role?. <i>Journal of Fish Diseases</i> , 2019 , 42, 1241-1258	2-6	10
37	Sequence and Expression Analysis of Interferon Regulatory Factor 10 (IRF10) in Three Diverse Teleost Fish Reveals Its Role in Antiviral Defense. <i>PLoS ONE</i> , 2016 , 11, e0147181	3-7	10
36	Effects of repeated anaesthesia on gill and general health of Atlantic salmon, <i>Salmo salar</i> . <i>Journal of Fish Biology</i> , 2018 , 93, 1069-1081	1-9	10

35	Identification and expression analysis of an atypical chemokine receptor-2 (ACKR2)/CC chemokine binding protein-2 (CCBP2) in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Fish and Shellfish Immunology</i> , 2015 , 44, 389-98	4.3	9
34	Identification and characterization of three CXC chemokines in Asian swamp eel (<i>Monopterus albus</i>) uncovers a third CXCL11-like group in fish. <i>Developmental and Comparative Immunology</i> , 2019 , 101, 103454	3.2	9
33	Five subfamilies of defensin genes are present in salmonids: Evolutionary insights and expression analysis in Atlantic salmon <i>Salmo salar</i> . <i>Developmental and Comparative Immunology</i> , 2020 , 104, 103560	3.2	9
32	An insight into piscidins: The discovery, modulation and bioactivity of greater amberjack, <i>Seriola dumerili</i> , piscidin. <i>Molecular Immunology</i> , 2019 , 114, 378-388	4.3	8
31	Induction of IL-22 protein and IL-22-producing cells in rainbow trout <i>Oncorhynchus mykiss</i> . <i>Developmental and Comparative Immunology</i> , 2019 , 101, 103449	3.2	8
30	Molecular characterization and expression analysis of four fish-specific CC chemokine receptors CCR4La, CCR4Lc1, CCR4Lc2 and CCR11 in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Fish and Shellfish Immunology</i> , 2017 , 68, 411-427	4.3	8
29	Expansion of fish CCL20-like chemokines by genome and local gene duplication: Characterisation and expression analysis of 10 CCL20-like chemokines in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Developmental and Comparative Immunology</i> , 2020 , 103, 103502	3.2	8
28	Immune response and protective efficacy of two new adjuvants, Montanide ISA 763B VG and Montanide GEL02, administered with a <i>Streptococcus agalactiae</i> ghost vaccine in Nile tilapia (<i>Oreochromis niloticus</i>). <i>Fish and Shellfish Immunology</i> , 2021 , 116, 19-29	4.3	8
27	Different origins of paralogues of salmonid TNF1 and TNFR2: Characterisation and expression analysis of four TNF receptor genes in rainbow trout <i>Oncorhynchus mykiss</i> . <i>Developmental and Comparative Immunology</i> , 2019 , 99, 103403	3.2	7
26	Characterization and expression analysis of chemokine-like receptor 3 gene in rainbow trout <i>Oncorhynchus mykiss</i> . <i>Fisheries Science</i> , 2016 , 82, 613-622	1.9	7
25	Ancient Cytokine Interleukin 15-Like (IL-15L) Induces a Type 2 Immune Response. <i>Frontiers in Immunology</i> , 2020 , 11, 549319	8.4	7
24	Comparative transcriptomics and host-specific parasite gene expression profiles inform on drivers of proliferative kidney disease. <i>Scientific Reports</i> , 2021 , 11, 2149	4.9	7
23	A portrait of the immune response to proliferative kidney disease (PKD) in rainbow trout. <i>Parasite Immunology</i> , 2020 , 42, e12730	2.2	6
22	Distinct response of immune gene expression in peripheral blood leucocytes modulated by bacterin vaccine candidates in rainbow trout <i>Oncorhynchus mykiss</i> : A potential in vitro screening and batch testing system for vaccine development in aquaculture. <i>Fish and Shellfish Immunology</i> , 2019 , 88, 1031-1040	4.3	6
21	Recombinant interleukin-1 β dilates steelhead trout coronary microvessels: effect of temperature and role of the endothelium, nitric oxide and prostaglandins. <i>Journal of Experimental Biology</i> , 2015 , 218, 2269-78	3	6
20	Revisiting the Teleost Thymus: Current Knowledge and Future Perspectives. <i>Biology</i> , 2020 , 10,	4.9	6
19	Atlantic salmon post-smolts adapted for a longer time to seawater develop an effective humoral and cellular immune response against Salmonid alphavirus. <i>Fish and Shellfish Immunology</i> , 2018 , 82, 579-590	4.3	6
18	Immunohistochemical examination of immune cells in adipose tissue of rainbow trout (<i>Oncorhynchus mykiss</i>) following intraperitoneal vaccination. <i>Fish and Shellfish Immunology</i> , 2019 , 87, 559-564	4.3	5

17	STAT3/SOCS3 axis contributes to the outcome of salmonid whirling disease. <i>PLoS ONE</i> , 2020 , 15, e0234479	4.7	5
16	Effective isolation of GALT cells: Insights into the intestine immune response of rainbow trout (<i>Oncorhynchus mykiss</i>) to different bacterin vaccine preparations. <i>Fish and Shellfish Immunology</i> , 2020 , 105, 378-392	4.3	5
15	Time-course study of the protection induced by an interferon-inducible DNA vaccine against viral haemorrhagic septicaemia in rainbow trout. <i>Fish and Shellfish Immunology</i> , 2019 , 85, 99-105	4.3	5
14	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	3.7	5
13	Immune-modulation of two BATF3 paralogues in rainbow trout <i>Oncorhynchus mykiss</i> . <i>Molecular Immunology</i> , 2018 , 99, 104-114	4.3	4
12	Distinct modes of action of CD40L and adaptive cytokines IL-2, IL-4/13, IL-10 and IL-21 on rainbow trout IgM B cells. <i>Developmental and Comparative Immunology</i> , 2020 , 111, 103752	3.2	3
11	Montanide ISA 763A VG and ISA 761 VG induce different immune pathway responses in rainbow trout (<i>Oncorhynchus mykiss</i>) when used as adjuvant for an <i>Aeromonas salmonicida</i> bacterin. <i>Fish and Shellfish Immunology</i> , 2021 , 114, 171-183	4.3	3
10	Can Advances in Fish Immunology Change Vaccination Strategies?. <i>Fish Pathology</i> , 2009 , 44, 14-15	0.8	2
9	Type I Interferon Regulates the Survival and Functionality of B Cells in Rainbow Trout. <i>Frontiers in Immunology</i> , 2020 , 11, 1494	8.4	2
8	Development of a 3D spheroid cell culture system from fish cell lines for in vitro infection studies: Evaluation with <i>Saprolegnia parasitica</i> . <i>Journal of Fish Diseases</i> , 2021 , 44, 701-710	2.6	2
7	Gene expression analysis of the innate immune system during early rearing and weaning of meagre (<i>Argyrosomus regius</i>). <i>Fish and Shellfish Immunology</i> , 2019 , 94, 819-832	4.3	1
6	Modulation of local and systemic immune responses in brown trout (<i>Salmo trutta</i>) following exposure to <i>Myxobolus cerebralis</i> . <i>Fish and Shellfish Immunology</i> , 2020 , 106, 844-851	4.3	1
5	In vitro evaluation of novel (nanoparticle) oral delivery systems allow selection of gut immunomodulatory formulations. <i>Fish and Shellfish Immunology</i> , 2021 , 113, 125-138	4.3	1
4	Characterisation and analysis of IFN-gamma producing cells in rainbow trout <i>Oncorhynchus mykiss</i> . <i>Fish and Shellfish Immunology</i> , 2021 , 117, 328-338	4.3	1
3	CD38 Defines a Subset of B Cells in Rainbow Trout Kidney With High IgM Secreting Capacities.. <i>Frontiers in Immunology</i> , 2021 , 12, 773888	8.4	0
2	Cytokines and Immunity 2022 , 301-353		0
1	Atlantic salmon kidney (ASK) cells are an effective model to characterise interferon (IFN) and IFN-induced gene expression following salmonid alphavirus infection. <i>Fish and Shellfish Immunology</i> , 2020 , 106, 792-795	4.3	