Bertrand Collet

List of Publications by Year
in descending order

76 papers	3,148 citations	125748 32 h-index	151510 54 g-index
80 all docs	80 docs citations	80 times ranked	2200 citing authors

#	Article	IF	Citations
1	Identification and Bioactivities of IFN-Î³ in Rainbow Trout Oncorhynchus mykiss: The First Th1-Type Cytokine Characterized Functionally in Fish. Journal of Immunology, 2005, 175, 2484-2494.	0.8	358
2	Expression and Functional Characterization of the RIG-I-Like Receptors MDA5 and LGP2 in Rainbow Trout (Oncorhynchus mykiss). Journal of Virology, 2011, 85, 8403-8412.	3.4	211
3	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
4	Differentiation between populations of the Portuguese oyster, Crassostrea angulata (Lamark) and the Pacific oyster, Crassostrea gigas (Thunberg), revealed by mtDNA RFLP analysis. Journal of Experimental Marine Biology and Ecology, 1998, 226, 279-291.	1.5	140
5	Cloning and expression analysis of rainbow trout Oncorhynchus mykiss interferon regulatory factor 1 and 2 (IRF-1 and IRF-2). Developmental and Comparative Immunology, 2003, 27, 111-126.	2.2	99
6	Innate immune responses of salmonid fish to viral infections. Developmental and Comparative Immunology, 2014, 43, 160-173.	2.2	83
7	Identification of an additional two-cysteine containing type I interferon in rainbow trout Oncorhynchus mykiss provides evidence of a major gene duplication event within this gene family in teleosts. Immunogenetics, 2009, 61, 315-325.	2.5	78
8	An Mx1 promoterâ€“reporter system to study interferon pathways in rainbow trout. Developmental and Comparative Immunology, 2004, 28, 793-801.	2.2	76
9	Homologs of CD83 from Elasmobranch and Teleost Fish. Journal of Immunology, 2004, 173, 4553-4560.	0.8	73
10	Identification of an interferon antagonist protein encoded by segment 7 of infectious salmon anaemia virus. Virus Research, 2006, 115, 176-184.	2.3	69
11	Infectious pancreatic necrosis virus suppresses type I interferon signalling in rainbow trout gonad cell line but not in Atlantic salmon macrophages. Fish and Shellfish Immunology, 2007, 22, 44-56.	3.7	68
12	Molecular cloning and characterization of interferon regulatory factors 4 and 8 (IRF-4 and IRF-8) in rainbow trout, Oncorhynchus mykiss. Fish and Shellfish Immunology, 2010, 29, 157-166.	3.7	64
13	Intracellular Interferons in Fish: A Unique Means to Combat Viral Infection. PLoS Pathogens, 2013, 9, e1003736.	4.0	61
14	The effects of feeding immunostimulant Î²-glucan on the immune response of Pangasianodon hypophthalmus. Fish and Shellfish Immunology, 2015, 45, 357-366.	3.7	61
15	The rainbow trout (Oncorhynchus mykiss) Mx1 promoter Structural and functional characterization. FEBS Journal, 2001, 268, 1577-1584.	0.4	61
16	Type I-interferon signalling in fish. Fish and Shellfish Immunology, 2002, 12, 389-397.	3.7	56
17	Viral Resistance and IFN Signaling in STAT2 Knockout Fish Cells. Journal of Immunology, 2019, 203, 465-475.	0.8	55
18	Combining Multiple Approaches and Models to Dissect the Genetic Architecture of Resistance to Infections in Fish. Frontiers in Genetics, 2020, 11, 677.	2.3	55

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19	Development of an Efficient Genome Editing Method by CRISPR/Cas9 in a Fish Cell Line. Marine Biotechnology, 2016, 18, 449-452.	2.3	54
20	DNA vaccination for finfish aquaculture. Fish and Shellfish Immunology, 2019, 85, 106-125.	3.7	54
21	A recombinant CHSE-214 cell line expressing an Mx1 promoterâ€“reporter system responds to both interferon type I and type II from salmonids and represents a versatile tool to study the IFN-system in teleost fish. Fish and Shellfish Immunology, 2007, 23, 1294-1303.	3.7	51
22	Evaluation and development of diagnostic methods for Renibacterium salmoninarum causing bacterial kidney disease (BKD) in the UK. Aquaculture, 2007, 269, 114-122.	3.5	49
23	Optimisation and standardisation of functional immune assays for striped catfish (Pangasianodon) Tj ETQq1 1 0.784314 rgBT /Overlo models of infection and vaccination. Fish and Shellfish Immunology, 2014, 40, 374-383.	3.7	49
24	Efficient CRISPR/Cas9 genome editing in a salmonid fish cell line using a lentivirus delivery system. BMC Biotechnology, 2020, 20, 35.	3.4	44
25	Analysis and characterisation of IL-1Î² processing in rainbow trout, Oncorhynchus mykiss. Fish and Shellfish Immunology, 2004, 16, 453-459.	3.7	40
26	Development of an in vitro system to measure the sensitivity to the antiviral Mx protein of fish viruses. Journal of Virological Methods, 2012, 182, 1-8.	2.1	39
27	Development of a sensitive and controlled real-time RT-PCR assay for viral haemorrhagic septicaemia virus (VHSV) in marine salmonid aquaculture. Diseases of Aquatic Organisms, 2008, 80, 137-144.	1.0	39
28	CpG oligodeoxynucleotides stimulate immune cell proliferation but not specific antibody production in rainbow trout (Oncorhynchus mykiss). Veterinary Immunology and Immunopathology, 2004, 101, 211-222.	1.2	38
29	Characterisation and expression analysis of the rainbow trout (Oncorhynchus mykiss) homologue of the human dendritic cell marker CD208/lysosomal associated membrane protein 3. Developmental and Comparative Immunology, 2012, 37, 402-413.	2.2	38
30	Engineered cell lines for fish health research. Developmental and Comparative Immunology, 2018, 80, 34-40.	2.2	35
31	Quantification of Atlantic salmon type-I interferon using an Mx1 promoter reporter gene assay. Fish and Shellfish Immunology, 2004, 16, 173-184.	3.7	33
32	A review of the risk posed to Scottish mollusc aquaculture from Bonamia, Marteilia and oyster herpesvirus. Aquaculture, 2012, 370-371, 7-13.	3.5	33
33	Identification and expression modulation of a C-type lectin domain family 4 homologue that is highly expressed in monocytes/macrophages in rainbow trout (Oncorhynchus mykiss). Developmental and Comparative Immunology, 2016, 54, 55-65.	2.2	33
34	Isolation of an Atlantic salmon (Salmo salar) signal transducer and activator of transcription STAT1 gene: Kinetics of expression upon ISAV or IPNV infection. Fish and Shellfish Immunology, 2008, 25, 861-867.	3.7	31
35	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
36	Relationship between pre- and post-metamorphic growth in the Pacific oyster Crassostrea gigas (Thunberg). Aquaculture, 1999, 175, 215-226.	3.5	30

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37	Individual Monitoring of Immune Response in Atlantic Salmon Salmo salar following Experimental Infection with Infectious Salmon Anaemia Virus (ISAV). PLoS ONE, 2015, 10, e0137767.	2.5	28
38	IFN Signaling in Inflammation and Viral Infections: New Insights from Fish Models. Viruses, 2019, 11, 302.	3.4	28
39	The effects of feeding Î²-glucan to Pangasianodon hypophthalmus on immune gene expression and resistance to Edwardsiella ictaluri. Fish and Shellfish Immunology, 2015, 47, 595-605.	3.7	27
40	Expression of interferon and interferon â€“ Induced genes in Atlantic salmon Salmo salar cell lines SHK-1 and TO following infection with Salmon AlphaVirus SAV. Fish and Shellfish Immunology, 2009, 26, 672-675.	3.7	26
41	Induction and persistence of Mx protein in tissues, blood and plasma of Atlantic salmon parr, Salmo salar, injected with poly I:C. Fish and Shellfish Immunology, 2009, 26, 40-48.	3.7	23
42	Individual monitoring of immune responses in rainbow trout after cohabitation and intraperitoneal injection challenge with Yersinia ruckeri. Fish and Shellfish Immunology, 2016, 55, 469-478.	3.7	23
43	Isolation and expression profile of a gene encoding for the Signal Transducer and Activator of Transcription STAT2 in Atlantic salmon (Salmo salar). Developmental and Comparative Immunology, 2009, 33, 821-829.	2.2	21
44	Comparative gene expression profile in two Atlantic salmon cell lines TO and SHK-1. Veterinary Immunology and Immunopathology, 2009, 130, 92-95.	1.2	21
45	Cloning of the Atlantic salmon (Salmo salar) IL-1 receptor associated protein. Fish and Shellfish Immunology, 2005, 19, 53-65.	3.7	18
46	Deletions in the highly polymorphic region (HPR) of infectious salmon anaemia virus HPR0 haemagglutininâ€“esterase enhance viral fusion and influence the interaction with the fusion protein. Journal of General Virology, 2014, 95, 1015-1024.	2.9	18
47	The promoter for the Interferon Regulatory Factor (IRF)-2 in the rainbow trout Oncorhynchus mykiss: cloning and reporter gene activity. Fish and Shellfish Immunology, 2003, 15, 473-477.	3.7	17
48	Molecular characterisation of four class 2 cytokine receptor family members in rainbow trout, Oncorhynchus mykiss. Developmental and Comparative Immunology, 2015, 48, 43-54.	2.2	17
49	In vivo virulence of viral haemorrhagic septicaemia virus (VHSV) in rainbow trout Oncorhynchus mykiss correlates inversely with in vitro Mx gene expression. Veterinary Microbiology, 2016, 187, 31-40.	1.9	17
50	Dual Mutation Events in the Haemagglutinin-Esterase and Fusion Protein from an Infectious Salmon Anaemia Virus HPR0 Genotype Promote Viral Fusion and Activation by an Ubiquitous Host Protease. PLoS ONE, 2015, 10, e0142020.	2.5	17
51	A strand specific real-time RT-PCR method for the targeted detection of the three species (vRNA, cRNA) Tj ETQq1 1 0.784314 rgBT /Ov 2013, 187, 65-71.	2.1	16
52	Structural and functional characterization of the Senegalese sole (Solea senegalensis) Mx promoter. Fish and Shellfish Immunology, 2013, 35, 1642-1648.	3.7	15
53	Effects of repeated anaesthesia on gill and general health of Atlantic salmon, <scp>Salmo salar</scp>. Journal of Fish Biology, 2018, 93, 1069-1081.	1.5	15
54	A method to measure an indicator of viraemia in Atlantic salmon using a reporter cell line. Journal of Virological Methods, 2013, 191, 113-117.	2.1	12

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55	A Deficit of CEACAM-1â€“Expressing T Lymphocytes Supports Inflammation in Primary Progressive Multiple Sclerosis. Journal of Immunology, 2019, 203, 76-83.	0.8	12
56	The repertoire of vertebrate STAT transcription factors: Origin and variations in fish. Developmental and Comparative Immunology, 2021, 116, 103929.	2.2	12
57	Individual measurement of gene expression in blood cells from Rainbow trout Oncorhynchus mykiss (Walbaum). Journal of Experimental and Applied Animal Sciences, 2016, 2, 1.	0.2	12
58	Antiviral Actions of 25-Hydroxycholesterol in Fish Vary With the Virus-Host Combination. Frontiers in Immunology, 2021, 12, 581786.	4.8	10
59	Evolution of the IRF Family in Salmonids. Genes, 2021, 12, 238.	2.4	10
60	Comparison of complete polyprotein sequences of two isolates of salmon alphavirus (SAV) type I and their behaviour in a salmonid cell line. Archives of Virology, 2013, 158, 2143-2146.	1.9	9
61	Isolation and activity of the promoters for STAT1 and 2 in Atlantic salmon Salmo salar. Fish and Shellfish Immunology, 2014, 40, 644-647.	3.7	9
62	Establishment of an Atlantic salmon kidney cell line with an inducible gene expression system. Journal of Biotechnology, 2011, 154, 209-211.	3.9	8
63	Detection of specific Atlantic salmon antibodies against salmonid alphavirus using a bead-based immunoassay. Fish and Shellfish Immunology, 2020, 106, 374-383.	3.7	8
64	Atlantic salmon cardiac primary cultures: An in vitro model to study viral host pathogen interactions and pathogenesis. PLoS ONE, 2017, 12, e0181058.	2.5	8
65	Construction and analysis of a secreting expression vector for fish cells. Vaccine, 2005, 23, 1534-1539.	3.9	7
66	Differential response of the Senegalese sole (Solea senegalensis) Mx promoter to viral infections in two salmonid cell lines. Veterinary Immunology and Immunopathology, 2014, 161, 251-257.	1.2	5
67	Time-course study of the protection induced by an interferon-inducible DNA vaccine against viral haemorrhagic septicaemia in rainbow trout. Fish and Shellfish Immunology, 2019, 85, 99-105.	3.7	5
68	Individual monitoring of immune response in Atlantic salmon Salmo salar following experimental infection with piscine myocarditis virus (PMCV), agent of cardiomyopathy syndrome (CMS). Developmental and Comparative Immunology, 2019, 99, 103406.	2.2	5
69	PIAS Factors from Rainbow Trout Control NF-ÎºB- and STAT-Dependent Gene Expression. International Journal of Molecular Sciences, 2021, 22, 12815.	4.2	5
70	The potential benefits of repeated measure experiments for fish disease-challenge host-pathogen investigations. Fish and Shellfish Immunology, 2019, 85, 126-131.	3.7	4
71	Lost and Found: The Family of NF-ÎºB Inhibitors Is Larger than Assumed in Salmonid Fish. International Journal of Molecular Sciences, 2023, 24, 10229.	4.2	4
72	Non-Lethal Sequential Individual Monitoring of Viremia in Relation to DNA Vaccination in Fishâ€“Example Using a Salmon Alphavirus DNA Vaccine in Atlantic Salmon Salmo salar. Vaccines, 2021, 9, 163.	4.5	3

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73	Use of Salmon Cardiac Primary Cultures (SCPCs) of different genotypes for comparative kinetics of mx expression, viral load and ultrastructure pathology, after infection with Salmon Pancreas Disease Virus (SPDV). Fish and Shellfish Immunology, 2018, 72, 181-186.	3.7	2
74	Production of infectious salmon anaemia virus (ISAV) ribonucleoprotein complexes using a mammalian cell based minigenome system. Journal of Virological Methods, 2017, 239, 75-82.	2.1	1
75	Fish Cytokine Genes. , 2003, , 277-285.		0
76	Salmonid Double-stranded RNAâ€“Dependent Protein Kinase Activates Apoptosis and Inhibits Protein Synthesis. Journal of Immunology, 0, , .	0.8	0