

Espen Rimstad

List of Publications by Year in descending order

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81
papers

2,987
citations

136950

32
h-index

182427

51
g-index

82
all docs

82
docs citations

82
times ranked

1119
citing authors

#	ARTICLE	IF	CITATIONS
1	Heart and Skeletal Muscle Inflammation of Farmed Salmon Is Associated with Infection with a Novel Reovirus. PLoS ONE, 2010, 5, e11487.	2.5	198
2	Genomic characterization of the virus causing infectious salmon anemia in Atlantic salmon (<i>Salmo</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.4	191
3	Characterization of infectious salmon anemia virus, an orthomyxo-like virus isolated from Atlantic salmon (<i>Salmo salar</i> L.). Journal of Virology, 1997, 71, 9016-9023.	3.4	186
4	A novel totivirus and piscine reovirus (PRV) in Atlantic salmon (<i>Salmo salar</i>) with cardiomyopathy syndrome (CMS). Virology Journal, 2010, 7, 309.	3.4	113
5	Piscine orthoreovirus (PRV) infects Atlantic salmon erythrocytes. Veterinary Research, 2014, 45, 35.	3.0	92
6	Piscine orthoreovirus (PRV) replicates in Atlantic salmon (<i>Salmo salar</i> L.) erythrocytes ex vivo. Veterinary Research, 2015, 46, 26.	3.0	86
7	Polymorphism in the Infectious Salmon Anemia Virus Hemagglutinin Gene: Importance and Possible Implications for Evolution and Ecology of Infectious Salmon Anemia Disease. Virology, 2002, 304, 379-391.	2.4	85
8	Transcriptome analyses of Atlantic salmon (<i>Salmo salar</i> L.) erythrocytes infected with piscine orthoreovirus (PRV). Fish and Shellfish Immunology, 2015, 45, 780-790.	3.6	84
9	Infection with purified Piscine orthoreovirus demonstrates a causal relationship with heart and skeletal muscle inflammation in Atlantic salmon. PLoS ONE, 2017, 12, e0183781.	2.5	83
10	Characterization of the Infectious Salmon Anemia Virus Genomic Segment That Encodes the Putative Hemagglutinin. Journal of Virology, 2001, 75, 5352-5356.	3.4	76
11	Molecular and functional characterization of two infectious salmon anaemia virus (ISAV) proteins with type I interferon antagonizing activity. Virus Research, 2008, 133, 228-238.	2.2	73
12	Infectious salmon anaemia virus. An orthomyxovirus causing an emerging infection in Atlantic salmon Review article. Apmis, 2002, 110, 273-282.	2.0	72
13	Immunohistochemical detection of piscine reovirus (PRV) in hearts of Atlantic salmon coincide with the course of heart and skeletal muscle inflammation (HSMI). Veterinary Research, 2012, 43, 27.	3.0	70
14	Heart and skeletal muscle inflammation (HSMI) disease diagnosed on a British Columbia salmon farm through a longitudinal farm study. PLoS ONE, 2017, 12, e0171471.	2.5	68
15	Protection of Atlantic salmon <i>Salmo salar</i> against infectious pancreatic necrosis after DNA vaccination. Diseases of Aquatic Organisms, 2004, 60, 11-20.	1.0	62
16	Detection of infectious salmon anaemia virus (ISAV) by RT-PCR after cohabitant exposure in Atlantic salmon <i>Salmo salar</i> . Diseases of Aquatic Organisms, 2001, 47, 175-181.	1.0	56
17	Sequence Analysis of the Genome of Piscine Orthoreovirus (PRV) Associated with Heart and Skeletal Muscle Inflammation (HSMI) in Atlantic Salmon (<i>Salmo salar</i>). PLoS ONE, 2013, 8, e70075.	2.5	55
18	Differences in gene expression in Atlantic salmon parr and smolt after challenge with Piscine orthoreovirus (PRV). Molecular Immunology, 2016, 73, 138-150.	2.2	48

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19	Hypoxia tolerance and responses to hypoxic stress during heart and skeletal muscle inflammation in Atlantic salmon (<i>Salmo salar</i>). PLoS ONE, 2017, 12, e0181109.	2.5	48
20	Immunohistochemical Identification of Infectious Pancreatic Necrosis Virus in Paraffin-Embedded Tissues of Atlantic Salmon (<i>Salmo Salar</i>). Journal of Veterinary Diagnostic Investigation, 1990, 2, 288-293.	1.1	46
21	The viral RNA 3' and 5' end structure and mRNA transcription of infectious salmon anaemia virus resemble those of influenza viruses. Archives of Virology, 2000, 145, 1659-1669.	2.1	46
22	Immune responses in Atlantic salmon (<i>Salmo salar</i>) following protective vaccination against Infectious salmon anemia (ISA) and subsequent ISA virus infection. Vaccine, 2011, 29, 6392-6401.	3.8	44
23	Transcription of reference genes used for quantitative RT-PCR in Atlantic salmon is affected by viral infection. Veterinary Research, 2011, 42, 8.	3.0	44
24	Inactivation of infectious salmon anaemia virus, viral haemorrhagic septicaemia virus and infectious pancreatic necrosis virus in water using UVC irradiation. Diseases of Aquatic Organisms, 2001, 48, 1-5.	1.0	43
25	Pigment-producing granulomatous myopathy in Atlantic salmon: A novel inflammatory response. Fish and Shellfish Immunology, 2012, 33, 277-285.	3.6	41
26	Piscine orthoreovirus (PRV) in red and melanised foci in white muscle of Atlantic salmon (<i>Salmo</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 4	3.0	40
27	Molecular Basis for Antigenic Diversity of Genus Betanodavirus. PLoS ONE, 2016, 11, e0158814.	2.5	38
28	Molecular and Antigenic Characterization of Piscine orthoreovirus (PRV) from Rainbow Trout (<i>Oncorhynchus mykiss</i>). Viruses, 2018, 10, 170.	3.3	38
29	Immune parameters correlating with reduced susceptibility to pancreas disease in experimentally challenged Atlantic salmon (<i>Salmo salar</i>). Fish and Shellfish Immunology, 2013, 34, 789-798.	3.6	36
30	Experimental Piscine orthoreovirus infection mediates protection against pancreas disease in Atlantic salmon (<i>Salmo salar</i>). Veterinary Research, 2016, 47, 107.	3.0	36
31	Time course tissue distribution of infectious salmon anaemia virus in experimentally infected Atlantic salmon <i>Salmo salar</i> . Diseases of Aquatic Organisms, 1999, 36, 107-112.	1.0	36
32	Viral Protein Kinetics of Piscine Orthoreovirus Infection in Atlantic Salmon Blood Cells. Viruses, 2017, 9, 49.	3.3	34
33	A hemagglutinin-esterase-expressing salmonid alphavirus replicon protects Atlantic salmon (<i>Salmo</i>) Tj ETQq1 1 0.784314 rgBT/Overlock	3.8	30
34	Piscine Orthoreovirus-1 Isolates Differ in Their Ability to Induce Heart and Skeletal Muscle Inflammation in Atlantic Salmon (<i>Salmo salar</i>). Pathogens, 2020, 9, 1050.	2.8	28
35	Inactivated <i>Piscine orthoreovirus</i> vaccine protects against heart and skeletal muscle inflammation in Atlantic salmon. Journal of Fish Diseases, 2018, 41, 1411-1419.	1.9	27
36	The non-structural protein NS of piscine orthoreovirus (PRV) forms viral factory-like structures. Veterinary Research, 2016, 47, 5.	3.0	26

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37	Melanized focal changes in skeletal muscle in farmed Atlantic salmon after natural infection with <i>Piscine orthoreovirus</i> (PRV). <i>Journal of Fish Diseases</i> , 2019, 42, 935-945.	1.9	26
38	Examples of emerging virus diseases in salmonid aquaculture. <i>Aquaculture Research</i> , 2011, 42, 86-89.	1.8	25
39	<i>Piscine orthoreovirus</i> subtype 3 (PRV-3) causes heart inflammation in rainbow trout (<i>Oncorhynchus</i>) Tj ETQq1 1 0.784314 rgBT /Over	3.0	25
40	Evolution of the <i>Piscine orthoreovirus</i> Genome Linked to Emergence of Heart and Skeletal Muscle Inflammation in Farmed Atlantic Salmon (<i>Salmo salar</i>). <i>Viruses</i> , 2019, 11, 465.	3.3	24
41	Expression, antigenicity and studies on cell receptor binding of the hemagglutinin of infectious salmon anemia virus. <i>Archives of Virology</i> , 2005, 150, 1621-1637.	2.1	23
42	Characterization of untranslated regions of the salmonid alphavirus 3 (SAV3) genome and construction of a SAV3 based replicon. <i>Virology Journal</i> , 2009, 6, 173.	3.4	23
43	Salmonid alphavirus glycoprotein E2 requires low temperature and E1 for virion formation and induction of protective immunity. <i>Vaccine</i> , 2014, 32, 6206-6212.	3.8	23
44	<i>Piscine orthoreovirus</i> infection in Atlantic salmon (<i>Salmo salar</i>) protects against subsequent challenge with infectious hematopoietic necrosis virus (IHNV). <i>Veterinary Research</i> , 2018, 49, 30.	3.0	22
45	Immunological interactions between <i>Piscine orthoreovirus</i> and Salmonid alphavirus infections in Atlantic salmon. <i>Fish and Shellfish Immunology</i> , 2017, 64, 308-319.	3.6	20
46	Effect of a novel DNA vaccine against pancreas disease caused by salmonid alphavirus subtype 3 in Atlantic salmon (<i>Salmo salar</i>). <i>Fish and Shellfish Immunology</i> , 2021, 108, 116-126.	3.6	20
47	Erythroid Progenitor Cells in Atlantic Salmon (<i>Salmo salar</i>) May Be Persistently and Productively Infected with <i>Piscine Orthoreovirus</i> (PRV). <i>Viruses</i> , 2019, 11, 824.	3.3	18
48	Detection of infectious pancreatic necrosis virus (IPNV) RNA by hybridization with an oligonucleotide DNA probe. <i>Veterinary Microbiology</i> , 1990, 23, 211-219.	1.9	17
49	Emerging pathogens in the fish farming industry and sequencing-based pathogen discovery. <i>Developmental and Comparative Immunology</i> , 2017, 75, 109-119.	2.3	16
50	DNA vaccine expressing the non-structural proteins of <i>Piscine orthoreovirus</i> delay the kinetics of PRV infection and induces moderate protection against heart -and skeletal muscle inflammation in Atlantic salmon (<i>Salmo salar</i>). <i>Vaccine</i> , 2018, 36, 7599-7608.	3.8	16
51	PRV-1 Infected Macrophages in Melanized Focal Changes in White Muscle of Atlantic Salmon (<i>Salmo</i>) Tj ETQq1 1 0.784314 rgBT /Over	4.8	16
52	Comparative aspects of infectious salmon anemia virus, an orthomyxovirus of fish, to influenza viruses. <i>Indian Journal of Microbiology</i> , 2009, 49, 308-314.	2.7	15
53	Infectious salmon anaemia virus nuclear export protein is encoded by a spliced gene product of genomic segment 7. <i>Virus Research</i> , 2013, 177, 1-10.	2.2	15
54	The effect of vaccination, ploidy and smolt production regime on pathological melanin depositions in muscle tissue of Atlantic salmon, <i>Salmo salar</i> L. <i>Journal of Fish Diseases</i> , 2014, 37, 327-340.	1.9	15

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55	Detection of piscine orthoreoviruses (PRV α 1 and PRV α 3) in Atlantic salmon and rainbow trout farmed in Germany. <i>Transboundary and Emerging Diseases</i> , 2019, 66, 14-21.	3.0	15
56	Salmonid alphavirus replicon is functional in fish, mammalian and insect cells and in vivo in shrimps (<i>Litopenaeus vannamei</i>). <i>Vaccine</i> , 2013, 31, 5672-5679.	3.8	14
57	Antiviral Responses and Biological Consequences of Piscine orthoreovirus Infection in Salmonid Erythrocytes. <i>Frontiers in Immunology</i> , 2018, 9, 3182.	4.8	14
58	Infectious salmon anaemia virus α molecular biology and pathogenesis of the infection. <i>Journal of Applied Microbiology</i> , 2020, 129, 85-97.	3.1	14
59	Piscine orthoreovirus (PRV) α 3 protein binds dsRNA. <i>Virus Research</i> , 2015, 198, 22-29.	2.2	13
60	Infectious pancreatic necrosis virus (<scp>IPNV</scp>) serotype Sp is prevalent in Turkish rainbow trout farms. <i>Journal of Fish Diseases</i> , 2018, 41, 95-104.	1.9	13
61	The amino terminus of the salmonid alphavirus capsid protein determines subcellular localization and inhibits cellular proliferation. <i>Archives of Virology</i> , 2010, 155, 1281-1293.	2.1	12
62	Dissemination of Piscine orthoreovirus-1 (PRV-1) in Atlantic Salmon (<i>Salmo salar</i>) during the Early and Regenerating Phases of Infection. <i>Pathogens</i> , 2020, 9, 143.	2.8	12
63	Detection of Salmonid IgM Specific to the Piscine Orthoreovirus Outer Capsid Spike Protein Sigma 1 Using Lipid-Modified Antigens in a Bead-Based Antibody Detection Assay. <i>Frontiers in Immunology</i> , 2019, 10, 2119.	4.8	11
64	Presence and genetic variability of <i>Piscine orthoreovirus</i> genotype 1 (PRV α 1) in wild salmonids in Northern Europe and North Atlantic Ocean. <i>Journal of Fish Diseases</i> , 2019, 42, 1107-1118.	1.9	11
65	Infectious Salmon Anaemia Virus (ISAV) RNA Binding Protein Encoded by Segment 8 ORF2 and Its Interaction with ISAV and Intracellular Proteins. <i>Viruses</i> , 2016, 8, 52.	3.3	10
66	Immunopathological characterization of red focal changes in Atlantic salmon (<i>Salmo salar</i>) white muscle. <i>Veterinary Immunology and Immunopathology</i> , 2020, 222, 110035.	1.2	10
67	A naturally occurring substitution in the E2 protein of Salmonid alphavirus subtype 3 changes viral fitness. <i>Virus Research</i> , 2015, 196, 79-86.	2.2	9
68	Development of infectious cDNA clones of Salmonid alphavirus subtype 3. <i>BMC Research Notes</i> , 2010, 3, 241.	1.4	8
69	Detection of specific Atlantic salmon antibodies against salmonid alphavirus using a bead-based immunoassay. <i>Fish and Shellfish Immunology</i> , 2020, 106, 374-383.	3.6	8
70	Establishment of a piscine myocarditis virus (PMCV) challenge model and testing of a plant-produced subunit vaccine candidate against cardiomyopathy syndrome (CMS) in Atlantic salmon <i>Salmo salar</i> . <i>Aquaculture</i> , 2021, 541, 736806.	3.5	8
71	sORF2 protein of infectious salmon anaemia virus is a RNA-silencing suppressor and interacts with <i>Salmo salar</i> Mov10 (SsMov10) of the host RNAi machinery. <i>Virus Genes</i> , 2018, 54, 199-214.	1.6	7
72	Mutation of N-glycosylation Sites in Salmonid Alphavirus (SAV) Envelope Proteins Attenuate the Virus in Cell Culture. <i>Viruses</i> , 2020, 12, 1071.	3.3	7

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73	Piscine Orthoreovirus (PRV)-3, but Not PRV-2, Cross-Protects against PRV-1 and Heart and Skeletal Muscle Inflammation in Atlantic Salmon. <i>Vaccines</i> , 2021, 9, 230.	4.4	7
74	Transcriptional regulation of gene expression of infectious salmon anaemia virus segment 7. <i>Virus Research</i> , 2014, 190, 69-74.	2.2	5
75	Effect of pancreas disease caused by SAV 2 on protein and fat digestion in Atlantic salmon. <i>Journal of Fish Diseases</i> , 2019, 42, 97-108.	1.9	5
76	Dynamics of Polarized Macrophages and Activated CD8+ Cells in Heart Tissue of Atlantic Salmon Infected With Piscine Orthoreovirus-1. <i>Frontiers in Immunology</i> , 2021, 12, 729017.	4.8	5
77	A Polyprotein-Expressing Salmonid Alphavirus Replicon Induces Modest Protection in Atlantic Salmon (<i>Salmo Salar</i>) Against Infectious Pancreatic Necrosis. <i>Viruses</i> , 2015, 7, 252-267.	3.3	4
78	Inactivation of Piscine orthoreovirus. <i>Journal of Fish Diseases</i> , 2020, 43, 1039-1048.	1.9	3
79	Immune Response Against Piscine orthoreovirus (PRV) in Salmonids. , 2022, , 445-461.		3
80	Genetically modified attenuated salmonid alphavirus: A potential strategy for immunization of Atlantic salmon. <i>Journal of Fish Diseases</i> , 2021, 44, 923-937.	1.9	2
81	Genetic grouping and geographic distribution of Piscine orthoreovirus-1 (PRV-1) in farmed Atlantic salmon in Norway. <i>Veterinary Research</i> , 2021, 52, 131.	3.0	1