

Gael Kurath

List of Publications by Year in descending order

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75
papers

4,439
citations

109321

35
h-index

110387

64
g-index

80
all docs

80
docs citations

80
times ranked

4032
citing authors

#	ARTICLE	IF	CITATIONS
1	Taxonomy of the order Mononegavirales: update 2016. Archives of Virology, 2016, 161, 2351-2360.	2.1	407
2	Taxonomy of the order Mononegavirales: update 2019. Archives of Virology, 2019, 164, 1967-1980.	2.1	224
3	Quantitative expression profiling of immune response genes in rainbow trout following infectious haematopoietic necrosis virus (IHNV) infection or DNA vaccination. Fish and Shellfish Immunology, 2004, 17, 447-462.	3.6	208
4	ICTV Virus Taxonomy Profile: Rhabdoviridae. Journal of General Virology, 2018, 99, 447-448.	2.9	207
5	The family Rhabdoviridae: mono- and bipartite negative-sense RNA viruses with diverse genome organization and common evolutionary origins. Virus Research, 2017, 227, 158-170.	2.2	200
6	Phylogeography of infectious haematopoietic necrosis virus in North America. Journal of General Virology, 2003, 84, 803-814.	2.9	188
7	2020 taxonomic update for phylum Negarnaviricota (Riboviria: Orthornavirae), including the large orders Bunyavirales and Mononegavirales. Archives of Virology, 2020, 165, 3023-3072.	2.1	184
8	Taxonomy of the order Mononegavirales: update 2017. Archives of Virology, 2017, 162, 2493-2504.	2.1	173
9	Taxonomy of the order Mononegavirales: update 2018. Archives of Virology, 2018, 163, 2283-2294.	2.1	153
10	Efficacy of an infectious hematopoietic necrosis (IHNV) virus DNA vaccine in Chinook Oncorhynchus tshawytscha and sockeye O. nerka salmon. Diseases of Aquatic Organisms, 2005, 64, 13-22.	1.0	128
11	Protection of rainbow trout against infectious hematopoietic necrosis virus four days after specific or semi-specific DNA vaccination. Vaccine, 2001, 19, 4011-4019.	3.8	120
12	Viral fitness: definitions, measurement, and current insights. Current Opinion in Virology, 2012, 2, 538-545.	5.4	99
13	Fish DNA vaccine against infectious hematopoietic necrosis virus: efficacy of various routes of immunisation. Fish and Shellfish Immunology, 2000, 10, 711-723.	3.6	93
14	Protective immunity and lack of histopathological damage two years after DNA vaccination against infectious hematopoietic necrosis virus in trout. Vaccine, 2006, 24, 345-354.	3.8	90
15	Differential virulence mechanisms of infectious hematopoietic necrosis virus in rainbow trout (Oncorhynchus mykiss) include host entry and virus replication kinetics. Journal of General Virology, 2009, 90, 2172-2182.	2.9	90
16	Genetic analyses reveal unusually high diversity of infectious haematopoietic necrosis virus in rainbow trout aquaculture. Journal of General Virology, 2000, 81, 2823-2832.	2.9	85
17	Strand-specific, real-time RT-PCR assays for quantification of genomic and positive-sense RNAs of the fish rhabdovirus, Infectious hematopoietic necrosis virus. Journal of Virological Methods, 2006, 132, 18-24.	2.1	82
18	Virulence Comparisons of Infectious Hematopoietic Necrosis Virus U and M Genogroups in Sockeye Salmon and Rainbow Trout. Journal of Aquatic Animal Health, 2006, 18, 232-243.	1.4	82

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19	Potential drivers of virulence evolution in aquaculture. <i>Evolutionary Applications</i> , 2016, 9, 344-354.	3.1	81
20	Molecular epidemiology of infectious hematopoietic necrosis virus reveals complex virus traffic and evolution within southern Idaho aquaculture. <i>Diseases of Aquatic Organisms</i> , 2003, 55, 175-185.	1.0	79
21	A Reverse Genetics System for the Great Lakes Strain of Viral Hemorrhagic Septicemia Virus: the NV Gene is Required for Pathogenicity. <i>Marine Biotechnology</i> , 2011, 13, 672-683.	2.4	76
22	Two distinct phylogenetic clades of infectious hematopoietic necrosis virus overlap within the Columbia River basin. <i>Diseases of Aquatic Organisms</i> , 2003, 55, 187-203.	1.0	70
23	Taxonomy of the order Mononegavirales: second update 2018. <i>Archives of Virology</i> , 2019, 164, 1233-1244.	2.1	70
24	Transcriptome analysis of rainbow trout infected with high and low virulence strains of Infectious hematopoietic necrosis virus. <i>Fish and Shellfish Immunology</i> , 2011, 30, 84-93.	3.6	62
25	2021 Taxonomic update of phylum Negarnaviricota (Riboviria: Orthornavirae), including the large orders Bunyavirales and Mononegavirales. <i>Archives of Virology</i> , 2021, 166, 3513-3566.	2.1	62
26	Emergence of Viral hemorrhagic septicemia virus in the North American Great Lakes region is Associated with low viral genetic diversity. <i>Diseases of Aquatic Organisms</i> , 2011, 96, 29-43.	1.0	56
27	Early viral replication and induced or constitutive immunity in rainbow trout families with differential resistance to Infectious hematopoietic necrosis virus (IHNV). <i>Fish and Shellfish Immunology</i> , 2010, 28, 98-105.	3.6	55
28	A Missing Dimension in Measures of Vaccination Impacts. <i>PLoS Pathogens</i> , 2014, 10, e1003849.	4.7	54
29	Occurrence and genetic typing of infectious hematopoietic necrosis virus in Kamchatka, Russia. <i>Diseases of Aquatic Organisms</i> , 2007, 75, 1-11.	1.0	48
30	Complex dynamics at the interface between wild and domestic viruses of finfish. <i>Current Opinion in Virology</i> , 2011, 1, 73-80.	5.4	47
31	Epidemiological investigation of infectious hematopoietic necrosis virus in salt water net-pen reared Atlantic salmon in British Columbia, Canada. <i>Aquaculture</i> , 2002, 212, 49-67.	3.5	46
32	Virulence correlates with fitness in vivo for two M group genotypes of Infectious hematopoietic necrosis virus (IHNV). <i>Virology</i> , 2010, 404, 51-58.	2.4	39
33	Virulence of viral hemorrhagic septicemia virus (VHSV) genotypes Ia, IVa, IVb, and IVc in five fish species. <i>Diseases of Aquatic Organisms</i> , 2013, 107, 99-111.	1.0	39
34	<i>In Vivo</i> Fitness Associated with High Virulence in a Vertebrate Virus Is a Complex Trait Regulated by Host Entry, Replication, and Shedding. <i>Journal of Virology</i> , 2011, 85, 3959-3967.	3.4	38
35	A Nuclear Localization of the Infectious Haematopoietic Necrosis Virus NV Protein Is Necessary for Optimal Viral Growth. <i>PLoS ONE</i> , 2011, 6, e22362.	2.5	38
36	Emergence of MD type infectious hematopoietic necrosis virus in Washington State coastal steelhead trout. <i>Diseases of Aquatic Organisms</i> , 2013, 104, 179-195.	1.0	35

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37	Molecular Epidemiology Reveals Emergence of a Virulent Infectious Hematopoietic Necrosis (IHN) Virus Strain in Wild Salmon and Its Transmission to Hatchery Fish. <i>Journal of Aquatic Animal Health</i> , 2000, 12, 85-99.	1.4	34
38	Vaccine Effects on Heterogeneity in Susceptibility and Implications for Population Health Management. <i>MBio</i> , 2017, 8, .	4.1	32
39	Problems of classification in the family Paramyxoviridae. <i>Archives of Virology</i> , 2018, 163, 1395-1404.	2.1	30
40	Replication and shedding kinetics of infectious hematopoietic necrosis virus in juvenile rainbow trout. <i>Virus Research</i> , 2017, 227, 200-211.	2.2	27
41	A effective DNA vaccine against diverse genotype J infectious hematopoietic necrosis virus strains prevalent in China. <i>Vaccine</i> , 2017, 35, 2420-2426.	3.8	25
42	In vivo fitness correlates with host-specific virulence of Infectious hematopoietic necrosis virus (IHNV) in sockeye salmon and rainbow trout. <i>Virology</i> , 2011, 417, 312-319.	2.4	24
43	Phylogeography and evolution of infectious hematopoietic necrosis virus in China. <i>Molecular Phylogenetics and Evolution</i> , 2019, 131, 19-28.	2.7	24
44	The glycoprotein, non-virion protein, and polymerase of viral hemorrhagic septicemia virus are not determinants of host-specific virulence in rainbow trout. <i>Virology Journal</i> , 2019, 16, 31.	3.4	22
45	In vivo virus growth competition assays demonstrate equal fitness of fish rhabdovirus strains that co-circulate in aquaculture. <i>Virus Research</i> , 2008, 137, 179-188.	2.2	21
46	Predictive factors and viral genetic diversity for viral hemorrhagic septicemia virus infection in Lake Ontario and the St. Lawrence River. <i>Journal of Great Lakes Research</i> , 2012, 38, 278-288.	1.9	21
47	The Nucleoprotein and Phosphoprotein Are Major Determinants of the Virulence of Viral Hemorrhagic Septicemia Virus in Rainbow Trout. <i>Journal of Virology</i> , 2019, 93, .	3.4	21
48	Characterization of infectious dose and lethal dose of two strains of infectious hematopoietic necrosis virus (IHNV). <i>Virus Research</i> , 2016, 214, 80-89.	2.2	19
49	Specificity of DNA vaccines against the U and M genogroups of infectious hematopoietic necrosis virus (IHNV) in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Fish and Shellfish Immunology</i> , 2011, 31, 43-51.	3.6	18
50	Molecular systematics of sturgeon nucleocytoplasmic large DNA viruses. <i>Molecular Phylogenetics and Evolution</i> , 2018, 128, 26-37.	2.7	18
51	Detection of Viral Hemorrhagic Septicemia Virus by Quantitative Reverse Transcription Polymerase Chain Reaction from Two Fish Species at Two Sites in Lake Superior. <i>Journal of Aquatic Animal Health</i> , 2011, 23, 207-217.	1.4	17
52	The Role of Virulence in <i>In Vivo</i> Superinfection Fitness of the Vertebrate RNA Virus Infectious Hematopoietic Necrosis Virus. <i>Journal of Virology</i> , 2013, 87, 8145-8157.	3.4	17
53	Differential susceptibility in steelhead trout populations to an emergent MD strain of infectious hematopoietic necrosis virus. <i>Diseases of Aquatic Organisms</i> , 2014, 112, 17-28.	1.0	17
54	Possibility and Challenges of Conversion of Current Virus Species Names to Linnaean Binomials. <i>Systematic Biology</i> , 2016, 66, syw096.	5.6	17

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55	Analysis of host genetic diversity and viral entry as sources of between-host variation in viral load. <i>Virus Research</i> , 2012, 165, 71-80.	2.2	16
56	Viral fitness does not correlate with three genotype displacement events involving infectious hematopoietic necrosis virus. <i>Virology</i> , 2014, 464-465, 146-155.	2.4	15
57	Geography and host species shape the evolutionary dynamics of U genogroup infectious hematopoietic necrosis virus. <i>Virus Evolution</i> , 2016, 2, vew034.	4.9	15
58	Insight into infectious hematopoietic necrosis virus (IHNV) in Chinese rainbow trout aquaculture from virus isolated from 7 provinces in 2010–2014. <i>Aquaculture</i> , 2018, 496, 239-246.	3.5	15
59	Satellite Tobacco Mosaic Virus Sequence Variants with Only Five Nucleotide Differences Can Interfere with Each Other in a Cross Protection-like Phenomenon in Plants. <i>Virology</i> , 1994, 202, 1065-1069.	2.4	13
60	Round gobies are an important part of VHSV genotype IVb ecology in the St. Lawrence River and eastern Lake Ontario. <i>Journal of Great Lakes Research</i> , 2014, 40, 1002-1009.	1.9	12
61	Revised Taxonomy of Rhabdoviruses Infecting Fish and Marine Mammals. <i>Animals</i> , 2022, 12, 1363.	2.3	12
62	Characterization of the mutant spectra of a fish RNA virus within individual hosts during natural infections. <i>Virus Research</i> , 2003, 96, 15-25.	2.2	11
63	Spatial and temporal heterogeneity of infectious hematopoietic necrosis virus in Pacific Northwest salmonids. <i>Infection, Genetics and Evolution</i> , 2016, 45, 347-358.	2.3	11
64	Successful mitigation of viral disease based on a delayed exposure rearing strategy at a large-scale steelhead trout conservation hatchery. <i>Aquaculture</i> , 2016, 450, 213-224.	3.5	11
65	Infectious Diseases of Fishes in the Salish Sea. <i>Fisheries</i> , 2013, 38, 402-409.	0.8	10
66	Transmission routes maintaining a viral pathogen of steelhead trout within a complex multi-host assemblage. <i>Ecology and Evolution</i> , 2017, 7, 8187-8200.	1.9	10
67	Increasing virulence, but not infectivity, associated with serially emergent virus strains of a fish rhabdovirus. <i>Virus Evolution</i> , 2016, 2, vew018.	4.9	9
68	Resistance and Protective Immunity in Redfish Lake Sockeye Salmon Exposed to M Type Infectious Hematopoietic Necrosis Virus (IHNV). <i>Journal of Aquatic Animal Health</i> , 2010, 22, 129-139.	1.4	7
69	In vivo and in vitro phenotypic differences between Great Lakes VHSV genotype IVb isolates with sequence types vcG001 and vcG002. <i>Journal of Great Lakes Research</i> , 2014, 40, 879-885.	1.9	7
70	Virulence and Infectivity of UC, MD, and L Strains of Infectious Hematopoietic Necrosis Virus (IHNV) in Four Populations of Columbia River Basin Chinook Salmon. <i>Viruses</i> , 2021, 13, 701.	3.3	6
71	Virus shedding kinetics and unconventional virulence tradeoffs. <i>PLoS Pathogens</i> , 2021, 17, e1009528.	4.7	4
72	Comparative Susceptibilities of Selected California Chinook Salmon and Steelhead Populations to Isolates of L Genogroup Infectious Hematopoietic Necrosis Virus (IHNV). <i>Animals</i> , 2022, 12, 1733.	2.3	3

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73	Foreword: Pathogens and immune responses of fish and reptiles. <i>Veterinary Research</i> , 2011, 42, 101.	3.0	2
74	Evolution of Viral Virulence: Empirical Studies. , 2016, , 155-214.		2
75	Fish Rhabdoviruses (Rhabdoviridae). , 2021, , 324-331.		1