

# Vikram N Vakharia

## List of Publications by Year in descending order

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92  
papers

3,941  
citations

109321

35  
h-index

133252

59  
g-index

93  
all docs

93  
docs citations

93  
times ranked

3059  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Toll pathway is important for an antiviral response in <i>Drosophila</i> . Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7257-7262.	7.1	346
2	RNAi is an antiviral immune response against a dsRNA virus in <i>Drosophila melanogaster</i> . Cellular Microbiology, 2006, 8, 880-889.	2.1	266
3	Molecular Determinants of Virulence, Cell Tropism, and Pathogenic Phenotype of Infectious Bursal Disease Virus. Journal of Virology, 2001, 75, 11974-11982.	3.4	202
4	Molecular basis of antigenic variation in infectious bursal disease virus. Virus Research, 1994, 31, 265-273.	2.2	155
5	Advances in Aquaculture Vaccines Against Fish Pathogens: Global Status and Current Trends. Reviews in Fisheries Science and Aquaculture, 2017, 25, 184-217.	9.1	141
6	Identification of putative motifs involved in the virulence of infectious pancreatic necrosis virus. Virology, 2004, 322, 31-40.	2.4	128
7	The structure of a birnavirus polymerase reveals a distinct active site topology. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7385-7390.	7.1	107
8	Generation of a Mutant Infectious Bursal Disease Virus That Does Not Cause Bursal Lesions. Journal of Virology, 1998, 72, 2647-2654.	3.4	103
9	Molecular Determinants of Infectious Pancreatic Necrosis Virus Virulence and Cell Culture Adaptation. Journal of Virology, 2005, 79, 10289-10299.	3.4	101
10	Avian reovirus nonstructural protein $\sigma$ NS forms viroplasm-like inclusions and recruits protein $\rho$ NS to these structures. Virology, 2004, 319, 94-106.	2.4	80
11	Nonvirion Protein of Novirhabdovirus Suppresses Apoptosis at the Early Stage of Virus Infection. Journal of Virology, 2011, 85, 8393-8402.	3.4	80
12	Induction of Apoptosis in Vitro by the 17-kDa Nonstructural Protein of Infectious Bursal Disease Virus: Possible Role in Viral Pathogenesis. Virology, 2001, 285, 50-58.	2.4	79
13	A Reverse Genetics System for the Great Lakes Strain of Viral Hemorrhagic Septicemia Virus: the NV Gene is Required for Pathogenicity. Marine Biotechnology, 2011, 13, 672-683.	2.4	76
14	Green Fluorescent Protein as a Noninvasive Stress Probe in Resting <i>Escherichia coli</i> Cells. Applied and Environmental Microbiology, 1999, 65, 409-414.	3.1	74
15	VP1 protein of infectious bursal disease virus modulates the virulence in vivo. Virology, 2004, 330, 62-73.	2.4	73
16	Infectious Pancreatic Necrosis Virus VP5 Is Dispensable for Virulence and Persistence. Journal of Virology, 2005, 79, 9206-9216.	3.4	67
17	Possible Involvement of the Double-Stranded RNA-Binding Core Protein $\sigma$ A in the Resistance of Avian Reovirus to Interferon. Journal of Virology, 2000, 74, 1124-1131.	3.4	58
18	Nonstructural Protein of Infectious Bursal Disease Virus Inhibits Apoptosis at the Early Stage of Virus Infection. Journal of Virology, 2006, 80, 3369-3377.	3.4	56

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19	ICTV virus taxonomy profile: Birnaviridae. <i>Journal of General Virology</i> , 2019, 100, 5-6.	2.9	54
20	Expression and purification of human interleukin-2 simplified as a fusion with green fluorescent protein in suspended Sf-9 insect cells. <i>Journal of Biotechnology</i> , 1999, 69, 9-17.	3.8	53
21	Molecular characterization of the Great Lakes viral hemorrhagic septicemia virus (VHSV) isolate from USA. <i>Virology Journal</i> , 2009, 6, 171.	3.4	53
22	Generation of Infectious Pancreatic Necrosis Virus from Cloned cDNA. <i>Journal of Virology</i> , 1998, 72, 8913-8920.	3.4	53
23	Butyrophilin Is Expressed in Mammary Epithelial Cells from a Single-sized Messenger RNA as a Type I Membrane Glycoprotein. <i>Journal of Biological Chemistry</i> , 1998, 273, 4171-4179.	3.4	51
24	Infectious pancreatic necrosis virus induces apoptosis in vitro and in vivo independent of VP5 expression. <i>Virology</i> , 2005, 342, 13-25.	2.4	51
25	Insect larval expression process is optimized by generating fusions with green fluorescent protein. <i>Biotechnology and Bioengineering</i> , 1999, 65, 316-324.	3.3	47
26	The zebrafish galectins Drgal1-L2 and Drgal3-L1 bind in vitro to the infectious hematopoietic necrosis virus (IHNV) glycoprotein and reduce viral adhesion to fish epithelial cells. <i>Developmental and Comparative Immunology</i> , 2016, 55, 241-252.	2.3	47
27	Birnavirus VP1 Proteins Form a Distinct Subgroup of RNA-Dependent RNA Polymerases Lacking a GDD Motif. <i>Virology</i> , 2002, 296, 241-250.	2.4	46
28	Expression of epoxide hydrolase in insect cells: A focus on the infected cell. <i>Biotechnology and Bioengineering</i> , 1993, 42, 240-246.	3.3	45
29	Antigenicity of infectious pancreatic necrosis virus VP2 subviral particles expressed in yeast. <i>Vaccine</i> , 2007, 25, 4880-4888.	3.8	42
30	Partial sequence analysis of cloned dengue virus type 2 genome. <i>Gene</i> , 1986, 46, 257-267.	2.2	41
31	Identification of sequence changes responsible for the attenuation of avian infectious bronchitis virus strain Arkansas DPI. <i>Archives of Virology</i> , 2009, 154, 495-499.	2.1	41
32	Role of Viral Hemorrhagic Septicemia Virus Matrix (M) Protein in Suppressing Host Transcription. <i>Journal of Virology</i> , 2017, 91, .	3.4	41
33	Breaking the host range: mandarin fish is susceptible to a vesiculovirus derived from snakehead fish. <i>Journal of General Virology</i> , 2015, 96, 775-781.	2.9	39
34	ICTV virus taxonomy profile: Picobirnaviridae. <i>Journal of General Virology</i> , 2019, 100, 133-134.	2.9	39
35	Chimeric infectious bursal disease virus-like particles expressed in insect cells and purified by immobilized metal affinity chromatography. , 1999, 63, 721-729.		36
36	Cloning, Expression, and Characterization of Avian Reovirus Guanylyltransferase. <i>Virology</i> , 2002, 296, 288-299.	2.4	36

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37	Molecular characterization of the virulent infectious hematopoietic necrosis virus (IHNV) strain 220-90. <i>Virology Journal</i> , 2010, 7, 10.	3.4	35
38	The Crystal Structure and RNA-Binding of an Orthomyxovirus Nucleoprotein. <i>PLoS Pathogens</i> , 2013, 9, e1003624.	4.7	35
39	Complete genomic sequence analysis of infectious bronchitis virus Ark DPI strain and its evolution by recombination. <i>Virology Journal</i> , 2008, 5, 157.	3.4	32
40	Interaction of hepatic microsomal epoxide hydrolase derived from a recombinant baculovirus expression system with an azarene oxide and an aziridine substrate analog. <i>Biochemistry</i> , 1993, 32, 2610-2616.	2.5	30
41	Reversed-phase boronate chromatography for the separation of O-methylribose nucleosides and aminoacyl-tRNAs. <i>Analytical Biochemistry</i> , 1980, 109, 1-11.	2.4	29
42	Genetic variation of foot-and-mouth disease virus from field outbreaks to laboratory isolation. <i>Virus Research</i> , 1994, 32, 299-312.	2.2	29
43	Formation of subviral particles of the capsid protein VP2 of infectious bursal disease virus and its application in serological diagnosis. <i>Journal of Virological Methods</i> , 2009, 157, 84-89.	2.1	29
44	A vaccinia-virus-free reverse genetics system for infectious hematopoietic necrosis virus. <i>Journal of Virological Methods</i> , 2010, 167, 132-139.	2.1	29
45	Interchange of L polymerase protein between two strains of viral hemorrhagic septicemia virus (VHSV) genotype IV alters temperature sensitivities in vitro. <i>Virus Research</i> , 2015, 195, 203-206.	2.2	27
46	Purification of a recombinant protein produced in a baculovirus expression system by immobilized metal affinity chromatography. <i>Biotechnology and Bioengineering</i> , 1994, 43, 349-356.	3.3	26
47	Posttranslational Removal of the Carboxyl-terminal KDEL of the Cysteine Protease SH-EP Occurs Prior to Maturation of the Enzyme. <i>Journal of Biological Chemistry</i> , 1999, 274, 11390-11398.	3.4	25
48	Identification and Characterization of MicroRNAs in Snakehead Fish Cell Line upon Snakehead Fish Vesiculovirus Infection. <i>International Journal of Molecular Sciences</i> , 2016, 17, 154.	4.1	25
49	Detection of dengue virus RNA using nucleic acid hybridization. <i>Journal of Virological Methods</i> , 1987, 15, 187-200.	2.1	24
50	Characterization of the nucleic acid-binding activity of the avian reovirus non-structural protein $\sigma$ NS. <i>Journal of General Virology</i> , 2005, 86, 1159-1169.	2.9	24
51	Protective efficacy of a DNA vaccine construct encoding the VP2 gene of infectious bursal disease and a truncated HSP70 of <i>Mycobacterium tuberculosis</i> in chickens. <i>Vaccine</i> , 2015, 33, 1033-1039.	3.8	23
52	Oral vaccination of <i>Macrobrachium rosenbergii</i> with baculovirus-expressed <i>M. rosenbergii</i> nodavirus (MrNV) capsid protein induces protective immunity against MrNV challenge. <i>Fish and Shellfish Immunology</i> , 2019, 86, 1123-1129.	3.6	23
53	Genotype Characterization of Commonly Used Newcastle Disease Virus Vaccine Strains of India. <i>PLoS ONE</i> , 2014, 9, e98869.	2.5	23
54	Sequence analysis of infectious pancreatic necrosis virus isolated from Iranian reared rainbow trout ( <i>Oncorhynchus mykiss</i> ) in 2012. <i>Virus Genes</i> , 2013, 47, 574-578.	1.6	22

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55	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
56	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
57	Crystal structure of an orthomyxovirus matrix protein reveals mechanisms for self-polymerization and membrane association. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8550-8555.	7.1	20
58	Evaluation of four enzyme linked immunosorbent assays for the detection of antibodies to infectious bursal disease in chickens. <i>Journal of Virological Methods</i> , 2010, 165, 277-282.	2.1	19
59	Specific nucleotides at the 3' terminal promoter of viral hemorrhagic septicemia virus are important for virulence in vitro and in vivo. <i>Virology</i> , 2015, 476, 226-232.	2.4	19
60	Development of a novel Newcastle disease virus (NDV) neutralization test based on recombinant NDV expressing enhanced green fluorescent protein. <i>Virology Journal</i> , 2017, 14, 232.	3.4	19
61	Use of Polymerase Chain Reaction for Efficient Cloning of dsRNA Segments of Infectious Bursal Disease Virus. <i>Avian Diseases</i> , 1992, 36, 736.	1.0	18
62	Phylogenetic analysis of the glycoprotein gene of viral hemorrhagic septicemia virus from Iranian trout farms points towards a common European origin. <i>Veterinary Microbiology</i> , 2016, 186, 97-101.	1.9	18
63	Development of recombinant vaccines against infectious bursal disease. <i>Biotechnology Annual Review</i> , 1997, 3, 151-168.	2.1	17
64	Protective and immunogenic effects of Escherichia coli- expressed infectious pancreatic necrosis virus (IPNV) VP2-VP3 fusion protein in rainbow trout. <i>Fish and Shellfish Immunology</i> , 2015, 47, 390-396.	3.6	17
65	The role of queuine in the aminoacylation of mammalian aspartate transfer RNAs. <i>Nucleic Acids Research</i> , 1983, 11, 4257-4272.	14.5	16
66	Detection of NP, N3 and N7 antibodies to avian influenza virus by indirect ELISA using yeast-expressed antigens. <i>Virology Journal</i> , 2009, 6, 158.	3.4	15
67	Newcastle Disease Virus Vectored Bivalent Vaccine against Virulent Infectious Bursal Disease and Newcastle Disease of Chickens. <i>Vaccines</i> , 2017, 5, 31.	4.4	15
68	Structure of Transfer RNAs: Listing of 150 Additional Sequences. <i>Progress in Molecular Biology and Translational Science</i> , 1983, 28, 211-252.	1.9	14
69	Identification of virus neutralizing epitopes on naturally occurring variants of type A12 foot-and-mouth disease virus. <i>Virus Research</i> , 1989, 14, 281-295.	2.2	13
70	Synthetic pheromone biosynthesis activating neuropeptide gene expressed in a baculovirus expression system. <i>Insect Biochemistry and Molecular Biology</i> , 1995, 25, 583-589.	2.7	13
71	Recombinant Infectious Bursal Disease Virus Carrying Hepatitis C Virus Epitopes. <i>Journal of Virology</i> , 2011, 85, 1408-1414.	3.4	13
72	Rescue of a recombinant Newcastle disease virus strain R2B expressing green fluorescent protein. <i>Virus Genes</i> , 2017, 53, 410-417.	1.6	13

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73	Molecular characterization of infectious pancreatic necrosis virus strains isolated from the three types of salmonids farmed in Chile. <i>Virology Journal</i> , 2017, 14, 17.	3.4	13
74	Complete Genome Sequence of Newcastle Disease Virus Mesogenic Vaccine Strain R2B from India. <i>Journal of Virology</i> , 2012, 86, 13814-13815.	3.4	12
75	Effect of the Viral Hemorrhagic Septicemia Virus Nonvirion Protein on Translation via PERK-eIF2 $\beta$ Pathway. <i>Viruses</i> , 2020, 12, 499.	3.3	12
76	Macrobrachium rosenbergii nodavirus (MrNV)-CP-RNA-2 DNA vaccine confers protective immunity in giant freshwater prawn Macrobrachium rosenbergii against MrNV infection. <i>Fish and Shellfish Immunology</i> , 2019, 86, 319-326.	3.6	11
77	Newcastle disease virus vectored rabies vaccine induces strong humoral and cell mediated immune responses in mice. <i>Veterinary Microbiology</i> , 2020, 251, 108890.	1.9	11
78	Isolation, Identification, and Genomic Analysis of a Novel Reovirus from Healthy Grass Carp and Its Dynamic Proliferation In Vitro and In Vivo. <i>Viruses</i> , 2021, 13, 690.	3.3	11
79	Recombinant Newcastle Disease Virus (NDV) Expressing Sigma C Protein of Avian Reovirus (ARV) Protects against Both ARV and NDV in Chickens. <i>Pathogens</i> , 2019, 8, 145.	2.8	10
80	Development of an Efficient Bioprocess for Poultry Vaccines Using High-density Insect Cell Culture. <i>Annals of the New York Academy of Sciences</i> , 1994, 745, 336-359.	3.8	9
81	A Novel Subunit Vaccine Based on Outer Capsid Proteins of Grass Carp Reovirus (GCRV) Provides Protective Immunity against GCRV Infection in Rare Minnow ( <i>Gobiocypris rarus</i> ). <i>Pathogens</i> , 2020, 9, 945.	2.8	9
82	Oral Vaccination of Grass Carp ( <i>Ctenopharyngodon idella</i> ) with Baculovirus-Expressed Grass Carp Reovirus (GCRV) Proteins Induces Protective Immunity against GCRV Infection. <i>Vaccines</i> , 2021, 9, 41.	4.4	9
83	Complete Nucleotide Analysis of the Structural Genome of the Infectious Bronchitis Virus Strain Md27 Reveals its Mosaic Nature. <i>Viruses</i> , 2009, 1, 1166-1177.	3.3	7
84	The structure of aspartate transfer RNA from rabbit liver. <i>Biochemical and Biophysical Research Communications</i> , 1982, 105, 1072-1081.	2.1	6
85	Evaluation of the oncolytic property of recombinant Newcastle disease virus strain R2B in 4T1 and B16-F10 cells in-vitro. <i>Research in Veterinary Science</i> , 2021, 139, 159-165.	1.9	5
86	Launching a Global Network of Virologists: The World Society for Virology (WSV). <i>Intervirology</i> , 2017, 60, 276-277.	2.8	3
87	Newcastle Disease Virus Vectored Chicken Infectious Anaemia Vaccine Induces Robust Immune Response in Chickens. <i>Viruses</i> , 2021, 13, 1985.	3.3	3
88	Genetic subtyping and phylogenetic analysis of HA and NA from avian influenza virus in wild birds from Peru reveals unique features among circulating strains in America. <i>PLoS ONE</i> , 2022, 17, e0268957.	2.5	3
89	Comparative Analysis of Virus-Induced Polypeptides of an Avirulent and a Virulent Strain of Avian Reovirus. <i>Avian Diseases</i> , 1994, 38, 244.	1.0	2
90	Efficient expression of the 15-kDa form of infectious pancreatic necrosis virus VP5 by suppression of a UGA codon. <i>Virus Research</i> , 2006, 122, 61-68.	2.2	2

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91	A single amino acid in VP2 is critical for the attachment of infectious bursal disease subviral particles to immobilized metal ions and DF-1 cells. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 1173-1182.	2.3	2
92	World Society for Virology first international conference: Tackling global virus epidemics. <i>Virology</i> , 2022, 566, 114-121.	2.4	2