

Massimo Palmarini

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109 papers	5,495 citations	42 h-index	71 g-index
113 ext. papers	6,998 ext. citations	8.9 avg, IF	5.06 L-index

#	Paper	IF	Citations
109	Infectious virus in exhaled breath of symptomatic seasonal influenza cases from a college community. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1081-1086	11.5	312
108	Revealing the history of sheep domestication using retrovirus integrations. <i>Science</i> , 2009 , 324, 532-6	33.3	292
107	Comparative host-coronavirus protein interaction networks reveal pan-viral disease mechanisms. <i>Science</i> , 2020 , 370,	33.3	261
106	Late Ebola virus relapse causing meningoencephalitis: a case report. <i>Lancet, The</i> , 2016 , 388, 498-503	40	236
105	Pregnancy recognition and conceptus implantation in domestic ruminants: roles of progesterone, interferons and endogenous retroviruses. <i>Reproduction, Fertility and Development</i> , 2007 , 19, 65-78	1.8	211
104	Endogenous retroviruses regulate periimplantation placental growth and differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 14390-5	11.5	203
103	Identification and characterization of a novel non-structural protein of bluetongue virus. <i>PLoS Pathogens</i> , 2011 , 7, e1002477	7.6	188
102	Jaagsiekte sheep retrovirus is necessary and sufficient to induce a contagious lung cancer in sheep. <i>Journal of Virology</i> , 1999 , 73, 6964-72	6.6	178
101	Fundamental properties of the mammalian innate immune system revealed by multispecies comparison of type I interferon responses. <i>PLoS Biology</i> , 2017 , 15, e2004086	9.7	132
100	A paradigm for virus-host coevolution: sequential counter-adaptations between endogenous and exogenous retroviruses. <i>PLoS Pathogens</i> , 2007 , 3, e170	7.6	121
99	Receptor usage and fetal expression of ovine endogenous betaretroviruses: implications for coevolution of endogenous and exogenous retroviruses. <i>Journal of Virology</i> , 2003 , 77, 749-53	6.6	103
98	A phosphatidylinositol 3-kinase docking site in the cytoplasmic tail of the Jaagsiekte sheep retrovirus transmembrane protein is essential for envelope-induced transformation of NIH 3T3 cells. <i>Journal of Virology</i> , 2001 , 75, 11002-9	6.6	101
97	Molecular cloning and functional analysis of three type D endogenous retroviruses of sheep reveal a different cell tropism from that of the highly related exogenous jaagsiekte sheep retrovirus. <i>Journal of Virology</i> , 2000 , 74, 8065-76	6.6	101
96	Late viral interference induced by transdominant Gag of an endogenous retrovirus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 11117-22	11.5	83
95	Widespread Reassortment Shapes the Evolution and Epidemiology of Bluetongue Virus following European Invasion. <i>PLoS Pathogens</i> , 2015 , 11, e1005056	7.6	83
94	Endogenous betaretroviruses of sheep: teaching new lessons in retroviral interference and adaptation. <i>Journal of General Virology</i> , 2004 , 85, 1-13	4.9	82
93	Reassortment between two serologically unrelated bluetongue virus strains is flexible and can involve any genome segment. <i>Journal of Virology</i> , 2013 , 87, 543-57	6.6	81

92	Schmallenberg virus pathogenesis, tropism and interaction with the innate immune system of the host. <i>PLoS Pathogens</i> , 2013 , 9, e1003133	7.6	78
91	Interplay between ovine bone marrow stromal cell antigen 2/tetherin and endogenous retroviruses. <i>Journal of Virology</i> , 2010 , 84, 4415-25	6.6	72
90	Lack of a specific immune response against a recombinant capsid protein of Jaagsiekte sheep retrovirus in sheep and goats naturally affected by enzootic nasal tumour or sheep pulmonary adenomatosis. <i>Veterinary Immunology and Immunopathology</i> , 1998 , 61, 229-37	2	72
89	The long terminal repeat of Jaagsiekte sheep retrovirus is preferentially active in differentiated epithelial cells of the lungs. <i>Journal of Virology</i> , 2000 , 74, 5776-87	6.6	72
88	Expression of the jaagsiekte sheep retrovirus envelope glycoprotein is sufficient to induce lung tumors in sheep. <i>Journal of Virology</i> , 2006 , 80, 8030-7	6.6	70
87	Expression of endogenous betaretroviruses in the ovine uterus: effects of neonatal age, estrous cycle, pregnancy, and progesterone. <i>Journal of Virology</i> , 2001 , 75, 11319-27	6.6	70
86	Development and validation of the ISARIC 4C Deterioration model for adults hospitalised with COVID-19: a prospective cohort study. <i>Lancet Respiratory Medicine</i> , 2021 , 9, 349-359	35.1	70
85	RNA interference targets arbovirus replication in Culicoides cells. <i>Journal of Virology</i> , 2013 , 87, 2441-54	6.6	67
84	Characterization of a second open reading frame in genome segment 10 of bluetongue virus. <i>Journal of General Virology</i> , 2015 , 96, 3280-3293	4.9	65
83	Bluetongue virus serotype 27: detection and characterization of two novel variants in Corsica, France. <i>Journal of General Virology</i> , 2016 , 97, 2073-2083	4.9	65
82	Co-infections, secondary infections, and antimicrobial use in patients hospitalised with COVID-19 during the first pandemic wave from the ISARIC WHO CCP-UK study: a multicentre, prospective cohort study. <i>Lancet Microbe</i> , 2021 , 2, e354-e365	22.2	61
81	Virus and host factors affecting the clinical outcome of bluetongue virus infection. <i>Journal of Virology</i> , 2014 , 88, 10399-411	6.6	60
80	Envelope-induced cell transformation by ovine betaretroviruses. <i>Journal of Virology</i> , 2002 , 76, 5387-94	6.6	60
79	A plasmid DNA-launched SARS-CoV-2 reverse genetics system and coronavirus toolkit for COVID-19 research. <i>PLoS Biology</i> , 2021 , 19, e3001091	9.7	60
78	The transdominant endogenous retrovirus enJS56A1 associates with and blocks intracellular trafficking of Jaagsiekte sheep retrovirus Gag. <i>Journal of Virology</i> , 2007 , 81, 1762-72	6.6	57
77	Jaagsiekte retrovirus is widely distributed both in T and B lymphocytes and in mononuclear phagocytes of sheep with naturally and experimentally acquired pulmonary adenomatosis. <i>Journal of Virology</i> , 1999 , 73, 4004-8	6.6	56
76	Sheep pulmonary adenomatosis: a unique model of retrovirus-associated lung cancer. <i>Trends in Microbiology</i> , 1997 , 5, 478-83	12.4	54
75	Risk of adverse outcomes in patients with underlying respiratory conditions admitted to hospital with COVID-19: a national, multicentre prospective cohort study using the ISARIC WHO Clinical Characterisation Protocol UK. <i>Lancet Respiratory Medicine</i> , 2021 , 9, 699-711	35.1	54

74	Relevance of Akt phosphorylation in cell transformation induced by Jaagsiekte sheep retrovirus. <i>Virology</i> , 2003 , 312, 95-105	3.6	51
73	Mechanisms of late restriction induced by an endogenous retrovirus. <i>Journal of Virology</i> , 2007 , 81, 11441-51	6.5	50
72	Friendly viruses: the special relationship between endogenous retroviruses and their host. <i>Annals of the New York Academy of Sciences</i> , 2009 , 1178, 157-72	6.5	49
71	Infection of lung epithelial cells and induction of pulmonary adenocarcinoma is not the most common outcome of naturally occurring JSRV infection during the commercial lifespan of sheep. <i>Virology</i> , 2005 , 338, 144-53	3.6	49
70	Endogenous retroviruses in trophoblast differentiation and placental development. <i>American Journal of Reproductive Immunology</i> , 2010 , 64, 255-64	3.8	45
69	Sheep endogenous betaretroviruses (enJSRVs) and the hyaluronidase 2 (HYAL2) receptor in the ovine uterus and conceptus. <i>Biology of Reproduction</i> , 2005 , 73, 271-9	3.9	44
68	In vitro infection of ovine cell lines by Jaagsiekte sheep retrovirus. <i>Journal of Virology</i> , 1999 , 73, 10070-86	6.6	44
67	Determinants of bluetongue virus virulence in murine models of disease. <i>Journal of Virology</i> , 2011 , 85, 11479-89	6.6	42
66	Characterisation of in-hospital complications associated with COVID-19 using the ISARIC WHO Clinical Characterisation Protocol UK: a prospective, multicentre cohort study. <i>Lancet, The</i> , 2021 , 398, 223-237	4.0	39
65	Genomic epidemiology reveals multiple introductions of SARS-CoV-2 from mainland Europe into Scotland. <i>Nature Microbiology</i> , 2021 , 6, 112-122	26.6	39
64	Reduced neutralisation of the Delta (B.1.617.2) SARS-CoV-2 variant of concern following vaccination. <i>PLoS Pathogens</i> , 2021 , 17, e1010022	7.6	35
63	Changes in in-hospital mortality in the first wave of COVID-19: a multicentre prospective observational cohort study using the WHO Clinical Characterisation Protocol UK. <i>Lancet Respiratory Medicine, the</i> , 2021 , 9, 773-785	35.1	35
62	Bluetongue Virus NS4 Protein Is an Interferon Antagonist and a Determinant of Virus Virulence. <i>Journal of Virology</i> , 2016 , 90, 5427-39	6.6	35
61	Bluetongue virus spread in Europe is a consequence of climatic, landscape and vertebrate host factors as revealed by phylogeographic inference. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017 , 284,	4.4	34
60	Multiple genome segments determine virulence of bluetongue virus serotype 8. <i>Journal of Virology</i> , 2015 , 89, 5238-49	6.6	34
59	A synthetic biology approach for a vaccine platform against known and newly emerging serotypes of bluetongue virus. <i>Journal of Virology</i> , 2014 , 88, 12222-32	6.6	33
58	Lung adenocarcinoma originates from retrovirus infection of proliferating type 2 pneumocytes during pulmonary post-natal development or tissue repair. <i>PLoS Pathogens</i> , 2011 , 7, e1002014	7.6	33
57	The signal peptide of a simple retrovirus envelope functions as a posttranscriptional regulator of viral gene expression. <i>Journal of Virology</i> , 2009 , 83, 4591-604	6.6	32

56	<i>Drosophila melanogaster</i> as a model organism for bluetongue virus replication and tropism. <i>Journal of Virology</i> , 2012 , 86, 9015-24	6.6	32
55	Transformation of rodent fibroblasts by the jaagsiekte sheep retrovirus envelope is receptor independent and does not require the surface domain. <i>Journal of Virology</i> , 2003 , 77, 6341-50	6.6	31
54	Non-steroidal anti-inflammatory drug use and outcomes of COVID-19 in the ISARIC Clinical Characterisation Protocol UK cohort: a matched, prospective cohort study. <i>Lancet Rheumatology, The</i> , 2021 , 3, e498-e506	14.2	30
53	Analysis of integration sites of Jaagsiekte sheep retrovirus in ovine pulmonary adenocarcinoma. <i>Journal of Virology</i> , 2004 , 78, 8506-12	6.6	29
52	HNF-3beta is a critical factor for the expression of the Jaagsiekte sheep retrovirus long terminal repeat in type II pneumocytes but not in Clara cells. <i>Virology</i> , 2002 , 292, 87-97	3.6	29
51	Follicular dendritic cell disruption as a novel mechanism of virus-induced immunosuppression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E6238-E6247	11.5	29
50	In vitro selection of Remdesivir resistance suggests evolutionary predictability of SARS-CoV-2. <i>PLoS Pathogens</i> , 2021 , 17, e1009929	7.6	29
49	In vivo tumorigenesis by Jaagsiekte sheep retrovirus (JSRV) requires Y590 in Env TM, but not full-length orfX open reading frame. <i>Virology</i> , 2007 , 367, 413-21	3.6	28
48	The hyper-transmissible SARS-CoV-2 Omicron variant exhibits significant antigenic change, vaccine escape and a switch in cell entry mechanism		28
47	Association of RON tyrosine kinase with the Jaagsiekte sheep retrovirus envelope glycoprotein. <i>Virology</i> , 2006 , 350, 347-57	3.6	27
46	Isolation of an infectious endogenous retrovirus in a proportion of live attenuated vaccines for pets. <i>Journal of Virology</i> , 2010 , 84, 3690-4	6.6	26
45	A prenylated dsRNA sensor protects against severe COVID-19. <i>Science</i> , 2021 , 374, eabj3624	33.3	26
44	"Mâage Trois": the evolutionary interplay between JSRV, enJSRVs and domestic sheep. <i>Viruses</i> , 2014 , 6, 4926-45	6.2	24
43	Reduced neutralisation of the Delta (B.1.617.2) SARS-CoV-2 variant of concern following vaccination		24
42	Transplacental transmission of field and rescued strains of BTV-2 and BTV-8 in experimentally infected sheep. <i>Veterinary Research</i> , 2013 , 44, 75	3.8	23
41	Viral particles of endogenous betaretroviruses are released in the sheep uterus and infect the conceptus trophectoderm in a transspecies embryo transfer model. <i>Journal of Virology</i> , 2010 , 84, 9078-85	6.6	23
40	Children develop robust and sustained cross-reactive spike-specific immune responses to SARS-CoV-2 infection.. <i>Nature Immunology</i> , 2022 , 23, 40-49	19.1	22
39	Immunophenotyping of inflammatory cells associated with Schmallenberg virus infection of the central nervous system of ruminants. <i>PLoS ONE</i> , 2013 , 8, e62939	3.7	22

38	NSs protein of Schmallenberg virus counteracts the antiviral response of the cell by inhibiting its transcriptional machinery. <i>Journal of General Virology</i> , 2014 , 95, 1640-1646	4.9	22
37	A new era of virus bioinformatics. <i>Virus Research</i> , 2018 , 251, 86-90	6.4	21
36	Spliced and prematurely polyadenylated Jaagsiekte sheep retrovirus-specific RNAs from infected or transfected cells. <i>Virology</i> , 2002 , 294, 180-8	3.6	21
35	Structure of the capsid amino-terminal domain from the betaretrovirus, Jaagsiekte sheep retrovirus. <i>Journal of Molecular Biology</i> , 2009 , 386, 1179-92	6.5	20
34	Heparan Sulfate Proteoglycan Is an Important Attachment Factor for Cell Entry of Akabane and Schmallenberg Viruses. <i>Journal of Virology</i> , 2017 , 91,	6.6	18
33	Nonstructural Protein NSs of Schmallenberg Virus Is Targeted to the Nucleolus and Induces Nucleolar Disorganization. <i>Journal of Virology</i> , 2017 , 91,	6.6	18
32	The signal peptide of a recently integrated endogenous sheep betaretrovirus envelope plays a major role in eluding gag-mediated late restriction. <i>Journal of Virology</i> , 2011 , 85, 7118-28	6.6	18
31	Testicular Degeneration and Infertility following Arbovirus Infection. <i>Journal of Virology</i> , 2018 , 92,	6.6	17
30	A single amino acid substitution in a segment of the CA protein within Gag that has similarity to human immunodeficiency virus type 1 blocks infectivity of a human endogenous retrovirus K provirus in the human genome. <i>Journal of Virology</i> , 2009 , 83, 1105-14	6.6	17
29	Genome Sequences of Five African Swine Fever Virus Genotype IX Isolates from Domestic Pigs in Uganda. <i>Microbiology Resource Announcements</i> , 2018 , 7,	1.3	15
28	Turnover Rate of NS3 Proteins Modulates Bluetongue Virus Replication Kinetics in a Host-Specific Manner. <i>Journal of Virology</i> , 2015 , 89, 10467-81	6.6	14
27	TRIM69 Inhibits Vesicular Stomatitis Indiana Virus. <i>Journal of Virology</i> , 2019 , 93,	6.6	14
26	Endogenous retroviruses of sheep: a model system for understanding physiological adaptation to an evolving ruminant genome. <i>Journal of Reproduction and Development</i> , 2012 , 58, 33-7	2.1	13
25	Transcriptome analysis reveals the host response to Schmallenberg virus in bovine cells and antagonistic effects of the NSs protein. <i>BMC Genomics</i> , 2015 , 16, 324	4.5	12
24	A Moloney murine leukemia virus driven by the Jaagsiekte sheep retrovirus enhancers shows enhanced specificity for infectivity in lung epithelial cells. <i>Virus Genes</i> , 2005 , 31, 257-63	2.3	12
23	Host species barriers to Jaagsiekte sheep retrovirus replication and carcinogenesis. <i>Journal of Virology</i> , 2013 , 87, 10752-62	6.6	11
22	Jaagsiekte sheep retrovirus is not detected in human lung adenocarcinomas expressing antigens related to the Gag polyprotein of betaretroviruses. <i>Cancer Letters</i> , 2007 , 258, 22-30	9.9	11
21	Mutations in the Schmallenberg Virus Gc Glycoprotein Facilitate Cellular Protein Synthesis Shutoff and Restore Pathogenicity of NSs Deletion Mutants in Mice. <i>Journal of Virology</i> , 2016 , 90, 5440-5450	6.6	9

20	Application of next generation sequencing in mammalian embryogenomics: lessons learned from endogenous betaretroviruses of sheep. <i>Animal Reproduction Science</i> , 2012 , 134, 95-103	2.1	9
19	A veterinary twist on pathogen biology. <i>PLoS Pathogens</i> , 2007 , 3, e12	7.6	9
18	"Frozen evolution" of an RNA virus suggests accidental release as a potential cause of arbovirus re-emergence. <i>PLoS Biology</i> , 2020 , 18, e3000673	9.7	7
17	Virologists-Heroes need weapons. <i>PLoS Pathogens</i> , 2018 , 14, e1006771	7.6	7
16	In vitro evolution of Remdesivir resistance reveals genome plasticity of SARS-CoV-2		7
15	Immunophenotyping of Sheep Paraffin-Embedded Peripheral Lymph Nodes. <i>Frontiers in Immunology</i> , 2018 , 9, 2892	8.4	7
14	The sheep tetherin paralog oBST2B blocks envelope glycoprotein incorporation into nascent retroviral virions. <i>Journal of Virology</i> , 2015 , 89, 535-44	6.6	6
13	Sensitivity to BST-2 restriction correlates with Orthobunyavirus host range. <i>Virology</i> , 2017 , 509, 121-130	3.6	5
12	The antiviral state has shaped the CpG composition of the vertebrate interferome to avoid self-targeting. <i>PLoS Biology</i> , 2021 , 19, e3001352	9.7	3
11	DisCVR: Rapid viral diagnosis from high-throughput sequencing data. <i>Virus Evolution</i> , 2019 , 5, vez033	3.7	2
10	TMPRSS2 promotes SARS-CoV-2 evasion from NCOA7-mediated restriction. <i>PLoS Pathogens</i> , 2021 , 17, e1009820	7.6	2
9	Evolutionary stasis of an RNA virus indicates arbovirus re-emergence triggered by accidental release		2
8	An Early Block in the Replication of the Atypical Bluetongue Virus Serotype 26 in Cells Is Determined by Its Capsid Proteins. <i>Viruses</i> , 2021 , 13,	6.2	2
7	Multitasking: Making the Most out of the Retroviral Envelope. <i>Viruses</i> , 2010 , 2, 1571-6	6.2	1
6	TRIM69 inhibits Vesicular Stomatitis Indiana Virus (VSIV)		1
5	A Prenylated dsRNA Sensor Protects Against Severe COVID-19 and is Absent in Horseshoe Bats		1
4	TMPRSS2 promotes SARS-CoV-2 evasion from NCOA7-mediated restriction		1
3	Implementation of corticosteroids in treatment of COVID-19 in the ISARIC WHO Clinical Characterisation Protocol UK: prospective, cohort study.. <i>The Lancet Digital Health</i> , 2022 , 4, e220-e234	14.4	1

2 The Evolutionary Interplay Between Exogenous and Endogenous Sheep Betaretroviruses **2012**, 293-307

1 Jaagsiekte Sheep Retrovirus (Retroviridae) **2021**, 575-582