Raymond R R Rowland

List of Publications by Year
in descending order

75	2,792	159585 30	189892 50
papers	citations	h-index	g-index

76	76	76	2535
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gene-edited pigs are protected from porcine reproductive and respiratory syndrome virus. Nature Biotechnology, 2016, 34, 20-22.	17.5	383
2	Survival of viral pathogens in animal feed ingredients under transboundary shipping models. PLoS ONE, 2018, 13, e0194509.	2.5	139
3	Infectious Dose of African Swine Fever Virus When Consumed Naturally in Liquid or Feed. Emerging Infectious Diseases, 2019, 25, 891-897.	4.3	123
4	Replacement of Porcine CD163 Scavenger Receptor Cysteine-Rich Domain 5 with a CD163-Like Homolog Confers Resistance of Pigs to Genotype 1 but Not Genotype 2 Porcine Reproductive and Respiratory Syndrome Virus. Journal of Virology, 2017, 91, .	3.4	94
5	Nucleolar-cytoplasmic shuttling of PRRSV nucleocapsid protein: a simple case of molecular mimicry or the complex regulation by nuclear import, nucleolar localization and nuclear export signal sequences. Virus Research, 2003, 95, 23-33.	2.2	92
6	Control of porcine reproductive and respiratory syndrome (PRRS) through genetic improvements in disease resistance and tolerance. Frontiers in Genetics, 2012, 3, 260.	2.3	92
7	Resistance to coronavirus infection in amino peptidase N-deficient pigs. Transgenic Research, 2019, 28, 21-32.	2.4	86
8	Lymphoid tissue tropism of porcine reproductive and respiratory syndrome virus replication during persistent infection of pigs originally exposed to virus in utero. Veterinary Microbiology, 2003, 96, 219-235.	1.9	77
9	Intracellular Localization of the Severe Acute Respiratory Syndrome Coronavirus Nucleocapsid Protein: Absence of Nucleolar Accumulation during Infection and after Expression as a Recombinant Protein in Vero Cells. Journal of Virology, 2005, 79, 11507-11512.	3.4	76
10	Detection of African Swine Fever Virus Antibodies in Serum and Oral Fluid Specimens Using a Recombinant Protein 30 (p30) Dual Matrix Indirect ELISA. PLoS ONE, 2016, 11, e0161230.	2.5	70
11	Genetically edited pigs lacking CD163 show no resistance following infection with the African swine fever virus isolate, Georgia 2007/1. Virology, 2017, 501, 102-106.	2.4	68
12	The interaction between PRRSV and the late gestation pig fetus. Virus Research, 2010, 154, 114-122.	2.2	64
13	Microbiome associations in pigs with the best and worst clinical outcomes following co-infection with porcine reproductive and respiratory syndrome virus (PRRSV) and porcine circovirus type 2 (PCV2). Veterinary Microbiology, 2016, 188, 1-11.	1.9	57
14	Half-Life of African Swine Fever Virus in Shipped Feed. Emerging Infectious Diseases, 2019, 25, 2261-2263.	4.3	56
15	Peptide domains involved in the localization of the porcine reproductive and respiratory syndrome virus nucleocapsid protein to the nucleolus. Virology, 2003, 316, 135-145.	2.4	54
16	A Single Amino Acid Deletion in the Matrix Protein of Porcine Reproductive and Respiratory Syndrome Virus Confers Resistance to a Polyclonal Swine Antibody with Broadly Neutralizing Activity. Journal of Virology, 2015, 89, 6515-6520.	3.4	54
17	GP5 of porcine reproductive and respiratory syndrome virus (PRRSV) as a target for homologous and broadly neutralizing antibodies. Veterinary Microbiology, 2017, 209, 90-96.	1.9	51
18	Adenovirus-vectored African Swine Fever Virus antigen cocktails are immunogenic but not protective against intranasal challenge with Georgia 2007/1 isolate. Veterinary Microbiology, 2019, 235, 10-20.	1.9	48

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19	Gene expression analysis of whole blood RNA from pigs infected with low and high pathogenic African swine fever viruses. Scientific Reports, 2017, 7, 10115.	3.3	45
20	Construction and characterization of a full-length cDNA infectious clone of emerging porcine Senecavirus A. Virology, 2016, 497, 111-124.	2.4	44
21	Not All SCID Pigs Are Created Equally: Two Independent Mutations in the Artemis Gene Cause SCID in Pigs. Journal of Immunology, 2015, 195, 3171-3179.	0.8	43
22	ORF5 of porcine reproductive and respiratory syndrome virus (PRRSV) is a target of diversifying selection as infection progresses from acute infection to virus rebound. Infection, Genetics and Evolution, 2016, 40, 167-175.	2.3	42
23	Evaluation of an African swine fever (ASF) vaccine strategy incorporating priming with an alphavirus-expressed antigen followed by boosting with attenuated ASF virus. Archives of Virology, 2019, 164, 359-370.	2.1	42
24	Development and characterization of monoclonal antibodies against p30 protein of African swine fever virus. Virus Research, 2019, 269, 197632.	2.2	41
25	Fecal Microbiota Transplantation Is Associated With Reduced Morbidity and Mortality in Porcine Circovirus Associated Disease. Frontiers in Microbiology, 2018, 9, 1631.	3.5	39
26	Genome-Wide Analysis of Antiviral Signature Genes in Porcine Macrophages at Different Activation Statuses. PLoS ONE, 2014, 9, e87613.	2.5	37
27	Comparison of host genetic factors influencing pig response to infection with two North American isolates of porcine reproductive and respiratory syndrome virus. Genetics Selection Evolution, 2016, 48, 43.	3.0	37
28	The use of cells from ANPEP knockout pigs to evaluate the role of aminopeptidase N (APN) as a receptor for porcine deltacoronavirus (PDCoV). Virology, 2020, 541, 136-140.	2.4	37
29	Tissue localization, shedding, virus carriage, antibody response, and aerosol transmission of Porcine epidemic diarrhea virus following inoculation of 4-week-old feeder pigs. Journal of Veterinary Diagnostic Investigation, 2016, 28, 671-678.	1.1	36
30	Quantitative Analysis of Porcine Reproductive and Respiratory Syndrome (PRRS) Viremia Profiles from Experimental Infection: A Statistical Modelling Approach. PLoS ONE, 2013, 8, e83567.	2.5	35
31	Increased microbiome diversity at the time of infection is associated with improved growth rates of pigs after co-infection with porcine reproductive and respiratory syndrome virus (PRRSV) and porcine circovirus type 2 (PCV2). Veterinary Microbiology, 2017, 208, 203-211.	1.9	35
32	Linear epitopes in African swine fever virus p72 recognized by monoclonal antibodies prepared against baculovirus-expressed antigen. Journal of Veterinary Diagnostic Investigation, 2018, 30, 406-412.	1.1	34
33	Antiviral Regulation in Porcine Monocytic Cells at Different Activation States. Journal of Virology, 2014, 88, 11395-11410.	3.4	32
34	Pathogenicity of three type 2 porcine reproductive and respiratory syndrome virus strains in experimentally inoculated pregnant gilts. Virus Research, 2015, 203, 24-35.	2.2	31
35	Development of a Blocking Enzyme-Linked Immunosorbent Assay for Detection of Antibodies against African Swine Fever Virus. Pathogens, 2021, 10, 760.	2.8	29
36	Stability of classical swine fever virus and pseudorabies virus in animal feed ingredients exposed to transpacific shipping conditions. Transboundary and Emerging Diseases, 2020, 67, 1623-1632.	3.0	28

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37	Application of a pathogen microarray for the analysis of viruses and bacteria in clinical diagnostic samples from pigs. Journal of Veterinary Diagnostic Investigation, 2015, 27, 313-325.	1.1	27
38	Vaccination with a Porcine Reproductive and Respiratory Syndrome (PRRS) Modified Live Virus Vaccine Followed by Challenge with PRRS Virus and Porcine Circovirus Type 2 (PCV2) Protects against PRRS but Enhances PCV2 Replication and Pathogenesis Compared to Results for Nonvaccinated Cochallenged Controls. Vaccine Journal, 2015, 22, 1244-1254.	3.1	27
39	Mitigating the risk of African swine fever virus in feed with antiâ€viral chemical additives. Transboundary and Emerging Diseases, 2021, 68, 477-486.	3.0	26
40	Knockout of maternal CD163 protects fetuses from infection with porcine reproductive and respiratory syndrome virus (PRRSV). Scientific Reports, 2017, 7, 13371.	3.3	24
41	Axiom Microbiome Array, the next generation microarray for high-throughput pathogen and microbiome analysis. PLoS ONE, 2019, 14, e0212045.	2.5	22
42	Biogenesis of non-structural protein 1 (nsp1) and nsp1-mediated type I interferon modulation in arteriviruses. Virology, 2014, 458-459, 136-150.	2.4	21
43	Use of multi-trait and random regression models to identify genetic variation in tolerance to porcine reproductive and respiratory syndrome virus. Genetics Selection Evolution, 2017, 49, 37.	3.0	20
44	Epitope mapping of African swine fever virus (ASFV) structural protein, p54. Virus Research, 2020, 279, 197871.	2.2	20
45	Analysis of the Role of N-Linked Glycosylation in Cell Surface Expression, Function, and Binding Properties of SARS-CoV-2 Receptor ACE2. Microbiology Spectrum, 2021, 9, e0119921.	3.0	19
46	Genomic regions associated with host response to porcine reproductive and respiratory syndrome vaccination and co-infection in nursery pigs. BMC Genomics, 2017, 18, 865.	2.8	18
47	Is There a Risk for Introducing Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) Through the Legal Importation of Pork?. Food and Environmental Virology, 2017, 9, 1-13.	3.4	15
48	Type I interferon suppression-negative and host mRNA nuclear retention-negative mutation in nsp1Î² confers attenuation of porcine reproductive and respiratory syndrome virus in pigs. Virology, 2018, 517, 177-187.	2.4	15
49	Genetic relationships of antibody response, viremia level, and weight gain in pigs experimentally infected with porcine reproductive and respiratory syndrome virus1. Journal of Animal Science, 2018, 96, 3565-3581.	0.5	14
50	Antigenic Regions of African Swine Fever Virus Phosphoprotein P30. Transboundary and Emerging Diseases, 2020, 67, 1942.	3.0	14
51	Multiplex Detection of IgG and IgM to Rift Valley Fever Virus Nucleoprotein, Nonstructural Proteins, and Glycoprotein in Ovine and Bovine. Vector-Borne and Zoonotic Diseases, 2016, 16, 550-557.	1.5	13
52	Gene expression in tonsils in swine following infection with porcine reproductive and respiratory syndrome virus. BMC Veterinary Research, 2021, 17, 88.	1.9	12
53	Porcine reproductive and respiratory syndrome virus replication and quasispecies evolution in pigs that lack adaptive immunity. Virus Research, 2015, 195, 246-249.	2.2	11
54	Harnessing longitudinal information to identify genetic variation in tolerance of pigs to Porcine Reproductive and Respiratory Syndrome virus infection. Genetics Selection Evolution, 2018, 50, 50.	3.0	11

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55	Mutations within scavenger receptor cysteine-rich (SRCR) protein domain 5 of porcine CD163 involved in infection with porcine reproductive and respiratory syndrome virus (PRRS). Journal of General Virology, 2022, 103, .	2.9	10
56	Double-stranded viral RNA persists in vitro and in vivo during prolonged infection of porcine reproductive and respiratory syndrome virus. Virology, 2018, 524, 78-89.	2.4	9
57	Identification of factors associated with virus level in tonsils of pigs experimentally infected with porcine reproductive and respiratory syndrome virus1. Journal of Animal Science, 2019, 97, 536-547.	0.5	9
58	Genomic prediction of piglet response to infection with one of two porcine reproductive and respiratory syndrome virus isolates. Genetics Selection Evolution, 2018, 50, 3.	3.0	8
59	Effect of bovine leukemia virus on bovine mammary epithelial cells. Virus Research, 2019, 271, 197678.	2.2	8
60	Alternative strategies for the control and elimination of PRRS. Veterinary Microbiology, 2017, 209, 1-4.	1.9	7
61	Disruption of anthrax toxin receptor 1 in pigs leads to a rare disease phenotype and protection from senecavirus A infection. Scientific Reports, 2022, 12, 5009.	3.3	7
62	Development and validation of a 4-plex antibody assay for simultaneous detection of IgG antibodies against Torque teno sus virus 1 (TTSuV1), TTSuV2, and porcine reproductive and respiratory syndrome virus types 1 and 2. Research in Veterinary Science, 2014, 96, 543-550.	1.9	6
63	Establishment of Systems to Enable Isolation of Porcine Monoclonal Antibodies Broadly Neutralizing the Porcine Reproductive and Respiratory Syndrome Virus. Frontiers in Immunology, 2019, 10, 572.	4.8	6
64	Associations of natural variation in the CD163 and other candidate genes on host response of nursery pigs to porcine reproductive and respiratory syndrome virus infection. Journal of Animal Science, 2021, 99, .	0.5	6
65	Antibiotic-Mediated Inhibition of Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) Infection: A Novel Quinolone Function Which Potentiates the Antiviral Cytokine Response in MARC-145 Cells and Pig Macrophages. Virology: Research and Treatment, 2008, 1, VRT.S527.	3.5	5
66	Animal Arterivirus Infections. BioMed Research International, 2014, 2014, 1-2.	1.9	5
67	CD3Îµ+ Cells in Pigs With Severe Combined Immunodeficiency Due to Defects in ARTEMIS. Frontiers in Immunology, 2020, 11, 510.	4.8	5
68	Gut microbiome associations with outcome following co-infection with porcine reproductive and respiratory syndrome virus (PRRSV) and porcine circovirus type 2 (PCV2) in pigs immunized with a PRRS modified live virus vaccine. Veterinary Microbiology, 2021, 254, 109018.	1.9	5
69	Thyroid hormone suppression in feeder pigs following polymicrobial or porcine reproductive and respiratory syndrome virus-2 challenge. Journal of Animal Science, 2021, 99, .	0.5	4
70	Amplification and selection of PRRSV-activated VDJ repertoires in pigs secreting distinct neutralizing antiboidies. Veterinary Immunology and Immunopathology, 2017, 189, 53-57.	1.2	2
71	Replicon Particle Expressing the E2 Glycoprotein of Bovine Viral Diarrhea Virus Immunization and Evaluation of Antibody Response. Viral Immunology, 2018, 31, 55-61.	1.3	2
72	E2 and Erns isotype-specific antibody responses in serum and oral fluid after infection with classical swine fever virus (CSFV). Veterinary Microbiology, 2019, 235, 265-269.	1.9	1

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73	Effect of the host genotype at a Porcine Reproductive and Respiratory Syndrome (PRRS) resistance marker on evolution of the modified-live PRRS vaccine virus in pigs. Virus Research, 2022, 316, 198809.	2.2	1
74	The NC229 multi-station research consortium on emerging viral diseases of swine: Solving stakeholder problems through innovative science and research. Virus Research, 2020, 280, 197898.	2.2	0
75	Deep Sequencing Details the Cross-over Map of Chimeric Genes in Two Porcine Reproductive and Respiratory Syndrome Virus Infectious Clones. The Open Virology Journal, 2017, 11, 49-58.	1.8	0