

Raymond R R Rowland

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

2,792
citations

159585

30
h-index

189892

50
g-index

76
all docs

76
docs citations

76
times ranked

2535
citing authors

#	ARTICLE	IF	CITATIONS
1	Disruption of anthrax toxin receptor 1 in pigs leads to a rare disease phenotype and protection from senecavirus A infection. <i>Scientific Reports</i> , 2022, 12, 5009.	3.3	7
2	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. <i>Virus Research</i> , 2022, 316, 198809.	2.2	1
3	Mutations within scavenger receptor cysteine-rich (SRCR) protein domain 5 of porcine CD163 involved in infection with porcine reproductive and respiratory syndrome virus (PRRS). <i>Journal of General Virology</i> , 2022, 103, .	2.9	10
4	Mitigating the risk of African swine fever virus in feed with anti-viral chemical additives. <i>Transboundary and Emerging Diseases</i> , 2021, 68, 477-486.	3.0	26
5	Gene expression in tonsils in swine following infection with porcine reproductive and respiratory syndrome virus. <i>BMC Veterinary Research</i> , 2021, 17, 88.	1.9	12
6	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. <i>Veterinary Microbiology</i> , 2021, 254, 109018.	1.9	5
7	Development of a Blocking Enzyme-Linked Immunosorbent Assay for Detection of Antibodies against African Swine Fever Virus. <i>Pathogens</i> , 2021, 10, 760.	2.8	29
8	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. <i>Journal of Animal Science</i> , 2021, 99, .	0.5	6
9	Analysis of the Role of N-Linked Glycosylation in Cell Surface Expression, Function, and Binding Properties of SARS-CoV-2 Receptor ACE2. <i>Microbiology Spectrum</i> , 2021, 9, e0119921.	3.0	19
10	Thyroid hormone suppression in feeder pigs following polymicrobial or porcine reproductive and respiratory syndrome virus-2 challenge. <i>Journal of Animal Science</i> , 2021, 99, .	0.5	4
11	The use of cells from ANPEP knockout pigs to evaluate the role of aminopeptidase N (APN) as a receptor for porcine deltacoronavirus (PDCoV). <i>Virology</i> , 2020, 541, 136-140.	2.4	37
12	Antigenic Regions of African Swine Fever Virus Phosphoprotein P30. <i>Transboundary and Emerging Diseases</i> , 2020, 67, 1942.	3.0	14
13	The NC229 multi-station research consortium on emerging viral diseases of swine: Solving stakeholder problems through innovative science and research. <i>Virus Research</i> , 2020, 280, 197898.	2.2	0
14	Epitope mapping of African swine fever virus (ASFV) structural protein, p54. <i>Virus Research</i> , 2020, 279, 197871.	2.2	20
15	Stability of classical swine fever virus and pseudorabies virus in animal feed ingredients exposed to transpacific shipping conditions. <i>Transboundary and Emerging Diseases</i> , 2020, 67, 1623-1632.	3.0	28
16	CD3 ⁺ Cells in Pigs With Severe Combined Immunodeficiency Due to Defects in ARTEMIS. <i>Frontiers in Immunology</i> , 2020, 11, 510.	4.8	5
17	E2 and Erns isotype-specific antibody responses in serum and oral fluid after infection with classical swine fever virus (CSFV). <i>Veterinary Microbiology</i> , 2019, 235, 265-269.	1.9	1
18	Effect of bovine leukemia virus on bovine mammary epithelial cells. <i>Virus Research</i> , 2019, 271, 197678.	2.2	8

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19	Adenovirus-vectored African Swine Fever Virus antigen cocktails are immunogenic but not protective against intranasal challenge with Georgia 2007/1 isolate. <i>Veterinary Microbiology</i> , 2019, 235, 10-20.	1.9	48
20	Development and characterization of monoclonal antibodies against p30 protein of African swine fever virus. <i>Virus Research</i> , 2019, 269, 197632.	2.2	41
21	Infectious Dose of African Swine Fever Virus When Consumed Naturally in Liquid or Feed. <i>Emerging Infectious Diseases</i> , 2019, 25, 891-897.	4.3	123
22	Establishment of Systems to Enable Isolation of Porcine Monoclonal Antibodies Broadly Neutralizing the Porcine Reproductive and Respiratory Syndrome Virus. <i>Frontiers in Immunology</i> , 2019, 10, 572.	4.8	6
23	Axiom Microbiome Array, the next generation microarray for high-throughput pathogen and microbiome analysis. <i>PLoS ONE</i> , 2019, 14, e0212045.	2.5	22
24	Half-Life of African Swine Fever Virus in Shipped Feed. <i>Emerging Infectious Diseases</i> , 2019, 25, 2261-2263.	4.3	56
25	Evaluation of an African swine fever (ASF) vaccine strategy incorporating priming with an alphavirus-expressed antigen followed by boosting with attenuated ASF virus. <i>Archives of Virology</i> , 2019, 164, 359-370.	2.1	42
26	Resistance to coronavirus infection in amino peptidase N-deficient pigs. <i>Transgenic Research</i> , 2019, 28, 21-32.	2.4	86
27	Identification of factors associated with virus level in tonsils of pigs experimentally infected with porcine reproductive and respiratory syndrome virus1. <i>Journal of Animal Science</i> , 2019, 97, 536-547.	0.5	9
28	Linear epitopes in African swine fever virus p72 recognized by monoclonal antibodies prepared against baculovirus-expressed antigen. <i>Journal of Veterinary Diagnostic Investigation</i> , 2018, 30, 406-412.	1.1	34
29	Genomic prediction of piglet response to infection with one of two porcine reproductive and respiratory syndrome virus isolates. <i>Genetics Selection Evolution</i> , 2018, 50, 3.	3.0	8
30	Replicon Particle Expressing the E2 Glycoprotein of Bovine Viral Diarrhea Virus Immunization and Evaluation of Antibody Response. <i>Viral Immunology</i> , 2018, 31, 55-61.	1.3	2
31	Harnessing longitudinal information to identify genetic variation in tolerance of pigs to Porcine Reproductive and Respiratory Syndrome virus infection. <i>Genetics Selection Evolution</i> , 2018, 50, 50.	3.0	11
32	Survival of viral pathogens in animal feed ingredients under transboundary shipping models. <i>PLoS ONE</i> , 2018, 13, e0194509.	2.5	139
33	Double-stranded viral RNA persists in vitro and in vivo during prolonged infection of porcine reproductive and respiratory syndrome virus. <i>Virology</i> , 2018, 524, 78-89.	2.4	9
34	Type I interferon suppression-negative and host mRNA nuclear retention-negative mutation in nsp1 ^{Δ2} confers attenuation of porcine reproductive and respiratory syndrome virus in pigs. <i>Virology</i> , 2018, 517, 177-187.	2.4	15
35	Fecal Microbiota Transplantation Is Associated With Reduced Morbidity and Mortality in Porcine Circovirus Associated Disease. <i>Frontiers in Microbiology</i> , 2018, 9, 1631.	3.5	39
36	Genetic relationships of antibody response, viremia level, and weight gain in pigs experimentally infected with porcine reproductive and respiratory syndrome virus1. <i>Journal of Animal Science</i> , 2018, 96, 3565-3581.	0.5	14

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37	GP5 of porcine reproductive and respiratory syndrome virus (PRRSV) as a target for homologous and broadly neutralizing antibodies. <i>Veterinary Microbiology</i> , 2017, 209, 90-96.	1.9	51
38	Genetically edited pigs lacking CD163 show no resistance following infection with the African swine fever virus isolate, Georgia 2007/1. <i>Virology</i> , 2017, 501, 102-106.	2.4	68
39	Alternative strategies for the control and elimination of PRRS. <i>Veterinary Microbiology</i> , 2017, 209, 1-4.	1.9	7
40	Knockout of maternal CD163 protects fetuses from infection with porcine reproductive and respiratory syndrome virus (PRRSV). <i>Scientific Reports</i> , 2017, 7, 13371.	3.3	24
41	Gene expression analysis of whole blood RNA from pigs infected with low and high pathogenic African swine fever viruses. <i>Scientific Reports</i> , 2017, 7, 10115.	3.3	45
42	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). <i>Veterinary Microbiology</i> , 2017, 208, 203-211.	1.9	35
43	Amplification and selection of PRRSV-activated VDJ repertoires in pigs secreting distinct neutralizing antibodies. <i>Veterinary Immunology and Immunopathology</i> , 2017, 189, 53-57.	1.2	2
44	Use of multi-trait and random regression models to identify genetic variation in tolerance to porcine reproductive and respiratory syndrome virus. <i>Genetics Selection Evolution</i> , 2017, 49, 37.	3.0	20
45	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. <i>Journal of Virology</i> , 2017, 91, .	3.4	94
46	Is There a Risk for Introducing Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) Through the Legal Importation of Pork?. <i>Food and Environmental Virology</i> , 2017, 9, 1-13.	3.4	15
47	Genomic regions associated with host response to porcine reproductive and respiratory syndrome vaccination and co-infection in nursery pigs. <i>BMC Genomics</i> , 2017, 18, 865.	2.8	18
48	Deep Sequencing Details the Cross-over Map of Chimeric Genes in Two Porcine Reproductive and Respiratory Syndrome Virus Infectious Clones. <i>The Open Virology Journal</i> , 2017, 11, 49-58.	1.8	0
49	Multiplex Detection of IgG and IgM to Rift Valley Fever Virus Nucleoprotein, Nonstructural Proteins, and Glycoprotein in Ovine and Bovine. <i>Vector-Borne and Zoonotic Diseases</i> , 2016, 16, 550-557.	1.5	13
50	Tissue localization, shedding, virus carriage, antibody response, and aerosol transmission of Porcine epidemic diarrhea virus following inoculation of 4-week-old feeder pigs. <i>Journal of Veterinary Diagnostic Investigation</i> , 2016, 28, 671-678.	1.1	36
51	Construction and characterization of a full-length cDNA infectious clone of emerging porcine Senecavirus A. <i>Virology</i> , 2016, 497, 111-124.	2.4	44
52	Comparison of host genetic factors influencing pig response to infection with two North American isolates of porcine reproductive and respiratory syndrome virus. <i>Genetics Selection Evolution</i> , 2016, 48, 43.	3.0	37
53	Gene-edited pigs are protected from porcine reproductive and respiratory syndrome virus. <i>Nature Biotechnology</i> , 2016, 34, 20-22.	17.5	383
54	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). <i>Veterinary Microbiology</i> , 2016, 188, 1-11.	1.9	57

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55	ORF5 of porcine reproductive and respiratory syndrome virus (PRRSV) is a target of diversifying selection as infection progresses from acute infection to virus rebound. <i>Infection, Genetics and Evolution</i> , 2016, 40, 167-175.	2.3	42
56	Detection of African Swine Fever Virus Antibodies in Serum and Oral Fluid Specimens Using a Recombinant Protein 30 (p30) Dual Matrix Indirect ELISA. <i>PLoS ONE</i> , 2016, 11, e0161230.	2.5	70
57	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. <i>Journal of Virology</i> , 2015, 89, 6515-6520.	3.4	54
58	Application of a pathogen microarray for the analysis of viruses and bacteria in clinical diagnostic samples from pigs. <i>Journal of Veterinary Diagnostic Investigation</i> , 2015, 27, 313-325.	1.1	27
59	Pathogenicity of three type 2 porcine reproductive and respiratory syndrome virus strains in experimentally inoculated pregnant gilts. <i>Virus Research</i> , 2015, 203, 24-35.	2.2	31
60	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. <i>Vaccine Journal</i> , 2015, 22, 1244-1254.	3.1	27
61	Not All SCID Pigs Are Created Equally: Two Independent Mutations in the <i>Artemis</i> Gene Cause SCID in Pigs. <i>Journal of Immunology</i> , 2015, 195, 3171-3179.	0.8	43
62	Porcine reproductive and respiratory syndrome virus replication and quasispecies evolution in pigs that lack adaptive immunity. <i>Virus Research</i> , 2015, 195, 246-249.	2.2	11
63	Genome-Wide Analysis of Antiviral Signature Genes in Porcine Macrophages at Different Activation Statuses. <i>PLoS ONE</i> , 2014, 9, e87613.	2.5	37
64	Animal Arterivirus Infections. <i>BioMed Research International</i> , 2014, 2014, 1-2.	1.9	5
65	Antiviral Regulation in Porcine Monocytic Cells at Different Activation States. <i>Journal of Virology</i> , 2014, 88, 11395-11410.	3.4	32
66	Biogenesis of non-structural protein 1 (nsp1) and nsp1-mediated type I interferon modulation in arteriviruses. <i>Virology</i> , 2014, 458-459, 136-150.	2.4	21
67	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. <i>Research in Veterinary Science</i> , 2014, 96, 543-550.	1.9	6
68	Quantitative Analysis of Porcine Reproductive and Respiratory Syndrome (PRRS) Viremia Profiles from Experimental Infection: A Statistical Modelling Approach. <i>PLoS ONE</i> , 2013, 8, e83567.	2.5	35
69	Control of porcine reproductive and respiratory syndrome (PRRS) through genetic improvements in disease resistance and tolerance. <i>Frontiers in Genetics</i> , 2012, 3, 260.	2.3	92
70	The interaction between PRRSV and the late gestation pig fetus. <i>Virus Research</i> , 2010, 154, 114-122.	2.2	64
71	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. <i>Virology: Research and Treatment</i> , 2008, 1, VRT.S527.	3.5	5
72	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. <i>Journal of Virology</i> , 2005, 79, 11507-11512.	3.4	76

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73	Lymphoid tissue tropism of porcine reproductive and respiratory syndrome virus replication during persistent infection of pigs originally exposed to virus in utero. <i>Veterinary Microbiology</i> , 2003, 96, 219-235.	1.9	77
74	Peptide domains involved in the localization of the porcine reproductive and respiratory syndrome virus nucleocapsid protein to the nucleolus. <i>Virology</i> , 2003, 316, 135-145.	2.4	54
75	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. <i>Virus Research</i> , 2003, 95, 23-33.	2.2	92