

# Xiang-Jin Meng

## List of Publications by Citations

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287 papers	19,794 citations	76 h-index	131 g-index
294 ext. papers	21,727 ext. citations	5.4 avg, IF	7.05 L-index

#	Paper	IF	Citations
287	A novel virus in swine is closely related to the human hepatitis E virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1997</b> , 94, 9860-5	11.5	899
286	A broadly reactive one-step real-time RT-PCR assay for rapid and sensitive detection of hepatitis E virus. <i>Journal of Virological Methods</i> , <b>2006</b> , 131, 65-71	2.6	549
285	Consensus proposals for classification of the family Hepeviridae. <i>Journal of General Virology</i> , <b>2014</b> , 95, 2223-2232	4.9	468
284	Comparison of the pathogenicity of two US porcine reproductive and respiratory syndrome virus isolates with that of the Lelystad virus. <i>Veterinary Pathology</i> , <b>1995</b> , 32, 648-60	2.8	452
283	Genetic and experimental evidence for cross-species infection by swine hepatitis E virus. <i>Journal of Virology</i> , <b>1998</b> , 72, 9714-21	6.6	447
282	Porcine circovirus type 2 associated disease: update on current terminology, clinical manifestations, pathogenesis, diagnosis, and intervention strategies. <i>Journal of Veterinary Diagnostic Investigation</i> , <b>2007</b> , 19, 591-615	1.5	444
281	Prevalence of antibodies to hepatitis E virus in veterinarians working with swine and in normal blood donors in the United States and other countries. <i>Journal of Clinical Microbiology</i> , <b>2002</b> , 40, 117-22	9.7	367
280	Hepatitis E virus: animal reservoirs and zoonotic risk. <i>Veterinary Microbiology</i> , <b>2010</b> , 140, 256-65	3.3	360
279	Origin, evolution, and genotyping of emergent porcine epidemic diarrhea virus strains in the United States. <i>MBio</i> , <b>2013</b> , 4, e00737-13	7.8	341
278	Heterogeneity of porcine reproductive and respiratory syndrome virus: implications for current vaccine efficacy and future vaccine development. <i>Veterinary Microbiology</i> , <b>2000</b> , 74, 309-29	3.3	298
277	Proposed reference sequences for hepatitis E virus subtypes. <i>Journal of General Virology</i> , <b>2016</b> , 97, 537-542	4.9	284
276	Detection and characterization of infectious Hepatitis E virus from commercial pig livers sold in local grocery stores in the USA. <i>Journal of General Virology</i> , <b>2007</b> , 88, 912-917	4.9	279
275	Detection by reverse transcription-PCR and genetic characterization of field isolates of swine hepatitis E virus from pigs in different geographic regions of the United States. <i>Journal of Clinical Microbiology</i> , <b>2002</b> , 40, 1326-32	9.7	273
274	Genetic identification and characterization of a novel virus related to human hepatitis E virus from chickens with hepatitis-splenomegaly syndrome in the United States. <i>Journal of General Virology</i> , <b>2001</b> , 82, 2449-2462	4.9	259
273	Wild boars as sources for infectious diseases in livestock and humans. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 2697-707	5.8	253
272	Comparative pathogenesis of infection of pigs with hepatitis E viruses recovered from a pig and a human. <i>Journal of Clinical Microbiology</i> , <b>2001</b> , 39, 918-23	9.7	246
271	Zoonotic hepatitis E: animal reservoirs and emerging risks. <i>Veterinary Research</i> , <b>2010</b> , 41, 46	3.8	242

270	Experimental reproduction of postweaning multisystemic wasting syndrome in pigs by dual infection with <i>Mycoplasma hyopneumoniae</i> and porcine circovirus type 2. <i>Veterinary Pathology</i> , <b>2004</b> , 41, 624-40	2.8	240
269	Phylogenetic analyses of the putative M (ORF 6) and N (ORF 7) genes of porcine reproductive and respiratory syndrome virus (PRRSV): implication for the existence of two genotypes of PRRSV in the U.S.A. and Europe. <i>Archives of Virology</i> , <b>1995</b> , 140, 745-55	2.6	230
268	From barnyard to food table: the omnipresence of hepatitis E virus and risk for zoonotic infection and food safety. <i>Virus Research</i> , <b>2011</b> , 161, 23-30	6.4	229
267	Evidence of extrahepatic sites of replication of the hepatitis E virus in a swine model. <i>Journal of Clinical Microbiology</i> , <b>2001</b> , 39, 3040-6	9.7	221
266	Determination and analysis of the complete genomic sequence of avian hepatitis E virus (avian HEV) and attempts to infect rhesus monkeys with avian HEV. <i>Journal of General Virology</i> , <b>2004</b> , 85, 1609-18	4.9	196
265	Experimental infection of pigs with the newly identified swine hepatitis E virus (swine HEV), but not with human strains of HEV. <i>Archives of Virology</i> , <b>1998</b> , 143, 1405-15	2.6	192
264	Identity of a novel swine hepatitis E virus in Taiwan forming a monophyletic group with Taiwan isolates of human hepatitis E virus. <i>Journal of Clinical Microbiology</i> , <b>1999</b> , 37, 3828-34	9.7	191
263	Genetic characterization of type 2 porcine circovirus (PCV-2) from pigs with postweaning multisystemic wasting syndrome in different geographic regions of North America and development of a differential PCR-restriction fragment length polymorphism assay to detect and differentiate between strains. <i>Journal of Clinical Microbiology</i> , <b>2000</b> , 38, 2494-503	9.7	181
262	Comparative pathogenicity of nine US porcine reproductive and respiratory syndrome virus (PRRSV) isolates in a five-week-old cesarean-derived, colostrum-deprived pig model. <i>Journal of Veterinary Diagnostic Investigation</i> , <b>1996</b> , 8, 11-20	1.5	179
261	Evidence for widespread infection of wild rats with hepatitis E virus in the United States. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>1999</b> , 61, 331-5	3.2	177
260	Cloned genomic DNA of type 2 porcine circovirus is infectious when injected directly into the liver and lymph nodes of pigs: characterization of clinical disease, virus distribution, and pathologic lesions. <i>Journal of Virology</i> , <b>2002</b> , 76, 541-51	6.6	176
259	Porcine circovirus type 2 and porcine circovirus-associated disease. <i>Journal of Veterinary Internal Medicine</i> , <b>2009</b> , 23, 1151-63	3.1	175
258	Hepatitis E virus: foodborne, waterborne and zoonotic transmission. <i>International Journal of Environmental Research and Public Health</i> , <b>2013</b> , 10, 4507-33	4.6	167
257	Zoonotic and foodborne transmission of hepatitis E virus. <i>Seminars in Liver Disease</i> , <b>2013</b> , 33, 41-9	7.3	162
256	Recent advances in Hepatitis E virus. <i>Journal of Viral Hepatitis</i> , <b>2010</b> , 17, 153-61	3.4	160
255	Epitope mapping of the major capsid protein of type 2 porcine circovirus (PCV2) by using chimeric PCV1 and PCV2. <i>Journal of Virology</i> , <b>2004</b> , 78, 8135-45	6.6	154
254	Comparison of the antigen distribution of two US porcine reproductive and respiratory syndrome virus isolates with that of the Lelystad virus. <i>Veterinary Pathology</i> , <b>1996</b> , 33, 159-70	2.8	154
253	ICTV Virus Taxonomy Profile: Hepeviridae. <i>Journal of General Virology</i> , <b>2017</b> , 98, 2645-2646	4.9	154

252	A chimeric porcine circovirus (PCV) with the immunogenic capsid gene of the pathogenic PCV type 2 (PCV2) cloned into the genomic backbone of the nonpathogenic PCV1 induces protective immunity against PCV2 infection in pigs. <i>Journal of Virology</i> , <b>2004</b> , 78, 6297-303	6.6	153
251	Prevalence of antibodies to the hepatitis E virus in pigs from countries where hepatitis E is common or is rare in the human population. <i>Journal of Medical Virology</i> , <b>1999</b> , 59, 297-302	19.7	146
250	Effect of vaccination with selective bacterins on conventional pigs infected with type 2 porcine circovirus. <i>Veterinary Pathology</i> , <b>2003</b> , 40, 521-9	2.8	143
249	Porcine circovirus type 2 (PCV2): pathogenesis and interaction with the immune system. <i>Annual Review of Animal Biosciences</i> , <b>2013</b> , 1, 43-64	13.7	141
248	Identification of genotype 3 hepatitis E virus (HEV) in serum and fecal samples from pigs in Thailand and Mexico, where genotype 1 and 2 HEV strains are prevalent in the respective human populations. <i>Journal of Clinical Microbiology</i> , <b>2005</b> , 43, 1684-8	9.7	141
247	Novel strains of hepatitis E virus identified from humans and other animal species: is hepatitis E a zoonosis?. <i>Journal of Hepatology</i> , <b>2000</b> , 33, 842-5	13.4	137
246	Zoonotic origin of hepatitis E. <i>Current Opinion in Virology</i> , <b>2015</b> , 10, 34-41	7.5	135
245	Efficacy and future prospects of commercially available and experimental vaccines against porcine circovirus type 2 (PCV2). <i>Virus Research</i> , <b>2012</b> , 164, 33-42	6.4	134
244	Initiation at the third in-frame AUG codon of open reading frame 3 of the hepatitis E virus is essential for viral infectivity in vivo. <i>Journal of Virology</i> , <b>2007</b> , 81, 3018-26	6.6	128
243	Recombinant hepatitis E virus genomes infectious for primates: importance of capping and discovery of a cis-reactive element. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 15270-5	11.5	126
242	Comparison of molecular and biological characteristics of a modified live porcine reproductive and respiratory syndrome virus (PRRSV) vaccine (ingelvac PRRS MLV), the parent strain of the vaccine (ATCC VR2332), ATCC VR2385, and two recent field isolates of PRRSV. <i>Journal of Virology</i> , <b>2002</b> , 76, 11837-44	6.6	125
241	Swine hepatitis E virus: cross-species infection and risk in xenotransplantation. <i>Current Topics in Microbiology and Immunology</i> , <b>2003</b> , 278, 185-216	3.3	124
240	Molecular cloning and nucleotide sequencing of the 3'Sterminal genomic RNA of the porcine reproductive and respiratory syndrome virus. <i>Journal of General Virology</i> , <b>1994</b> , 75 ( Pt 7), 1795-801	4.9	122
239	Hepatitis E virus in rabbits, Virginia, USA. <i>Emerging Infectious Diseases</i> , <b>2011</b> , 17, 2047-9	10.2	120
238	Heterogeneity and seroprevalence of a newly identified avian hepatitis e virus from chickens in the United States. <i>Journal of Clinical Microbiology</i> , <b>2002</b> , 40, 4197-202	9.7	115
237	Standardization of hepatitis E virus (HEV) nucleic acid amplification technique-based assays: an initial study to evaluate a panel of HEV strains and investigate laboratory performance. <i>Journal of Clinical Microbiology</i> , <b>2011</b> , 49, 1234-9	9.7	114
236	Immunogenicity and pathogenicity of chimeric infectious DNA clones of pathogenic porcine circovirus type 2 (PCV2) and nonpathogenic PCV1 in weanling pigs. <i>Journal of Virology</i> , <b>2003</b> , 77, 11232-43	6.6	112
235	Sequence comparison of open reading frames 2 to 5 of low and high virulence United States isolates of porcine reproductive and respiratory syndrome virus. <i>Journal of General Virology</i> , <b>1995</b> , 76 ( Pt 12), 3181-8	4.9	111

234	Inactivation of infectious hepatitis E virus present in commercial pig livers sold in local grocery stores in the United States. <i>International Journal of Food Microbiology</i> , <b>2008</b> , 123, 32-7	5.8	104
233	Differences in virulence among porcine circovirus type 2 isolates are unrelated to cluster type 2a or 2b and prior infection provides heterologous protection. <i>Journal of General Virology</i> , <b>2008</b> , 89, 2482-2491	4.9	102
232	Immunohistochemical identification of porcine reproductive and respiratory syndrome virus (PRRSV) antigen in the heart and lymphoid system of three-week-old colostrum-deprived pigs. <i>Veterinary Pathology</i> , <b>1995</b> , 32, 200-4	2.8	101
231	Molecular biology and replication of hepatitis E virus. <i>Emerging Microbes and Infections</i> , <b>2012</b> , 1, e17	18.9	100
230	Cross-species infection of pigs with a novel rabbit, but not rat, strain of hepatitis E virus isolated in the United States. <i>Journal of General Virology</i> , <b>2012</b> , 93, 1687-1695	4.9	99
229	Routes of transmission of swine hepatitis E virus in pigs. <i>Journal of Clinical Microbiology</i> , <b>2004</b> , 42, 5047-5057	5.7	99
228	Molecular characterization of porcine TT virus, an orphan virus, in pigs from six different countries. <i>Veterinary Microbiology</i> , <b>2004</b> , 104, 113-7	3.3	98
227	Evidence that the genomic RNA of hepatitis E virus is capped. <i>Journal of Virology</i> , <b>1999</b> , 73, 8848-50	6.6	98
226	Spread of hepatitis E virus among different-aged pigs: two-year survey in Taiwan. <i>Journal of Medical Virology</i> , <b>2002</b> , 66, 488-92	19.7	97
225	PATRIC: the VBI PathoSystems Resource Integration Center. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, D401-6	20.1	96
224	Systematic pathogenesis and replication of avian hepatitis E virus in specific-pathogen-free adult chickens. <i>Journal of Virology</i> , <b>2005</b> , 79, 3429-37	6.6	96
223	Two amino acid mutations in the capsid protein of type 2 porcine circovirus (PCV2) enhanced PCV2 replication in vitro and attenuated the virus in vivo. <i>Journal of Virology</i> , <b>2004</b> , 78, 13440-6	6.6	94
222	Hepatitis E virus (HEV) capsid antigens derived from viruses of human and swine origin are equally efficient for detecting anti-HEV by enzyme immunoassay. <i>Journal of Clinical Microbiology</i> , <b>2002</b> , 40, 4576-80	9.7	92
221	Update: proposed reference sequences for subtypes of hepatitis E virus (species ). <i>Journal of General Virology</i> , <b>2020</b> , 101, 692-698	4.9	92
220	Cross-species infection of specific-pathogen-free pigs by a genotype 4 strain of human hepatitis E virus. <i>Journal of Medical Virology</i> , <b>2008</b> , 80, 1379-86	19.7	88
219	Live porcine reproductive and respiratory syndrome virus vaccines: Current status and future direction. <i>Vaccine</i> , <b>2015</b> , 33, 4069-80	4.1	85
218	Evidence of breed-dependent differences in susceptibility to porcine circovirus type-2-associated disease and lesions. <i>Veterinary Pathology</i> , <b>2006</b> , 43, 281-93	2.8	85
217	The putative capsid protein of the newly identified avian hepatitis E virus shares antigenic epitopes with that of swine and human hepatitis E viruses and chicken big liver and spleen disease virus. <i>Journal of General Virology</i> , <b>2002</b> , 83, 2201-2209	4.9	85

216	Development of a streptavidin-biotin immunoperoxidase procedure for the detection of porcine reproductive and respiratory syndrome virus antigen in porcine lung. <i>Journal of Veterinary Diagnostic Investigation</i> , <b>1994</b> , 6, 254-7	1.5	81
215	Novel strategies and approaches to develop the next generation of vaccines against porcine reproductive and respiratory syndrome virus (PRRSV). <i>Virus Research</i> , <b>2010</b> , 154, 141-9	6.4	80
214	Emerging and re-emerging swine viruses. <i>Transboundary and Emerging Diseases</i> , <b>2012</b> , 59 Suppl 1, 85-102.	4.2	79
213	Infectious swine hepatitis E virus is present in pig manure storage facilities on United States farms, but evidence of water contamination is lacking. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 7831-7	4.8	79
212	Systematic Pathogenesis and Replication of Avian Hepatitis E Virus in Specific-Pathogen-Free Adult Chickens. <i>Journal of Virology</i> , <b>2006</b> , 80, 6721-6721	6.6	78
211	Influence of maternal antibodies on efficacy of porcine circovirus type 2 (PCV2) vaccination to protect pigs from experimental infection with PCV2. <i>Vaccine Journal</i> , <b>2008</b> , 15, 397-401		76
210	Genetic and experimental comparison of porcine circovirus type 2 (PCV2) isolates from cases with and without PCV2-associated lesions provides evidence for differences in virulence. <i>Journal of General Virology</i> , <b>2006</b> , 87, 2923-2932	4.9	76
209	Genetic variation and phylogenetic analyses of the ORF5 gene of acute porcine reproductive and respiratory syndrome virus isolates. <i>Veterinary Microbiology</i> , <b>2001</b> , 83, 249-63	3.3	76
208	Porcine circoviruses: a minuscule yet mammoth paradox. <i>Animal Health Research Reviews</i> , <b>2009</b> , 10, 1-20.	2.1	74
207	Reproductive failure experimentally induced in sows via artificial insemination with semen spiked with porcine circovirus type 2. <i>Veterinary Pathology</i> , <b>2009</b> , 46, 707-16	2.8	71
206	Deletions of the hypervariable region (HVR) in open reading frame 1 of hepatitis E virus do not abolish virus infectivity: evidence for attenuation of HVR deletion mutants in vivo. <i>Journal of Virology</i> , <b>2009</b> , 83, 384-95	6.6	70
205	Generation and infectivity titration of an infectious stock of avian hepatitis E virus (HEV) in chickens and cross-species infection of turkeys with avian HEV. <i>Journal of Clinical Microbiology</i> , <b>2004</b> , 42, 2658-62	9.7	70
204	Fate and transport of zoonotic, bacterial, viral, and parasitic pathogens during swine manure treatment, storage, and land application. <i>Journal of Animal Science</i> , <b>2010</b> , 88, E84-94	0.7	65
203	Effects of porcine circovirus type 2 (PCV2) maternal antibodies on experimental infection of piglets with PCV2. <i>Vaccine Journal</i> , <b>2005</b> , 12, 1347-51		65
202	Expanding Host Range and Cross-Species Infection of Hepatitis E Virus. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005695	6.5	65
201	Genetic identification of avian hepatitis E virus (HEV) from healthy chicken flocks and characterization of the capsid gene of 14 avian HEV isolates from chickens with hepatitis-splenomegaly syndrome in different geographical regions of the United States. <i>Journal of General Virology</i> , <b>2001</b> , 82, 623-30	4.9	64
200	Effect of porcine parvovirus vaccination on the development of PMWS in segregated early weaned pigs coinfectd with type 2 porcine circovirus and porcine parvovirus. <i>Veterinary Microbiology</i> , <b>2004</b> , 98, 209-20	3.3	64
199	Restricted enzooticity of hepatitis E virus genotypes 1 to 4 in the United States. <i>Journal of Clinical Microbiology</i> , <b>2011</b> , 49, 4164-72	9.7	63



198	Comparison of the effectiveness of passive (dam) versus active (piglet) immunization against porcine circovirus type 2 (PCV2) and impact of passively derived PCV2 vaccine-induced immunity on vaccination. <i>Veterinary Microbiology</i> , <b>2010</b> , 142, 177-83	3.3	63
197	Differences in susceptibility of Duroc, Hampshire, and Meishan pigs to infection with a high virulence strain (VR2385) of porcine reproductive and respiratory syndrome virus (PRRSV). <i>Journal of Animal Breeding and Genetics</i> , <b>1998</b> , 115, 181-189	2.9	61
196	Capped RNA transcripts of full-length cDNA clones of swine hepatitis E virus are replication competent when transfected into Huh7 cells and infectious when intrahepatically inoculated into pigs. <i>Journal of Virology</i> , <b>2005</b> , 79, 1552-8	6.6	60
195	Inactivated and subunit vaccines against porcine reproductive and respiratory syndrome: Current status and future direction. <i>Vaccine</i> , <b>2015</b> , 33, 3065-72	4.1	59
194	Antigenic cross-reactivity between the nucleocapsid protein of severe acute respiratory syndrome (SARS) coronavirus and polyclonal antisera of antigenic group I animal coronaviruses: implication for SARS diagnosis. <i>Journal of Clinical Microbiology</i> , <b>2004</b> , 42, 2351-2	9.7	57
193	The nucleotides on the stem-loop RNA structure in the junction region of the hepatitis E virus genome are critical for virus replication. <i>Journal of Virology</i> , <b>2010</b> , 84, 13040-4	6.6	56
192	Hepatitis Virus Infections in Poultry. <i>Avian Diseases</i> , <b>2016</b> , 60, 576-88	1.6	56
191	Hepatitis E Virus Genome Structure and Replication Strategy. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2019</b> , 9,	5.4	56
190	Evidence of widespread infection of avian hepatitis E virus (avian HEV) in chickens from Spain. <i>Veterinary Microbiology</i> , <b>2009</b> , 137, 31-6	3.3	55
189	Mutational analysis of the hypervariable region of hepatitis e virus reveals its involvement in the efficiency of viral RNA replication. <i>Journal of Virology</i> , <b>2011</b> , 85, 10031-40	6.6	55
188	Multiple infection of porcine Torque teno virus in a single pig and characterization of the full-length genomic sequences of four U.S. prototype PTTV strains: implication for genotyping of PTTV. <i>Virology</i> , <b>2010</b> , 396, 289-97	3.6	55
187	Identification of B-cell epitopes in the capsid protein of avian hepatitis E virus (avian HEV) that are common to human and swine HEVs or unique to avian HEV. <i>Journal of General Virology</i> , <b>2006</b> , 87, 217-224	4.9	55
186	Pig model mimicking chronic hepatitis E virus infection in immunocompromised patients to assess immune correlates during chronicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 6914-6923	11.5	53
185	Peptide-conjugated morpholino oligomers inhibit porcine reproductive and respiratory syndrome virus replication. <i>Antiviral Research</i> , <b>2008</b> , 77, 95-107	10.8	53
184	Computer-aided codon-pairs deoptimization of the major envelope GP5 gene attenuates porcine reproductive and respiratory syndrome virus. <i>Virology</i> , <b>2014</b> , 450-451, 132-9	3.6	52
183	Pathogenetic elements of hepatitis E and animal models of HEV infection. <i>Virus Research</i> , <b>2011</b> , 161, 78-83	6.4	52
182	Porcine circovirus type 2 infection decreases the efficacy of a modified live porcine reproductive and respiratory syndrome virus vaccine. <i>Vaccine Journal</i> , <b>2006</b> , 13, 923-9		51
181	Experimental infection of pregnant gilts with swine hepatitis E virus. <i>Canadian Journal of Veterinary Research</i> , <b>2003</b> , 67, 303-6		51

180	Prevalence of antibodies to the hepatitis E virus in pigs from countries where hepatitis E is common or is rare in the human population. <i>Journal of Medical Virology</i> , <b>1999</b> , 59, 297-302	19.7	51
179	Ten years of PCV2 vaccines and vaccination: Is eradication a possibility?. <i>Veterinary Microbiology</i> , <b>2017</b> , 206, 21-28	3.3	50
178	Use of a swine bioassay and a RT-PCR assay to assess the risk of transmission of swine hepatitis E virus in pigs. <i>Journal of Virological Methods</i> , <b>2002</b> , 101, 71-8	2.6	50
177	A nested set of six or seven subgenomic mRNAs is formed in cells infected with different isolates of porcine reproductive and respiratory syndrome virus. <i>Journal of General Virology</i> , <b>1996</b> , 77 ( Pt 6), 1265-70	4.9	50
176	Comparison of commercial and experimental porcine circovirus type 2 (PCV2) vaccines using a triple challenge with PCV2, porcine reproductive and respiratory syndrome virus (PRRSV), and porcine parvovirus (PPV). <i>Vaccine</i> , <b>2010</b> , 28, 5960-6	4.1	49
175	Novel chimeric porcine circovirus (PCV) with the capsid gene of the emerging PCV2b subtype cloned in the genomic backbone of the non-pathogenic PCV1 is attenuated in vivo and induces protective and cross-protective immunity against PCV2b and PCV2a subtypes in pigs. <i>Vaccine</i> , <b>2010</b> , 28, 3831-38	4.1	48
174	A PCV2 vaccine based on genotype 2b is more effective than a 2a-based vaccine to protect against PCV2b or combined PCV2a/2b viremia in pigs with concurrent PCV2, PRRSV and PPV infection. <i>Vaccine</i> , <b>2013</b> , 31, 487-94	4.1	47
173	Characterization of a high-virulence US isolate of porcine reproductive and respiratory syndrome virus in a continuous cell line, ATCC CRL11171. <i>Journal of Veterinary Diagnostic Investigation</i> , <b>1996</b> , 8, 374-81	1.5	47
172	Porcine DC-SIGN: molecular cloning, gene structure, tissue distribution and binding characteristics. <i>Developmental and Comparative Immunology</i> , <b>2009</b> , 33, 464-80	3.2	46
171	Suppression of porcine reproductive and respiratory syndrome virus replication by morpholino antisense oligomers. <i>Veterinary Microbiology</i> , <b>2006</b> , 117, 117-29	3.3	46
170	Establishment of a DNA-launched infectious clone for a highly pneumovirulent strain of type 2 porcine reproductive and respiratory syndrome virus: identification and in vitro and in vivo characterization of a large spontaneous deletion in the nsp2 region. <i>Virus Research</i> , <b>2011</b> , 160, 264-73	6.4	45
169	Commercial PCV2a-based vaccines are effective in protecting naturally PCV2b-infected finisher pigs against experimental challenge with a 2012 mutant PCV2. <i>Vaccine</i> , <b>2014</b> , 32, 4342-8	4.1	44
168	Serological evidence for a hepatitis e virus-related agent in goats in the United States. <i>Transboundary and Emerging Diseases</i> , <b>2013</b> , 60, 538-45	4.2	43
167	Temporal and morphologic characterization of the distribution of porcine reproductive and respiratory syndrome virus (PRRSV) by in situ hybridization in pigs infected with isolates of PRRSV that differ in virulence. <i>Veterinary Pathology</i> , <b>1997</b> , 34, 39-43	2.8	43
166	A commercial porcine circovirus (PCV) type 2a-based vaccine reduces PCV2d viremia and shedding and prevents PCV2d transmission to naïve pigs under experimental conditions. <i>Vaccine</i> , <b>2017</b> , 35, 248-254	4.1	42
165	The open reading frame 3 (ORF3) of porcine circovirus type 2 (PCV2) is dispensable for virus infection but evidence of reduced pathogenicity is limited in pigs infected by an ORF3-null PCV2 mutant. <i>Virus Research</i> , <b>2010</b> , 147, 60-6	6.4	41
164	Infectivity of porcine circovirus type 2 DNA in semen from experimentally-infected boars. <i>Veterinary Research</i> , <b>2009</b> , 40, 10	3.8	41
163	Serological prevalence, genetic identification, and characterization of the first strains of avian hepatitis E virus from chickens in Korea. <i>Virus Genes</i> , <b>2012</b> , 45, 237-45	2.3	40



162	Rescue of a genotype 4 human hepatitis E virus from cloned cDNA and characterization of intergenotypic chimeric viruses in cultured human liver cells and in pigs. <i>Journal of General Virology</i> , <b>2012</b> , 93, 2183-2194	4.9	40
161	The PSAP motif within the ORF3 protein of an avian strain of the hepatitis E virus is not critical for viral infectivity in vivo but plays a role in virus release. <i>Journal of Virology</i> , <b>2012</b> , 86, 5637-46	6.6	40
160	Prior infection of pigs with a genotype 3 swine hepatitis E virus (HEV) protects against subsequent challenges with homologous and heterologous genotypes 3 and 4 human HEV. <i>Virus Research</i> , <b>2011</b> , 159, 17-22	6.4	39
159	Characterization of shedding patterns of Porcine circovirus types 2a and 2b in experimentally inoculated mature boars. <i>Journal of Veterinary Diagnostic Investigation</i> , <b>2008</b> , 20, 725-34	1.5	39
158	Association of hepatitis E virus (HEV) and postweaning multisystemic wasting syndrome (PMWS) with lesions of hepatitis in pigs. <i>Veterinary Microbiology</i> , <b>2007</b> , 122, 16-24	3.3	39
157	Risk factors and sources of foodborne hepatitis E virus infection in the United States. <i>Journal of Medical Virology</i> , <b>2016</b> , 88, 1641-5	19.7	39
156	Porcine circovirus type 2 (PCV2)-infection and re-inoculation with homologous or heterologous strains: virological, serological, pathological and clinical effects in growing pigs. <i>Veterinary Research</i> , <b>2010</b> , 41, 31	3.8	38
155	Naturally occurring animal models of human hepatitis E virus infection. <i>ILAR Journal</i> , <b>2014</b> , 55, 187-99	1.7	37
154	DNA shuffling of the GP3 genes of porcine reproductive and respiratory syndrome virus (PRRSV) produces a chimeric virus with an improved cross-neutralizing ability against a heterologous PRRSV strain. <i>Virology</i> , <b>2012</b> , 434, 96-109	3.6	37
153	Hepatitis E virus replication requires an active ubiquitin-proteasome system. <i>Journal of Virology</i> , <b>2012</b> , 86, 5948-52	6.6	37
152	Expression of the putative ORF1 capsid protein of Torque teno sus virus 2 (TTSuV2) and development of Western blot and ELISA serodiagnostic assays: correlation between TTSuV2 viral load and IgG antibody level in pigs. <i>Virus Research</i> , <b>2011</b> , 158, 79-88	6.4	36
151	Development and validation of a negative-strand-specific reverse transcription-PCR assay for detection of a chicken strain of hepatitis E virus: identification of nonliver replication sites. <i>Journal of Clinical Microbiology</i> , <b>2008</b> , 46, 2630-4	9.7	36
150	Construction and characterization of infectious cDNA clones of a chicken strain of hepatitis E virus (HEV), avian HEV. <i>Journal of General Virology</i> , <b>2005</b> , 86, 2585-2593	4.9	36
149	A novel pathogenic Mammalian orthoreovirus from diarrhetic pigs and Swine blood meal in the United States. <i>MBio</i> , <b>2015</b> , 6, e00593-15	7.8	35
148	Complete genome sequence of hepatitis E virus from rabbits in the United States. <i>Journal of Virology</i> , <b>2012</b> , 86, 13124-5	6.6	35
147	Porcine reproductive and respiratory syndrome virus (PRRSV) influences infection dynamics of porcine circovirus type 2 (PCV2) subtypes PCV2a and PCV2b by prolonging PCV2 viremia and shedding. <i>Veterinary Microbiology</i> , <b>2011</b> , 152, 235-46	3.3	35
146	Effect of porcine circovirus type 2 (PCV2) vaccination of the dam on PCV2 replication in utero. <i>Vaccine Journal</i> , <b>2009</b> , 16, 830-4		35
145	Mutant USA strain of porcine circovirus type 2 (mPCV2) exhibits similar virulence to the classical PCV2a and PCV2b strains in caesarean-derived, colostrum-deprived pigs. <i>Journal of General Virology</i> , <b>2014</b> , 95, 2495-2503	4.9	34

144	Intergenotypic chimeric hepatitis E viruses (HEVs) with the genotype 4 human HEV capsid gene in the backbone of genotype 3 swine HEV are infectious in pigs. <i>Virus Research</i> , <b>2011</b> , 156, 141-6	6.4	34
143	Analysis of the complete genomic sequence of an apparently avirulent strain of avian hepatitis E virus (avian HEV) identified major genetic differences compared with the prototype pathogenic strain of avian HEV. <i>Journal of General Virology</i> , <b>2007</b> , 88, 1538-1544	4.9	34
142	Difference in severity of porcine circovirus type two-induced pathological lesions between Landrace and Pietrain pigs. <i>Journal of Animal Science</i> , <b>2009</b> , 87, 1582-90	0.7	33
141	A dual vaccine candidate against norovirus and hepatitis E virus. <i>Vaccine</i> , <b>2014</b> , 32, 445-52	4.1	31
140	The prevalence of Torque teno sus virus (TTSuV) is common and increases with the age of growing pigs in the United States. <i>Journal of Virological Methods</i> , <b>2012</b> , 183, 40-4	2.6	31
139	Attenuation of porcine reproductive and respiratory syndrome virus by molecular breeding of virus envelope genes from genetically divergent strains. <i>Journal of Virology</i> , <b>2013</b> , 87, 304-13	6.6	31
138	Effects of the timing of the administration of Mycoplasma hyopneumoniae bacterin on the development of lesions associated with porcine circovirus type 2. <i>Veterinary Record</i> , <b>2006</b> , 158, 149-54	0.9	30
137	The lysine residues within the human ribosomal protein S17 sequence naturally inserted into the viral nonstructural protein of a unique strain of hepatitis E virus are important for enhanced virus replication. <i>Journal of Virology</i> , <b>2015</b> , 89, 3793-803	6.6	29
136	Interferon-mediated enhancement of in vitro replication of porcine circovirus type 2 is influenced by an interferon-stimulated response element in the PCV2 genome. <i>Virus Research</i> , <b>2009</b> , 145, 236-43	6.4	29
135	Egg whites from eggs of chickens infected experimentally with avian hepatitis E virus contain infectious virus, but evidence of complete vertical transmission is lacking. <i>Journal of General Virology</i> , <b>2007</b> , 88, 1532-1537	4.9	29
134	Inhibition of porcine reproductive and respiratory syndrome virus infection in piglets by a peptide-conjugated morpholino oligomer. <i>Antiviral Research</i> , <b>2011</b> , 91, 36-42	10.8	28
133	Development and validation of a duplex real-time PCR assay for the simultaneous detection and quantification of porcine circovirus type 2 and an internal control on porcine semen samples. <i>Journal of Virological Methods</i> , <b>2008</b> , 149, 217-25	2.6	28
132	Detection and in vitro and in vivo characterization of porcine circovirus DNA from a porcine-derived commercial pepsin product. <i>Journal of General Virology</i> , <b>2004</b> , 85, 3377-3382	4.9	27
131	Virome of US bovine calf serum. <i>Biologicals</i> , <b>2017</b> , 46, 64-67	1.8	26
130	Replacement of the hepatitis E virus ORF3 protein PxxP motif with heterologous late domain motifs affects virus release via interaction with TSG101. <i>Virology</i> , <b>2015</b> , 486, 198-208	3.6	26
129	Experimental reproduction of porcine circovirus type 2 (PCV2)-associated enteritis in pigs infected with PCV2 alone or concurrently with Lawsonia intracellularis or Salmonella typhimurium. <i>Journal of Comparative Pathology</i> , <b>2011</b> , 145, 261-70	1	26
128	Effect of an interferon-stimulated response element (ISRE) mutant of porcine circovirus type 2 (PCV2) on PCV2-induced pathological lesions in a porcine reproductive and respiratory syndrome virus (PRRSV) co-infection model. <i>Veterinary Microbiology</i> , <b>2011</b> , 147, 49-58	3.3	26
127	Shedding and infection dynamics of porcine circovirus type 2 (PCV2) after experimental infection. <i>Veterinary Microbiology</i> , <b>2011</b> , 149, 91-8	3.3	26

126	Replacement of the replication factors of porcine circovirus (PCV) type 2 with those of PCV type 1 greatly enhances viral replication in vitro. <i>Journal of Virology</i> , <b>2010</b> , 84, 8986-9	6.6	26
125	Sequence analysis of open reading frames (ORFs) 2 to 4 of a U.S. isolate of porcine reproductive and respiratory syndrome virus. <i>Archives of Virology</i> , <b>1995</b> , 140, 1313-9	2.6	26
124	Immunogenicity study of plant-made oral subunit vaccine against porcine reproductive and respiratory syndrome virus (PRRSV). <i>Vaccine</i> , <b>2012</b> , 30, 2068-74	4.1	25
123	Porcine circovirus type 2 (PCV2) vaccination is effective in reducing disease and PCV2 shedding in semen of boars concurrently infected with PCV2 and <i>Mycoplasma hyopneumoniae</i> . <i>Theriogenology</i> , <b>2011</b> , 76, 351-60	2.8	25
122	ISG15 Modulates Type I Interferon Signaling and the Antiviral Response during Hepatitis E Virus Replication. <i>Journal of Virology</i> , <b>2017</b> , 91,	6.6	24
121	Chimeric porcine circoviruses (PCV) containing amino acid epitope tags in the C terminus of the capsid gene are infectious and elicit both anti-epitope tag antibodies and anti-PCV type 2 neutralizing antibodies in pigs. <i>Journal of Virology</i> , <b>2011</b> , 85, 4591-5	6.6	24
120	Hepatitis E virus: reasons for emergence in humans. <i>Current Opinion in Virology</i> , <b>2019</b> , 34, 10-17	7.5	24
119	Productive infection of human hepatocellular carcinoma cells by porcine circovirus type 1. <i>Vaccine</i> , <b>2011</b> , 29, 7303-6	4.1	23
118	Comparison of 12 turkey hemorrhagic enteritis virus isolates allows prediction of genetic factors affecting virulence. <i>Journal of General Virology</i> , <b>2009</b> , 90, 1978-1985	4.9	23
117	Porcine circovirus type 2 in muscle and bone marrow is infectious and transmissible to naïve pigs by oral consumption. <i>Veterinary Microbiology</i> , <b>2009</b> , 133, 54-64	3.3	23
116	Rescue of a porcine anellovirus (torque teno sus virus 2) from cloned genomic DNA in pigs. <i>Journal of Virology</i> , <b>2012</b> , 86, 6042-54	6.6	23
115	A trivalent vaccine candidate against hepatitis E virus, norovirus, and astrovirus. <i>Vaccine</i> , <b>2016</b> , 34, 905-13	4.1	22
114	Comparison of commercial real-time reverse transcription-PCR assays for reliable, early, and rapid detection of heterologous strains of porcine reproductive and respiratory syndrome virus in experimentally infected or noninfected boars by use of different sample types. <i>Journal of Clinical Microbiology</i> , <b>2013</b> , 51, 547-56	9.7	22
113	Broadening the heterologous cross-neutralizing antibody inducing ability of porcine reproductive and respiratory syndrome virus by breeding the GP4 or M genes. <i>PLoS ONE</i> , <b>2013</b> , 8, e66645	3.7	22
112	Comparative pathogenesis in specific-pathogen-free chickens of two strains of avian hepatitis E virus recovered from a chicken with Hepatitis-Splenomegaly syndrome and from a clinically healthy chicken. <i>Veterinary Microbiology</i> , <b>2009</b> , 139, 253-61	3.3	22
111	A live-attenuated chimeric porcine circovirus type 2 (PCV2) vaccine is transmitted to contact pigs but is not upregulated by concurrent infection with porcine parvovirus (PPV) and porcine reproductive and respiratory syndrome virus (PRRSV) and is efficacious in a PCV2b-PRRSV-PPV challenge model. <i>Vaccine</i> , <b>2011</b> , 29, 1261-8		22
110	Three amino acid mutations (F51L, T59A, and S390L) in the capsid protein of the hepatitis E virus collectively contribute to virus attenuation. <i>Journal of Virology</i> , <b>2011</b> , 85, 5338-49	6.6	22
109	Purification of porcine reproductive and respiratory syndrome virus from cell culture using ultrafiltration and heparin affinity chromatography. <i>Journal of Chromatography A</i> , <b>2010</b> , 1217, 3489-93	4.5	22

108	Co-infection of porcine dendritic cells with porcine circovirus type 2a (PCV2a) and genotype II porcine reproductive and respiratory syndrome virus (PRRSV) induces CD4(+)CD25(+)FoxP3(+) T cells in vitro. <i>Veterinary Microbiology</i> , <b>2012</b> , 160, 233-9	3.3	21
107	Serological profile of torque teno sus virus species 1 (TTSuV1) in pigs and antigenic relationships between two TTSuV1 genotypes (1a and 1b), between two species (TTSuV1 and -2), and between porcine and human anelloviruses. <i>Journal of Virology</i> , <b>2012</b> , 86, 10628-39	6.6	21
106	Identification of two neutralization epitopes on the capsid protein of avian hepatitis E virus. <i>Journal of General Virology</i> , <b>2008</b> , 89, 500-508	4.9	21
105	A genetically engineered chimeric vaccine against porcine circovirus type 2 (PCV2) is genetically stable in vitro and in vivo. <i>Vaccine</i> , <b>2008</b> , 26, 4231-6	4.1	20
104	Protection of chickens against avian hepatitis E virus (avian HEV) infection by immunization with recombinant avian HEV capsid protein. <i>Vaccine</i> , <b>2007</b> , 25, 2892-9	4.1	20
103	Development of a heteroduplex mobility assay to identify field isolates of porcine reproductive and respiratory syndrome virus with nucleotide sequences closely related to those of modified live-attenuated vaccines. <i>Journal of Clinical Microbiology</i> , <b>2003</b> , 41, 2433-9	9.7	20
102	Knowledge gaps and research priorities in the prevention and control of hepatitis E virus infection. <i>Transboundary and Emerging Diseases</i> , <b>2018</b> , 65 Suppl 1, 22-29	4.2	19
101	Comparison of commercial enzyme-linked immunosorbent assays and fluorescent microbead immunoassays for detection of antibodies against porcine reproductive and respiratory syndrome virus in boars. <i>Journal of Virological Methods</i> , <b>2014</b> , 197, 63-6	2.6	19
100	Studies on porcine circovirus type 2 vaccination of 5-day-old piglets. <i>Vaccine Journal</i> , <b>2011</b> , 18, 1865-71		19
99	Development of SYBR green-based real-time PCR and duplex nested PCR assays for quantitation and differential detection of species- or type-specific porcine Torque teno viruses. <i>Journal of Virological Methods</i> , <b>2010</b> , 170, 140-6	2.6	19
98	Comparison of three enzyme-linked immunosorbent assays to detect Porcine circovirus-2 (PCV-2)-specific antibodies after vaccination or inoculation of pigs with distinct PCV-1 or PCV-2 isolates. <i>Journal of Veterinary Diagnostic Investigation</i> , <b>2008</b> , 20, 744-51	1.5	19
97	Effects of different us isolates of porcine reproductive and respiratory syndrome virus (PRRSV) on blood and bone marrow parameters of experimentally infected pigs. <i>Veterinary Record</i> , <b>2002</b> , 151, 344-8 <sup>0.9</sup>		19
96	Enhancing heterologous protection in pigs vaccinated with chimeric porcine reproductive and respiratory syndrome virus containing the full-length sequences of shuffled structural genes of multiple heterologous strains. <i>Vaccine</i> , <b>2017</b> , 35, 2427-2434	4.1	18
95	In vivo targeting of porcine reproductive and respiratory syndrome virus antigen through porcine DC-SIGN to dendritic cells elicits antigen-specific CD4T cell immunity in pigs. <i>Vaccine</i> , <b>2014</b> , 32, 6768-75	4.1	18
94	Construction of an infectious cDNA clone of avian hepatitis E virus (avian HEV) recovered from a clinically healthy chicken in the United States and characterization of its pathogenicity in specific-pathogen-free chickens. <i>Veterinary Microbiology</i> , <b>2011</b> , 147, 310-9	3.3	18
93	Effect of natural or vaccine-induced porcine circovirus type 2 (PCV2) immunity on fetal infection after artificial insemination with PCV2 spiked semen. <i>Theriogenology</i> , <b>2009</b> , 72, 747-54	2.8	18
92	Hepatitis E as a Zoonotic Disease611-623		18
91	Chimeric porcine reproductive and respiratory syndrome virus containing shuffled multiple envelope genes confers cross-protection in pigs. <i>Virology</i> , <b>2015</b> , 485, 402-13	3.6	17

90	Development and evaluation of two subunit vaccine candidates containing antigens of hepatitis E virus, rotavirus, and astrovirus. <i>Scientific Reports</i> , <b>2016</b> , 6, 25735	4.9	17
89	Hepatitis E virus: host tropism and zoonotic infection. <i>Current Opinion in Microbiology</i> , <b>2021</b> , 59, 8-15	7.9	17
88	Branched-linear and agglomerate protein polymers as vaccine platforms. <i>Biomaterials</i> , <b>2014</b> , 35, 8427-38	5.6	16
87	Efficient priming of CD4 T cells by Langerin-expressing dendritic cells targeted with porcine epidemic diarrhea virus spike protein domains in pigs. <i>Virus Research</i> , <b>2017</b> , 227, 212-219	6.4	16
86	Identification and characterization of a porcine monocytic cell line supporting porcine reproductive and respiratory syndrome virus (PRRSV) replication and progeny virion production by using an improved DNA-launched PRRSV reverse genetics system. <i>Virus Research</i> , <b>2009</b> , 145, 1-8	6.4	16
85	Vaccination of sows with a dendritic cell-targeted porcine epidemic diarrhea virus S1 protein-based candidate vaccine reduced viral shedding but exacerbated gross pathological lesions in suckling neonatal piglets. <i>Journal of General Virology</i> , <b>2018</b> , 99, 230-239	4.9	16
84	Modulation of Proinflammatory Cytokines in Monocyte-Derived Dendritic Cells by Porcine Reproductive and Respiratory Syndrome Virus Through Interaction with the Porcine Intercellular-Adhesion-Molecule-3-Grabbing Nonintegrin. <i>Viral Immunology</i> , <b>2016</b> , 29, 546-556	1.7	16
83	Hepatitis E Virus: Animal Models and Zoonosis. <i>Annual Review of Animal Biosciences</i> , <b>2019</b> , 7, 427-448	13.7	16
82	Inhibition of hepatitis E virus replication by peptide-conjugated morpholino oligomers. <i>Antiviral Research</i> , <b>2015</b> , 120, 134-9	10.8	15
81	Interlaboratory comparison of Porcine circovirus-2 indirect immunofluorescent antibody test and enzyme-linked immunosorbent assay results on experimentally infected pigs. <i>Journal of Veterinary Diagnostic Investigation</i> , <b>2011</b> , 23, 206-12	1.5	15
80	Immunodominant epitopes mapped by synthetic peptides on the capsid protein of avian hepatitis E virus are non-protective. <i>Viral Immunology</i> , <b>2008</b> , 21, 61-7	1.7	15
79	Expression of antigenic epitopes of porcine reproductive and respiratory syndrome virus (PRRSV) in a modified live-attenuated porcine circovirus type 2 (PCV2) vaccine virus (PCV1-2a) as a potential bivalent vaccine against both PCV2 and PRRSV. <i>Virus Research</i> , <b>2015</b> , 210, 154-64	6.4	14
78	Production and evaluation of virus-like particles displaying immunogenic epitopes of porcine reproductive and respiratory syndrome virus (PRRSV). <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 8382-96	6.3	14
77	Identification and fine mapping of nuclear and nucleolar localization signals within the human ribosomal protein S17. <i>PLoS ONE</i> , <b>2015</b> , 10, e0124396	3.7	14
76	Hepatitis E Virus in Pigs from Slaughterhouses, United States, 2017-2019. <i>Emerging Infectious Diseases</i> , <b>2020</b> , 26, 354-357	10.2	14
75	Comparison of real-time reverse transcriptase PCR assays for detection of swine hepatitis E virus in fecal samples. <i>Journal of Clinical Microbiology</i> , <b>2014</b> , 52, 1045-51	9.7	14
74	Identification of a porcine DC-SIGN-related C-type lectin, porcine CLEC4G (LSEctin), and its order of intron removal during splicing: comparative genomic analyses of the cluster of genes CD23/CLEC4G/DC-SIGN among mammalian species. <i>Developmental and Comparative Immunology</i> , <b>2009</b> , 33, 747-60	3.2	14
73	Evidence for an unknown agent antigenically related to the hepatitis E virus in dairy cows in the United States. <i>Journal of Medical Virology</i> , <b>2019</b> , 91, 677-686	19.7	14



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71	Recombinant Porcine Reproductive and Respiratory Syndrome Virus Expressing Membrane-Bound Interleukin-15 as an Immunomodulatory Adjuvant Enhances NK and $\gamma$ Cell Responses and Confers Heterologous Protection. <i>Journal of Virology</i> , <b>2018</b> , 92,	6.6	13
70	A chimeric virus created by DNA shuffling of the capsid genes of different subtypes of porcine circovirus type 2 (PCV2) in the backbone of the non-pathogenic PCV1 induces protective immunity against the predominant PCV2b and the emerging PCV2d in pigs. <i>Virology</i> , <b>2016</b> , 498, 82-93	3.6	13
69	Vaccination with inactivated or live-attenuated chimeric PCV1-2 results in decreased viremia in challenge-exposed pigs and may reduce transmission of PCV2. <i>Veterinary Microbiology</i> , <b>2012</b> , 158, 180-6	3.3	13
68	Effect of porcine circovirus type 2a or 2b on infection kinetics and pathogenicity of two genetically divergent strains of porcine reproductive and respiratory syndrome virus in the conventional pig model. <i>Veterinary Microbiology</i> , <b>2012</b> , 158, 69-81	3.3	13
67	Dendritic cell-targeted porcine reproductive and respiratory syndrome virus (PRRSV) antigens adjuvanted with polyinosinic-polycytidylic acid (poly (I:C)) induced non-protective immune responses against heterologous type 2 PRRSV challenge in pigs. <i>Veterinary Immunology and Immunopathology</i> , <b>2015</b> , 168, 13-25	2	13
66	Persistent infection of turkeys with an avirulent strain of turkey hemorrhagic enteritis virus. <i>Avian Diseases</i> , <b>2009</b> , 53, 370-5	1.6	13
65	A porcine reproductive and respiratory syndrome virus candidate vaccine based on the synthetic attenuated virus engineering approach is attenuated and effective in protecting against homologous virus challenge. <i>Vaccine</i> , <b>2016</b> , 34, 5546-5553	4.1	12
64	Increased frequency of porcine epidemic diarrhea virus shedding and lesions in suckling pigs compared to nursery pigs and protective immunity in nursery pigs after homologous re-challenge. <i>Veterinary Research</i> , <b>2016</b> , 47, 118	3.8	12
63	Prevalence of the Novel Torque Teno Sus Virus Species k2b from Pigs in the United States and Lack of Association with Post-Weaning Multisystemic Wasting Syndrome or Mulberry Heart Disease. <i>Transboundary and Emerging Diseases</i> , <b>2017</b> , 64, 1877-1883	4.2	12
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60	The non-structural protein Nsp2TF of porcine reproductive and respiratory syndrome virus down-regulates the expression of Swine Leukocyte Antigen class I. <i>Virology</i> , <b>2016</b> , 491, 115-24	3.6	11
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58	Concurrent porcine circovirus type 2a (PCV2a) or PCV2b infection increases the rate of amino acid mutations of porcine reproductive and respiratory syndrome virus (PRRSV) during serial passages in pigs. <i>Virus Research</i> , <b>2013</b> , 178, 445-51	6.4	11
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56	The emergence of genotypes 3 and 4 hepatitis E virus in swine and humans: a phylogenetic perspective. <i>Archives of Virology</i> , <b>2011</b> , 156, 121-4	2.6	11
55	Killed whole-genome reduced-bacteria surface-expressed coronavirus fusion peptide vaccines protect against disease in a porcine model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	11



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52	Swine hepatitis E virus: Cross-species infection, pork safety and chronic infection. <i>Virus Research</i> , <b>2020</b> , 284, 197985	6.4	10
51	Porcine reproductive and respiratory syndrome virus infection at the time of porcine circovirus type 2 vaccination has no impact on vaccine efficacy. <i>Vaccine Journal</i> , <b>2010</b> , 17, 1940-5		10
50	Effect of vaccination of boars against porcine circovirus type 2 on ejaculate characteristics, serum antibody titers, viremia, and semen virus shedding. <i>Journal of Animal Science</i> , <b>2011</b> , 89, 1581-7	0.7	10
49	Determination of the nucleotide sequences at the extreme 5'Sand 3'Sends of swine hepatitis E virus genome. <i>Archives of Virology</i> , <b>2001</b> , 146, 2461-7	2.6	10
48	Protective efficacy of a virus-vectored multi-component vaccine against porcine reproductive and respiratory syndrome virus, porcine circovirus type 2 and swine influenza virus. <i>Journal of General Virology</i> , <b>2017</b> , 98, 3026-3036	4.9	10
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46	Subclinical avian hepatitis E virus infection in layer flocks in the United States. <i>Veterinary Journal</i> , <b>2015</b> , 206, 304-11	2.5	9
45	Evaluation of the use of non-pathogenic porcine circovirus type 1 as a vaccine delivery virus vector to express antigenic epitopes of porcine reproductive and respiratory syndrome virus. <i>Virus Research</i> , <b>2016</b> , 213, 100-108	6.4	9
44	ORF1 but not ORF2 dependent differences are important for in vitro replication of PCV2 in porcine alveolar macrophages singularly or coinfecting with PRRSV. <i>Veterinary Microbiology</i> , <b>2012</b> , 158, 95-103	3.3	9
43	Purification of the major envelop protein GP5 of porcine reproductive and respiratory syndrome virus (PRRSV) from native virions. <i>Journal of Virological Methods</i> , <b>2008</b> , 147, 127-35	2.6	9
42	Hepatitis E virus: Cross-species infection and zoonotic risk. <i>Clinical Microbiology Newsletter</i> , <b>2005</b> , 27, 43-48	1.1	9
41	Porcine circovirus type 2a or 2b based experimental vaccines provide protection against PCV2d/porcine parvovirus 2 co-challenge. <i>Vaccine</i> , <b>2020</b> , 38, 1975-1981	4.1	8
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39	Markedly different immune responses and virus kinetics in littermates infected with porcine circovirus type 2 or porcine parvovirus type 1. <i>Veterinary Immunology and Immunopathology</i> , <b>2017</b> , 191, 51-59	2	8
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36	Limited susceptibility of three different mouse ( <i>Mus musculus</i> ) lines to Porcine circovirus-2 infection and associated lesions. <i>Canadian Journal of Veterinary Research</i> , <b>2009</b> , 73, 81-6	0.5	8
35	Development of a radiolabeled nucleic acid probe for the detection of encephalomyocarditis virus of swine. <i>Journal of Veterinary Diagnostic Investigation</i> , <b>1993</b> , 5, 254-8	1.5	7
34	A live-attenuated and an inactivated chimeric porcine circovirus (PCV)1-2 vaccine are both effective at inducing a humoral immune response and reducing PCV2 viremia and intrauterine infection in female swine of breeding age. <i>Canadian Journal of Veterinary Research</i> , <b>2014</b> , 78, 8-16	0.5	7
33	Structural and molecular biology of hepatitis E virus. <i>Computational and Structural Biotechnology Journal</i> , <b>2021</b> , 19, 1907-1916	6.8	7
32	Porcine reproductive and respiratory syndrome virus (PRRSV)-induced stress granules are associated with viral replication complexes and suppression of host translation. <i>Virus Research</i> , <b>2019</b> , 265, 47-56	6.4	6
31	Substitution of amino acid residue V1213 in the helicase domain of the genotype 3 hepatitis E virus reduces virus replication. <i>Virology Journal</i> , <b>2018</b> , 15, 32	6.1	6
30	Roles of the genomic sequence surrounding the stem-loop structure in the junction region including the 3' terminus of open reading frame 1 in hepatitis E virus replication. <i>Journal of Medical Virology</i> , <b>2018</b> , 90, 1524-1531	19.7	6
29	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> , <b>2014</b> , 96, 543-50	2.5	6
28	Use of PCR-based assays for the detection of the adventitious agent porcine circovirus type 1 (PCV1) in vaccines, and for confirming the identity of cell substrates and viruses used in vaccine production. <i>Journal of Virological Methods</i> , <b>2012</b> , 179, 201-11	2.6	6
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24	A Porcine circovirus type 2b (PCV2b)-based experimental vaccine is effective in the PCV2b- <i>Mycoplasma hyopneumoniae</i> coinfection pig model. <i>Vaccine</i> , <b>2019</b> , 37, 6688-6695	4.1	5
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22	Expression and purification of a chimeric protein consisting of the ectodomains of M and GP5 proteins of porcine reproductive and respiratory syndrome virus (PRRSV). <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2012</b> , 911, 43-8	3.2	5
21	Development of a fluorescent microbead-based immunoassay for the detection of hepatitis E virus IgG antibodies in pigs and comparison to an enzyme-linked immunoassay. <i>Journal of Virological Methods</i> , <b>2013</b> , 193, 278-83	2.6	4
20	Expression of human CD46 has no effect on porcine circovirus type 2 infection and shedding in the experimental pig model. <i>Veterinary Research Communications</i> , <b>2012</b> , 36, 187-93	2.9	4
19	Direct inoculation of RNA transcripts from an infectious cDNA clone of porcine reproductive and respiratory syndrome virus (PRRSV) into the lymph nodes and tonsils of pigs initiates PRRSV infection in vivo. <i>Archives of Virology</i> , <b>2007</b> , 152, 1383-7	2.6	4

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13	Hepatitis E Virus <b>2008</b> , 377-383		2
12	CD8 lymphocytes but not B lymphocytes are required for protection against chronic hepatitis E virus infection in chickens. <i>Journal of Medical Virology</i> , <b>2019</b> , 91, 1960-1969	19.7	1
11	Commercial Methods in Clinical Veterinary Microbiology 336-359		1
10	Hepatitis E Virus <b>2014</b> , 439-454		1
9	Hepatitis B core antigen-based vaccine demonstrates cross-neutralization against heterologous North American Porcine Reproductive and Respiratory Syndrome Virus (PRRSV-2) strains. <i>Journal of Virological Methods</i> , <b>2020</b> , 285, 113945	2.6	1
8	Progesterone-Mediated Enhancement of Hepatitis E Virus Replication in Human Liver Cells. <i>MBio</i> , <b>2021</b> , 12, e0143421	7.8	0
7	Hepatitis E Virus <b>2019</b> , 544-547		
6	Hepatitis E Virus <b>2020</b> , 915-925		
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4	Structure and Molecular Virology 417-430		
3	Other Viral Infections <b>2020</b> , 498-547		
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1	Hepeviruses (Hepeviridae) <b>2021</b> , 397-403		

