Phillip C Gauger

List of Publications by Year
in descending order

112	3,641	136950	161849
papers	citations	32 h-index	54 g-index

118	118	118	2715
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Isolation and Characterization of Porcine Epidemic Diarrhea Viruses Associated with the 2013 Disease Outbreak among Swine in the United States. Journal of Clinical Microbiology, 2014, 52, 234-243.	3.9	352
2	Vaccine-Induced Anti-HA2 Antibodies Promote Virus Fusion and Enhance Influenza Virus Respiratory Disease. Science Translational Medicine, 2013, 5, 200ra114.	12.4	201
3	Role of Transportation in Spread of Porcine Epidemic Diarrhea Virus Infection, United States. Emerging Infectious Diseases, 2014, 20, 872-874.	4.3	191
4	Discovery of a novel putative atypical porcine pestivirus in pigs in the USA. Journal of General Virology, 2015, 96, 2994-2998.	2.9	152
5	Pathogenicity and pathogenesis of a United States porcine deltacoronavirus cell culture isolate in 5-day-old neonatal piglets. Virology, 2015, 482, 51-59.	2.4	141
6	Enhanced pneumonia and disease in pigs vaccinated with an inactivated human-like (Î´-cluster) H1N2 vaccine and challenged with pandemic 2009 H1N1 influenza virus. Vaccine, 2011, 29, 2712-2719.	3.8	109
7	Effect of Porcine Epidemic Diarrhea Virus Infectious Doses on Infection Outcomes in NaÃ¯ve Conventional Neonatal and Weaned Pigs. PLoS ONE, 2015, 10, e0139266.	2.5	96
8	Efficacy in Pigs of Inactivated and Live Attenuated Influenza Virus Vaccines against Infection and Transmission of an Emerging H3N2 Similar to the 2011-2012 H3N2v. Journal of Virology, 2013, 87, 9895-9903.	3.4	88
9	Novel Reassortant Human-Like H3N2 and H3N1 Influenza A Viruses Detected in Pigs Are Virulent and Antigenically Distinct from Swine Viruses Endemic to the United States. Journal of Virology, 2015, 89, 11213-11222.	3.4	84
10	Pathogenesis comparison between the United States porcine epidemic diarrhoea virus prototype and S-INDEL-variant strains in conventional neonatal piglets. Journal of General Virology, 2016, 97, 1107-1121.	2.9	78
11	Porcine reproductive and respiratory disease virus: Evolution and recombination yields distinct ORF5 RFLP 1-7-4 viruses with individual pathogenicity. Virology, 2018, 513, 168-179.	2.4	75
12	High-throughput whole genome sequencing of Porcine reproductive and respiratory syndrome virus from cell culture materials and clinical specimens using next-generation sequencing technology. Journal of Veterinary Diagnostic Investigation, 2017, 29, 41-50.	1.1	70
13	Phylogenetics, Genomic Recombination, and NSP2 Polymorphic Patterns of Porcine Reproductive and Respiratory Syndrome Virus in China and the United States in 2014â€“2018. Journal of Virology, 2020, 94, .	3.4	69
14	Reassortment between Swine H3N2 and 2009 Pandemic H1N1 in the United States Resulted in Influenza A Viruses with Diverse Genetic Constellations with Variable Virulence in Pigs. Journal of Virology, 2017, 91, .	3.4	62
15	Live attenuated influenza A virus vaccine protects against A(H1N1)pdm09 heterologous challenge without vaccine associated enhanced respiratory disease. Virology, 2014, 471-473, 93-104.	2.4	60
16	Porcine epidemic diarrhea virus (PEDV) detection and antibody response in commercial growing pigs. BMC Veterinary Research, 2016, 12, 99.	1.9	58
17	Metagenomic analysis of the RNA fraction of the fecal virome indicates high diversity in pigs infected by porcine endemic diarrhea virus in the United States. Virology Journal, 2018, 15, 95.	3.4	57
18	The Molecular Determinants of Antibody Recognition and Antigenic Drift in the H3 Hemagglutinin of Swine Influenza A Virus. Journal of Virology, 2016, 90, 8266-8280.	3.4	54

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19	Serum Virus Neutralization Assay for Detection and Quantitation of Serum-Neutralizing Antibodies to Influenza A Virus in Swine. Methods in Molecular Biology, 2014, 1161, 313-324.	0.9	53
20	Hemagglutinin Inhibition Assay with Swine Sera. Methods in Molecular Biology, 2014, 1161, 295-301.	0.9	52
21	ISU FLUture: a veterinary diagnostic laboratory web-based platform to monitor the temporal genetic patterns of Influenza A virus in swine. BMC Bioinformatics, 2018, 19, 397.	2.6	50
22	Whole-Genome Sequences of Novel Porcine Circovirus Type 2 Viruses Detected in Swine from Mexico and the United States. Genome Announcements, 2015, 3, .	0.8	49
23	Vaccine-associated enhanced respiratory disease is influenced by haemagglutinin and neuraminidase in whole inactivated influenza virus vaccines. Journal of General Virology, 2016, 97, 1489-1499.	2.9	46
24	Sampling guidelines for oral fluid-based surveys of group-housed animals. Veterinary Microbiology, 2017, 209, 20-29.	1.9	44
25	Evaluation of two singleplex reverse transcription-Insulated isothermal PCR tests and a duplex real-time RT-PCR test for the detection of porcine epidemic diarrhea virus and porcine deltacoronavirus. Journal of Virological Methods, 2016, 234, 34-42.	2.1	42
26	Recombination between Vaccine and Field Strains of Porcine Reproductive and Respiratory Syndrome Virus. Emerging Infectious Diseases, 2019, 25, 2335-2337.	4.3	42
27	Influenza A virus hemagglutinin protein subunit vaccine elicits vaccine-associated enhanced respiratory disease in pigs. Vaccine, 2014, 32, 5170-5176.	3.8	41
28	Porcine reproductive and respiratory syndrome virus (PRRSV) surveillance using pre-weaning oral fluid samples detects circulation of wild-type PRRSV. Veterinary Microbiology, 2014, 168, 331-339.	1.9	40
29	Pathogenesis and Vaccination of Influenza A Virus in Swine. Current Topics in Microbiology and Immunology, 2014, 385, 307-326.	1.1	39
30	Detection of live attenuated influenza vaccine virus and evidence of reassortment in the U.S. swine population. Journal of Veterinary Diagnostic Investigation, 2020, 32, 301-311.	1.1	39
31	Full-Length Genome Sequences of Senecavirus A from Recent Idiopathic Vesicular Disease Outbreaks in U.S. Swine. Genome Announcements, 2015, 3, .	0.8	37
32	Swine influenza virus vaccine serologic crossâ€reactivity to contemporary <scp>US</scp> swine H3N2 and efficacy in pigs infected with an H3N2 similar to 2011â€“2012 H3N2v. Influenza and Other Respiratory Viruses, 2013, 7, 32-41.	3.4	34
33	Widespread detection and characterization of porcine parainfluenza virus 1 in pigs in the USA. Journal of General Virology, 2016, 97, 281-286.	2.9	34
34	The emergence of novel sparrow deltacoronaviruses in the United States more closely related to porcine deltacoronaviruses than sparrow deltacoronavirus HKU17. Emerging Microbes and Infections, 2018, 7, 1-4.	6.5	33
35	Evaluation of serological cross-reactivity and cross-neutralization between the United States porcine epidemic diarrhea virus prototype and S-INDEL-variant strains. BMC Veterinary Research, 2016, 12, 70.	1.9	31
36	PCR-based retrospective evaluation of diagnostic samples for emergence of porcine deltacoronavirus in US swine. Veterinary Microbiology, 2015, 179, 296-298.	1.9	29

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37	octoFLU: Automated Classification for the Evolutionary Origin of Influenza A Virus Gene Sequences Detected in U.S. Swine. Microbiology Resource Announcements, 2019, 8, .	0.6	29
38	Detection and characterization of an H4N6 avian-lineage influenza A virus in pigs in the Midwestern United States. Virology, 2017, 511, 56-65.	2.4	26
39	Characterizing the rapid spread of porcine epidemic diarrhea virus (PEDV) through an animal food manufacturing facility. PLoS ONE, 2017, 12, e0187309.	2.5	26
40	Behavioral Monitoring Tool for Pig Farmers: Ear Tag Sensors, Machine Intelligence, and Technology Adoption Roadmap. Animals, 2021, 11, 2665.	2.3	26
41	Heterologous challenge in the presence of maternally-derived antibodies results in vaccine-associated enhanced respiratory disease in weaned piglets. Virology, 2016, 491, 79-88.	2.4	25
42	Evidence of porcine epidemic diarrhea virus (PEDV) shedding in semen from infected specific pathogen-free boars. Veterinary Research, 2018, 49, 7.	3.0	25
43	Polioencephalomyelitis in Domestic Swine Associated With Porcine Astrovirus Type 3. Veterinary Pathology, 2020, 57, 82-89.	1.7	25
44	Evaluation of humoral immune status in porcine epidemic diarrhea virus (PEDV) infected sows under field conditions. Veterinary Research, 2015, 46, 140.	3.0	24
45	Detection, isolation, and in vitro characterization of porcine parainfluenza virus type 1 isolated from respiratory diagnostic specimens in swine. Veterinary Microbiology, 2019, 228, 219-225.	1.9	23
46	Assessing the effects of medium-chain fatty acids and fat sources on PEDV infectivity. Translational Animal Science, 2020, 4, 1051-1059.	1.1	23
47	Complete Genome Sequences of Two Novel Human-Like H3N2 Influenza A Viruses, A/swine/Oklahoma/65980/2017 (H3N2) and A/Swine/Oklahoma/65260/2017 (H3N2), Detected in Swine in the United States. Microbiology Resource Announcements, 2018, 7, .	0.6	20
48	The type of adjuvant in whole inactivated influenza a virus vaccines impacts vaccine-associated enhanced respiratory disease. Vaccine, 2018, 36, 6103-6110.	3.8	20
49	Better horizontal transmission of a US non-InDel strain compared with a French InDel strain of porcine epidemic diarrhoea virus. Transboundary and Emerging Diseases, 2018, 65, 1720-1732.	3.0	20
50	Age at Vaccination and Timing of Infection Do Not Alter Vaccine-Associated Enhanced Respiratory Disease in Influenza A Virus-Infected Pigs. Vaccine Journal, 2016, 23, 470-482.	3.1	19
51	Practical aspects of PRRSV RNA detection in processing fluids collected in commercial swine farms. Preventive Veterinary Medicine, 2020, 180, 105021.	1.9	19
52	Vaccination of pigs with a codon-pair bias de-optimized live attenuated influenza vaccine protects from homologous challenge. Vaccine, 2018, 36, 1101-1107.	3.8	18
53	Development and evaluation of a real-time RT-PCR and a field-deployable RT-insulated isothermal PCR for the detection of Seneca Valley virus. BMC Veterinary Research, 2019, 15, 168.	1.9	18
54	Aerosol Transmission from Infected Swine to Ferrets of an H3N2 Virus Collected from an Agricultural Fair and Associated with Human Variant Infections. Journal of Virology, 2020, 94, .	3.4	18

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55	Genetic and phenotypic characterization of a 2006 United States porcine reproductive and respiratory virus isolate associated with high morbidity and mortality in the field. Virus Research, 2012, 163, 98-107.	2.2	17
56	Complete Coding Genome Sequence of a Novel Porcine Reproductive and Respiratory Syndrome Virus 2 Restriction Fragment Length Polymorphism 1-4-4 Lineage 1C Variant Identified in Iowa, USA. Microbiology Resource Announcements, 2021, 10, e0044821.	0.6	16
57	Pathogenesis of a novel porcine parainfluenza virus type 1 isolate in conventional and colostrum deprived/caesarean derived pigs. Virology, 2021, 563, 88-97.	2.4	15
58	Oral Fluids as a Live-Animal Sample Source for Evaluating Cross-Reactivity and Cross-Protection following Intranasal Influenza A Virus Vaccination in Pigs. Vaccine Journal, 2015, 22, 1109-1120.	3.1	14
59	Identification of porcine epidemic diarrhea virus variant with a large spike gene deletion from a clinical swine sample in the United States. Virus Genes, 2018, 54, 323-327.	1.6	14
60	A prime-boost concept using a T-cell epitope-driven DNA vaccine followed by a whole virus vaccine effectively protected pigs in the pandemic H1N1 pig challenge model. Vaccine, 2019, 37, 4302-4309.	3.8	14
61	Genetically divergent porcine sapovirus identified in pigs, United States. Transboundary and Emerging Diseases, 2020, 67, 18-28.	3.0	14
62	Comparison of ZMAC and MARC-145 Cell Lines for Improving Porcine Reproductive and Respiratory Syndrome Virus Isolation from Clinical Samples. Journal of Clinical Microbiology, 2021, 59, .	3.9	14
63	Characterization of contemporary 2010.1 H3N2 swine influenza A viruses circulating in United States pigs. Virology, 2021, 553, 94-101.	2.4	14
64	Spatial and temporal coevolution of N2 neuraminidase and H1 and H3 hemagglutinin genes of influenza A virus in US swine. Virus Evolution, 2021, 7, veab090.	4.9	14
65	Development and Clinical Applications of a 5-Plex Real-Time RT-PCR for Swine Enteric Coronaviruses. Viruses, 2022, 14, 1536.	3.3	14
66	Machine Learning Prediction and Experimental Validation of Antigenic Drift in H3 Influenza A Viruses in Swine. MSphere, 2021, 6, .	2.9	13
67	Serum Virus Neutralization Assay for Detection and Quantitation of Serum Neutralizing Antibodies to Influenza A Virus in Swine. Methods in Molecular Biology, 2020, 2123, 321-333.	0.9	13
68	Effects of medium chain fatty acids as a mitigation or prevention strategy against porcine epidemic diarrhea virus in swine feed. Journal of Animal Science, 2020, 98, .	0.5	13
69	A highly pathogenic avian-derived influenza virus H5N1 with 2009 pandemic H1N1 internal genes demonstrates increased replication and transmission in pigs. Journal of General Virology, 2017, 98, 18-30.	2.9	13
70	Neuraminidase inhibiting antibody responses in pigs differ between influenza A virus N2 lineages and by vaccine type. Vaccine, 2016, 34, 3773-3779.	3.8	12
71	Pseudorabies (Aujeszky's disease) virus DNA detection in swine nasal swab and oral fluid specimens using a gB-based real-time quantitative PCR. Preventive Veterinary Medicine, 2021, 189, 105308.	1.9	12
72	Molecular Evolution of Porcine Reproductive and Respiratory Syndrome Virus Field Strains from Two Swine Production Systems in the Midwestern United States from 2001 to 2020. Microbiology Spectrum, 2022, 10, e0263421.	3.0	12

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73	Comparison of Adjuvanted-Whole Inactivated Virus and Live-Attenuated Virus Vaccines against Challenge with Contemporary, Antigenically Distinct H3N2 Influenza A Viruses. Journal of Virology, 2018, 92, .	3.4	11
74	Genetic diversity of porcine reproductive and respiratory syndrome virus 1 in the United States of America from 2010 to 2018. Veterinary Microbiology, 2019, 239, 108486.	1.9	11
75	Primary Swine Respiratory Epithelial Cell Lines for the Efficient Isolation and Propagation of Influenza A Viruses. Journal of Virology, 2020, 94, .	3.4	11
76	Detection and genomic characterization of new avian-like hepatitis E virus in a sparrow in the United States. Archives of Virology, 2018, 163, 2861-2864.	2.1	10
77	A Porcine circovirus type 2b (PCV2b)-based experimental vaccine is effective in the PCV2b-Mycoplasma hyopneumoniae coinfection pig model. Vaccine, 2019, 37, 6688-6695.	3.8	10
78	Alphavirus-vectored hemagglutinin subunit vaccine provides partial protection against heterologous challenge in pigs. Vaccine, 2019, 37, 1533-1539.	3.8	10
79	Maternal Autogenous Inactivated Virus Vaccination Boosts Immunity to PRRSV in Piglets. Vaccines, 2021, 9, 106.	4.4	10
80	PRRSV2 genetic diversity defined by RFLP patterns in the United States from 2007 to 2019. Journal of Veterinary Diagnostic Investigation, 2021, 33, 920-931.	1.1	10
81	Vaccine-Associated Enhanced Respiratory Disease following Influenza Virus Infection in Ferrets Recapitulates the Model in Pigs. Journal of Virology, 2022, 96, JVI0172521.	3.4	10
82	Vaccine-Associated Enhanced Respiratory Disease Does Not Interfere with the Adaptive Immune Response Following Challenge with Pandemic A/H1N1 2009. Viral Immunology, 2013, 26, 314-321.	1.3	9
83	Limited shedding of an S-InDel strain of porcine epidemic diarrhea virus (PEDV) in semen and questions regarding the infectivity of the detected virus. Veterinary Microbiology, 2019, 228, 20-25.	1.9	9
84	Enzyme-Linked Immunosorbent Assay for Detection of Serum or Mucosal Isotype-Specific IgG and IgA Whole-Virus Antibody to Influenza A Virus in Swine. Methods in Molecular Biology, 2014, 1161, 303-312.	0.9	9
85	Isolation of Swine Influenza A Virus in Cell Cultures and Embryonated Chicken Eggs. Methods in Molecular Biology, 2020, 2123, 281-294.	0.9	9
86	Genetic and Antigenic Characterization of an Expanding H3 Influenza A Virus Clade in U.S. Swine Visualized by Nextstrain. MSphere, 2022, 7, .	2.9	9
87	The avianâ€origin H3N2 canine influenza virus that recently emerged in the United States has limited replication in swine. Influenza and Other Respiratory Viruses, 2016, 10, 429-432.	3.4	8
88	Complete Genome Sequence of Porcine respirovirus 1 Strain USA/MN25890NS/2016, Isolated in the United States. Genome Announcements, 2017, 5, .	0.8	8
89	European and American Strains of Porcine Parainfluenza Virus 1 (PPIV-1) Belong to Two Distinct Genetic Lineages. Pathogens, 2022, 11, 375.	2.8	8
90	Probability of PRRS virus detection in pooled processing fluid samples. Veterinary Microbiology, 2021, 261, 109190.	1.9	7

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91	Data standardization implementation and applications within and among diagnostic laboratories: integrating and monitoring enteric coronaviruses. Journal of Veterinary Diagnostic Investigation, 2021, 33, 457-468.	1.1	6
92	Evaluating the role of wild songbirds or rodents in spreading avian influenza virus across an agricultural landscape. PeerJ, 2017, 5, e4060.	2.0	6
93	Detection of porcine parainfluenza virus type-1 antibody in swine serum using whole-virus ELISA, indirect fluorescence antibody and virus neutralizing assays. BMC Veterinary Research, 2022, 18, 110.	1.9	6
94	Implementing a userâ€friendly format to analyze PRRSV nextâ€generation sequencing results and associating breeding herd production performance with number of PRRSV strains and recombination events. Transboundary and Emerging Diseases, 2022, , .	3.0	6
95	Effects of sample handling on the detection of porcine reproductive and respiratory syndrome virus in oral fluids by reverse-transcription real-time PCR. Journal of Veterinary Diagnostic Investigation, 2018, 30, 807-812.	1.1	5
96	The United States Swine Pathogen Database: integrating veterinary diagnostic laboratory sequence data to monitor emerging pathogens of swine. Database: the Journal of Biological Databases and Curation, 2021, 2021, .	3.0	5
97	Characterization of a 2016-2017 Human Seasonal H3 Influenza A Virus Spillover Now Endemic to U.S. Swine. MSphere, 2022, 7, e0080921.	2.9	5
98	Bovine coronavirus in the lower respiratory tract of cattle with respiratory disease. Journal of Veterinary Diagnostic Investigation, 2022, 34, 482-488.	1.1	5
99	Genetic characterization of porcine sapoviruses identified from pigs during a diarrhoea outbreak in Iowa, 2019. Transboundary and Emerging Diseases, 2022, 69, 1246-1255.	3.0	4
100	Environmental Sampling for Avian Influenza Virus Detection in Commercial Layer Facilities. Avian Diseases, 2021, 65, 391-400.	1.0	4
101	Evaluation of the intranasal route for porcine reproductive and respiratory disease modified-live virus vaccination. Vaccine, 2021, 39, 6852-6859.	3.8	4
102	Reply to â€œClassification of Emergent U.S. Strains of Porcine Epidemic Diarrhea Virus by Phylogenetic Analysis of Nucleocapsid and ORF3 Genesâ€• Journal of Clinical Microbiology, 2014, 52, 3511-3514.	3.9	3
103	Outbreak of H5N2 highly pathogenic avian Influenza A virus infection in two commercial layer facilities. Journal of Veterinary Diagnostic Investigation, 2016, 28, 568-573.	1.1	3
104	Genetic diversity in envelope genes of contemporary U.S. porcine reproductive and respiratory syndrome virus strains influences viral antigenicity. Research in Veterinary Science, 2017, 115, 432-441.	1.9	3
105	Comparison of the efficacy of a commercial inactivated influenza A/H1N1/pdm09 virus (pH1N1) vaccine and two experimental M2e-based vaccines against pH1N1 challenge in the growing pig model. PLoS ONE, 2018, 13, e0191739.	2.5	3
106	Ambient hydrogen sulfide exposure increases the severity of influenza A virus infection in swine. Archives of Environmental and Occupational Health, 2021, 76, 526-538.	1.4	3
107	Association of wild-type PRRSV detection patterns with mortality of MLV-vaccinated growing pig groups. Preventive Veterinary Medicine, 2021, 189, 105270.	1.9	3
108	Quantifying the Persistence of Vaccine-Related T Cell Epitopes in Circulating Swine Influenza A Strains from 2013â€“2017. Vaccines, 2021, 9, 468.	4.4	3

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109	Enzyme-Linked Immunosorbent Assay for Detection of Serum or Mucosal Isotype-Specific IgG and IgA Whole-Virus Antibody to Influenza A Virus in Swine. Methods in Molecular Biology, 2020, 2123, 311-320.	0.9	3
110	Adapting a porcine reproductive and respiratory syndrome virus (PRRSV) oral fluid antibody ELISA to routine surveillance. Preventive Veterinary Medicine, 2021, 188, 105250.	1.9	2
111	Evaluation of Feedstuffs as a Potential Carrier of Avian Influenza Virus between Feed Mills and Poultry Farms. Pathogens, 2022, 11, 755.	2.8	1
112	Near-Complete Genome Sequence of GI-17 Lineage Infectious Bronchitis Virus, Circulating in Iowa. Microbiology Resource Announcements, 2021, 10, .	0.6	0