

Phillip C Gauger

List of Publications by Year in descending order

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112
papers

3,641
citations

136740

32
h-index

161609

54
g-index

118
all docs

118
docs citations

118
times ranked

2715
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. <i>Journal of Clinical Microbiology</i> , 2014, 52, 234-243.	1.8	352
2	Vaccine-Induced Anti-HA2 Antibodies Promote Virus Fusion and Enhance Influenza Virus Respiratory Disease. <i>Science Translational Medicine</i> , 2013, 5, 200ra114.	5.8	201
3	Role of Transportation in Spread of Porcine Epidemic Diarrhea Virus Infection, United States. <i>Emerging Infectious Diseases</i> , 2014, 20, 872-874.	2.0	191
4	Discovery of a novel putative atypical porcine pestivirus in pigs in the USA. <i>Journal of General Virology</i> , 2015, 96, 2994-2998.	1.3	152
5	Pathogenicity and pathogenesis of a United States porcine deltacoronavirus cell culture isolate in 5-day-old neonatal piglets. <i>Virology</i> , 2015, 482, 51-59.	1.1	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. <i>Vaccine</i> , 2011, 29, 2712-2719.	1.7	109
7	Effect of Porcine Epidemic Diarrhea Virus Infectious Doses on Infection Outcomes in Naïve Conventional Neonatal and Weaned Pigs. <i>PLoS ONE</i> , 2015, 10, e0139266.	1.1	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. <i>Journal of Virology</i> , 2013, 87, 9895-9903.	1.5	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. <i>Journal of Virology</i> , 2015, 89, 11213-11222.	1.5	84
10	Pathogenesis comparison between the United States porcine epidemic diarrhoea virus prototype and S-INDEL-variant strains in conventional neonatal piglets. <i>Journal of General Virology</i> , 2016, 97, 1107-1121.	1.3	78
11	Porcine reproductive and respiratory disease virus: Evolution and recombination yields distinct ORF5 RFLP 1-7-4 viruses with individual pathogenicity. <i>Virology</i> , 2018, 513, 168-179.	1.1	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. <i>Journal of Veterinary Diagnostic Investigation</i> , 2017, 29, 41-50.	0.5	70
13	Phylogenetics, Genomic Recombination, and NSP2 Polymorphic Patterns of Porcine Reproductive and Respiratory Syndrome Virus in China and the United States in 2014-2018. <i>Journal of Virology</i> , 2020, 94, .	1.5	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. <i>Journal of Virology</i> , 2017, 91, .	1.5	62
15	Live attenuated influenza A virus vaccine protects against A(H1N1)pdm09 heterologous challenge without vaccine associated enhanced respiratory disease. <i>Virology</i> , 2014, 471-473, 93-104.	1.1	60
16	Porcine epidemic diarrhea virus (PEDV) detection and antibody response in commercial growing pigs. <i>BMC Veterinary Research</i> , 2016, 12, 99.	0.7	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. <i>Virology Journal</i> , 2018, 15, 95.	1.4	57
18	The Molecular Determinants of Antibody Recognition and Antigenic Drift in the H3 Hemagglutinin of Swine Influenza A Virus. <i>Journal of Virology</i> , 2016, 90, 8266-8280.	1.5	54

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19	Serum Virus Neutralization Assay for Detection and Quantitation of Serum-Neutralizing Antibodies to Influenza A Virus in Swine. <i>Methods in Molecular Biology</i> , 2014, 1161, 313-324.	0.4	53
20	Hemagglutinin Inhibition Assay with Swine Sera. <i>Methods in Molecular Biology</i> , 2014, 1161, 295-301.	0.4	52
21	ISU FLUture: a veterinary diagnostic laboratory web-based platform to monitor the temporal genetic patterns of Influenza A virus in swine. <i>BMC Bioinformatics</i> , 2018, 19, 397.	1.2	50
22	Whole-Genome Sequences of Novel Porcine Circovirus Type 2 Viruses Detected in Swine from Mexico and the United States. <i>Genome Announcements</i> , 2015, 3, .	0.8	49
23	Vaccine-associated enhanced respiratory disease is influenced by haemagglutinin and neuraminidase in whole inactivated influenza virus vaccines. <i>Journal of General Virology</i> , 2016, 97, 1489-1499.	1.3	46
24	Sampling guidelines for oral fluid-based surveys of group-housed animals. <i>Veterinary Microbiology</i> , 2017, 209, 20-29.	0.8	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. <i>Journal of Virological Methods</i> , 2016, 234, 34-42.	1.0	42
26	Recombination between Vaccine and Field Strains of Porcine Reproductive and Respiratory Syndrome Virus. <i>Emerging Infectious Diseases</i> , 2019, 25, 2335-2337.	2.0	42
27	Influenza A virus hemagglutinin protein subunit vaccine elicits vaccine-associated enhanced respiratory disease in pigs. <i>Vaccine</i> , 2014, 32, 5170-5176.	1.7	41
28	Porcine reproductive and respiratory syndrome virus (PRRSV) surveillance using pre-weaning oral fluid samples detects circulation of wild-type PRRSV. <i>Veterinary Microbiology</i> , 2014, 168, 331-339.	0.8	40
29	Pathogenesis and Vaccination of Influenza A Virus in Swine. <i>Current Topics in Microbiology and Immunology</i> , 2014, 385, 307-326.	0.7	39
30	Detection of live attenuated influenza vaccine virus and evidence of reassortment in the U.S. swine population. <i>Journal of Veterinary Diagnostic Investigation</i> , 2020, 32, 301-311.	0.5	39
31	Full-Length Genome Sequences of Senecavirus A from Recent Idiopathic Vesicular Disease Outbreaks in U.S. Swine. <i>Genome Announcements</i> , 2015, 3, .	0.8	37
32	Swine influenza virus vaccine serologic cross-reactivity to contemporary US swine H3N2 and efficacy in pigs infected with an H3N2 similar to 2011-2012 H3N2v. <i>Influenza and Other Respiratory Viruses</i> , 2013, 7, 32-41.	1.5	34
33	Widespread detection and characterization of porcine parainfluenza virus 1 in pigs in the USA. <i>Journal of General Virology</i> , 2016, 97, 281-286.	1.3	34
34	The emergence of novel sparrow deltacoronaviruses in the United States more closely related to porcine deltacoronaviruses than sparrow deltacoronavirus HKU17. <i>Emerging Microbes and Infections</i> , 2018, 7, 1-4.	3.0	33
35	Evaluation of serological cross-reactivity and cross-neutralization between the United States porcine epidemic diarrhea virus prototype and S-INDEL-variant strains. <i>BMC Veterinary Research</i> , 2016, 12, 70.	0.7	31
36	PCR-based retrospective evaluation of diagnostic samples for emergence of porcine deltacoronavirus in US swine. <i>Veterinary Microbiology</i> , 2015, 179, 296-298.	0.8	29

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37	octoFLU: Automated Classification for the Evolutionary Origin of Influenza A Virus Gene Sequences Detected in U.S. Swine. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.3	29
38	Detection and characterization of an H4N6 avian-lineage influenza A virus in pigs in the Midwestern United States. <i>Virology</i> , 2017, 511, 56-65.	1.1	26
39	Characterizing the rapid spread of porcine epidemic diarrhea virus (PEDV) through an animal food manufacturing facility. <i>PLoS ONE</i> , 2017, 12, e0187309.	1.1	26
40	Behavioral Monitoring Tool for Pig Farmers: Ear Tag Sensors, Machine Intelligence, and Technology Adoption Roadmap. <i>Animals</i> , 2021, 11, 2665.	1.0	26
41	Heterologous challenge in the presence of maternally-derived antibodies results in vaccine-associated enhanced respiratory disease in weaned piglets. <i>Virology</i> , 2016, 491, 79-88.	1.1	25
42	Evidence of porcine epidemic diarrhea virus (PEDV) shedding in semen from infected specific pathogen-free boars. <i>Veterinary Research</i> , 2018, 49, 7.	1.1	25
43	Polioencephalomyelitis in Domestic Swine Associated With Porcine Astrovirus Type 3. <i>Veterinary Pathology</i> , 2020, 57, 82-89.	0.8	25
44	Evaluation of humoral immune status in porcine epidemic diarrhea virus (PEDV) infected sows under field conditions. <i>Veterinary Research</i> , 2015, 46, 140.	1.1	24
45	Detection, isolation, and in vitro characterization of porcine parainfluenza virus type 1 isolated from respiratory diagnostic specimens in swine. <i>Veterinary Microbiology</i> , 2019, 228, 219-225.	0.8	23
46	Assessing the effects of medium-chain fatty acids and fat sources on PEDV infectivity. <i>Translational Animal Science</i> , 2020, 4, 1051-1059.	0.4	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. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.3	20
48	The type of adjuvant in whole inactivated influenza a virus vaccines impacts vaccine-associated enhanced respiratory disease. <i>Vaccine</i> , 2018, 36, 6103-6110.	1.7	20
49	Better horizontal transmission of a US non-InDel strain compared with a French InDel strain of porcine epidemic diarrhoea virus. <i>Transboundary and Emerging Diseases</i> , 2018, 65, 1720-1732.	1.3	20
50	Age at Vaccination and Timing of Infection Do Not Alter Vaccine-Associated Enhanced Respiratory Disease in Influenza A Virus-Infected Pigs. <i>Vaccine Journal</i> , 2016, 23, 470-482.	3.2	19
51	Practical aspects of PRRSV RNA detection in processing fluids collected in commercial swine farms. <i>Preventive Veterinary Medicine</i> , 2020, 180, 105021.	0.7	19
52	Vaccination of pigs with a codon-pair bias de-optimized live attenuated influenza vaccine protects from homologous challenge. <i>Vaccine</i> , 2018, 36, 1101-1107.	1.7	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. <i>BMC Veterinary Research</i> , 2019, 15, 168.	0.7	18
54	Aerosol Transmission from Infected Swine to Ferrets of an H3N2 Virus Collected from an Agricultural Fair and Associated with Human Variant Infections. <i>Journal of Virology</i> , 2020, 94, .	1.5	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. <i>Virus Research</i> , 2012, 163, 98-107.	1.1	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. <i>Microbiology Resource Announcements</i> , 2021, 10, e0044821.	0.3	16
57	Pathogenesis of a novel porcine parainfluenza virus type 1 isolate in conventional and colostrum deprived/caesarean derived pigs. <i>Virology</i> , 2021, 563, 88-97.	1.1	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. <i>Vaccine Journal</i> , 2015, 22, 1109-1120.	3.2	14
59	Identification of porcine epidemic diarrhea virus variant with a large spike gene deletion from a clinical swine sample in the United States. <i>Virus Genes</i> , 2018, 54, 323-327.	0.7	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. <i>Vaccine</i> , 2019, 37, 4302-4309.	1.7	14
61	Genetically divergent porcine sapovirus identified in pigs, United States. <i>Transboundary and Emerging Diseases</i> , 2020, 67, 18-28.	1.3	14
62	Comparison of ZMAC and MARC-145 Cell Lines for Improving Porcine Reproductive and Respiratory Syndrome Virus Isolation from Clinical Samples. <i>Journal of Clinical Microbiology</i> , 2021, 59, .	1.8	14
63	Characterization of contemporary 2010.1 H3N2 swine influenza A viruses circulating in United States pigs. <i>Virology</i> , 2021, 553, 94-101.	1.1	14
64	Spatial and temporal coevolution of N2 neuraminidase and H1 and H3 hemagglutinin genes of influenza A virus in US swine. <i>Virus Evolution</i> , 2021, 7, veab090.	2.2	14
65	Development and Clinical Applications of a 5-Plex Real-Time RT-PCR for Swine Enteric Coronaviruses. <i>Viruses</i> , 2022, 14, 1536.	1.5	14
66	Machine Learning Prediction and Experimental Validation of Antigenic Drift in H3 Influenza A Viruses in Swine. <i>MSphere</i> , 2021, 6, .	1.3	13
67	Serum Virus Neutralization Assay for Detection and Quantitation of Serum Neutralizing Antibodies to Influenza A Virus in Swine. <i>Methods in Molecular Biology</i> , 2020, 2123, 321-333.	0.4	13
68	Effects of medium chain fatty acids as a mitigation or prevention strategy against porcine epidemic diarrhea virus in swine feed. <i>Journal of Animal Science</i> , 2020, 98, .	0.2	13
69	A highly pathogenic avian-derived influenza virus H5N1 with 2009 pandemic H1N1 internal genes demonstrates increased replication and transmission in pigs. <i>Journal of General Virology</i> , 2017, 98, 18-30.	1.3	13
70	Neuraminidase inhibiting antibody responses in pigs differ between influenza A virus N2 lineages and by vaccine type. <i>Vaccine</i> , 2016, 34, 3773-3779.	1.7	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. <i>Preventive Veterinary Medicine</i> , 2021, 189, 105308.	0.7	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. <i>Microbiology Spectrum</i> , 2022, 10, e0263421.	1.2	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. <i>Journal of Virology</i> , 2018, 92, .	1.5	11
74	Genetic diversity of porcine reproductive and respiratory syndrome virus 1 in the United States of America from 2010 to 2018. <i>Veterinary Microbiology</i> , 2019, 239, 108486.	0.8	11
75	Primary Swine Respiratory Epithelial Cell Lines for the Efficient Isolation and Propagation of Influenza A Viruses. <i>Journal of Virology</i> , 2020, 94, .	1.5	11
76	Detection and genomic characterization of new avian-like hepatitis E virus in a sparrow in the United States. <i>Archives of Virology</i> , 2018, 163, 2861-2864.	0.9	10
77	A Porcine circovirus type 2b (PCV2b)-based experimental vaccine is effective in the PCV2b- <i>Mycoplasma hyopneumoniae</i> coinfection pig model. <i>Vaccine</i> , 2019, 37, 6688-6695.	1.7	10
78	Alphavirus-vectored hemagglutinin subunit vaccine provides partial protection against heterologous challenge in pigs. <i>Vaccine</i> , 2019, 37, 1533-1539.	1.7	10
79	Maternal Autogenous Inactivated Virus Vaccination Boosts Immunity to PRRSV in Piglets. <i>Vaccines</i> , 2021, 9, 106.	2.1	10
80	PRRSV2 genetic diversity defined by RFLP patterns in the United States from 2007 to 2019. <i>Journal of Veterinary Diagnostic Investigation</i> , 2021, 33, 920-931.	0.5	10
81	Vaccine-Associated Enhanced Respiratory Disease following Influenza Virus Infection in Ferrets Recapitulates the Model in Pigs. <i>Journal of Virology</i> , 2022, 96, JVI0172521.	1.5	10
82	Vaccine-Associated Enhanced Respiratory Disease Does Not Interfere with the Adaptive Immune Response Following Challenge with Pandemic A/H1N1 2009. <i>Viral Immunology</i> , 2013, 26, 314-321.	0.6	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. <i>Veterinary Microbiology</i> , 2019, 228, 20-25.	0.8	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. <i>Methods in Molecular Biology</i> , 2014, 1161, 303-312.	0.4	9
85	Isolation of Swine Influenza A Virus in Cell Cultures and Embryonated Chicken Eggs. <i>Methods in Molecular Biology</i> , 2020, 2123, 281-294.	0.4	9
86	Genetic and Antigenic Characterization of an Expanding H3 Influenza A Virus Clade in U.S. Swine Visualized by Nextstrain. <i>MSphere</i> , 2022, 7, .	1.3	9
87	The avian-origin H3N2 canine influenza virus that recently emerged in the United States has limited replication in swine. <i>Influenza and Other Respiratory Viruses</i> , 2016, 10, 429-432.	1.5	8
88	Complete Genome Sequence of Porcine respirovirus 1 Strain USA/MN25890NS/2016, Isolated in the United States. <i>Genome Announcements</i> , 2017, 5, .	0.8	8
89	European and American Strains of Porcine Parainfluenza Virus 1 (PPIV-1) Belong to Two Distinct Genetic Lineages. <i>Pathogens</i> , 2022, 11, 375.	1.2	8
90	Probability of PRRS virus detection in pooled processing fluid samples. <i>Veterinary Microbiology</i> , 2021, 261, 109190.	0.8	7

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91	Data standardization implementation and applications within and among diagnostic laboratories: integrating and monitoring enteric coronaviruses. <i>Journal of Veterinary Diagnostic Investigation</i> , 2021, 33, 457-468.	0.5	6
92	Evaluating the role of wild songbirds or rodents in spreading avian influenza virus across an agricultural landscape. <i>PeerJ</i> , 2017, 5, e4060.	0.9	6
93	Detection of porcine parainfluenza virus type-1 antibody in swine serum using whole-virus ELISA, indirect fluorescence antibody and virus neutralizing assays. <i>BMC Veterinary Research</i> , 2022, 18, 110.	0.7	6
94	Implementing a user-friendly format to analyze PRRSV next-generation sequencing results and associating breeding herd production performance with number of PRRSV strains and recombination events. <i>Transboundary and Emerging Diseases</i> , 2022, , .	1.3	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. <i>Journal of Veterinary Diagnostic Investigation</i> , 2018, 30, 807-812.	0.5	5
96	The United States Swine Pathogen Database: integrating veterinary diagnostic laboratory sequence data to monitor emerging pathogens of swine. <i>Database: the Journal of Biological Databases and Curation</i> , 2021, 2021, .	1.4	5
97	Characterization of a 2016-2017 Human Seasonal H3 Influenza A Virus Spillover Now Endemic to U.S. Swine. <i>MSphere</i> , 2022, 7, e0080921.	1.3	5
98	Bovine coronavirus in the lower respiratory tract of cattle with respiratory disease. <i>Journal of Veterinary Diagnostic Investigation</i> , 2022, 34, 482-488.	0.5	5
99	Genetic characterization of porcine sapoviruses identified from pigs during a diarrhoea outbreak in Iowa, 2019. <i>Transboundary and Emerging Diseases</i> , 2022, 69, 1246-1255.	1.3	4
100	Environmental Sampling for Avian Influenza Virus Detection in Commercial Layer Facilities. <i>Avian Diseases</i> , 2021, 65, 391-400.	0.4	4
101	Evaluation of the intranasal route for porcine reproductive and respiratory disease modified-live virus vaccination. <i>Vaccine</i> , 2021, 39, 6852-6859.	1.7	4
102	Reply to "Classification of Emergent U.S. Strains of Porcine Epidemic Diarrhea Virus by Phylogenetic Analysis of Nucleocapsid and ORF3 Genes". <i>Journal of Clinical Microbiology</i> , 2014, 52, 3511-3514.	1.8	3
103	Outbreak of H5N2 highly pathogenic avian Influenza A virus infection in two commercial layer facilities. <i>Journal of Veterinary Diagnostic Investigation</i> , 2016, 28, 568-573.	0.5	3
104	Genetic diversity in envelope genes of contemporary U.S. porcine reproductive and respiratory syndrome virus strains influences viral antigenicity. <i>Research in Veterinary Science</i> , 2017, 115, 432-441.	0.9	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. <i>PLoS ONE</i> , 2018, 13, e0191739.	1.1	3
106	Ambient hydrogen sulfide exposure increases the severity of influenza A virus infection in swine. <i>Archives of Environmental and Occupational Health</i> , 2021, 76, 526-538.	0.7	3
107	Association of wild-type PRRSV detection patterns with mortality of MLV-vaccinated growing pig groups. <i>Preventive Veterinary Medicine</i> , 2021, 189, 105270.	0.7	3
108	Quantifying the Persistence of Vaccine-Related T Cell Epitopes in Circulating Swine Influenza A Strains from 2013-2017. <i>Vaccines</i> , 2021, 9, 468.	2.1	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. <i>Methods in Molecular Biology</i> , 2020, 2123, 311-320.	0.4	3
110	Adapting a porcine reproductive and respiratory syndrome virus (PRRSV) oral fluid antibody ELISA to routine surveillance. <i>Preventive Veterinary Medicine</i> , 2021, 188, 105250.	0.7	2
111	Evaluation of Feedstuffs as a Potential Carrier of Avian Influenza Virus between Feed Mills and Poultry Farms. <i>Pathogens</i> , 2022, 11, 755.	1.2	1
112	Near-Complete Genome Sequence of GI-17 Lineage Infectious Bronchitis Virus, Circulating in Iowa. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.3	0