Phillip C Gauger

List of Publications by Year in Descending Order

104 papers	2,382 citations	27 h-index	46 g-index
118 ext. papers	3,056 ext. citations	4.1 avg, IF	4.88 L-index

#	Paper	IF	Citations
104	Characterization of a 2016-2017 Human Seasonal H3 Influenza A Virus Spillover Now Endemic to U.S. Swine.. *MSphere*, **2022**, e0080921	5	2
103	Vaccine-associated enhanced respiratory disease following influenza virus infection in ferrets recapitulates the model in pigs.. *Journal of Virology*, **2022**, JVI0172521	6.6	0
102	Bovine coronavirus in the lower respiratory tract of cattle with respiratory disease.. *Journal of Veterinary Diagnostic Investigation*, **2022**, 10406387221078583	1.5	1
101	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	2.7	1
100	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**, e0263421	8.9	1
99	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	3.7	1
98	Evaluation of the intranasal route for porcine reproductive and respiratory disease modified-live virus vaccination. *Vaccine*, **2021**, 39, 6852-6859	4.1	2
97	Machine Learning Prediction and Experimental Validation of Antigenic Drift in H3 Influenza A Viruses in Swine. *MSphere*, **2021**, 6,	5	1
96	Ambient hydrogen sulfide exposure increases the severity of influenza A virus infection in swine. *Archives of Environmental and Occupational Health*, **2021**, 76, 526-538	2	0
95	Adapting a porcine reproductive and respiratory syndrome virus (PRRSV) oral fluid antibody ELISA to routine surveillance. *Preventive Veterinary Medicine*, **2021**, 188, 105250	3.1	
94	Data standardization implementation and applications within and among diagnostic laboratories: integrating and monitoring enteric coronaviruses. *Journal of Veterinary Diagnostic Investigation*, **2021**, 33, 457-468	1.5	1
93	Association of wild-type PRRSV detection patterns with mortality of MLV-vaccinated growing pig groups. *Preventive Veterinary Medicine*, **2021**, 189, 105270	3.1	1
92	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	3.1	3
91	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	1.3	4
90	PRRSV2 genetic diversity defined by RFLP patterns in the United States from 2007 to 2019. *Journal of Veterinary Diagnostic Investigation*, **2021**, 33, 920-931	1.5	1
89	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,	9.7	6
88	Characterization of contemporary 2010.1 H3N2 swine influenza A viruses circulating in United States pigs. *Virology*, **2021**, 553, 94-101	3.6	2

87	Maternal Autogenous Inactivated Virus Vaccination Boosts Immunity to PRRSV in Piglets. *Vaccines*, **2021**, 9,	5.3	5
86	Environmental Sampling for Avian Influenza Virus Detection in Commercial Layer Facilities. *Avian Diseases*, **2021**, 65, 391-400	1.6	0
85	Behavioral Monitoring Tool for Pig Farmers: Ear Tag Sensors, Machine Intelligence, and Technology Adoption Roadmap. *Animals*, **2021**, 11,	3.1	5
84	Probability of PRRS virus detection in pooled processing fluid samples. *Veterinary Microbiology*, **2021**, 261, 109190	3.3	2
83	Pathogenesis of a novel porcine parainfluenza virus type 1 isolate in conventional and colostrum deprived/caesarean derived pigs. *Virology*, **2021**, 563, 88-97	3.6	3
82	Practical aspects of PRRSV RNA detection in processing fluids collected in commercial swine farms. *Preventive Veterinary Medicine*, **2020**, 180, 105021	3.1	8
81	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,	6.6	8
80	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	1.5	11
79	Primary Swine Respiratory Epithelial Cell Lines for the Efficient Isolation and Propagation of Influenza A Viruses. *Journal of Virology*, **2020**, 94,	6.6	2
78	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	1.4	0
77	Isolation of Swine Influenza A Virus in Cell Cultures and Embryonated Chicken Eggs. *Methods in Molecular Biology*, **2020**, 2123, 281-294	1.4	3
76	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,	0.7	9
75	Genetically divergent porcine sapovirus identified in pigs, United States. *Transboundary and Emerging Diseases*, **2020**, 67, 18-28	4.2	4
74	Phylogenetics, Genomic Recombination, and NSP2 Polymorphic Patterns of Porcine Reproductive and Respiratory Syndrome Virus in China and the United States in 2014-2018. *Journal of Virology*, **2020**, 94,	6.6	27
73	Assessing the effects of medium-chain fatty acids and fat sources on PEDV infectivity. *Translational Animal Science*, **2020**, 4, txz179	1.4	13
72	Polioencephalomyelitis in Domestic Swine Associated With Porcine Astrovirus Type 3. *Veterinary Pathology*, **2020**, 57, 82-89	2.8	14
71	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	1.4	7
70	A Porcine circovirus type 2b (PCV2b)-based experimental vaccine is effective in the PCV2b-Mycoplasma hyopneumoniae coinfection pig model. *Vaccine*, **2019**, 37, 6688-6695	4.1	5

69	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	3.3	10
68	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	4.1	10
67	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	2.7	10
66	Alphavirus-vectored hemagglutinin subunit vaccine provides partial protection against heterologous challenge in pigs. *Vaccine*, **2019**, 37, 1533-1539	4.1	8
65	octoFLU: Automated Classification for the Evolutionary Origin of Influenza A Virus Gene Sequences Detected in U.S. Swine. *Microbiology Resource Announcements*, **2019**, 8,	1.3	14
64	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	3.3	7
63	Recombination between Vaccine and Field Strains of Porcine Reproductive and Respiratory Syndrome Virus. *Emerging Infectious Diseases*, **2019**, 25, 2335-2337	10.2	18
62	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	3.3	6
61	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	2.3	10
60	Vaccination of pigs with a codon-pair bias de-optimized live attenuated influenza vaccine protects from homologous challenge. *Vaccine*, **2018**, 36, 1101-1107	4.1	13
59	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	4.2	13
58	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	6.1	34
57	Evidence of porcine epidemic diarrhea virus (PEDV) shedding in semen from infected specific pathogen-free boars. *Veterinary Research*, **2018**, 49, 7	3.8	17
56	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	3.7	2
55	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	3.6	38
54	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	3.6	25
53	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,	1.3	11
52	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	1.5	3

51	The type of adjuvant in whole inactivated influenza a virus vaccines impacts vaccine-associated enhanced respiratory disease. *Vaccine*, **2018**, 36, 6103-6110	4.1	15
50	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,	6.6	8
49	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	2.6	6
48	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, 105	18.9	21
47	Sampling guidelines for oral fluid-based surveys of group-housed animals. *Veterinary Microbiology*, **2017**, 209, 20-29	3.3	32
46	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	1.5	48
45	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,	6.6	34
44	Characterizing the rapid spread of porcine epidemic diarrhea virus (PEDV) through an animal food manufacturing facility. *PLoS ONE*, **2017**, 12, e0187309	3.7	20
43	Detection and characterization of an H4N6 avian-lineage influenza A virus in pigs in the Midwestern United States. *Virology*, **2017**, 511, 56-65	3.6	16
42	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	2.5	3
41	Complete Genome Sequence of Strain USA/MN25890NS/2016, Isolated in the United States. *Genome Announcements*, **2017**, 5,		6
40	Evaluating the role of wild songbirds or rodents in spreading avian influenza virus across an agricultural landscape. *PeerJ*, **2017**, 5, e4060	3.1	6
39	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	4.9	9
38	The Molecular Determinants of Antibody Recognition and Antigenic Drift in the H3 Hemagglutinin of Swine Influenza A Virus. *Journal of Virology*, **2016**, 90, 8266-80	6.6	31
37	The avian-origin H3N2 canine influenza virus that recently emerged in the United States has limited replication in swine. *Influenza and Other Respiratory Viruses*, **2016**, 10, 429-32	5.6	7
36	Porcine epidemic diarrhea virus (PEDV) detection and antibody response in commercial growing pigs. *BMC Veterinary Research*, **2016**, 12, 99	2.7	36
35	Neuraminidase inhibiting antibody responses in pigs differ between influenza A virus N2 lineages and by vaccine type. *Vaccine*, **2016**, 34, 3773-9	4.1	9
34	Heterologous challenge in the presence of maternally-derived antibodies results in vaccine-associated enhanced respiratory disease in weaned piglets. *Virology*, **2016**, 491, 79-88	3.6	22

33	Widespread detection and characterization of porcine parainfluenza virus 1 in pigs in the USA. *Journal of General Virology*, **2016**, 97, 281-286	4.9	21
32	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	4.9	60
31	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	4.9	31
30	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		13
29	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	2.6	32
28	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	2.7	27
27	Outbreak of H5N2 highly pathogenic avian Influenza A virus infection in two commercial layer facilities: lesions and viral antigen distribution. *Journal of Veterinary Diagnostic Investigation*, **2016**, 28, 568-73	1.5	3
26	PCR-based retrospective evaluation of diagnostic samples for emergence of porcine deltacoronavirus in US swine. *Veterinary Microbiology*, **2015**, 179, 296-8	3.3	26
25	Pathogenicity and pathogenesis of a United States porcine deltacoronavirus cell culture isolate in 5-day-old neonatal piglets. *Virology*, **2015**, 482, 51-9	3.6	111
24	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, 1109-20		10
23	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, 11213-22	6.6	57
22	Whole-Genome Sequences of Novel Porcine Circovirus Type 2 Viruses Detected in Swine from Mexico and the United States. *Genome Announcements*, **2015**, 3,		35
21	Full-Length Genome Sequences of Senecavirus A from Recent Idiopathic Vesicular Disease Outbreaks in U.S. Swine. *Genome Announcements*, **2015**, 3,		30
20	Evaluation of humoral immune status in porcine epidemic diarrhea virus (PEDV) infected sows under field conditions. *Veterinary Research*, **2015**, 46, 140	3.8	19
19	Effect of Porcine Epidemic Diarrhea Virus Infectious Doses on Infection Outcomes in Naïve Conventional Neonatal and Weaned Pigs. *PLoS ONE*, **2015**, 10, e0139266	3.7	73
18	Discovery of a novel putative atypical porcine pestivirus in pigs in the USA. *Journal of General Virology*, **2015**, 96, 2994-2998	4.9	118
17	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	3.6	43
16	Pathogenesis and vaccination of influenza A virus in swine. *Current Topics in Microbiology and Immunology*, **2014**, 385, 307-26	3.3	31

15	Influenza A virus hemagglutinin protein subunit vaccine elicits vaccine-associated enhanced respiratory disease in pigs. *Vaccine*, **2014**, 32, 5170-6	4.1	33
14	Porcine reproductive and respiratory syndrome virus (PRRSV) surveillance using pre-weaning oral fluid samples detects circulation of wild-type PRRSV. *Veterinary Microbiology*, **2014**, 168, 331-9	3.3	30
13	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, 234-43	9.7	277
12	Serum virus neutralization assay for detection and quantitation of serum-neutralizing antibodies to influenza A virus in swine. *Methods in Molecular Biology*, **2014**, 1161, 313-24	1.4	27
11	Role of transportation in spread of porcine epidemic diarrhea virus infection, United States. *Emerging Infectious Diseases*, **2014**, 20, 872-4	10.2	137
10	Reply to "classification of emergent U.S. strains of porcine epidemic diarrhea virus by phylogenetic analysis of nucleocapsid and ORF3 genes". *Journal of Clinical Microbiology*, **2014**, 52, 3511-4	9.7	3
9	Hemagglutinin inhibition assay with swine sera. *Methods in Molecular Biology*, **2014**, 1161, 295-301	1.4	31
8	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, 303-12	1.4	5
7	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, 9895-903	6.6	68
6	Vaccine-induced anti-HA2 antibodies promote virus fusion and enhance influenza virus respiratory disease. *Science Translational Medicine*, **2013**, 5, 200ra114	17.5	158
5	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. *Influenza and Other Respiratory Viruses*, **2013**, 7 Suppl 4, 32-41	5.6	27
4	Vaccine-associated enhanced respiratory disease does not interfere with the adaptive immune response following challenge with pandemic A/H1N1 2009. *Viral Immunology*, **2013**, 26, 314-21	1.7	7
3	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	6.4	15
2	Enhanced pneumonia and disease in pigs vaccinated with an inactivated human-like (δ-cluster) H1N2 vaccine and challenged with pandemic 2009 H1N1 influenza virus. *Vaccine*, **2011**, 29, 2712-9	4.1	89
1	Coordinated evolution between N2 neuraminidase and H1 and H3 hemagglutinin genes increased influenza A virus genetic diversity in swine		2