Volker Gerdts

List of Publications by Year
in descending order

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99	3,947	117625	133252
papers	citations	34 h-index	59 g-index

102	102	102	5303
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The pig: a model for human infectious diseases. Trends in Microbiology, 2012, 20, 50-57.	7.7	803
2	Humoral and cellular factors of maternal immunity in swine. Developmental and Comparative Immunology, 2009, 33, 384-393.	2.3	202
3	Vaccines for porcine epidemic diarrhea virus and other swine coronaviruses. Veterinary Microbiology, 2017, 206, 45-51.	1.9	123
4	Early immune response followingSalmonella entericasubspeciesentericaserovar Typhimurium infection in porcine jejunal gut loops. Veterinary Research, 2009, 40, 05.	3.0	121
5	Combination adjuvants: the next generation of adjuvants?. Expert Review of Vaccines, 2011, 10, 95-107.	4.4	97
6	Large Animal Models for Vaccine Development and Testing. ILAR Journal, 2015, 56, 53-62.	1.8	94
7	The Host Defense Peptide Beta-Defensin 1 Confers Protection against Bordetella pertussis in Newborn Piglets. Infection and Immunity, 2006, 74, 2338-2352.	2.2	81
8	Peste des Petits Ruminants Virus Tissue Tropism and Pathogenesis in Sheep and Goats following Experimental Infection. PLoS ONE, 2014, 9, e87145.	2.5	78
9	S1 domain of the porcine epidemic diarrhea virus spike protein as a vaccine antigen. Virology Journal, 2016, 13, 57.	3.4	77
10	Fetal immunization by a DNA vaccine delivered into the oral cavity. Nature Medicine, 2000, 6, 929-932.	30.7	75
11	A novel vaccine adjuvant comprised of a synthetic innate defence regulator peptide and CpG oligonucleotide links innate and adaptive immunity. Vaccine, 2009, 27, 4662-4671.	3.8	72
12	Mucosal delivery of vaccines in domestic animals. Veterinary Research, 2006, 37, 487-510.	3.0	71
13	Potency of an experimental DNA vaccine against Aujeszky's disease in pigs. Veterinary Microbiology, 1999, 66, 1-13.	1.9	68
14	The benefits of using diverse animal models for studying pertussis. Trends in Microbiology, 2007, 15, 462-468.	7.7	61
15	SARS-CoV-2 infection in the Syrian hamster model causes inflammation as well as type I interferon dysregulation in both respiratory and non-respiratory tissues including the heart and kidney. PLoS Pathogens, 2021, 17, e1009705.	4.7	60
16	Commensal Bacteria and Expression of Two Major Intestinal Chemokines, TECK/CCL25 and MEC/CCL28, and Their Receptors. PLoS ONE, 2007, 2, e677.	2.5	60
17	Maternal Immunity Provides Protection against Pertussis in Newborn Piglets. Infection and Immunity, 2006, 74, 2619-2627.	2.2	58
18	CpG Oligodeoxynucleotides Activate Innate Immune Response that Suppresses Infectious Bronchitis Virus Replication in Chicken Embryos. Avian Diseases, 2009, 53, 261-267.	1.0	54

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19	Use of animal models in the development of human vaccines. Future Microbiology, 2007, 2, 667-675.	2.0	50
20	Oral DNA Vaccination In Utero Induces Mucosal Immunity and Immune Memory in the Neonate. Journal of Immunology, 2002, 168, 1877-1885.	0.8	49
21	CD71+ erythroid suppressor cells impair adaptive immunity against Bordetella pertussis. Scientific Reports, 2017, 7, 7728.	3.3	49
22	The African strain of Zika virus causes more severe in utero infection than Asian strain in a porcine fetal transmission model. Emerging Microbes and Infections, 2019, 8, 1098-1107.	6.5	49
23	New insights into the dual recruitment of IgA+ B cells in the developing mammary gland. Molecular Immunology, 2008, 45, 3354-3362.	2.2	48
24	The Potential of Polyphosphazenes for Delivery of Vaccine Antigens and Immunotherapeutic Agents. Current Drug Delivery, 2010, 7, 13-20.	1.6	48
25	Recent advances in the use of DNA vaccines for the treatment of diseases of farmed animals. Advanced Drug Delivery Reviews, 2000, 43, 13-28.	13.7	45
26	Multiple intestinal â€˜loopsâ€™ provide an in vivo model to analyse multiple mucosal immune responses. Journal of Immunological Methods, 2001, 256, 19-33.	1.4	45
27	Vaccination of koalas (Phascolarctos cinereus) with a recombinant chlamydial major outer membrane protein adjuvanted with poly I:C, a host defense peptide and polyphosphazine, elicits strong and long lasting cellular and humoral immune responses. Vaccine, 2014, 32, 5781-5786.	3.8	44
28	Expression of TECK/CCL25 and MEC/CCL28 chemokines and their respective receptors CCR9 and CCR10 in porcine mucosal tissues. Veterinary Immunology and Immunopathology, 2006, 113, 313-327.	1.2	40
29	Influence of maternal antibodies on active pertussis toxoid immunization of neonatal mice and piglets. Vaccine, 2011, 29, 7718-7726.	3.8	40
30	Carrier molecules for use in veterinary vaccines. Vaccine, 2013, 31, 596-602.	3.8	40
31	A novel combination adjuvant platform for human and animal vaccines. Vaccine, 2017, 35, 4486-4489.	3.8	40
32	Veterinary vaccines: alternatives to antibiotics?. Animal Health Research Reviews, 2008, 9, 187-199.	3.1	39
33	Novel vaccine formulations against pertussis offer earlier onset of immunity and provide protection in the presence of maternal antibodies. Vaccine, 2013, 31, 3148-3155.	3.8	39
34	Mouse and Pig Models for Studies of Natural and Vaccine-Induced Immunity to Bordetella pertussis. Journal of Infectious Diseases, 2014, 209, S16-S19.	4.0	38
35	Zika Virus Causes Persistent Infection in Porcine Conceptuses and may Impair Health in Offspring. EBioMedicine, 2017, 25, 73-86.	6.1	38
36	Antibody Response Specific to the Capsular Polysaccharide Is Impaired in Streptococcus suis Serotype 2-Infected Animals. Infection and Immunity, 2015, 83, 441-453.	2.2	36

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37	Neonatal pigs are susceptible to experimental Zika virus infection. Emerging Microbes and Infections, 2017, 6, 1-4.	6.5	34
38	Capripoxvirus-vectored vaccines against livestock diseases in Africa. Antiviral Research, 2013, 98, 217-227.	4.1	33
39	A lumpy skin disease virus deficient of an IL-10 gene homologue provides protective immunity against virulent capripoxvirus challenge in sheep and goats. Antiviral Research, 2015, 123, 39-49.	4.1	33
40	CpG-Recoding in Zika Virus Genome Causes Host-Age-Dependent Attenuation of Infection With Protection Against Lethal Heterologous Challenge in Mice. Frontiers in Immunology, 2019, 10, 3077.	4.8	33
41	Induction, regulation and physiological role of IL-17 secreting helper T-cells isolated from PBMC, thymus, and lung lymphocytes of young pigs. Veterinary Immunology and Immunopathology, 2011, 144, 448-454.	1.2	31
42	CpG-ODNs induced changes in cytokine/chemokines genes expression associated with suppression of infectious bronchitis virus replication in chicken lungs. Veterinary Immunology and Immunopathology, 2014, 160, 209-217.	1.2	30
43	Molecular cloning and functional characterization of porcine CCL28: Possible involvement in homing of IgA antibody secreting cells into the mammary gland. Molecular Immunology, 2008, 45, 271-277.	2.2	27
44	PCEP enhances IgA mucosal immune responses in mice following different immunization routes with influenza virus antigens. Journal of Immune Based Therapies and Vaccines, 2010, 8, 4.	2.4	26
45	Intranasal vaccination with an adjuvanted polyphosphazenes nanoparticle-based vaccine formulation stimulates protective immune responses in mice. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 2169-2178.	3.3	25
46	Construction of a Noninfectious SARS-CoV-2 Replicon for Antiviral-Drug Testing and Gene Function Studies. Journal of Virology, 2021, 95, e0068721.	3.4	25
47	Immunization of a wild koala population with a recombinant Chlamydia pecorum Major Outer Membrane Protein (MOMP) or Polymorphic Membrane Protein (PMP) based vaccine: New insights into immune response, protection and clearance. PLoS ONE, 2017, 12, e0178786.	2.5	24
48	Contagious Bovine and Caprine Pleuropneumonia: a research communityâ€™s recommendations for the development of better vaccines. Npj Vaccines, 2020, 5, 66.	6.0	23
49	Animal board invited review: Risks of zoonotic disease emergence at the interface of wildlife and livestock systems. Animal, 2021, 15, 100241.	3.3	23
50	Antibody and Cytokine Responses of Koalas (Phascolarctos cinereus) Vaccinated with Recombinant Chlamydial Major Outer Membrane Protein (MOMP) with Two Different Adjuvants. PLoS ONE, 2016, 11, e0156094.	2.5	23
51	Pseudorabies Virus Expressing Bovine Herpesvirus 1 Glycoprotein B Exhibits Altered Neurotropism and Increased Neurovirulence. Journal of Virology, 2000, 74, 817-827.	3.4	22
52	Expression of mucosal chemokines TECK/CCL25 and MEC/CCL28 during fetal development of the ovine mucosal immune system. Immunology, 2007, 120, 544-555.	4.4	22
53	Protective Role of Passively Transferred Maternal Cytokines against Bordetella pertussis Infection in Newborn Piglets. Infection and Immunity, 2017, 85, .	2.2	22
54	Contribution of the swine model in the study of human sexually transmitted infections. Infection, Genetics and Evolution, 2018, 66, 346-360.	2.3	22

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55	A lipidic delivery system of a triple vaccine adjuvant enhances mucosal immunity following nasal administration in mice. Vaccine, 2019, 37, 1503-1515.	3.8	22
56	Enzymatic Modification of Lipid A by ArnT Protects Bordetella bronchiseptica against Cationic Peptides and Is Required for Transmission. Infection and Immunity, 2014, 82, 491-499.	2.2	21
57	c-di-GMP Enhances Protective Innate Immunity in a Murine Model of Pertussis. PLoS ONE, 2014, 9, e109778.	2.5	21
58	Immune responses to in ovo vaccine formulations containing inactivated fowl adenovirus 8b with poly[di(sodium carboxylatoethylphenoxy)]phosphazene (PCEP) and avian beta defensin as adjuvants in chickens. Vaccine, 2017, 35, 981-986.	3.8	20
59	Multistage vaccines containing outer membrane, type III secretion system and inclusion membrane proteins protects against a Chlamydia genital tract infection and pathology. Vaccine, 2017, 35, 3883-3888.	3.8	18
60	Persistent Zika virus infection in porcine conceptuses is associated with elevated in utero cortisol levels. Virulence, 2018, 9, 1338-1343.	4.4	18
61	Subclinical in utero Zika virus infection is associated with interferon alpha sequelae and sex-specific molecular brain pathology in asymptomatic porcine offspring. PLoS Pathogens, 2019, 15, e1008038.	4.7	18
62	Infection withBordetella parapertussisbut NotBordetella pertussisCauses Pertussisâ€Like Disease in Older Pigs. Journal of Infectious Diseases, 2008, 198, 384-392.	4.0	17
63	Intradermal immunization with inactivated swine influenza virus and adjuvant polydi(sodium) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf reduced lung viral titres in pigs. Vaccine, 2018, 36, 1606-1613.	3.8	16
64	Zika Virus with Increased CpG Dinucleotide Frequencies Shows Oncolytic Activity in Glioblastoma Stem Cells. Viruses, 2020, 12, 579.	3.3	16
65	Protein chimeras containing the Mycoplasma bovis GAPDH protein and bovine host-defence peptides retain the properties of the individual components. Microbial Pathogenesis, 2011, 50, 269-277.	2.9	15
66	In OvoAdministration of Innate Immune Stimulants and Protection from Early Chick Mortalities due to Yolk Sac Infection. Avian Diseases, 2018, 62, 316-321.	1.0	15
67	Sex and age bias viral burden and interferon responses during SARS-CoV-2 infection in ferrets. Scientific Reports, 2021, 11, 14536.	3.3	14
68	Caspase-1 Dependent IL-1Î² Secretion and Antigen-Specific T-Cell Activation by the Novel Adjuvant, PCEP. Vaccines, 2014, 2, 500-514.	4.4	13
69	Vaccination of koalas (Phascolarctos cinereus) against Chlamydia pecorum using synthetic peptides derived from the major outer membrane protein. PLoS ONE, 2018, 13, e0200112.	2.5	12
70	The Importance of Animal Models in the Development of Vaccines. , 2012, , 251-264.		11
71	Protection of neonates and infants by maternal immunization. Expert Review of Vaccines, 2016, 15, 1347-1349.	4.4	11
72	Avian antimicrobial peptides: in vitro and in ovo characterization and protection from early chick mortality caused by yolk sac infection. Scientific Reports, 2021, 11, 2132.	3.3	11

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73	Animal models for neonatal diseases in humans. Vaccine, 2013, 31, 2489-2499.	3.8	10
74	Capsular polysaccharide from Mycoplasma mycoides subsp. mycoides shows potential for protection against contagious bovine pleuropneumonia. Veterinary Immunology and Immunopathology, 2016, 178, 64-69.	1.2	10
75	Safety and immunogenicity of a prototype anti-Chlamydia pecorum recombinant protein vaccine in lambs and pregnant ewes. Vaccine, 2017, 35, 3461-3465.	3.8	10
76	Biological roles of host defense peptides: lessons from transgenic animals and bioengineered tissues. Cell and Tissue Research, 2011, 343, 213-225.	2.9	9
77	Immunogenicity of convalescent and vaccinated sera against clinical isolates of ancestral SARS-CoV-2, Beta, Delta, and Omicron variants. Med, 2022, 3, 422-432.e3.	4.4	9
78	High dosage of zinc modulates T-cells in a time-dependent manner within porcine gut-associated lymphatic tissue. British Journal of Nutrition, 2018, 120, 1349-1358.	2.3	8
79	Synthetic Cationic Peptide IDR-1002 and Human Cathelicidin LL37 Modulate the Cell Innate Response but Differentially Impact PRRSV Replication in vitro. Frontiers in Veterinary Science, 2019, 6, 233.	2.2	8
80	Regional Dichotomy in Enteric Mucosal Immune Responses to a Persistent Mycobacterium avium ssp. paratuberculosis Infection. Frontiers in Immunology, 2020, 11, 1020.	4.8	8
81	Innate immunemodulator containing adjuvant formulated HA based vaccine protects mice from lethal infection of highly pathogenic avian influenza H5N1 virus. Vaccine, 2020, 38, 2387-2395.	3.8	8
82	Mucosal Vaccination with UV-Inactivated Chlamydia suis in Pre-Exposed Outbred Pigs Decreases Pathogen Load and Induces CD4 T-Cell Maturation into IFN-Î³+ Effector Memory Cells. Vaccines, 2020, 8, 353.	4.4	7
83	A Porcine Model of Zika Virus Infection to Profile the In Utero Interferon Alpha Response. Methods in Molecular Biology, 2020, 2142, 181-195.	0.9	7
84	Centenarians and extremely old people living with frailty can elicit durable SARS-CoV-2 spike specific IgG antibodies with virus neutralization functions following virus infection as determined by serological study. EClinicalMedicine, 2021, 37, 100975.	7.1	6
85	DNA vaccination in utero: a new approach to induce protective immunity in the newborn. Vaccine, 2004, 22, 1717-1727.	3.8	5
86	Susceptibility of Chicken Embryos, Sheep, Cattle, Pigs, and Chickens to Zika Virus Infection. Frontiers in Veterinary Science, 2020, 7, 23.	2.2	5
87	Assessing the In Vivo Effectiveness of Cationic Lipid Nanoparticles with a Triple Adjuvant for Intranasal Vaccination against the Respiratory Pathogen Bordetella pertussis. Molecular Pharmaceutics, 2022, 19, 1814-1824.	4.6	5
88	Oral antigen exposure in newborn piglets circumvents induction of oral tolerance in response to intraperitoneal vaccination in later life. BMC Veterinary Research, 2015, 11, 50.	1.9	4
89	Baseline analysis of Mycoplasma mycoides subsp. mycoides antigens as targets for a DIVA assay for use with a subunit vaccine for contagious bovine pleuropneumonia. BMC Veterinary Research, 2020, 16, 236.	1.9	4
90	Does adjuvanticity depend on the ability to recruit specific immune cells?. Expert Review of Vaccines, 2011, 10, 433-435.	4.4	3

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91	Transmissible Gastroenteritis Virus of Pigs and Porcine Epidemic Diarrhea Virus (Coronaviridae). , 2021, , 850-853.		3
92	A bivalent live attenuated influenza virus vaccine protects against H1N2 and H3N2 viral infection in swine. Veterinary Microbiology, 2021, 253, 108968.	1.9	3
93	Domestic pigs experimentally infected with Mycobacterium bovis and Mycobacterium tuberculosis exhibit different disease outcomes. Tuberculosis, 2022, 133, 102167.	1.9	3
94	Characterization of Dosage Levels for In Ovo Administration of Innate Immune Stimulants for Prevention of Yolk Sac Infection in Chicks. Veterinary Sciences, 2022, 9, 203.	1.7	3
95	High-resolution analysis of long-term serum antibodies in humans following convalescence of SARS-CoV-2 infection. Scientific Reports, 2022, 12, .	3.3	3
96	Future vaccines for a globalized world. Emerging Microbes and Infections, 2012, 1, 1-2.	6.5	2
97	RGDSK Peptide Functionalized Helical Rosette Nanotubes (RGDSKâ€HRNs) Inhibit E. coli Adherence to Jejunal Epithelium by Blocking Integrin Î±vÎ²3. FASEB Journal, 2018, 32, 406.9.	0.5	0
98	Integrin alpha-v/beta3 expression in equine lungs and jejunum. Canadian Journal of Veterinary Research, 2020, 84, 245-251.	0.2	0
99	A Bovine Enteric Infection Model to Analyze Parenteral Vaccine-Induced Mucosal Immunity and Accelerate Vaccine Discovery. Frontiers in Immunology, 2020, 11, 586659.	4.8	0