

Bert Devriendt

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

2,159
citations

257450
24
h-index

289244
40
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81
all docs

81
docs citations

81
times ranked

2620
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial proteogenomics reveals distinct and evolutionarily conserved hepatic macrophage niches. <i>Cell</i> , 2022, 185, 379-396.e38.	28.9	343
2	Advances in Oral Subunit Vaccine Design. <i>Vaccines</i> , 2021, 9, 1.	4.4	102
3	Vaccines as alternatives to antibiotics for food producing animals. Part 1: challenges and needs. <i>Veterinary Research</i> , 2018, 49, 64.	3.0	84
4	Crossing the barrier: Targeting epithelial receptors for enhanced oral vaccine delivery. <i>Journal of Controlled Release</i> , 2012, 160, 431-439.	9.9	81
5	Enterotoxigenic <i>Escherichia coli</i> (K88) induce proinflammatory responses in porcine intestinal epithelial cells. <i>Developmental and Comparative Immunology</i> , 2010, 34, 1175-1182.	2.3	80
6	The food contaminant fumonisin B1 reduces the maturation of porcine CD11R1+ intestinal antigen presenting cells and antigen-specific immune responses, leading to a prolonged intestinal ETEC infection. <i>Veterinary Research</i> , 2009, 40, 40.	3.0	79
7	Heat-Stable Enterotoxins of Enterotoxigenic <i>Escherichia coli</i> and Their Impact on Host Immunity. <i>Toxins</i> , 2019, 11, 24.	3.4	66
8	Vaccines as alternatives to antibiotics for food producing animals. Part 2: new approaches and potential solutions. <i>Veterinary Research</i> , 2018, 49, 70.	3.0	57
9	Modulation of CD112 by the alphaherpesvirus gD protein suppresses DNAM-1-dependent NK cell-mediated lysis of infected cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16118-16123.	7.1	55
10	Cell type-specific differences in β -glucan recognition and signalling in porcine innate immune cells. <i>Developmental and Comparative Immunology</i> , 2015, 48, 192-203.	2.3	54
11	Plant-based solutions for veterinary immunotherapeutics and prophylactics. <i>Veterinary Research</i> , 2014, 45, 117.	3.0	50
12	Aflatoxin B1 interferes with the antigen-presenting capacity of porcine dendritic cells. <i>Toxicology in Vitro</i> , 2014, 28, 531-537.	2.4	47
13	The case for plant-made veterinary immunotherapeutics. <i>Biotechnology Advances</i> , 2016, 34, 597-604.	11.7	46
14	β -glucan microparticles targeted to epithelial APN as oral antigen delivery system. <i>Journal of Controlled Release</i> , 2015, 220, 149-159.	9.9	40
15	Immunogenicity and Protection Efficacy of a Naked Self-Replicating mRNA-Based Zika Virus Vaccine. <i>Vaccines</i> , 2019, 7, 96.	4.4	40
16	F4+ ETEC infection and oral immunization with F4 fimbriae elicits an IL-17-dominated immune response. <i>Veterinary Research</i> , 2015, 46, 121.	3.0	35
17	Clathrin-mediated endocytosis and transcytosis of enterotoxigenic <i>Escherichia coli</i> F4 fimbriae in porcine intestinal epithelial cells. <i>Veterinary Immunology and Immunopathology</i> , 2010, 137, 243-250.	1.2	34
18	High susceptibility prevalence for F4 + and F18 + <i>Escherichia coli</i> in Flemish pigs. <i>Veterinary Microbiology</i> , 2017, 202, 52-57.	1.9	32

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19	Helicobacter suis induces changes in gastric inflammation and acid secretion markers in pigs of different ages. Veterinary Research, 2017, 48, 34.	3.0	32
20	Production of a Subunit Vaccine Candidate against Porcine Post-Weaning Diarrhea in High-Biomass Transplastomic Tobacco. PLoS ONE, 2012, 7, e42405.	2.5	32
21	The Pseudorabies Virus Glycoprotein gE/gI Complex Suppresses Type I Interferon Production by Plasmacytoid Dendritic Cells. Journal of Virology, 2017, 91, .	3.4	31
22	Systems Immunology Characterization of Novel Vaccine Formulations for Mycoplasma hyopneumoniae Bacterins. Frontiers in Immunology, 2019, 10, 1087.	4.8	31
23	Randomized field trial on the effects of body weight and short transport on stress and immune variables in 4-week-old dairy calves. Journal of Veterinary Internal Medicine, 2019, 33, 1514-1529.	1.6	28
24	Suppression of NK cells and regulatory T lymphocytes in cats naturally infected with feline infectious peritonitis virus. Veterinary Microbiology, 2013, 164, 46-59.	1.9	27
25	Duality of β-glucan microparticles: antigen carrier and immunostimulants. International Journal of Nanomedicine, 2016, 11, 2463.	6.7	25
26	Suppression of NK cell-mediated cytotoxicity against PRRSV-infected porcine alveolar macrophages in vitro. Veterinary Microbiology, 2013, 164, 261-269.	1.9	24
27	Lactoferrin, a versatile natural antimicrobial glycoprotein that modulates the host's innate immunity. Biochemistry and Cell Biology, 2021, 99, 61-65.	2.0	24
28	Varying Effects of Different β-Glucans on the Maturation of Porcine Monocyte-Derived Dendritic Cells. Vaccine Journal, 2011, 18, 1441-1446.	3.1	22
29	Strain- and Dose-Dependent Reduction of Toxoplasma gondii Burden in Pigs Is Associated with Interferon-Gamma Production by CD8+ Lymphocytes in a Heterologous Challenge Model. Frontiers in Cellular and Infection Microbiology, 2017, 7, 232.	3.9	22
30	Porcine NK cells display features associated with antigen-presenting cells. Journal of Leukocyte Biology, 2018, 103, 129-140.	3.3	22
31	Comparison of the Expression Kinetics and Immunostimulatory Activity of Replicating mRNA, Nonreplicating mRNA, and pDNA after Intradermal Electroporation in Pigs. Molecular Pharmaceutics, 2018, 15, 377-384.	4.6	22
32	Perspectives for improvement of Mycoplasma hyopneumoniae vaccines in pigs. Veterinary Research, 2021, 52, 67.	3.0	21
33	Evaluation of cellular and humoral systemic immune response against Giardia duodenalis infection in cattle. Veterinary Parasitology, 2014, 202, 145-155.	1.8	20
34	Porcine NK Cells Stimulate Proliferation of Pseudorabies Virus-Experienced CD8+ and CD4+CD8+ T Cells. Frontiers in Immunology, 2019, 9, 3188.	4.8	20
35	Targeting of Escherichia coli F4 fimbriae to Fcγ receptors enhances the maturation of porcine dendritic cells. Veterinary Immunology and Immunopathology, 2010, 135, 188-198.	1.2	19
36	Designing oral vaccines targeting intestinal dendritic cells. Expert Opinion on Drug Delivery, 2011, 8, 467-483.	5.0	19

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37	Preferential use of Siglec-1 or Siglec-10 by type 1 and type 2 PRRSV strains to infect PK15S1â€“CD163 and PK15S10â€“CD163 cells. <i>Veterinary Research</i> , 2018, 49, 67.	3.0	18
38	Aflatoxins of type B and G affect porcine dendritic cell maturation<i>in vitro</i>. <i>Journal of Immunotoxicology</i> , 2015, 12, 174-180.	1.7	16
39	Efficacy of three innovative bacterin vaccines against experimental infection with <i>Mycoplasma hyopneumoniae</i> . <i>Veterinary Research</i> , 2019, 50, 91.	3.0	16
40	Glucan particles as suitable carriers for the natural anti-inflammatory compounds curcumin and diplacone â€“ Evaluation in an ex vivo model. <i>International Journal of Pharmaceutics</i> , 2020, 582, 119318.	5.2	16
41	One-step spray-dried polyelectrolyte microparticles enhance the antigen cross-presentation capacity of porcine dendritic cells. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 84, 421-429.	4.3	15
42	Role of antigen specific T and B cells in systemic and mucosal immune responses in ETEC and Shigella infections, and their potential to serve as correlates of protection in vaccine development. <i>Vaccine</i> , 2019, 37, 4787-4793.	3.8	15
43	Phylogeography of Human and Animal <i>Coxiella burnetii</i> Strains: Genetic Fingerprinting of Q Fever in Belgium. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 625576.	3.9	15
44	Mucosal Vaccination Against Periodontal Disease: Current Status and Opportunities. <i>Frontiers in Immunology</i> , 2021, 12, 768397.	4.8	14
45	Maternal immunity enhances systemic recall immune responses upon oral immunization of piglets with F4 fimbriae. <i>Veterinary Research</i> , 2015, 46, 72.	3.0	13
46	Porcine and Bovine Forms of Lactoferrin Inhibit Growth of Porcine Enterotoxigenic <i>Escherichia coli</i> and Degrade Its Virulence Factors. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	13
47	Porcine small intestinal organoids as a model to explore ETECâ€“host interactions in the gut. <i>Veterinary Research</i> , 2021, 52, 94.	3.0	13
48	Pseudorabies Virus Triggers Glycoprotein gE-Mediated ERK1/2 Activation and ERK1/2-Dependent Migratory Behavior in T Cells. <i>Journal of Virology</i> , 2015, 89, 2149-2156.	3.4	12
49	Speciesâ€“specific immunity to <i>Helicobacter suis</i>. <i>Helicobacter</i> , 2017, 22, e12375.	3.5	12
50	Evaluating single-domain antibodies as carriers for targeted vaccine delivery to the small intestinal epithelium. <i>Journal of Controlled Release</i> , 2020, 321, 416-429.	9.9	12
51	Particulate matter and airborne endotoxin concentration in calf barns and their association with lung consolidation, inflammation, and infection. <i>Journal of Dairy Science</i> , 2021, 104, 5932-5947.	3.4	12
52	The immune response against <i>Chlamydia suis</i> genital tract infection partially protects against re-infection. <i>Veterinary Research</i> , 2014, 45, 95.	3.0	11
53	<i>Giardia duodenalis</i> stimulates partial maturation of bovine dendritic cells associated with altered cytokine secretion and induction of Tâ€“cell proliferation. <i>Parasite Immunology</i> , 2014, 36, 157-169.	1.5	11
54	Toll-like receptor 5-mediated IL-17C expression in intestinal epithelial cells enhances epithelial host defense against F4+ ETEC infection. <i>Veterinary Research</i> , 2019, 50, 48.	3.0	11

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55	Arrival cortisol measurement in veal calves and its association with body weight, protein fractions, animal health and performance. Preventive Veterinary Medicine, 2021, 187, 105251.	1.9	11
56	Î ² -Glucan-Induced IL-10 Secretion by Monocytes Triggers Porcine NK Cell Cytotoxicity. Frontiers in Immunology, 2021, 12, 634402.	4.8	11
57	Natural killer cells: Frequency, phenotype and function in healthy cats. Veterinary Immunology and Immunopathology, 2012, 150, 69-78.	1.2	10
58	Changes in cytokine profiles following treatment with food allergen-specific sublingual immunotherapy in dogs with adverse food reactions. Veterinary Dermatology, 2017, 28, 612-e149.	1.2	10
59	Food allergen-specific sublingual immunotherapy modulates peripheral T cell responses of dogs with adverse food reactions. Veterinary Immunology and Immunopathology, 2019, 212, 38-42.	1.2	10
60	Beta-glucan's varying structure characteristics modulate survival and immune-related genes expression from <i>Vibrio harveyi</i> -infected <i>Artemia franciscana</i> in gnotobiotic conditions. Fish and Shellfish Immunology, 2020, 102, 307-315.	3.6	10
61	Effects of glycerol-esters of saturated short- and medium chain fatty acids on immune, health and growth variables in veal calves. Preventive Veterinary Medicine, 2020, 178, 104983.	1.9	10
62	Rapid production of a chimeric antibody-antigen fusion protein based on 2A-peptide cleavage and green fluorescent protein expression in CHO cells. MAbs, 2019, 11, 559-568.	5.2	9
63	QuilA-Adjuvanted <i>T. gondii</i> Lysate Antigens Trigger Robust Antibody and IFNÎ ³ + T Cell Responses in Pigs Leading to Reduction in Parasite DNA in Tissues Upon Challenge Infection. Frontiers in Immunology, 2019, 10, 2223.	4.8	8
64	Porcine Enterotoxigenic <i>Escherichia coli</i> Strains Differ in Their Capacity To Secrete Enterotoxins through Varying YghG Levels. Applied and Environmental Microbiology, 2020, 86, .	3.1	8
65	The FcÎ ³ receptor expression profile on porcine dendritic cells depends on the nature of the stimulus. Veterinary Immunology and Immunopathology, 2013, 152, 43-49.	1.2	7
66	Early Kinetics of Intestinal Infection and Immune Responses to Two <i>Toxoplasma gondii</i> Strains in Pigs. Frontiers in Cellular and Infection Microbiology, 2020, 10, 161.	3.9	7
67	Can dendritic cells improve whole cancer cell vaccines based on immunogenically killed cancer cells?. Oncoimmunology, 2015, 4, e1048413.	4.6	6
68	Transfer of <i>Mycoplasma hyopneumoniae</i> -specific cell mediated immunity to neonatal piglets. Veterinary Research, 2021, 52, 96.	3.0	5
69	Immortalized porcine mesenchymal cells derived from nasal mucosa, lungs, lymph nodes, spleen and bone marrow retain their stemness properties and trigger the expression of siglec-1 in co-cultured blood monocytic cells. PLoS ONE, 2017, 12, e0186343.	2.5	4
70	Effects of omega-3 fatty acids on immune, health and growth variables in veal calves. Preventive Veterinary Medicine, 2020, 179, 104979.	1.9	3
71	Adjuvanting Allergen Extracts for Sublingual Immunotherapy: Calcitriol Downregulates CXCL8 Production in Primary Sublingual Epithelial Cells. Frontiers in Immunology, 2020, 11, 1033.	4.8	3
72	Influence of parity and reproductive stage on the prevalence of <i>Mycoplasma hyopneumoniae</i> in breeding animals in belgian farrow-to-finish pig herds. Porcine Health Management, 2022, 8, .	2.6	3

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73	Maltose-binding protein is a potential carrier for oral immunizations. Veterinary Immunology and Immunopathology, 2013, 152, 101-108.	1.2	2
74	Antibody-Mediated Targeting of Antigens to Intestinal Aminopeptidase N Elicits Gut IgA Responses in Pigs. Frontiers in Immunology, 2021, 12, 753371.	4.8	2
75	Long-term culture and differentiation of porcine red bone marrow hematopoietic cells co-cultured with immortalized mesenchymal cells. Veterinary Immunology and Immunopathology, 2017, 191, 44-50.	1.2	1
76	Chlamydia trachomatis L2c Infection in a Porcine Model Produced Urogenital Pathology and Failed to Induce Protective Immune Responses Against Re-Infection. Frontiers in Immunology, 2020, 11, 555305.	4.8	1
77	Intestinal Epithelial Cells Modulate the Production of Enterotoxins by Porcine Enterotoxigenic E. coli Strains. International Journal of Molecular Sciences, 2022, 23, 6589.	4.1	1
78	Three cases of alloimmune mediated pancytopenia in calves resembling bovine neonatal pancytopenia. BMC Veterinary Research, 2022, 18, 11.	1.9	0