

Bert Devriendt

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

2,159
citations

257101

24
h-index

288905

40
g-index

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.	13.5	343
2	Advances in Oral Subunit Vaccine Design. <i>Vaccines</i> , 2021, 9, 1.	2.1	102
3	Vaccines as alternatives to antibiotics for food producing animals. Part 1: challenges and needs. <i>Veterinary Research</i> , 2018, 49, 64.	1.1	84
4	Crossing the barrier: Targeting epithelial receptors for enhanced oral vaccine delivery. <i>Journal of Controlled Release</i> , 2012, 160, 431-439.	4.8	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.	1.0	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.	1.1	79
7	Heat-Stable Enterotoxins of Enterotoxigenic <i>Escherichia coli</i> and Their Impact on Host Immunity. <i>Toxins</i> , 2019, 11, 24.	1.5	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.	1.1	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.	3.3	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.	1.0	54
11	Plant-based solutions for veterinary immunotherapeutics and prophylactics. <i>Veterinary Research</i> , 2014, 45, 117.	1.1	50
12	Aflatoxin B1 interferes with the antigen-presenting capacity of porcine dendritic cells. <i>Toxicology in Vitro</i> , 2014, 28, 531-537.	1.1	47
13	The case for plant-made veterinary immunotherapeutics. <i>Biotechnology Advances</i> , 2016, 34, 597-604.	6.0	46
14	β -glucan microparticles targeted to epithelial APN as oral antigen delivery system. <i>Journal of Controlled Release</i> , 2015, 220, 149-159.	4.8	40
15	Immunogenicity and Protection Efficacy of a Naked Self-Replicating mRNA-Based Zika Virus Vaccine. <i>Vaccines</i> , 2019, 7, 96.	2.1	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.	1.1	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.	0.5	34
18	High susceptibility prevalence for F4 + and F18 + <i>Escherichia coli</i> in Flemish pigs. <i>Veterinary Microbiology</i> , 2017, 202, 52-57.	0.8	32

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19	Helicobacter suis induces changes in gastric inflammation and acid secretion markers in pigs of different ages. <i>Veterinary Research</i> , 2017, 48, 34.	1.1	32
20	Production of a Subunit Vaccine Candidate against Porcine Post-Weaning Diarrhea in High-Biomass Transplastomic Tobacco. <i>PLoS ONE</i> , 2012, 7, e42405.	1.1	32
21	The Pseudorabies Virus Glycoprotein gE/gI Complex Suppresses Type I Interferon Production by Plasmacytoid Dendritic Cells. <i>Journal of Virology</i> , 2017, 91, .	1.5	31
22	Systems Immunology Characterization of Novel Vaccine Formulations for <i>Mycoplasma hyopneumoniae</i> Bacterins. <i>Frontiers in Immunology</i> , 2019, 10, 1087.	2.2	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. <i>Journal of Veterinary Internal Medicine</i> , 2019, 33, 1514-1529.	0.6	28
24	Suppression of NK cells and regulatory T lymphocytes in cats naturally infected with feline infectious peritonitis virus. <i>Veterinary Microbiology</i> , 2013, 164, 46-59.	0.8	27
25	Duality of β -glucan microparticles: antigen carrier and immunostimulants. <i>International Journal of Nanomedicine</i> , 2016, 11, 2463.	3.3	25
26	Suppression of NK cell-mediated cytotoxicity against PRRSV-infected porcine alveolar macrophages in vitro. <i>Veterinary Microbiology</i> , 2013, 164, 261-269.	0.8	24
27	Lactoferrin, a versatile natural antimicrobial glycoprotein that modulates the host's innate immunity. <i>Biochemistry and Cell Biology</i> , 2021, 99, 61-65.	0.9	24
28	Varying Effects of Different β -Glucans on the Maturation of Porcine Monocyte-Derived Dendritic Cells. <i>Vaccine Journal</i> , 2011, 18, 1441-1446.	3.2	22
29	Strain- and Dose-Dependent Reduction of <i>Toxoplasma gondii</i> Burden in Pigs Is Associated with Interferon-Gamma Production by CD8 ⁺ Lymphocytes in a Heterologous Challenge Model. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017, 7, 232.	1.8	22
30	Porcine NK cells display features associated with antigen-presenting cells. <i>Journal of Leukocyte Biology</i> , 2018, 103, 129-140.	1.5	22
31	Comparison of the Expression Kinetics and Immunostimulatory Activity of Replicating mRNA, Nonreplicating mRNA, and pDNA after Intradermal Electroporation in Pigs. <i>Molecular Pharmaceutics</i> , 2018, 15, 377-384.	2.3	22
32	Perspectives for improvement of <i>Mycoplasma hyopneumoniae</i> vaccines in pigs. <i>Veterinary Research</i> , 2021, 52, 67.	1.1	21
33	Evaluation of cellular and humoral systemic immune response against <i>Giardia duodenalis</i> infection in cattle. <i>Veterinary Parasitology</i> , 2014, 202, 145-155.	0.7	20
34	Porcine NK Cells Stimulate Proliferation of Pseudorabies Virus-Experienced CD8 ⁺ and CD4 ⁺ CD8 ⁺ T Cells. <i>Frontiers in Immunology</i> , 2019, 9, 3188.	2.2	20
35	Targeting of <i>Escherichia coli</i> F4 fimbriae to Fc γ 3 receptors enhances the maturation of porcine dendritic cells. <i>Veterinary Immunology and Immunopathology</i> , 2010, 135, 188-198.	0.5	19
36	Designing oral vaccines targeting intestinal dendritic cells. <i>Expert Opinion on Drug Delivery</i> , 2011, 8, 467-483.	2.4	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.	1.1	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.	0.9	16
39	Efficacy of three innovative bacterin vaccines against experimental infection with <i>Mycoplasma hyopneumoniae</i> . <i>Veterinary Research</i> , 2019, 50, 91.	1.1	16
40	Glucan particles as suitable carriers for the natural anti-inflammatory compounds curcumin and diplocone â€“ Evaluation in an <i>ex vivo</i> model. <i>International Journal of Pharmaceutics</i> , 2020, 582, 119318.	2.6	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.	2.0	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.	1.7	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.	1.8	15
44	Mucosal Vaccination Against Periodontal Disease: Current Status and Opportunities. <i>Frontiers in Immunology</i> , 2021, 12, 768397.	2.2	14
45	Maternal immunity enhances systemic recall immune responses upon oral immunization of piglets with F4 fimbriae. <i>Veterinary Research</i> , 2015, 46, 72.	1.1	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, .	1.4	13
47	Porcine small intestinal organoids as a model to explore ETECâ€“host interactions in the gut. <i>Veterinary Research</i> , 2021, 52, 94.	1.1	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.	1.5	12
49	Speciesâ€“specific immunity to <i>Helicobacter suis</i> . <i>Helicobacter</i> , 2017, 22, e12375.	1.6	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.	4.8	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.	1.4	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.	1.1	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.	0.7	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.	1.1	11

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55	Arrival cortisol measurement in veal calves and its association with body weight, protein fractions, animal health and performance. <i>Preventive Veterinary Medicine</i> , 2021, 187, 105251.	0.7	11
56	Î ² -Glucan-Induced IL-10 Secretion by Monocytes Triggers Porcine NK Cell Cytotoxicity. <i>Frontiers in Immunology</i> , 2021, 12, 634402.	2.2	11
57	Natural killer cells: Frequency, phenotype and function in healthy cats. <i>Veterinary Immunology and Immunopathology</i> , 2012, 150, 69-78.	0.5	10
58	Changes in cytokine profiles following treatment with food allergen-specific sublingual immunotherapy in dogs with adverse food reactions. <i>Veterinary Dermatology</i> , 2017, 28, 612-e149.	0.4	10
59	Food allergen-specific sublingual immunotherapy modulates peripheral T cell responses of dogs with adverse food reactions. <i>Veterinary Immunology and Immunopathology</i> , 2019, 212, 38-42.	0.5	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. <i>Fish and Shellfish Immunology</i> , 2020, 102, 307-315.	1.6	10
61	Effects of glycerol-esters of saturated short- and medium chain fatty acids on immune, health and growth variables in veal calves. <i>Preventive Veterinary Medicine</i> , 2020, 178, 104983.	0.7	10
62	Rapid production of a chimeric antibody-antigen fusion protein based on 2A-peptide cleavage and green fluorescent protein expression in CHO cells. <i>MAbs</i> , 2019, 11, 559-568.	2.6	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. <i>Frontiers in Immunology</i> , 2019, 10, 2223.	2.2	8
64	Porcine Enterotoxigenic <i>Escherichia coli</i> Strains Differ in Their Capacity To Secrete Enterotoxins through Varying YghG Levels. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	8
65	The FcÎ ³ receptor expression profile on porcine dendritic cells depends on the nature of the stimulus. <i>Veterinary Immunology and Immunopathology</i> , 2013, 152, 43-49.	0.5	7
66	Early Kinetics of Intestinal Infection and Immune Responses to Two <i>Toxoplasma gondii</i> Strains in Pigs. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 161.	1.8	7
67	Can dendritic cells improve whole cancer cell vaccines based on immunogenically killed cancer cells?. <i>Oncolmmunology</i> , 2015, 4, e1048413.	2.1	6
68	Transfer of <i>Mycoplasma hyopneumoniae</i> -specific cell mediated immunity to neonatal piglets. <i>Veterinary Research</i> , 2021, 52, 96.	1.1	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. <i>PLoS ONE</i> , 2017, 12, e0186343.	1.1	4
70	Effects of omega-3 fatty acids on immune, health and growth variables in veal calves. <i>Preventive Veterinary Medicine</i> , 2020, 179, 104979.	0.7	3
71	Adjuvanting Allergen Extracts for Sublingual Immunotherapy: Calcitriol Downregulates CXCL8 Production in Primary Sublingual Epithelial Cells. <i>Frontiers in Immunology</i> , 2020, 11, 1033.	2.2	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. <i>Porcine Health Management</i> , 2022, 8, .	0.9	3

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73	Maltose-binding protein is a potential carrier for oral immunizations. <i>Veterinary Immunology and Immunopathology</i> , 2013, 152, 101-108.	0.5	2
74	Antibody-Mediated Targeting of Antigens to Intestinal Aminopeptidase N Elicits Gut IgA Responses in Pigs. <i>Frontiers in Immunology</i> , 2021, 12, 753371.	2.2	2
75	Long-term culture and differentiation of porcine red bone marrow hematopoietic cells co-cultured with immortalized mesenchymal cells. <i>Veterinary Immunology and Immunopathology</i> , 2017, 191, 44-50.	0.5	1
76	<i>Chlamydia trachomatis</i> L2c Infection in a Porcine Model Produced Urogenital Pathology and Failed to Induce Protective Immune Responses Against Re-Infection. <i>Frontiers in Immunology</i> , 2020, 11, 555305.	2.2	1
77	Intestinal Epithelial Cells Modulate the Production of Enterotoxins by Porcine Enterotoxigenic <i>E. coli</i> Strains. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6589.	1.8	1
78	Three cases of alloimmune mediated pancytopenia in calves resembling bovine neonatal pancytopenia. <i>BMC Veterinary Research</i> , 2022, 18, 11.	0.7	0