

Luke B Borst

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

2,918
citations

159358

30
h-index

182168

51
g-index

88
all docs

88
docs citations

88
times ranked

4820
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating the optimal size of anticancer nanomedicine. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15344-15349.	3.3	523
2	Synthesis and Biological Response of Size-Specific, Monodisperse Drug-Silica Nanoconjugates. ACS Nano, 2012, 6, 3954-3966.	7.3	163
3	Gene Profiling of Canine B-Cell Lymphoma Reveals Germinal Center and Postgerminal Center Subtypes with Different Survival Times, Modeling Human DLBCL. Cancer Research, 2013, 73, 5029-5039.	0.4	118
4	Carbon Monoxide and Heme Oxygenase-1 Prevent Intestinal Inflammation in Mice by Promoting Bacterial Clearance. Gastroenterology, 2013, 144, 789-798.	0.6	102
5	Nucleic acid scavengers inhibit thrombosis without increasing bleeding. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12938-12943.	3.3	92
6	Refining tumor-associated aneuploidy through genomic recoding™ of recurrent DNA copy number aberrations in 150 canine non-Hodgkin lymphomas. Leukemia and Lymphoma, 2011, 52, 1321-1335.	0.6	89
7	Comparative Genomics Reveals Shared Mutational Landscape in Canine Hemangiosarcoma and Human Angiosarcoma. Molecular Cancer Research, 2019, 17, 2410-2421.	1.5	72
8	Pamidronate functionalized nanoconjugates for targeted therapy of focal skeletal malignant osteolysis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4601-9.	3.3	71
9	Targeting Tumor Vasculature with Aptamer-Functionalized Doxorubicin-Polylactide Nanoconjugates for Enhanced Cancer Therapy. ACS Nano, 2015, 9, 5072-5081.	7.3	70
10	Early Life Stress Triggers Persistent Colonic Barrier Dysfunction and Exacerbates Colitis in Adult IL-10 ^{-/-} Mice. Inflammatory Bowel Diseases, 2013, 19, 712-719.	0.9	65
11	Genetic Ablation of Arginase 1 in Macrophages and Neutrophils Enhances Clearance of an Arthritogenic Alphavirus. Journal of Immunology, 2012, 189, 4047-4059.	0.4	64
12	Enterococcus faecalis Gelatinase Mediates Intestinal Permeability via Protease-Activated Receptor 2. Infection and Immunity, 2015, 83, 2762-2770.	1.0	62
13	Lymphoma Immunophenotype of Dogs Determined by Immunohistochemistry, Flow Cytometry, and Polymerase Chain Reaction for Antigen Receptor Rearrangements. Journal of Veterinary Internal Medicine, 2013, 27, 1509-1516.	0.6	61
14	Scavenging nucleic acid debris to combat autoimmunity and infectious disease. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9728-9733.	3.3	60
15	Pathogenesis of Enterococcal Spondylitis Caused by <i>Enterococcus cecorum</i> in Broiler Chickens. Veterinary Pathology, 2017, 54, 61-73.	0.8	56
16	Biological behavior of oral and perioral mast cell tumors in dogs: 44 cases (1996-2006). Journal of the American Veterinary Medical Association, 2010, 237, 936-942.	0.2	55
17	Genomic profiling reveals extensive heterogeneity in somatic DNA copy number aberrations of canine hemangiosarcoma. Chromosome Research, 2014, 22, 305-319.	1.0	54
18	Innate PI3K p110 [̂] Regulates Th1/Th17 Development and Microbiota-Dependent Colitis. Journal of Immunology, 2014, 192, 3958-3968.	0.4	53

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19	An Outbreak and Source Investigation of Enterococcal Spondylitis in Broilers Caused by <i>Enterococcus cecorum</i> . <i>Avian Diseases</i> , 2012, 56, 768-773.	0.4	51
20	Comparative cytogenetic characterization of primary canine melanocytic lesions using array CGH and fluorescence in situ hybridization. <i>Chromosome Research</i> , 2015, 23, 171-186.	1.0	51
21	Molecular epidemiology of <i>Enterococcus cecorum</i> isolates recovered from enterococcal spondylitis outbreaks in the southeastern United States. <i>Avian Pathology</i> , 2012, 41, 479-485.	0.8	49
22	Dietary Iron Deficiency and Oversupplementation Increase Intestinal Permeability, Ion Transport, and Inflammation in Pigs. <i>Journal of Nutrition</i> , 2016, 146, 1499-1505.	1.3	49
23	A Review of <i>Enterococcus cecorum</i> Infection in Poultry. <i>Avian Diseases</i> , 2018, 62, 261-271.	0.4	47
24	NFIL3-Deficient Mice Develop Microbiota-Dependent, IL-12/23-Driven Spontaneous Colitis. <i>Journal of Immunology</i> , 2014, 192, 1918-1927.	0.4	41
25	Acute DNA damage activates the tumour suppressor p53 to promote radiation-induced lymphoma. <i>Nature Communications</i> , 2015, 6, 8477.	5.8	39
26	Early-life dietary spray-dried plasma influences immunological and intestinal injury responses to later-life <i>Salmonella typhimurium</i> challenge. <i>British Journal of Nutrition</i> , 2015, 113, 783-793.	1.2	37
27	Defects in small intestinal epithelial barrier function and morphology associated with peri-weaning failure to thrive syndrome (PFTS) in swine. <i>Research in Veterinary Science</i> , 2012, 93, 975-982.	0.9	36
28	Temporal characterization of wooden breast myopathy (‘woody breast’) severity and correlation with growth rate and lymphocytic phlebitis in three commercial broiler strains and a random-bred broiler strain. <i>Avian Pathology</i> , 2019, 48, 319-328.	0.8	36
29	A Chicken Embryo Lethality Assay for Pathogenic <i>Enterococcus cecorum</i> . <i>Avian Diseases</i> , 2014, 58, 244-248.	0.4	34
30	Comparative Genomic Analysis Identifies Divergent Genomic Features of Pathogenic <i>Enterococcus cecorum</i> Including a Type IC CRISPR-Cas System, a Capsule Locus, an epa-Like Locus, and Putative Host Tissue Binding Proteins. <i>PLoS ONE</i> , 2015, 10, e0121294.	1.1	32
31	Mortality in Kittens Is Associated with a Shift in Ileum Mucosa-Associated Enterococci from <i>Enterococcus hirae</i> to Biofilm-Forming <i>Enterococcus faecalis</i> and Adherent <i>Escherichia coli</i> . <i>Journal of Clinical Microbiology</i> , 2013, 51, 3567-3578.	1.8	31
32	Dual Small-Molecule Targeting of Procaspase-3 Dramatically Enhances Zymogen Activation and Anticancer Activity. <i>Journal of the American Chemical Society</i> , 2014, 136, 1312-1319.	6.6	30
33	Antimicrobial resistance, virulence determinants and genetic profiles of clinical and nonclinical <i>Enterococcus cecorum</i> from poultry. <i>Letters in Applied Microbiology</i> , 2015, 60, 111-119.	1.0	30
34	YaxAB, a <i>Yersinia enterocolitica</i> Pore-Forming Toxin Regulated by RovA. <i>Infection and Immunity</i> , 2013, 81, 4208-4219.	1.0	28
35	Mode and Doppler ultrasonography in pony mares with experimentally induced ascending placentitis. <i>Equine Veterinary Journal</i> , 2012, 44, 88-94.	0.9	25
36	Biological behaviour of canine mandibular osteosarcoma. A retrospective study of 50 cases (1999-2007). <i>Veterinary and Comparative Oncology</i> , 2015, 13, 89-97.	0.8	24

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37	Evaluation of a commercially available modified-live <i>Streptococcus equi</i> subsp <i>equi</i> vaccine in ponies. <i>American Journal of Veterinary Research</i> , 2011, 72, 1130-1138.	0.3	22
38	Characterization of Immune Cell Infiltration Into Canine Intracranial Meningiomas. <i>Veterinary Pathology</i> , 2012, 49, 784-795.	0.8	22
39	Zebrafish (<i>Danio rerio</i>) as a Screen for Attenuation of Lancefield Group C Streptococci and a Model for Streptococcal Pathogenesis. <i>Veterinary Pathology</i> , 2013, 50, 457-467.	0.8	20
40	Molecular characterization of canine BCR-ABL ⁺ positive chronic myelomonocytic leukemia before and after chemotherapy. <i>Veterinary Clinical Pathology</i> , 2013, 42, 314-322.	0.3	20
41	Discovery of a Bovine Enterovirus in Alpaca. <i>PLoS ONE</i> , 2013, 8, e68777.	1.1	18
42	A Novel Method of Core Aspirate Cytology Compared to Fine-Needle Aspiration for Diagnosing Canine Osteosarcoma. <i>Journal of the American Animal Hospital Association</i> , 2011, 47, 317-323.	0.5	17
43	Pro-tumorigenic Effects of Transforming Growth Factor Beta 1 in Canine Osteosarcoma. <i>Journal of Veterinary Internal Medicine</i> , 2014, 28, 894-904.	0.6	17
44	Characterization of BcaA, a Putative Classical Autotransporter Protein in <i>Burkholderia pseudomallei</i> . <i>Infection and Immunity</i> , 2013, 81, 1121-1128.	1.0	16
45	A Multiphasic Typing Approach to Subtype <i>Streptococcus Equi</i> Subspecies <i>Equi</i> . <i>Journal of Veterinary Diagnostic Investigation</i> , 2010, 22, 928-936.	0.5	15
46	Extreme lymphocytosis with myelomonocytic morphology in a horse with diffuse large B-cell lymphoma. <i>Veterinary Clinical Pathology</i> , 2017, 46, 64-71.	0.3	15
47	Culture methods impact recovery of antibiotic-resistant Enterococci including <i>Enterococcus cecorum</i> from pre- and postharvest chicken. <i>Letters in Applied Microbiology</i> , 2017, 64, 210-216.	1.0	15
48	Immune dysregulation and osteosarcoma: <i>Staphylococcus aureus</i> downregulates TGF β ² and heightens the inflammatory signature in human and canine macrophages suppressed by osteosarcoma. <i>Veterinary and Comparative Oncology</i> , 2020, 18, 64-75.	0.8	14
49	Sensitization of Vascular Endothelial Cells to Ionizing Radiation Promotes the Development of Delayed Intestinal Injury in Mice. <i>Radiation Research</i> , 2019, 192, 258.	0.7	13
50	Vaccination of breeder hens with a polyvalent killed vaccine for pathogenic <i>Enterococcus cecorum</i> does not protect offspring from enterococcal spondylitis. <i>Avian Pathology</i> , 2019, 48, 17-24.	0.8	13
51	The role of <i>Enterococcus faecalis</i> during co-infection with avian pathogenic <i>Escherichia coli</i> in avian colibacillosis. <i>Avian Pathology</i> , 2020, 49, 589-599.	0.8	12
52	Integrated immunohistochemical and DNA copy number profiling analysis provides insight into the molecular pathogenesis of canine follicular lymphoma. <i>Veterinary and Comparative Oncology</i> , 2017, 15, 852-867.	0.8	11
53	Alternative lengthening of telomeres does exist in various canine sarcomas. <i>Molecular Carcinogenesis</i> , 2017, 56, 923-935.	1.3	11
54	Personalized-induced neural stem cell therapy: Generation, transplant, and safety in a large animal model. <i>Bioengineering and Translational Medicine</i> , 2021, 6, e10171.	3.9	11

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55	Histopathological features of equine superficial, nonhealing, corneal ulcers. <i>Veterinary Ophthalmology</i> , 2014, 17, 46-52.	0.6	10
56	Coinfection with <i>Eimeria</i> spp. decreases bacteremia and spinal lesions caused by pathogenic <i>Enterococcus cecorum</i> . <i>Animal Feed Science and Technology</i> , 2019, 250, 59-68.	1.1	10
57	Oesophageal eosinophilia accompanies food allergy to hen egg white protein in young pigs. <i>Clinical and Experimental Allergy</i> , 2020, 50, 95-104.	1.4	10
58	Cathepsin K Expression and Activity in Canine Osteosarcoma. <i>Journal of Veterinary Internal Medicine</i> , 2012, 26, 126-134.	0.6	9
59	Chronic Compressive Myelopathy and Progressive Neurologic Signs Associated with Melarsomine Dihydrochloride Administration in a Dog. <i>Journal of the American Animal Hospital Association</i> , 2013, 49, 389-393.	0.5	8
60	A Comprehensive Wellness Program for Veterinary Medical Education: Design and Implementation at North Carolina State University. <i>International Journal of Higher Education</i> , 2016, 6, 74.	0.2	8
61	Wooden Breast in Commercial Broilers Associated with Mortality, Dorsal Recumbency, and Pulmonary Disease. <i>Avian Diseases</i> , 2019, 63, 514.	0.4	8
62	Prevalence and severity of osteochondrosis of the free thoracic vertebra in three modern broiler strains and the Athens Canadian Random Bred control broiler. <i>Avian Pathology</i> , 2018, 47, 152-160.	0.8	7
63	Diagnosis and Management of Wegener's Granulomatosis in a Dog. <i>Journal of Veterinary Dentistry</i> , 2006, 23, 231-236.	0.1	6
64	A Zebrafish Model of Metastatic Colonization Pinpoints Cellular Mechanisms of Circulating Tumor Cell Extravasation. <i>Frontiers in Oncology</i> , 2021, 11, 641187.	1.3	6
65	Clinical Challenge. <i>Journal of Zoo and Wildlife Medicine</i> , 2011, 42, 770-773.	0.3	4
66	Evaluation of the effects of tricaine methanesulfonate on retinal structure and function in koi carp (<i>Cyprinus carpio</i>). <i>Journal of the American Veterinary Medical Association</i> , 2013, 242, 1578-1582.	0.2	4
67	Assessment of a novel nanoparticle hyperthermia therapy in a murine model of osteosarcoma. <i>Veterinary Surgery</i> , 2018, 47, 1021-1030.	0.5	4
68	Development of a Genome-Wide Oligonucleotide Microarray Platform for Detection of DNA Copy Number Aberrations in Feline Cancers. <i>Veterinary Sciences</i> , 2020, 7, 88.	0.6	4
69	Research Note: Repetitive element-based polymerase chain reaction genotyping improves efficiency of <i>Salmonella</i> surveillance in a model broiler production system. <i>Poultry Science</i> , 2020, 99, 2684-2689.	1.5	4
70	Genomic Characterization of a Nalidixic Acid-Resistant <i>Salmonella</i> Enteritidis Strain Causing Persistent Infections in Broiler Chickens. <i>Frontiers in Veterinary Science</i> , 2021, 8, 725737.	0.9	4
71	Detection of <i>Escherichia coli</i> and <i>Enterococcus</i> spp. in dogs with polymicrobial urinary tract infections: A 5-year retrospective study. <i>Journal of Veterinary Internal Medicine</i> , 2022, 36, 1322-1329.	0.6	4
72	Allantoic Metabolites, Progesterone, and Estradiol-17 β Remain Unchanged After Infection in an Experimental Model of Equine Ascending Placentitis. <i>Journal of Equine Veterinary Science</i> , 2019, 73, 95-105.	0.4	3

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73	Bone marrow-derived cells participate in the formation of normal and neoplastic lung stroma. <i>Anticancer Research</i> , 2013, 33, 831-6.	0.5	3
74	Plasma metabolomic profiling of healthy pregnant mares and mares with experimentally induced placentitis. <i>Equine Veterinary Journal</i> , 2021, 53, 85-93.	0.9	2
75	Cranial internal hemipelvectomy (iliectomy) with limb sparing for a dog with ilial chondrosarcoma: A case report. <i>Clinical Case Reports (discontinued)</i> , 2022, 10, e05262.	0.2	2
76	Pathology in Practice. <i>Journal of the American Veterinary Medical Association</i> , 2016, 249, 1023-1026.	0.2	1
77	What Is Your Diagnosis?. <i>Journal of the American Veterinary Medical Association</i> , 2018, 252, 173-175.	0.2	1
78	DESCRIPTION OF GROWTH DYNAMICS OF BIOFILM BACTERIA FOUND IN EXTENDED PORCINE SEMEN. <i>Biology of Reproduction</i> , 2007, 77, 84-85.	1.2	1
79	Dietary Prebiotics and Arachidonic Acid (ARA) Modulate Intestinal Injury and Microbial Taxa Following Acute Dextran Sodium Sulfate Induced Colitis in Formula-Fed Piglets. <i>FASEB Journal</i> , 2017, 31, 1b324.	0.2	1
80	Serum and Colostral Antibody Responses of Pregnant Mares to Salmonella Bacterins and Colostral Antibody Transfer to Their Foals. <i>Journal of Equine Veterinary Science</i> , 2012, 32, 575-578.	0.4	0
81	867 NFIL3 Deficient Mice Develop Severe Innate Immune Mediated Spontaneous Colitis. <i>Gastroenterology</i> , 2012, 142, S-149.	0.6	0
82	Mo1722 Mast Cells Play a Protective Role in Spontaneous Colitis. <i>Gastroenterology</i> , 2014, 146, S-644.	0.6	0
83	Extrauterine Listeriosis in the Gravid Mouse Influences Embryonic Growth and Development. <i>PLoS ONE</i> , 2013, 8, e72601.	1.1	0
84	Creation of a Continent Urinary Bladder Reservoir Vascularized by Omentum as a Possible Surgical Option for Canine Trigonal/Urethral Urothelial Carcinoma. <i>Journal of Investigative Surgery</i> , 2022, 35, 481-495.	0.6	0
85	Pathology in Practice. <i>Journal of the American Veterinary Medical Association</i> , 2022, 260, 1466-1468.	0.2	0