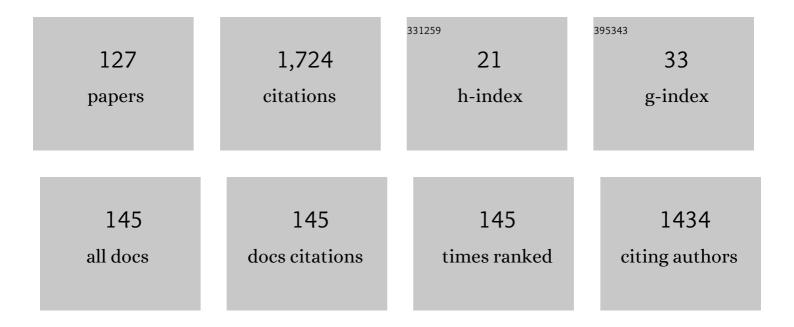
Jonathan Mochel

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Population modeling of tumor growth curves and the reduced Gompertz model improve prediction of the age of experimental tumors. PLoS Computational Biology, 2020, 16, e1007178.	1.5	84
2	Derivation of adult canine intestinal organoids for translational research in gastroenterology. BMC Biology, 2019, 17, 33.	1.7	82
3	Mathematical modeling and simulation in animal health – Part <scp>II</scp> : principles, methods, applications, and value of physiologically based pharmacokinetic modeling in veterinary medicine and food safety assessment. Journal of Veterinary Pharmacology and Therapeutics, 2016, 39, 421-438.	0.6	78
4	The Gut-Brain Axis in Neurodegenerative Diseases and Relevance of the Canine Model: A Review. Frontiers in Aging Neuroscience, 2019, 11, 130.	1.7	76
5	Mathematical modeling and simulation in animal health. Part <scp>III</scp> : Using nonlinear mixedâ€effects to characterize and quantify variability in drug pharmacokinetics. Journal of Veterinary Pharmacology and Therapeutics, 2018, 41, 171-183.	0.6	67
6	Correlating Gastrointestinal Histopathologic Changes to Clinical Disease Activity in Dogs With Idiopathic Inflammatory Bowel Disease. Veterinary Pathology, 2019, 56, 435-443.	0.8	54
7	Modeling of Large Pharmacokinetic Data Using Nonlinear Mixedâ€Effects: A Paradigm Shift in Veterinary Pharmacology. A Case Study With Robenacoxib in Cats. CPT: Pharmacometrics and Systems Pharmacology, 2016, 5, 625-635.	1.3	50
8	Fluorophotometric Assessment of Tear Volume and Turnover Rate in Healthy Dogs and Cats. Journal of Ocular Pharmacology and Therapeutics, 2019, 35, 497-502.	0.6	46
9	Influence of feeding schedules on the chronobiology of renin activity, urinary electrolytes and blood pressure in dogs. Chronobiology International, 2014, 31, 715-730.	0.9	43
10	Pharmacokinetic/Pharmacodynamic Modeling of Renin-Angiotensin Aldosterone Biomarkers Following Angiotensin-Converting Enzyme (ACE) Inhibition Therapy with Benazepril in Dogs. Pharmaceutical Research, 2015, 32, 1931-1946.	1.7	43
11	Intestinal Stem Cells to Advance Drug Development, Precision, and Regenerative Medicine: A Paradigm Shift in Translational Research. AAPS Journal, 2018, 20, 17.	2.2	38
12	Chronobiology of the renin-angiotensin-aldosterone system in dogs: relation to blood pressure and renal physiology. Chronobiology International, 2013, 30, 1144-1159.	0.9	36
13	Microbiota-Related Changes in Unconjugated Fecal Bile Acids Are Associated With Naturally Occurring, Insulin-Dependent Diabetes Mellitus in Dogs. Frontiers in Veterinary Science, 2019, 6, 199.	0.9	35
14	Retrospective evaluation of toceranib phosphate (Palladia®) use in the treatment of gastrointestinal stromal tumors of dogs. Journal of Veterinary Internal Medicine, 2018, 32, 2045-2053.	0.6	32
15	Recapitulation of the accessible interface of biopsy-derived canine intestinal organoids to study epithelial-luminal interactions. PLoS ONE, 2020, 15, e0231423.	1.1	32
16	Histamine-Induced Conjunctivitis and Breakdown of Blood–Tear Barrier in Dogs: A Model for Ocular Pharmacology and Therapeutics. Frontiers in Pharmacology, 2019, 10, 752.	1.6	29
17	Chronobiology and Pharmacologic Modulation of the Renin–Angiotensin–Aldosterone System in Dogs: What Have We Learned?. Reviews of Physiology, Biochemistry and Pharmacology, 2015, 169, 43-69.	0.9	28
18	An eye on the dog as the scientist's best friend for translational research in ophthalmology: Focus on the ocular surface. Medicinal Research Reviews, 2020, 40, 2566-2604.	5.0	28

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19	Nonlinear mixedâ€effects pharmacokinetic modeling of the novel COXâ€2 selective inhibitor vitacoxib in dogs. Journal of Veterinary Pharmacology and Therapeutics, 2019, 42, 530-540.	0.6	26
20	Population pharmacokinetic analysis of blood concentrations of robenacoxib in dogs with osteoarthritis. Research in Veterinary Science, 2013, 95, 580-587.	0.9	23
21	Modelâ€Based Reverse Translation Between Veterinary and Human Medicine: The One Health Initiative. CPT: Pharmacometrics and Systems Pharmacology, 2018, 7, 65-68.	1.3	23
22	Glucocorticoid and dietary effects on mucosal microbiota in canine inflammatory bowel disease. PLoS ONE, 2019, 14, e0226780.	1.1	22
23	Effect of tear collection on lacrimal total protein content in dogs and cats: a comparison between Schirmer strips and ophthalmic sponges. BMC Veterinary Research, 2018, 14, 61.	0.7	21
24	Kinetics of Fluorescein in Tear Film After Eye Drop Instillation in Beagle Dogs: Does Size Really Matter?. Frontiers in Veterinary Science, 2019, 6, 457.	0.9	20
25	Tear fluid collection in dogs and cats using ophthalmic sponges. Veterinary Ophthalmology, 2018, 21, 249-254.	0.6	19
26	Impact of Flow Rate, Collection Devices, and Extraction Methods on Tear Concentrations Following Oral Administration of Doxycycline in Dogs and Cats. Journal of Ocular Pharmacology and Therapeutics, 2018, 34, 452-459.	0.6	19
27	Inflammation, negative affect, and amyloid burden in Alzheimer's disease: Insights from the kynurenine pathway. Brain, Behavior, and Immunity, 2021, 95, 216-225.	2.0	19
28	Capturing the dynamics of systemic Reninâ€Angiotensinâ€Aldosterone System (RAAS) peptides heightens the understanding of the effect of benazepril in dogs. Journal of Veterinary Pharmacology and Therapeutics, 2013, 36, 174-180.	0.6	18
29	Pharmacokinetic Modeling of Ceftiofur Sodium Using Non-linear Mixed-Effects in Healthy Beagle Dogs. Frontiers in Veterinary Science, 2019, 6, 363.	0.9	18
30	Sacubitril/valsartan (LCZ696) significantly reduces aldosterone and increases cGMP circulating levels in a canine model of RAAS activation. European Journal of Pharmaceutical Sciences, 2019, 128, 103-111.	1.9	18
31	Investigation of Schirmer tear test-1 for measurement of tear production in cats in various environmental settings and with different test durations. Journal of the American Veterinary Medical Association, 2020, 256, 681-686.	0.2	18
32	Harnessing the Biology of Canine Intestinal Organoids to Heighten Understanding of Inflammatory Bowel Disease Pathogenesis and Accelerate Drug Discovery: A One Health Approach. Frontiers in Toxicology, 2021, 3, 773953.	1.6	18
33	Albumin Levels in Tear Film Modulate the Bioavailability of Medically-Relevant Topical Drugs. Frontiers in Pharmacology, 2019, 10, 1560.	1.6	17
34	Pharmacokinetics of fentanyl citrate and norfentanyl in Holstein calves and effect of analytical performances on fentanyl parameter estimation. Journal of Veterinary Pharmacology and Therapeutics, 2018, 41, 555-561.	0.6	16
35	In vitro Cytotoxicity and Pharmacokinetic Evaluation of Pharmacological Ascorbate in Dogs. Frontiers in Veterinary Science, 2019, 6, 385.	0.9	16
36	A Retrospective Clinical Investigation of the Safety and Adverse Effects of Pantoprazole in Hospitalized Ruminants. Frontiers in Veterinary Science, 2020, 7, 97.	0.9	16

ARTICLE IF CITATIONS Aging-related changes in fluid intelligence, muscle and adipose mass, and sex-specific immunologic mediation: A longitudinal UK Biobank study. Brain, Behavior, and Immunity, 2019, 82, 396-405. Tear Fluid Pharmacokinetics Following Oral Prednisone Administration in Dogs With and Without 38 0.6 15 Conjunctivitis. Journal of Ocular Pharmacology and Therapeutics, 2019, 35, 341-349. Clinical features of cats with aqueous tear deficiency: a retrospective case series of 10 patients (17) Tj ETQq1 1 0.784214 rgBT /Over Genetic Factors of Alzheimer's Disease Modulate How Diet is Associated with Long-Term Cognitive 40 1.2 15 Trajectories: A UK Biobank Study. Journal of Alzheimer's Disease, 2020, 78, 1245-1257. Emerging Roles of Urine-Derived Components for the Management of Bladder Cancer: One Man's Trash 1.7 Is Another Man's Treasure. Cancers, 2021, 13, 422. Standardization and Maintenance of 3D Canine Hepatic and Intestinal Organoid Cultures for Use in 42 0.2 14 Biomedical Research. Journal of Visualized Experiments, 2022, , . Animal Health Modeling & Simulation Society: a new society promoting model-based approaches in 0.6 veterinary pharmacology. Journal of Veterinary Pharmacology and Therapeutics, 2013, 36, 417-419. CAR T Cell Immunotherapy in Human and Veterinary Oncology: Changing the Odds Against 2.2 44 13 Hematological Malignancies. AAPS Journal, 2019, 21, 50. Evaluation of dose-response effects of short-term oral prednisone administration on clinicopathologic and hemodynamic variables in healthy dogs. American Journal of Veterinary 0.3 Research, 2020, 81, 317-325. Comparison of milk and plasma pharmacokinetics of meloxicam in postpartum versus mid-lactation 46 0.6 12 Holstein cows. Journal of Veterinary Pharmacology and Therapeutics, 2018, 41, 463-468. Serum albumin and total protein concentration in the tear film of horses with healthy or diseased 0.6 eyes. Veterinary Ophthalmology, 2021, 24, 20-27. Comparison of Canine and Human Physiological Factors: Understanding Interspecies Differences that 48 2.2 12 Impact Drug Pharmacokinetics. AAPS Journal, 2021, 23, 59. Comparative plasma and interstitial fluid pharmacokinetics and tissue residues of ceftiofur crystallineâ€free acid in cattle with induced coliform mastitis. Journal of Veterinary Pharmacology and Therapeutics, 2018, 41, 848-860. Tear Film Pharmacokinetics and Systemic Absorption Following Topical Administration of 1% 50 0.9 11 Prednisolone Acetate Ophthalmic Suspension in Dogs. Frontiers in Veterinary Science, 2020, 7, 571350. Pharmacokinetics of Intravenous, Intramuscular, Oral, and Transdermal Administration of Flunixin Meglumine in Pre-wean Piglets. Frontiers in Veterinary Science, 2020, 7, 586. Apparent total tract digestibility, fecal characteristics, and blood parameters of healthy adult dogs 52 0.2 11 fed high-fat diets. Journal of Animal Science, 2020, 98, . Using machine learning to predict COVID-19 infection and severity risk among 4510 aged adults: a UK Biobank cohort study. Scientific Reports, 2022, 12, 7736. 1.6 Population variability in animal health: Influence on doseâ€exposureâ€response relationships: Part 54 <scp>II</scp>: Modelling and simulation. Journal of Veterinary Pharmacology and Therapeutics, 2018, 0.6 10 41, E68-E76.

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#	Article	IF	CITATIONS
55	Impact of acute conjunctivitis on ocular surface homeostasis in dogs. Veterinary Ophthalmology, 2020, 23, 828-833.	0.6	10
56	Treatment With Hydrolyzed Diet Supplemented With Prebiotics and Glycosaminoglycans Alters Lipid Metabolism in Canine Inflammatory Bowel Disease. Frontiers in Veterinary Science, 2020, 7, 451.	0.9	10
57	Circulating reninâ€angiotensinâ€aldosterone system activity in cats with systemic hypertension or cardiomyopathy. Journal of Veterinary Internal Medicine, 2022, 36, 897-909.	0.6	10
58	Effects of experimentally induced respiratory disease on the pharmacokinetics and tissue residues of tulathromycin in meat goats. Journal of Veterinary Pharmacology and Therapeutics, 2019, 42, 420-429.	0.6	9
59	Pharmacokinetics and Tissue Levels of Pantoprazole in Neonatal Calves After Intravenous Administration. Frontiers in Veterinary Science, 2020, 7, 580735.	0.9	9
60	Impact of diurnal variation, sex, tear collection method, and disease state on tear protein levels in dogs. Veterinary Ophthalmology, 2020, 23, 994-1000.	0.6	9
61	Focused ultrasound of the caudal vena cava in dogs with cavitary effusions or congestive heart failure: A prospective, observational study. PLoS ONE, 2021, 16, e0252544.	1.1	9
62	Retrospective evaluation of a doseâ€dependent effect of angiotensinâ€converting enzyme inhibitors on longâ€term outcome in dogs with cardiac disease. Journal of Veterinary Internal Medicine, 2021, 35, 2102-2111.	0.6	9
63	Indoleamine-pyrrole 2,3-dioxygenase-1 (IDO-1) mRNA is over-expressed in the duodenal mucosa and is negatively correlated with serum tryptophan concentrations in dogs with protein-losing enteropathy. PLoS ONE, 2019, 14, e0218218.	1.1	8
64	Optimal Scheduling of Bevacizumab and Pemetrexed/Cisplatin Dosing in Non‣mall Cell Lung Cancer. CPT: Pharmacometrics and Systems Pharmacology, 2019, 8, 577-586.	1.3	8
65	Current diagnostics for chronic enteropathies in dogs. Veterinary Clinical Pathology, 2022, 50, 18-28.	0.3	8
66	Comparisons of plasma and fecal pharmacokinetics of danofloxacin and enrofloxacin in healthy and Mannheimia haemolytica infected calves. Scientific Reports, 2022, 12, 5107.	1.6	8
67	Comparative Pharmacokinetics of Meloxicam Between Healthy Post-partum vs. Mid-lactation Dairy Cattle. Frontiers in Veterinary Science, 2020, 7, 548.	0.9	7
68	Presentation, Clinical Pathology Abnormalities, and Identification of Gastrointestinal Parasites in Camels (Camelus bactrianus and Camelus dromedarius) Presenting to Two North American Veterinary Teaching Hospitals. A Retrospective Study: 1980–2020. Frontiers in Veterinary Science, 2021, 8, 651672.	0.9	7
69	Influence of Schirmer strip wetness on volume absorbed, volume recovered, and total protein content in canine tears. Veterinary Ophthalmology, 2021, 24, 425-428.	0.6	7
70	Pharmacokinetics of Pantoprazole and Pantoprazole Sulfone in Goats After Intravenous Administration: A Preliminary Report. Frontiers in Veterinary Science, 2021, 8, 744813.	0.9	7
71	Multiomic analysis defines the first microRNA atlas across all small intestinal epithelial lineages and reveals novel markers of almost all major cell types. American Journal of Physiology - Renal Physiology, 2021, 321, G668-G681.	1.6	7
72	Clinicopathologic, hemodynamic, and echocardiographic effects of short-term oral administration of anti-inflammatory doses of prednisolone to systemically normal cats. American Journal of Veterinary Research, 2019, 80, 743-755.	0.3	6

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73	CSF glucose tracks regional tau progression based on Alzheimer's disease risk factors. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2020, 6, e12080.	1.8	6
74	Computed tomography evaluation of proposed implant corridors in canine thoracic vertebrae. Veterinary Surgery, 2021, 50, 1427-1433.	0.5	6
75	Albumin in Tears Modulates Bacterial Susceptibility to Topical Antibiotics in Ophthalmology. Frontiers in Medicine, 2021, 8, 663212.	1.2	6
76	Canine Intestinal Organoids in a Dual-Chamber Permeable Support System. Journal of Visualized Experiments, 2022, , .	0.2	6
77	Adverse reactions to fentanyl transdermal patches in calves: a preliminary clinical and pharmacokinetic study. Veterinary Anaesthesia and Analgesia, 2018, 45, 575-580.	0.3	5
78	Paper spray high-resolution accurate mass spectrometry for quantitation of voriconazole in equine tears. Analytical and Bioanalytical Chemistry, 2019, 411, 5187-5196.	1.9	5
79	Relative Oral Bioavailability of Two Amoxicillin–Clavulanic Acid Formulations in Healthy Dogs: A Pilot Study. Journal of the American Animal Hospital Association, 2019, 55, 14-22.	0.5	5
80	Effect of prazosin on feline recurrent urethral obstruction. Journal of Feline Medicine and Surgery, 2021, 23, 1176-1182.	0.6	5
81	Pharmacokinetics of tulathromycin in pregnant ewes (Ovis aries) challenged with Campylobacter jejuni. PLoS ONE, 2021, 16, e0256862.	1.1	5
82	Pharmacokinetics of Ertapenem in Sheep (<i>Ovis aries</i>) with Experimentally Induced Urinary Tract Infection. Comparative Medicine, 2019, 69, 413-418.	0.4	5
83	Multiple comparison procedure and modeling: a versatile tool for evaluating dose–response relationships in veterinary pharmacology – a case study with furosemide. Journal of Veterinary Pharmacology and Therapeutics, 2016, 39, 539-546.	0.6	4
84	Mo1059 - Comparison of Endoscopically (Egd/Colo) Procured Enteroids and Colonoids from Normal Dogs and Dogs with Naturally Occurring Chronic Enteropathies (IBD). Gastroenterology, 2018, 154, S-686-S-687.	0.6	4
85	Interleukinâ€13 and interleukinâ€33 mRNA are underexpressed in the duodenal mucosa of German Shepherd dogs with chronic enteropathy. Journal of Veterinary Internal Medicine, 2019, 33, 1660-1668.	0.6	4
86	Pharmacokinetics of Oral Prednisone at Various Doses in Dogs: Preliminary Findings Using a NaÃ⁻ve Pooled-Data Approach. Frontiers in Veterinary Science, 2020, 7, 571457.	0.9	4
87	A Multi-Institutional Retrospective Analysis of Toceranib Phosphate for Presumed or Confirmed Canine Aortic Body Chemodectomas. Frontiers in Veterinary Science, 2021, 8, 635057.	0.9	4
88	Effects of the estrous cycle and pregnancy status on cardiovascular variables in healthy bitches. Journal of Veterinary Cardiology, 2020, 30, 57-68.	0.3	3
89	Considerations in the extrapolation of drug toxicity between humans and dogs. Current Opinion in Toxicology, 2020, 23-24, 98-105.	2.6	3
90	Clinical efficacy of prebiotics and glycosaminoglycans versus placebo In dogs with food responsive enteropathy receiving a hydrolyzed diet: A pilot study. PLoS ONE, 2021, 16, e0250681.	1.1	3

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91	449 – High Fat Ketogenic Diet Decreases Serum Lipid Metabolites in Healthy Dogs. Gastroenterology, 2019, 156, S-94.	0.6	2
92	Su1812 – Treatment with Hydrolyzed Diet Supplemented with Prebiotics and Glycosaminoglycans Improves Abnormalities in Lipid Metabolism in a Canine Model of Inflammatory Bowel Disease. Gastroenterology, 2019, 156, S-621-S-622.	0.6	2
93	Nerve growth factor in dogs: Assessment of two immunoassays and selected ocular parameters following a nicergoline challenge per os. Veterinary Ophthalmology, 2020, 23, 199-204.	0.6	2
94	Walking in the Light: How History of Physical Activity, Sunlight, and Vitamin D Account for Body Fat—A UK Biobank Study. Obesity, 2020, 28, 1428-1437.	1.5	2
95	Serum vitamin B12 and related 5-methyltetrahydrofolate-homocysteine methyltransferase reductase and cubilin genotypes predict neural outcomes across the AlzheimerÊ1⁄4s disease spectrum. British Journal of Nutrition, 2020, 124, 135-145.	1.2	2
96	Radiation exposure associated with percutaneous fluoroscopically guided lag screw fixation for sacroiliac luxation in dogs. Veterinary Surgery, 2021, 50, 1065-1075.	0.5	2
97	Abstract 3092: Urine-derived urinary carcinoma organoids: A novel tool for providing new insights into human and canine bladder cancer treatment. Cancer Research, 2022, 82, 3092-3092.	0.4	2
98	Network on veterinary medicines initiated by the European Federation For Pharmaceutical Sciences. Journal of Veterinary Pharmacology and Therapeutics, 2018, 41, 378-383.	0.6	1
99	Re: "Evaluation of Enrofloxacin for Use in Cryopreservation of Zebu Bull <i>(Bos indicus)</i> Semen― by Ishaq et al. (Biopreserv Biobank 2019;17(6):546–552, DOI: 10.1089/bio.2018.0133). Biopreservation and Biobanking, 2020, 18, 41-42.	0.5	1
100	Non-Linear Mixed-Effects Pharmacokinetic Modeling of the Novel COX-2 Selective Inhibitor Vitacoxib in Cats. Frontiers in Veterinary Science, 2020, 7, 554033.	0.9	1
101	Shortâ€ŧerm outcomes of 59 dogs treated for ilial body fractures with locking or nonâ€ŀocking plates. Veterinary Surgery, 2021, 50, 1076-1086.	0.5	1
102	Su124 HOMOLOGY DIRECTED REPAIR IN CANINE DUODENAL ENTEROIDS TO MIMIC THE WILD-TYPE P-GLYCOPROTEIN MUTATION. Gastroenterology, 2021, 160, S-625-S-626.	0.6	1
103	Population Modeling of Tumor Growth Curves, the Reduced Gompertz Model and Prediction of the Age of a Tumor. Lecture Notes in Computer Science, 2019, , 87-97.	1.0	1
104	Harnessing The Biology of Intestinal Organoids To Accelerate Drug Discovery in Inflammatory Bowel Disease: A One Health Approach. FASEB Journal, 2020, 34, 1-1.	0.2	1
105	Suspected primary hyperreninism in a cat with malignant renal sarcoma and global reninâ€angiotensinâ€aldosterone system upregulation. Journal of Veterinary Internal Medicine, 2021, , .	0.6	1
106	Evaluation of a Pasteurella multocida Respiratory Disease Induction Model for Goats (Capra aegagrus) Tj ETQq0 () 0 rgBT /(Dverlock 10 T
107	Computed Tomographic Evaluation of Mid-thoracic Vertebral Corridors in Normal French Bulldogs. Echo, 2022, 2, 1-3.	0.1	1

#	Article	IF	CITATIONS
109	Sa1976 POLYPHENOLS REVERSE THE PATHOLOGIC EFFECTS OF PALMITIC ACID AND HIGH FAT DIET IN CANINE ENTEROIDS. Gastroenterology, 2020, 158, S-486.	0.6	Ο
110	Letter to the editor regarding "Efficacy of adding ramipril (VAsotop) to the combination of furosemide (Lasix) and pimobendan (VEtmedin) in dogs with mitral valve degeneration: The VALVE trial― Journal of Veterinary Internal Medicine, 2021, 35, 698-699.	0.6	0
111	109 Diet-induced Clinical Responsiveness of Translational Dog Model for Human Western Diet (WD)-related Disease Research. Journal of Animal Science, 2021, 99, 58-59.	0.2	0
112	Evaluation of a Respiratory Disease Induction Model for Goats (). Comparative Medicine, 2020, 70, 323-328.	0.4	0
113	Meet Our Associate Editorial Board Member. Current Drug Metabolism, 2020, 21, 401-402.	0.7	0
114	Title is missing!. , 2020, 16, e1007178.		0
115	Title is missing!. , 2020, 16, e1007178.		0
116	Title is missing!. , 2020, 16, e1007178.		0
117	Title is missing!. , 2020, 16, e1007178.		0
118	Title is missing!. , 2020, 16, e1007178.		0
119	Title is missing!. , 2020, 16, e1007178.		0
120	Clucocorticoid and dietary effects on mucosal microbiota in canine inflammatory bowel disease. , 2019, 14, e0226780.		0
121	Glucocorticoid and dietary effects on mucosal microbiota in canine inflammatory bowel disease. , 2019, 14, e0226780.		0
122	Clucocorticoid and dietary effects on mucosal microbiota in canine inflammatory bowel disease. , 2019, 14, e0226780.		0
123	Glucocorticoid and dietary effects on mucosal microbiota in canine inflammatory bowel disease. , 2019, 14, e0226780.		0
124	Title is missing!. , 2020, 15, e0231423.		0
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127	Title is missing!. , 2020, 15, e0231423.		0