

Peter James O'Brien

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

4,277
citations

30
h-index

65
g-index

86
ext. papers

4,620
ext. citations

4.4
avg, IF

5.14
L-index

#	Paper	IF	Citations
84	Use of intraoperative impression smear cytology to guide successful treatment of a large renal cyst in a dog: a case report.. <i>Journal of Veterinary Science</i> , 2022 , 23, e34	1.6	
83	Acute fasciolosis in an alpaca: a case report. <i>BMC Veterinary Research</i> , 2021 , 17, 215	2.7	1
82	A head-to-head Caco-2 assay comparison of the mechanisms of action of the intestinal permeation enhancers: SNAC and sodium caprate (C). <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020 , 152, 95-107	5.7	22
81	Report and abstracts for 20th ACCP conference with training workshops, and technology exhibits. <i>Comparative Clinical Pathology</i> , 2020 , 29, 5-15	0.9	
80	DGGR-lipase for effective diagnosis of pancreatitis in horses. <i>Comparative Clinical Pathology</i> , 2019 , 28, 1625-1636	0.9	1
79	Equine blood reticulocytes: reference intervals, physiological and pathological changes. <i>Comparative Clinical Pathology</i> , 2019 , 28, 53-62	0.9	3
78	Validation of a Multiparametric, High-Content-Screening Assay for Predictive/Investigative Cytotoxicity: Evidence From Technology Transfer Studies and Literature Review. <i>Chemical Research in Toxicology</i> , 2017 , 30, 804-829	4	15
77	Marked paraneoplastic basophilia accompanying eosinophilia in a cat with alimentary T-cell lymphoma. <i>Journal of Feline Medicine and Surgery Open Reports</i> , 2017 , 3, 2055116917730180	0.5	2
76	Translational trio of myocardial biomarkers for prediction, monitoring and controlling toxicologic response: Mechanistic (high content analysis), leakage (high-sensitivity cardiac troponin I) and function biomarkers (B-type natriuretic peptide). <i>Current Opinion in Toxicology</i> , 2017 , 4, 74-78	4.4	
75	High-content analysis for drug delivery and nanoparticle applications. <i>Drug Discovery Today</i> , 2015 , 20, 942-57	8.8	32
74	Correlation of serum cardiac troponin I and acute phase protein concentrations with clinical staging in dogs with degenerative mitral valve disease. <i>Veterinary Clinical Pathology</i> , 2015 , 44, 397-404	1	13
73	Serial analysis of serum cardiac troponin I changes and correlation with clinical findings in 46 dogs with mitral valve disease. <i>Veterinary Clinical Pathology</i> , 2014 , 43, 218-25	1	9
72	Application of High-Content Analysis in Clinical Cytology for Translational Safety Biomarkers of Drug-Induced Toxicity for Lymphoma Chemotherapy. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2014 , 115, 145-153	3.1	3
71	High content imaging for the morphometric diagnosis and immunophenotypic prognosis of canine lymphomas. <i>Cytometry Part B - Clinical Cytometry</i> , 2014 , 86, 373-82	3.4	6
70	"High Content Imaging for the Morphometric Diagnosis and Immunophenotypic Prognosis of Canine Lymphomas". <i>Cytometry Part B - Clinical Cytometry</i> , 2014 ,	3.4	2
69	High-content analysis in toxicology: screening substances for human toxicity potential, elucidating subcellular mechanisms and in vivo use as translational safety biomarkers. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2014 , 115, 4-17	3.1	64
68	Evaluation of the cytotoxicity of organic dust components on THP1 monocytes-derived macrophages using high content analysis. <i>Environmental Toxicology</i> , 2014 , 29, 310-9	4.2	13

67	High content analysis provides mechanistic insights on the pathways of toxicity induced by amine-modified polystyrene nanoparticles. <i>PLoS ONE</i> , 2014 , 9, e108025	3.7	74
66	Rapid, effective and user-friendly immunophenotyping of canine lymphoma using a personal flow cytometer. <i>Irish Veterinary Journal</i> , 2013 , 66, 6	2.2	5
65	Malignant melanoma in a grey horse: case presentation and review of equine melanoma treatment options. <i>Irish Veterinary Journal</i> , 2013 , 66, 22	2.2	13
64	Letter on behalf of the European College of Veterinary Clinical Pathology in response to the article "International Recommendations for Training Future Toxicologic Pathologists Participating in Regulatory-Type, Nonclinical Toxicity Studies". <i>Experimental and Toxicologic Pathology</i> , 2012 , 64, 267		
63	Serum cardiac troponin I concentrations in dogs with leishmaniasis: correlation with age and clinicopathologic abnormalities. <i>Veterinary Clinical Pathology</i> , 2012 , 41, 568-74	1	32
62	The mycotoxin patulin increases colonic epithelial permeability in vitro. <i>Food and Chemical Toxicology</i> , 2012 , 50, 4097-102	4.7	31
61	Serum cardiac troponin I concentrations in naturally occurring myelosuppressive and non-myelosuppressive canine monocytic ehrlichiosis. <i>Veterinary Journal</i> , 2012 , 194, 259-61	2.5	6
60	High content analysis to determine cytotoxicity of the antimicrobial peptide, melittin and selected structural analogs. <i>Peptides</i> , 2011 , 32, 1764-73	3.8	22
59	Best practices for clinical pathology testing in carcinogenicity studies. <i>Toxicologic Pathology</i> , 2011 , 39, 429-34	2.1	27
58	Letter on behalf of the European college of veterinary clinical pathology in response to the article "international recommendations for training future toxicologic pathologists participating in regulatory-type, nonclinical toxicity studies". <i>Toxicologic Pathology</i> , 2010 , 38, 993-4	2.1	
57	Translation of novel anti-cancer cytotoxicity biomarkers detected with high content analysis from an in vitro predictive model to an in vivo cell model. <i>Toxicology in Vitro</i> , 2010 , 24, 2063-71	3.6	15
56	High content analysis of cytotoxic effects of pDMAEMA on human intestinal epithelial and monocyte cultures. <i>Journal of Controlled Release</i> , 2010 , 146, 84-92	11.7	51
55	Veterinary and toxicological applications for the detection of cardiac injury using cardiac troponin. <i>Veterinary Journal</i> , 2010 , 185, 50-7	2.5	65
54	Cardiac troponin is the most effective translational safety biomarker for myocardial injury in cardiotoxicity. <i>Toxicology</i> , 2008 , 245, 206-18	4.4	189
53	High concordance of drug-induced human hepatotoxicity with in vitro cytotoxicity measured in a novel cell-based model using high content screening. <i>Archives of Toxicology</i> , 2006 , 80, 580-604	5.8	500
52	Blood cardiac troponin in toxic myocardial injury: archetype of a translational safety biomarker. <i>Expert Review of Molecular Diagnostics</i> , 2006 , 6, 685-702	3.8	41
51	Cardiac troponin I is a sensitive, specific biomarker of cardiac injury in laboratory animals. <i>Laboratory Animals</i> , 2006 , 40, 153-71	2.6	210
50	A critical role for peroxisomal proliferator-activated receptor-alpha nuclear receptors in the development of cardiomyocyte degeneration and necrosis. <i>American Journal of Pathology</i> , 2006 , 169, 750-60	5.8	21

49	Applications of cytotoxicity assays and pre-lethal mechanistic assays for assessment of human hepatotoxicity potential. <i>Chemico-Biological Interactions</i> , 2004 , 150, 115-28	5	179
48	Myocardial concentration of cardiac troponin T as an early discriminator of mechanisms of cardiac hypertrophy. <i>Comparative Clinical Pathology</i> , 2004 , 13, 59-64	0.9	3
47	Rapid reversal of hepatic steatosis, and reduction of muscle triglyceride, by rosiglitazone: MRI/S studies in Zucker fatty rats. <i>Diabetes, Obesity and Metabolism</i> , 2003 , 5, 234-43	6.7	56
46	Differential expression of the lenticular antioxidant system in laboratory animals: a determinant of species predilection to oxidative stress-induced ocular toxicity?. <i>Current Eye Research</i> , 2003 , 26, 15-23	2.9	12
45	Effect of diquat on the antioxidant system and cell growth in human neuroblastoma cells. <i>Toxicology and Applied Pharmacology</i> , 2002 , 178, 63-70	4.6	31
44	Advantages of glutamate dehydrogenase as a blood biomarker of acute hepatic injury in rats. <i>Laboratory Animals</i> , 2002 , 36, 313-21	2.6	124
43	Fully-automated spectrophotometric method for measurement of antioxidant activity of catalase. <i>Clinical Biochemistry</i> , 2000 , 33, 525-34	3.5	56
42	Repeated acetaminophen dosing in rats: adaptation of hepatic antioxidant system. <i>Human and Experimental Toxicology</i> , 2000 , 19, 277-83	3.4	63
41	Evaluation of alamar blue reduction for the in vitro assay of hepatocyte toxicity. <i>Toxicology in Vitro</i> , 1999 , 13, 567-9	3.6	38
40	Differential reactivity of cardiac and skeletal muscle from various species in two generations of cardiac troponin-T immunoassays. <i>Research in Veterinary Science</i> , 1998 , 65, 135-7	2.5	45
39	Enhancement of calcium cycling by atrial sarcoplasmic reticulum after cardiopulmonary bypass and cardioplegia during open heart surgery. <i>Canadian Journal of Physiology and Pharmacology</i> , 1997 , 75, 143-152	2.4	5
38	Differential reactivity of cardiac and skeletal muscle from various species in a cardiac troponin I immunoassay. <i>Clinical Chemistry</i> , 1997 , 43, 2333-2338	5.5	125
37	Compensatory up-regulation of cardiac SR Ca ²⁺ -pump by heat-shock counteracts SR Ca ²⁺ -channel activation by ischemia/reperfusion. <i>Molecular and Cellular Biochemistry</i> , 1997 , 173, 135-43	4.2	17
36	Rapid, simple and sensitive microassay for skeletal muscle homogenates in the functional assessment of the Ca-release channel of sarcoplasmic reticulum: application to diagnosis of susceptibility to malignant hyperthermia. <i>Molecular and Cellular Biochemistry</i> , 1997 , 167, 61-72	4.2	5
35	Myocardial mRNA content and stability, and enzyme activities of Ca-cycling and aerobic metabolism in canine dilated cardiomyopathies. <i>Molecular and Cellular Biochemistry</i> , 1995 , 142, 139-50	4.2	18
34	Effects of hypocaloric feeding and refeeding on myocardial Ca and ATP cycling in the rat. <i>Molecular and Cellular Biochemistry</i> , 1995 , 142, 151-61	4.2	21
33	Effects of prolonged low frequency stimulation on skeletal muscle sarcoplasmic reticulum. <i>Canadian Journal of Physiology and Pharmacology</i> , 1995 , 73, 1154-64	2.4	14
32	Myocardial Ribonuclease Activity in Heart Failure. <i>Developments in Cardiovascular Medicine</i> , 1995 , 9-18		

31	Myocardial Ca ²⁺ - and ATP-cycling imbalances in end-stage dilated and ischemic cardiomyopathies. <i>Cardiovascular Research</i> , 1995 , 30, 394-404	9.9	3
30	Sarcoplasmic reticulum Ca-release channel and ATP-synthesis activities are early myocardial markers of heart failure produced by rapid ventricular pacing in dogs. <i>Canadian Journal of Physiology and Pharmacology</i> , 1994 , 72, 999-1006	2.4	21
29	Technical considerations for assessing alterations in skeletal muscle sarcoplasmic reticulum Ca(++)-sequestration function in vitro. <i>Molecular and Cellular Biochemistry</i> , 1994 , 139, 41-52	4.2	17
28	Compensatory asymmetry in down-regulation and inhibition of the myocardial Ca ²⁺ cycle in congestive heart failure produced in dogs by idiopathic dilated cardiomyopathy and rapid ventricular pacing. <i>Journal of Molecular and Cellular Cardiology</i> , 1994 , 26, 173-84	5.8	16
27	Differences in cardioprotective efficacy of adrenergic receptor antagonists and Ca ²⁺ channel antagonists in an animal model of dilated cardiomyopathy. Effects on gross morphology, global cardiac function, and twitch force. <i>Circulation Research</i> , 1993 , 73, 1077-89	15.7	26
26	Regional brain neurotransmitter concentrations in stress-susceptible pigs. <i>Journal of Animal Science</i> , 1993 , 71, 968-74	0.7	30
25	Compensatory downregulation of myocardial Ca channel in SR from dogs with heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1993 , 264, H926-37	5.2	17
24	Comparative mammal model of chronic rate overload: relationship of myocardial Ca-cycling to heart, metabolic and lipoperoxidation rates. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1993 , 106, 453-61		5
23	Respiratory chain defect of myocardial mitochondria in idiopathic dilated cardiomyopathy of Doberman pinscher dogs. <i>Canadian Journal of Physiology and Pharmacology</i> , 1992 , 70, 1529-33	2.4	32
22	Myocardial myoglobin deficiency in various animal models of congestive heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 1992 , 24, 721-30	5.8	39
21	Rapid, simple and sensitive microassay for skeletal and cardiac muscle myoglobin and hemoglobin: use in various animals indicates functional role of myohemoproteins. <i>Molecular and Cellular Biochemistry</i> , 1992 , 112, 45-52	4.2	48
20	Oxygen stores and aerobic dive limit of ringed seals (<i>Phoca hispida</i>). <i>Canadian Journal of Zoology</i> , 1992 , 70, 458-461	1.5	37
19	Myocardial Ca-sequestration failure and compensatory increase in Ca-ATPase with congestive cardiomyopathy: kinetic characterization by a homogenate microassay using real-time ratiometric indo-1 spectrofluorometry. <i>Molecular and Cellular Biochemistry</i> , 1991 , 102, 1-12	4.2	25
18	The remodelling of skeletal muscle for indefatigable hemodynamic work. <i>Canadian Journal of Physiology and Pharmacology</i> , 1991 , 69, 230-7	2.4	1
17	Cardiac and muscle fatigue due to relative functional overload induced by excessive stimulation, hypersensitive excitation-contraction coupling, or diminished performance capacity correlates with sarcoplasmic reticulum failure. <i>Canadian Journal of Physiology and Pharmacology</i> , 1991 , 69, 262-8	2.4	11
16	Myocardial calcium cycling defect in furazolidone cardiomyopathy. <i>Canadian Journal of Physiology and Pharmacology</i> , 1991 , 69, 1833-40	2.4	11
15	Identification of a mutation in porcine ryanodine receptor associated with malignant hyperthermia. <i>Science</i> , 1991 , 253, 448-51	33.3	1075
14	Myocardial biochemical and hemodynamic adaptations to chronic tachycardia. <i>Journal of Applied Physiology</i> , 1991 , 70, 907-13	3.7	4

13	The antidotal activity of the thiol drug diethyldithiocarbamate against N-acetyl-p-benzoquinone imine in isolated hepatocytes. <i>Advances in Experimental Medicine and Biology</i> , 1991 , 283, 311-4	3.6	
12	Lymphocyte calcium extrusion: kinetic and thermodynamic measurements using ratiometric dual-emission spectrofluorometry. <i>Molecular and Cellular Biochemistry</i> , 1990 , 96, 89-96	4.2	2
11	Calcium sequestration by isolated sarcoplasmic reticulum: real-time monitoring using ratiometric dual-emission spectrofluorometry and the fluorescent calcium-binding dye indo-1. <i>Molecular and Cellular Biochemistry</i> , 1990 , 94, 113-9	4.2	48
10	Microassay for malignant hyperthermia susceptibility: hypersensitive ligand-gating of the Ca channel in muscle sarcoplasmic reticulum causes increased amounts and rates of Ca-release. <i>Molecular and Cellular Biochemistry</i> , 1990 , 93, 53-9	4.2	8
9	Biochemical transformation of canine skeletal muscle for use in cardiac-assist devices. <i>Journal of Applied Physiology</i> , 1990 , 68, 1481-5	3.7	29
8	Canine stress syndrome/malignant hyperthermia susceptibility: calcium-homeostasis defect in muscle and lymphocytes. <i>Research in Veterinary Science</i> , 1990 , 48, 124-128	2.5	17
7	Rapid ventricular pacing of dogs to heart failure: biochemical and physiological studies. <i>Canadian Journal of Physiology and Pharmacology</i> , 1990 , 68, 34-9	2.4	98
6	Myocardial biochemical changes in furazolidone-induced cardiomyopathy of turkeys. <i>Journal of Comparative Pathology</i> , 1990 , 102, 139-47	1	8
5	Etiopathogenetic defect of malignant hyperthermia: hypersensitive calcium-release channel of skeletal muscle sarcoplasmic reticulum. <i>Veterinary Research Communications</i> , 1987 , 11, 527-59	2.9	33
4	Effect of experimental dysthyroidism on the enzymatic character of the diaphragm. <i>Journal of Applied Physiology</i> , 1984 , 56, 117-21	3.7	23
3	Cellular adaptations of the ventilatory muscles to a chronic increased respiratory load. <i>Journal of Applied Physiology</i> , 1978 , 44, 905-8	3.7	93
2	Thyroidal trophic influence on skeletal muscle myosin. <i>Nature</i> , 1977 , 270, 74-6	50.4	197
1	Current in vitro Models to Study Drug-Induced Liver Injury1-55		2