

# Peter James O'Brien

## List of Publications by Citations

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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	Identification of a mutation in porcine ryanodine receptor associated with malignant hyperthermia. <i>Science</i> , <b>1991</b> , 253, 448-51	33.3	1075
83	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> , <b>2006</b> , 80, 580-604	5.8	500
82	Cardiac troponin I is a sensitive, specific biomarker of cardiac injury in laboratory animals. <i>Laboratory Animals</i> , <b>2006</b> , 40, 153-71	2.6	210
81	Thyroidal trophic influence on skeletal muscle myosin. <i>Nature</i> , <b>1977</b> , 270, 74-6	50.4	197
80	Cardiac troponin is the most effective translational safety biomarker for myocardial injury in cardiotoxicity. <i>Toxicology</i> , <b>2008</b> , 245, 206-18	4.4	189
79	Applications of cytotoxicity assays and pre-lethal mechanistic assays for assessment of human hepatotoxicity potential. <i>Chemico-Biological Interactions</i> , <b>2004</b> , 150, 115-28	5	179
78	Differential reactivity of cardiac and skeletal muscle from various species in a cardiac troponin I immunoassay. <i>Clinical Chemistry</i> , <b>1997</b> , 43, 2333-2338	5.5	125
77	Advantages of glutamate dehydrogenase as a blood biomarker of acute hepatic injury in rats. <i>Laboratory Animals</i> , <b>2002</b> , 36, 313-21	2.6	124
76	Rapid ventricular pacing of dogs to heart failure: biochemical and physiological studies. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>1990</b> , 68, 34-9	2.4	98
75	Cellular adaptations of the ventilatory muscles to a chronic increased respiratory load. <i>Journal of Applied Physiology</i> , <b>1978</b> , 44, 905-8	3.7	93
74	High content analysis provides mechanistic insights on the pathways of toxicity induced by amine-modified polystyrene nanoparticles. <i>PLoS ONE</i> , <b>2014</b> , 9, e108025	3.7	74
73	Veterinary and toxicological applications for the detection of cardiac injury using cardiac troponin. <i>Veterinary Journal</i> , <b>2010</b> , 185, 50-7	2.5	65
72	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> , <b>2014</b> , 115, 4-17	3.1	64
71	Repeated acetaminophen dosing in rats: adaptation of hepatic antioxidant system. <i>Human and Experimental Toxicology</i> , <b>2000</b> , 19, 277-83	3.4	63
70	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> , <b>2003</b> , 5, 234-43	6.7	56
69	Fully-automated spectrophotometric method for measurement of antioxidant activity of catalase. <i>Clinical Biochemistry</i> , <b>2000</b> , 33, 525-34	3.5	56
68	High content analysis of cytotoxic effects of pDMAEMA on human intestinal epithelial and monocyte cultures. <i>Journal of Controlled Release</i> , <b>2010</b> , 146, 84-92	11.7	51

67	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> , <b>1992</b> , 112, 45-52	4.2	48
66	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> , <b>1990</b> , 94, 113-9	4.2	48
65	Differential reactivity of cardiac and skeletal muscle from various species in two generations of cardiac troponin-T immunoassays. <i>Research in Veterinary Science</i> , <b>1998</b> , 65, 135-7	2.5	45
64	Blood cardiac troponin in toxic myocardial injury: archetype of a translational safety biomarker. <i>Expert Review of Molecular Diagnostics</i> , <b>2006</b> , 6, 685-702	3.8	41
63	Myocardial myoglobin deficiency in various animal models of congestive heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , <b>1992</b> , 24, 721-30	5.8	39
62	Evaluation of alamar blue reduction for the in vitro assay of hepatocyte toxicity. <i>Toxicology in Vitro</i> , <b>1999</b> , 13, 567-9	3.6	38
61	Oxygen stores and aerobic dive limit of ringed seals ( <i>Phoca hispida</i> ). <i>Canadian Journal of Zoology</i> , <b>1992</b> , 70, 458-461	1.5	37
60	Etiopathogenetic defect of malignant hyperthermia: hypersensitive calcium-release channel of skeletal muscle sarcoplasmic reticulum. <i>Veterinary Research Communications</i> , <b>1987</b> , 11, 527-59	2.9	33
59	High-content analysis for drug delivery and nanoparticle applications. <i>Drug Discovery Today</i> , <b>2015</b> , 20, 942-57	8.8	32
58	Serum cardiac troponin I concentrations in dogs with leishmaniasis: correlation with age and clinicopathologic abnormalities. <i>Veterinary Clinical Pathology</i> , <b>2012</b> , 41, 568-74	1	32
57	Respiratory chain defect of myocardial mitochondria in idiopathic dilated cardiomyopathy of Doberman pinscher dogs. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>1992</b> , 70, 1529-33	2.4	32
56	The mycotoxin patulin increases colonic epithelial permeability in vitro. <i>Food and Chemical Toxicology</i> , <b>2012</b> , 50, 4097-102	4.7	31
55	Effect of diquat on the antioxidant system and cell growth in human neuroblastoma cells. <i>Toxicology and Applied Pharmacology</i> , <b>2002</b> , 178, 63-70	4.6	31
54	Regional brain neurotransmitter concentrations in stress-susceptible pigs. <i>Journal of Animal Science</i> , <b>1993</b> , 71, 968-74	0.7	30
53	Biochemical transformation of canine skeletal muscle for use in cardiac-assist devices. <i>Journal of Applied Physiology</i> , <b>1990</b> , 68, 1481-5	3.7	29
52	Best practices for clinical pathology testing in carcinogenicity studies. <i>Toxicologic Pathology</i> , <b>2011</b> , 39, 429-34	2.1	27
51	Differences in cardioprotective efficacy of adrenergic receptor antagonists and Ca <sup>2+</sup> channel antagonists in an animal model of dilated cardiomyopathy. Effects on gross morphology, global cardiac function, and twitch force. <i>Circulation Research</i> , <b>1993</b> , 73, 1077-89	15.7	26
50	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> , <b>1991</b> , 102, 1-12	4.2	25

49	Effect of experimental dysthyroidism on the enzymatic character of the diaphragm. <i>Journal of Applied Physiology</i> , <b>1984</b> , 56, 117-21	3.7	23
48	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> , <b>2020</b> , 152, 95-107	5.7	22
47	High content analysis to determine cytotoxicity of the antimicrobial peptide, melittin and selected structural analogs. <i>Peptides</i> , <b>2011</b> , 32, 1764-73	3.8	22
46	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> , <b>2006</b> , 169, 750-60	5.8	21
45	Effects of hypocaloric feeding and refeeding on myocardial Ca and ATP cycling in the rat. <i>Molecular and Cellular Biochemistry</i> , <b>1995</b> , 142, 151-61	4.2	21
44	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> , <b>1994</b> , 72, 999-1006	2.4	21
43	Myocardial mRNA content and stability, and enzyme activities of Ca-cycling and aerobic metabolism in canine dilated cardiomyopathies. <i>Molecular and Cellular Biochemistry</i> , <b>1995</b> , 142, 139-50	4.2	18
42	Compensatory up-regulation of cardiac SR Ca <sup>2+</sup> -pump by heat-shock counteracts SR Ca <sup>2+</sup> -channel activation by ischemia/reperfusion. <i>Molecular and Cellular Biochemistry</i> , <b>1997</b> , 173, 135-43	4.2	17
41	Compensatory downregulation of myocardial Ca channel in SR from dogs with heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>1993</b> , 264, H926-37	5.2	17
40	Technical considerations for assessing alterations in skeletal muscle sarcoplasmic reticulum Ca(++)-sequestration function in vitro. <i>Molecular and Cellular Biochemistry</i> , <b>1994</b> , 139, 41-52	4.2	17
39	Canine stress syndrome/malignant hyperthermia susceptibility: calcium-homeostasis defect in muscle and lymphocytes. <i>Research in Veterinary Science</i> , <b>1990</b> , 48, 124-128	2.5	17
38	Compensatory asymmetry in down-regulation and inhibition of the myocardial Ca <sup>2+</sup> cycle in congestive heart failure produced in dogs by idiopathic dilated cardiomyopathy and rapid ventricular pacing. <i>Journal of Molecular and Cellular Cardiology</i> , <b>1994</b> , 26, 173-84	5.8	16
37	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> , <b>2017</b> , 30, 804-829	4	15
36	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> , <b>2010</b> , 24, 2063-71	3.6	15
35	Effects of prolonged low frequency stimulation on skeletal muscle sarcoplasmic reticulum. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>1995</b> , 73, 1154-64	2.4	14
34	Malignant melanoma in a grey horse: case presentation and review of equine melanoma treatment options. <i>Irish Veterinary Journal</i> , <b>2013</b> , 66, 22	2.2	13
33	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> , <b>2015</b> , 44, 397-404	1	13
32	Evaluation of the cytotoxicity of organic dust components on THP1 monocytes-derived macrophages using high content analysis. <i>Environmental Toxicology</i> , <b>2014</b> , 29, 310-9	4.2	13

31	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> , <b>2003</b> , 26, 15-23	2.9	12
30	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> , <b>1991</b> , 69, 262-8	2.4	11
29	Myocardial calcium cycling defect in furazolidone cardiomyopathy. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>1991</b> , 69, 1833-40	2.4	11
28	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> , <b>2014</b> , 43, 218-25	1	9
27	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> , <b>1990</b> , 93, 53-9	4.2	8
26	Myocardial biochemical changes in furazolidone-induced cardiomyopathy of turkeys. <i>Journal of Comparative Pathology</i> , <b>1990</b> , 102, 139-47	1	8
25	High content imaging for the morphometric diagnosis and immunophenotypic prognosis of canine lymphomas. <i>Cytometry Part B - Clinical Cytometry</i> , <b>2014</b> , 86, 373-82	3.4	6
24	Serum cardiac troponin I concentrations in naturally occurring myelosuppressive and non-myelosuppressive canine monocytic ehrlichiosis. <i>Veterinary Journal</i> , <b>2012</b> , 194, 259-61	2.5	6
23	Rapid, effective and user-friendly immunophenotyping of canine lymphoma using a personal flow cytometer. <i>Irish Veterinary Journal</i> , <b>2013</b> , 66, 6	2.2	5
22	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> , <b>1997</b> , 75, 143-152	2.4	5
21	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> , <b>1997</b> , 167, 61-72	4.2	5
20	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> , <b>1993</b> , 106, 453-61		5
19	Myocardial biochemical and hemodynamic adaptations to chronic tachycardia. <i>Journal of Applied Physiology</i> , <b>1991</b> , 70, 907-13	3.7	4
18	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> , <b>2014</b> , 115, 145-153	3.1	3
17	Myocardial concentration of cardiac troponin T as an early discriminator of mechanisms of cardiac hypertrophy. <i>Comparative Clinical Pathology</i> , <b>2004</b> , 13, 59-64	0.9	3
16	Myocardial Ca <sup>2+</sup> - and ATP-cycling imbalances in end-stage dilated and ischemic cardiomyopathies. <i>Cardiovascular Research</i> , <b>1995</b> , 30, 394-404	9.9	3
15	Equine blood reticulocytes: reference intervals, physiological and pathological changes. <i>Comparative Clinical Pathology</i> , <b>2019</b> , 28, 53-62	0.9	3
14	Marked paraneoplastic basophilia accompanying eosinophilia in a cat with alimentary T-cell lymphoma. <i>Journal of Feline Medicine and Surgery Open Reports</i> , <b>2017</b> , 3, 2055116917730180	0.5	2

13	"High Content Imaging for the Morphometric Diagnosis and Immunophenotypic Prognosis of Canine Lymphomas". <i>Cytometry Part B - Clinical Cytometry</i> , <b>2014</b> ,	3.4	2
12	Current in vitro Models to Study Drug-Induced Liver Injury1-55		2
11	Lymphocyte calcium extrusion: kinetic and thermodynamic measurements using ratiometric dual-emission spectrofluorometry. <i>Molecular and Cellular Biochemistry</i> , <b>1990</b> , 96, 89-96	4.2	2
10	DGGR-lipase for effective diagnosis of pancreatitis in horses. <i>Comparative Clinical Pathology</i> , <b>2019</b> , 28, 1625-1636	0.9	1
9	The remodelling of skeletal muscle for indefatigable hemodynamic work. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>1991</b> , 69, 230-7	2.4	1
8	Acute fasciolosis in an alpaca: a case report. <i>BMC Veterinary Research</i> , <b>2021</b> , 17, 215	2.7	1
7	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> , <b>2012</b> , 64, 267		
6	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> , <b>2017</b> , 4, 74-78	4.4	
5	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> , <b>2010</b> , 38, 993-4	2.1	
4	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> , <b>1991</b> , 283, 311-4	3.6	
3	Myocardial Ribonuclease Activity in Heart Failure. <i>Developments in Cardiovascular Medicine</i> , <b>1995</b> , 9-18		
2	Report and abstracts for 20th ACCP conference with training workshops, and technology exhibits. <i>Comparative Clinical Pathology</i> , <b>2020</b> , 29, 5-15	0.9	
1	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> , <b>2022</b> , 23, e34	1.6	