Chris Whitton

List of Publications by Year in Descending Order

59 papers	897 citations	17 h-index	28 g-index
71 ext. papers	1,155 ext. citations	2.3 avg, IF	4.16 L-index

#	Paper	IF	Citations
59	A Coupled Biomechanical-Smoothed Particle Hydrodynamics Model for Horse Racing Tracks.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 766748	5.8	2
58	Variation in GPS and accelerometer recorded velocity and stride parameters of galloping Thoroughbred horses. *Equine Veterinary Journal*, **2021**, 53, 1063-1074	2.4	5
57	Microstructural properties of the proximal sesamoid bones of Thoroughbred racehorses in training. *Equine Veterinary Journal*, **2021**, 53, 1169-1177	2.4	2
56	Distribution of mechanical strain in equine distal metacarpal subchondral bone: A microCT-based finite element model. *Medicine in Novel Technology and Devices*, **2020**, 6, 100036	2.1	1
55	Associations between the radiographic appearance of vascular channels in proximal sesamoid bones, their microstructural characteristics and past racing performance in Thoroughbreds. *Equine Veterinary Journal*, **2020**, 52, 670-677	2.4	0
54	A method for fatigue testing of equine McIII subchondral bone under a simulated fast workout training programme. *Equine Veterinary Journal*, **2020**, 52, 332-335	2.4	1
53	Effects of in vivo fatigue-induced subchondral bone microdamage on the mechanical response of cartilage-bone under a single impact compression. *Journal of Biomechanics*, **2020**, 100, 109594	2.9	1
52	Fatigue behavior of subchondral bone under simulated physiological loads of equine athletic training. *Journal of the Mechanical Behavior of Biomedical Materials*, **2020**, 110, 103920	4.1	3
51	The relationship between microstructure, stiffness and compressive fatigue life of equine subchondral bone. *Journal of the Mechanical Behavior of Biomedical Materials*, **2020**, 101, 103439	4.1	5
50	Training practices, speed and distances undertaken by Thoroughbred racehorses in Victoria, Australia. *Equine Veterinary Journal*, **2020**, 52, 273-280	2.4	16
49	Meta-analysis of risk factors for racehorse catastrophic musculoskeletal injury in flat racing. *Veterinary Journal*, **2019**, 245, 29-40	2.5	32
48	Associations between pre-injury racing history and tibial and humeral fractures in Australian Thoroughbred racehorses. *Veterinary Journal*, **2019**, 247, 44-49	2.5	6
47	Solar angle of the distal phalanx is associated with scintigraphic evidence of subchondral bone injury in the palmar/plantar aspect of the third metacarpal/tarsal condyles in Thoroughbred racehorses. *Equine Veterinary Journal*, **2019**, 51, 720-726	2.4	2
46	Subchondral bone morphology in the metacarpus of racehorses in training changes with distance from the articular surface but not with age. *Journal of Anatomy*, **2018**, 232, 919-930	2.9	7
45	Mathematical modelling of bone adaptation of the metacarpal subchondral bone in racehorses. *Biomechanics and Modeling in Mechanobiology*, **2018**, 17, 877-890	3.8	3
44	Biomechanical testing of the calcified metacarpal articular surface and its association with subchondral bone microstructure in Thoroughbred racehorses. *Equine Veterinary Journal*, **2018**, 50, 255-260	2.4	5
43	Subchondral bone microdamage accumulation in distal metacarpus of Thoroughbred racehorses. *Equine Veterinary Journal*, **2018**, 50, 766-773	2.4	16

42	Track Surfaces Used for Ridden Workouts and Alternatives to Ridden Exercise for Thoroughbred Horses in Race Training. *Animals*, **2018**, 8,	3.1	9
41	Prevalence of subchondral bone pathological changes in the distal metacarpi/metatarsi of racing Thoroughbred horses. *Australian Veterinary Journal*, **2017**, 95, 362-369	1.2	9
40	Role of subchondral bone remodelling in collapse of the articular surface of Thoroughbred racehorses with palmar osteochondral disease. *Equine Veterinary Journal*, **2016**, 48, 228-33	2.4	19
39	Can high-resolution peripheral quantitative computed tomography imaging of subchondral and cortical bone predict condylar fracture in Thoroughbred racehorses?. *Equine Veterinary Journal*, **2015**, 47, 428-32	2.4	13
38	Musculoskeletal injury rates in Thoroughbred racehorses following local corticosteroid injection. *Veterinary Journal*, **2014**, 200, 71-6	2.5	15
37	Evaluation of a subject-specific finite-element model of the equine metacarpophalangeal joint under physiological load. *Journal of Biomechanics*, **2014**, 47, 65-73	2.9	65
36	An assessment of intra- and interobserver agreement of reporting orthopaedic findings on presale radiographs of Thoroughbred yearlings. *Equine Veterinary Journal*, **2014**, 46, 567-74	2.4	3
35	Thoroughbred horses in race training have lower levels of subchondral bone remodelling in highly loaded regions of the distal metacarpus compared to horses resting from training. *Veterinary Journal*, **2014**, 202, 443-7	2.5	19
34	Tarsus and stifle **2014**, 367-398		
33	Subchondral Bone Remodelling Is More Active in Resting Than Training Thoroughbred Racehorses. *Equine Veterinary Journal*, **2014**, 46, 27-28	2.4	1
32	Bone fatigue and its implications for injuries in racehorses. *Equine Veterinary Journal*, **2014**, 46, 408-15	2.4	50
31	Exercise-induced inhibition of remodelling is focally offset with fatigue fracture in racehorses. *Osteoporosis International*, **2013**, 24, 2043-8	5.3	12
30	Shock absorbing ability of articular cartilage and subchondral bone under impact compression. *Journal of the Mechanical Behavior of Biomedical Materials*, **2013**, 26, 127-35	4.1	38
29	Compressive fatigue life of subchondral bone of the metacarpal condyle in thoroughbred racehorses. *Bone*, **2013**, 57, 392-8	4.7	13
28	Hoof conformation and performance in the racing Thoroughbred in Macau. *Australian Veterinary Journal*, **2013**, 91, 108-12	1.2	3
27	Effect of displaced versus non-displaced pelvic fractures on long-term racing performance in 31 Thoroughbred racehorses. *Australian Veterinary Journal*, **2013**, 91, 246-50	1.2	4
26	Forelimb muscle activity during equine locomotion. *Journal of Experimental Biology*, **2012**, 215, 2980-91	3	33
25	Patterns of scintigraphic uptake in the fetlock joint of Thoroughbred racehorses and the effect of increased radiopharmaceutical uptake in the distal metacarpal/tarsal condyle on performance. *Equine Veterinary Journal*, **2011**, 43, 509-15	2.4	21

24	Identification and prevalence of errors affecting the quality of radiographs submitted to Australian thoroughbred yearling sale repositories. *Veterinary Radiology and Ultrasound*, **2011**, 52, 262-9	1.2	7
23	Retrospective investigation of prognostic indicators for adult horses with infection of a synovial structure. *Australian Veterinary Journal*, **2011**, 89, 226-31	1.2	35
22	Association between the purchase price of Thoroughbred yearlings and their performance during the 2- and 3-year-old racing seasons. *Australian Veterinary Journal*, **2011**, 89, 388-93	1.2	4
21	Muscle strain injuries of the hindlimb in eight horses: diagnostic imaging, management and outcomes. *Australian Veterinary Journal*, **2010**, 88, 313-21	1.2	13
20	Relationship between muscle forces, joint loading and utilization of elastic strain energy in equine locomotion. *Journal of Experimental Biology*, **2010**, 213, 3998-4009	3	66
19	Third metacarpal condylar fatigue fractures in equine athletes occur within previously modelled subchondral bone. *Bone*, **2010**, 47, 826-31	4.7	61
18	Biodistribution of canine leucocytes labelled with technetium-99m stannous fluoride colloid in whole blood and their ability to localise to sites of induced inflammation. *Veterinary Journal*, **2010**, 185, 157-62	2.5	1
17	In vitro evaluation of feline leukocytes radiolabeled in whole blood with 99mTc stannous colloid. *Veterinary Radiology and Ultrasound*, **2009**, 50, 545-9	1.2	1
16	Medial collateral ligament desmitis of the distal interphalangeal joint in the hindlimb of a horse: treatment with cast immobilisation. *Australian Veterinary Journal*, **2009**, 87, 499-502	1.2	4
15	A cranial intercondylar arthroscopic approach to the caudal medial femorotibial joint of the horse. *Equine Veterinary Journal*, **2009**, 41, 5-10	2.4	7
14	Therapeutic Farriery: A Manual for Veterinarians and Farriers. 1st edn - Edited by Yehuda Avisar. *Australian Veterinary Journal*, **2008**, 86, 454-454	1.2	
13	In vitro evaluation of canine leukocytes radiolabeled in whole blood with (99m)Tc stannous colloid. *Nuclear Medicine and Biology*, **2008**, 35, 707-12	2.1	5
12	Successful laparoscopic surgery for a uterine leiomyoma in a mare. *Equine Veterinary Education*, **2008**, 20, 508-511	0.6	9
11	Chemical arthrodesis of the distal tarsal joints using sodium monoiodoacetate in 104 horses. *Australian Veterinary Journal*, **2004**, 82, 286; author reply 286-7	1.2	
10	The sacroiliac joints: evaluation using nuclear scintigraphy. Part 1: The normal horse. *Equine Veterinary Journal*, **2003**, 35, 226-32	2.4	27
9	Postoperative performance of racing horses with tearing of the medial palmar intercarpal ligament. *Australian Veterinary Journal*, **1999**, 77, 713-7	1.2	11
8	Histopathological findings in the medial palmar and dorsomedial intercarpal ligaments of the equine midcarpal joint. *Veterinary Journal*, **1999**, 157, 23-9	2.5	2
7	The diagnosis of lameness associated with distal limb pathology in a horse: a comparison of radiography, computed tomography and magnetic resonance imaging. *Veterinary Journal*, **1998**, 155, 223-9	2.5	81

6	The intercarpal ligaments of the equine midcarpal joint, Part 1: The anatomy of the palmar and dorsomedial intercarpal ligaments of the midcarpal joint. *Veterinary Surgery*, **1997**, 26, 359-66	1.7	18
5	The intercarpal ligaments of the equine midcarpal joint, Part 2: The role of the palmar intercarpal ligaments in the restraint of dorsal displacement of the proximal row of carpal bones. *Veterinary Surgery*, **1997**, 26, 367-73	1.7	24
4	The intercarpal ligaments of the equine midcarpal joint, Part 3: Clinical observations in 32 racing horses with midcarpal joint disease. *Veterinary Surgery*, **1997**, 26, 374-81	1.7	30
3	Postmortem lesions in the intercarpal ligaments of the equine midcarpal joint. *Australian Veterinary Journal*, **1997**, 75, 746-50	1.2	11
2	Osteochondral fragmentation of the plantar/palmar proximal aspect of the proximal phalanx in racing horses. *Australian Veterinary Journal*, **1994**, 71, 318-21	1.2	23
1	Osteochondral fragmentation of the palmarolateral/plantarolateral aspect of the distal phalanx in four horses: A novel location. *Equine Veterinary Education*,	0.6	1