

# Catrin Rutland

## List of Publications by Year in descending order

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Version: 2024-02-01

91  
papers

1,600  
citations

331538

21  
h-index

345118

36  
g-index

96  
all docs

96  
docs citations

96  
times ranked

2446  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative review of human and canine osteosarcoma: morphology, epidemiology, prognosis, treatment and genetics. <i>Acta Veterinaria Scandinavica</i> , 2017, 59, 71.	0.5	192
2	Epidemiology and Risk Factors of Osteosarcoma. <i>Cancer Investigation</i> , 2020, 38, 259-269.	0.6	116
3	Cardiomyopathy: A Systematic Review of Disease-Causing Mutations in Myosin Heavy Chain 7 and Their Phenotypic Manifestations. <i>Cardiology</i> , 2010, 115, 49-60.	0.6	106
4	Cell Culture Based in vitro Test Systems for Anticancer Drug Screening. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 322.	2.0	89
5	Linking bone development on the caudal aspect of the distal phalanx with lameness during life. <i>Journal of Dairy Science</i> , 2016, 99, 4512-4525.	1.4	72
6	Promising Applications of Tumor Spheroids and Organoids for Personalized Medicine. <i>Cancers</i> , 2020, 12, 2727.	1.7	72
7	Mouse Tumor Models for Advanced Cancer Immunotherapy. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4118.	1.8	62
8	Effect of Gestational Nutrition on Vascular Integrity in the Murine Placenta. <i>Placenta</i> , 2007, 28, 734-742.	0.7	47
9	Tropomyosin 1: Multiple roles in the developing heart and in the formation of congenital heart defects. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 106, 1-13.	0.9	40
10	Recent Advances in Experimental Dendritic Cell Vaccines for Cancer. <i>Frontiers in Oncology</i> , 2021, 11, 730824.	1.3	39
11	Induction of Intrauterine Growth Restriction by Reducing Placental Vascular Growth with the Angiostatin TNP-470. <i>Biology of Reproduction</i> , 2005, 73, 1164-1173.	1.2	36
12	Microphthalmia, persistent hyperplastic hyaloid vasculature and lens anomalies following overexpression of VEGF-A188 from the alphaA-crystallin promoter. <i>Molecular Vision</i> , 2007, 13, 47-56.	1.1	36
13	Acetylation of TBX5 by KAT2B and KAT2A regulates heart and limb development. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 114, 185-198.	0.9	35
14	Insight into imiquimod skin permeation and increased delivery using microneedle pre-treatment. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 139, 33-43.	2.0	34
15	Current Trends in Cancer Immunotherapy. <i>Biomedicines</i> , 2020, 8, 621.	1.4	34
16	Genetics of Human and Canine Dilated Cardiomyopathy. <i>International Journal of Genomics</i> , 2015, 2015, 1-13.	0.8	33
17	Unique vascular phenotypes following over-expression of individual VEGFA isoforms from the developing lens. <i>Angiogenesis</i> , 2006, 9, 209-224.	3.7	30
18	Production and Application of Multicistronic Constructs for Various Human Disease Therapies. <i>Pharmaceutics</i> , 2019, 11, 580.	2.0	30

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19	Multiple Genetic Associations with Irish Wolfhound Dilated Cardiomyopathy. <i>BioMed Research International</i> , 2016, 2016, 1-14.	0.9	28
20	Gene Therapy Using Plasmid DNA Encoding Vascular Endothelial Growth Factor 164 and Fibroblast Growth Factor 2 Genes for the Treatment of Horse Tendinitis and Desmitis: Case Reports. <i>Frontiers in Veterinary Science</i> , 2017, 4, 168.	0.9	24
21	Potential therapeutic application of mesenchymal stem cells in ophthalmology. <i>Experimental Eye Research</i> , 2019, 189, 107863.	1.2	24
22	Knockdown of embryonic myosin heavy chain reveals an essential role in the morphology and function of the developing heart. <i>Development (Cambridge)</i> , 2011, 138, 3955-3966.	1.2	23
23	Knockdown of alpha myosin heavy chain disrupts the cytoskeleton and leads to multiple defects during chick cardiogenesis. <i>Journal of Anatomy</i> , 2009, 214, 905-915.	0.9	22
24	Gene Therapy Using Plasmid DNA Encoding VEGF164 and FGF2 Genes: A Novel Treatment of Naturally Occurring Tendinitis and Desmitis in Horses. <i>Frontiers in Pharmacology</i> , 2018, 9, 978.	1.6	22
25	Novel inflammatory cell infiltration scoring system to investigate healthy and footrot affected ovine interdigital skin. <i>PeerJ</i> , 2018, 6, e5097.	0.9	18
26	Computed tomography analysis of guinea pig bone: architecture, bone thickness and dimensions throughout development. <i>PeerJ</i> , 2014, 2, e615.	0.9	17
27	A predictive model for canine dilated cardiomyopathy—a meta-analysis of Doberman Pinscher data. <i>PeerJ</i> , 2015, 3, e842.	0.9	17
28	Peri-conception and first trimester diet modifies reproductive development in bulls. <i>Reproduction, Fertility and Development</i> , 2018, 30, 703.	0.1	16
29	Reptilian Skin and Its Special Histological Structures. , 0, , .		15
30	Expression of <sc>NAD</sc>(P)H quinone dehydrogenase 1 (<sc>NQO</sc>1) is increased in the endometrium of women with endometrial cancer and women with polycystic ovary syndrome. <i>Clinical Endocrinology</i> , 2017, 87, 557-565.	1.2	14
31	Discovery of os cordis in the cardiac skeleton of chimpanzees ( <i>Pan troglodytes</i> ). <i>Scientific Reports</i> , 2020, 10, 9417.	1.6	13
32	A history of lameness and low body condition score is associated with reduced digital cushion volume, measured by magnetic resonance imaging, in dairy cattle. <i>Journal of Dairy Science</i> , 2021, 104, 7026-7038.	1.4	13
33	Critical Impact of Different Conserved Endoplasmic Retention Motifs and Dopamine Receptor Interacting Proteins (DRIPs) on Intracellular Localization and Trafficking of the D2 Dopamine Receptor (D2-R) Isoforms. <i>Biomolecules</i> , 2020, 10, 1355.	1.8	12
34	Molecular Characterisation of Canine Osteosarcoma in High Risk Breeds. <i>Cancers</i> , 2020, 12, 2405.	1.7	12
35	Genomic Insights into Cardiomyopathies: A Comparative Cross-Species Review. <i>Veterinary Sciences</i> , 2017, 4, 19.	0.6	11
36	Comparative pathology of dog and human prostate cancer. <i>Veterinary Medicine and Science</i> , 2022, 8, 110-120.	0.6	11

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37	Computed Tomography in Veterinary Medicine: Currently Published and Tomorrow's Vision. , 0, , .		10
38	Maternal administration of anti-angiogenic agents, TNP-470 and Angiostatin4.5, induces fetal microphthalmia. <i>Molecular Vision</i> , 2009, 15, 1260-9.	1.1	10
39	Extracellular Vesicles: New Perspectives of Regenerative and Reproductive Veterinary Medicine. <i>Frontiers in Veterinary Science</i> , 2020, 7, 594044.	0.9	9
40	Androgen dependent mechanisms of pro-angiogenic networks in placental and tumor development. <i>Placenta</i> , 2017, 56, 79-85.	0.7	8
41	Increased dietary protein in the second trimester of gestation increases live weight gain and carcass composition in weaner calves to 6 months of age. <i>Animal</i> , 2017, 11, 991-999.	1.3	8
42	Use of Biologically Active 3D Matrix for Extensive Skin Defect Treatment in Veterinary Practice: Case Report. <i>Frontiers in Veterinary Science</i> , 2019, 6, 76.	0.9	8
43	Mechanistic investigations into the encapsulation and release of small molecules and proteins from a supramolecular nucleoside gel in vitro and in vivo. <i>Journal of Controlled Release</i> , 2020, 317, 118-129.	4.8	8
44	Morphology, adipocyte size, and fatty acid analysis of dairy cattle digital cushions, and the effect of body condition score and age. <i>Journal of Dairy Science</i> , 2021, 104, 6238-6252.	1.4	8
45	Application of gene therapy in the treatment of superficial digital flexor tendon injury in horses. <i>Open Veterinary Journal</i> , 2020, 10, 261-266.	0.3	8
46	Multiple Species Comparison of Cardiac Troponin T and Dystrophin: Unravelling the DNA behind Dilated Cardiomyopathy. <i>Journal of Cardiovascular Development and Disease</i> , 2017, 4, 8.	0.8	7
47	Viral Vector Vaccines Against ASF: Problems and Prospectives. <i>Frontiers in Veterinary Science</i> , 2022, 9, 830244.	0.9	7
48	Effects of routine treatment with nonsteroidal anti-inflammatory drugs at calving and when lame on the future probability of lameness and culling in dairy cows: A randomized controlled trial. <i>Journal of Dairy Science</i> , 2022, 105, 6041-6054.	1.4	7
49	What Is it like to be an International Student at Veterinary School? Perception and Performance in First Yearâ€”A Case Study at a UK Veterinary School. <i>Journal of Veterinary Medical Education</i> , 2012, 39, 180-188.	0.4	6
50	Mending a Broken Heartâ€”The Genetics of Heart Disease. <i>Frontiers for Young Minds</i> , 0, 6, .	0.8	6
51	Proangiogenic Effect of 2A-Peptide Based Multicistronic Recombinant Constructs Encoding VEGF and FGF2 Growth Factors. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5922.	1.8	6
52	Histological and Histochemical Methods 4th Edition. <i>Journal of Anatomy</i> , 2008, 213, 356-356.	0.9	5
53	Morphological and Imaging Evaluation of the Metacarpophalangeal and Metatarsophalangeal Joints in Healthy and Lamé Donkeys. <i>Journal of Equine Veterinary Science</i> , 2020, 88, 102904.	0.4	5
54	Thrombophilic-Type Placental Pathologies and Skeletal Growth Delay Following Maternal Administration of Angiostatin4.5 in Mice. <i>Biology of Reproduction</i> , 2011, 84, 505-513.	1.2	4

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55	Advancing modern equine medicine using gene therapy. <i>Equine Veterinary Education</i> , 2018, 30, 516-517.	0.3	4
56	Physics of animal health: on the mechano-biology of hoof growth and form. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190214.	1.5	4
57	The Anatomy, Histology and Physiology of the Healthy and Lamé Equine Hoof. , 0, , .		4
58	Methods for Studying Endocytotic Pathways of Herpesvirus Encoded G Protein-Coupled Receptors. <i>Molecules</i> , 2020, 25, 5710.	1.7	4
59	Blood Vessels Under the Microscope. <i>Frontiers for Young Minds</i> , 0, 7, .	0.8	4
60	Health care providersâ€™ awareness on medical management of children with autism spectrum disorder: cross-sectional study in Russia. <i>BMC Medical Education</i> , 2022, 22, 29.	1.0	4
61	Report of the first veterinary student support workshop. <i>Veterinary Record</i> , 2013, 173, 346-346.	0.2	3
62	How Does Student Educational Background Affect Transition into the First Year of Veterinary School? Academic Performance and Support Needs in University Education. <i>Journal of Veterinary Medical Education</i> , 2016, 43, 372-381.	0.4	3
63	Fatty Acids in Veterinary Medicine and Research. , 2017, , .		3
64	Epigenetic Control of MicroRNA Expression and Cancer. , 2018, , 373-380.		3
65	Skull of the grey heron ( <i>Ardea cinerea</i> ): Detailed investigation of the orbital region. <i>Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia</i> , 2017, 46, 552-557.	0.3	2
66	Is Your Extra X Chromosome Holding You Back? An Insight into Female Education and Academic Careers in STEMM. , 0, , .		2
67	The treatment of articular cartilage injuries with mesenchymal stem cells in different animal species. <i>Open Veterinary Journal</i> , 2021, 11, 128-134.	0.3	2
68	Immunohistochemical Characterisation of GLUT1, MMP3 and NRF2 in Osteosarcoma. <i>Frontiers in Veterinary Science</i> , 2021, 8, 704598.	0.9	2
69	A Trifecta of New Insights into Ovine Footrot for Infection Drivers, Immune Response, and Host-Pathogen Interactions. <i>Infection and Immunity</i> , 2021, 89, e0027021.	1.0	2
70	Application of Mesenchymal Stem Cells Derived Artificial Microvesicles for the Treatment of Canine Skin Wound. <i>BioNanoScience</i> , 2022, 12, 83-88.	1.5	2
71	Avian Cardiovascular Disease Characteristics, Causes and Genomics. , 2018, , .		1
72	Skeleton Growth in Guinea Pigs and Humans. <i>Frontiers for Young Minds</i> , 0, 9, .	0.8	1

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73	The Function of Seven Transmembrane Receptors in the Cardiovascular System and Their Role in the Development of Cardiomyopathy. , 0, ,		1
74	Unique characterization of Langerhans cells in the spleen of the African catfish (<em>Clarias) Tj ETQq0 0 0 rgBT /Oyerlock 10 Tf 50 702	3.0	1
75	The Importance of Anatomy. Frontiers for Young Minds, 0, 8, .	0.8	1
76	Inhibition of murine placental and embryonic growth by the angiogenesis inhibitor TNP-470. Journal of Anatomy, 2002, 200, 523-534.	0.9	0
77	Heterochromatin Modulation and PCG Control of Gene Expression Mediated by Noncoding RNA in Cancer. , 2018, , 359-372.		0
78	Introductory Chapter: Veterinary Anatomy and Physiology. , 2019, , .		0
79	Investigation into Whether Proximal Suspensory Desmitis of the Hindlimb Could Predispose Horses to Sacroiliac Disease. , 2020, , .		0
80	Diagnosis, Prognosis, Management, Treatment, Research and Advances in Canine Dilated Cardiomyopathy. , 0, , .		0
81	Morphological investigation of canine epigastric organs and adjacent structures via computed tomography, ultrasound and anatomical prosection. Morphologie, 2021, , .	0.5	0
82	Effects of maternal peri-conception and first trimester protein supplementation on placental development. Reproduction Abstracts, 0, , .	0.0	0
83	The effect of dietary protein level on bovine follicular dynamics in beef heifers. Reproduction Abstracts, 0, , .	0.0	0
84	Morphological and Structural Investigations of Egyptian Water Buffalo (Bubalus Bubalis) Sertoli Cells. Journal of Buffalo Science, 2017, 6, 1-7.	0.1	0
85	Can Toothache Cause Heartbreak?. Frontiers for Young Minds, 0, 8, .	0.8	0
86	Gene Therapy as a Modern Method of Treating Naturally Occurring Tendinitis and Desmitis in Horses. , 0, , .		0
87	Hearts, and the Heartless, in the Animal Kingdom. Frontiers for Young Minds, 0, 8, .	0.8	0
88	Why Do We Need Maths in Medicine?. Frontiers for Young Minds, 0, 9, .	0.8	0
89	Discovery Of A Bone In Chimpanzee Hearts. Frontiers for Young Minds, 0, 9, .	0.8	0
90	The influence of androgen receptor polymorphisms on the development of cruciate disease in Rottweilers. , 0, , 541-541.		0

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91	Genetic Therapy in Veterinary Medicine. BioNanoScience, 0, , .	1.5	0