Louis C Penning

List of Publications by Year
in descending order

78 papers	2,599 citations	257450 24 h-index	206112 48 g-index
78 all docs	78 docs citations	78 times ranked	3327 citing authors

#	Article	IF	Citations
1	MIQE prÃ©cis: Practical implementation of minimum standard guidelines for fluorescence-based quantitative real-time PCR experiments. BMC Molecular Biology, 2010, 11, 74.	3.0	563
2	Development and evaluation of canine reference genes for accurate quantification of gene expression. Analytical Biochemistry, 2006, 356, 36-43.	2.4	218
3	Large Animal Models in Regenerative Medicine and Tissue Engineering: To Do or Not to Do. Frontiers in Bioengineering and Biotechnology, 2020, 8, 972.	4.1	120
4	Primary Hepatitis in Dogs: A Retrospective Review (2002â€“2006). Journal of Veterinary Internal Medicine, 2009, 23, 72-80.	1.6	115
5	Largeâ€Scale Production of LGR5â€Positive Bipotential Human Liver Stem Cells. Hepatology, 2020, 72, 257-270.	7.3	89
6	Disease Modeling and Gene Therapy of Copper Storage Disease in Canine Hepatic Organoids. Stem Cell Reports, 2015, 5, 895-907.	4.8	84
7	Long-Term Adult Feline Liver Organoid Cultures for Disease Modeling ofÂHepatic Steatosis. Stem Cell Reports, 2017, 8, 822-830.	4.8	82
8	A GeNorm algorithm-based selection of reference genes for quantitative real-time PCR in skin biopsies of healthy dogs and dogs with atopic dermatitis. Veterinary Immunology and Immunopathology, 2009, 129, 115-118.	1.2	67
9	Copper Metabolism and Oxidative Stress in Chronic Inflammatory and Cholestatic Liver Diseases in Dogs. Journal of Veterinary Internal Medicine, 2006, 20, 1085-1092.	1.6	63
10	Concise Review: Organoids Are a Powerful Tool for the Study of Liver Disease and Personalized Treatment Design in Humans and Animals. Stem Cells Translational Medicine, 2016, 5, 325-330.	3.3	63
11	A validation of 10 feline reference genes for gene expression measurements in snap-frozen tissues. Veterinary Immunology and Immunopathology, 2007, 120, 212-222.	1.2	62
12	Hydrogels for Liver Tissue Engineering. Bioengineering, 2019, 6, 59.	3.5	60
13	The Influence of Pituitary Size on Outcome After Transsphenoidal Hypophysectomy in a Large Cohort of Dogs with Pituitaryâ€Dependent Hypercortisolism. Journal of Veterinary Internal Medicine, 2016, 30, 989-995.	1.6	45
14	COMMD1-Deficient Dogs Accumulate Copper in Hepatocytes and Provide a Good Model for Chronic Hepatitis and Fibrosis. PLoS ONE, 2012, 7, e42158.	2.5	36
15	Long-Term Survival of Transplanted Autologous Canine Liver Organoids in a COMMD1-Deficient Dog Model of Metabolic Liver Disease. Cells, 2020, 9, 410.	4.1	36
16	PCR screening for candidate etiological agents of canine hepatitis. Veterinary Microbiology, 2005, 108, 49-55.	1.9	34
17	Morphological characterisation of portal myofibroblasts and hepatic stellate cells in the normal dog liver. Comparative Hepatology, 2006, 5, 7.	0.9	34
18	Crossâ€species immunohistochemical investigation of the activation of the liver progenitor cell niche in different types of liver disease. Liver International, 2009, 29, 1241-1252.	3.9	31

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19	Sensitivity and Specificity of Plasma <scp>ALT</scp>,<scp> ALP</scp>, and Bile Acids for Hepatitis in Labrador Retrievers. Journal of Veterinary Internal Medicine, 2017, 31, 1017-1027.	1.6	30
20	Transforming growth factor beta-1 signalling in canine hepatic diseases: new models for human fibrotic liver pathologies. Liver International, 2006, 26, 716-725.	3.9	29
21	Chronic hepatitis in Doberman pinschers. A review. Veterinary Quarterly, 2004, 26, 98-106.	6.7	28
22	Characterisation of the hepatic progenitor cell compartment in normal liver and in hepatitis: An immunohistochemical comparison between dog and man. Veterinary Journal, 2010, 184, 308-314.	1.7	28
23	Copper Metabolism and Oxidative Stress in Chronic Inflammatory and Cholestatic Liver Diseases in Dogs. Journal of Veterinary Internal Medicine, 2006, 20, 1085.	1.6	28
24	The Dog Liver Contains a â€œSide Populationâ€•of Cells with Hepatic Progenitor-Like Characteristics. Stem Cells and Development, 2009, 18, 343-350.	2.1	26
25	Use of Serum Micro<scp>RNA</scp>s as Biomarker for Hepatobiliary Diseases in Dogs. Journal of Veterinary Internal Medicine, 2016, 30, 1816-1823.	1.6	26
26	Expression Stability of Reference Genes for Quantitative RT-PCR of Healthy and Diseased Pituitary Tissue Samples Varies Between Humans, Mice, and Dogs. Molecular Neurobiology, 2014, 49, 893-899.	4.0	25
27	Hepatitis with special reference to dogs. A review on the pathogenesis and infectious etiologies, including unpublished results of recent own studies. Veterinary Quarterly, 2004, 26, 107-114.	6.7	24
28	Generation of Differentiating and Long-Living Intestinal Organoids Reflecting the Cellular Diversity of Canine Intestine. Cells, 2020, 9, 822.	4.1	24
29	Aberrant Gene Expression in Dogs with Portosystemic Shunts. PLoS ONE, 2013, 8, e57662.	2.5	24
30	Regenerative and fibrotic pathways in canine hepatic portosystemic shunt and portal vein hypoplasia, new models for clinical hepatocyte growth factor treatment. Comparative Hepatology, 2005, 4, 7.	0.9	22
31	Gene Expression Profiling of Histiocytic Sarcomas in a Canine Model: The Predisposed Flatcoated Retriever Dog. PLoS ONE, 2013, 8, e71094.	2.5	21
32	New canine models of copper toxicosis: diagnosis, treatment, and genetics. Annals of the New York Academy of Sciences, 2014, 1314, 42-48.	3.8	20
33	Feline biliary tree and gallbladder disease: Aetiology, diagnosis and treatment. Journal of Feline Medicine and Surgery, 2017, 19, 514-528.	1.6	20
34	Characterization of Endothelial and Smooth Muscle Cells From Different Canine Vessels. Frontiers in Physiology, 2019, 10, 101.	2.8	20
35	Identification of potential drugs for treatment of hepatic lipidosis in cats using an in vitro feline liver organoid system. Journal of Veterinary Internal Medicine, 2020, 34, 132-138.	1.6	20
36	Improving the analysis of quantitative PCR data in veterinary research. Veterinary Journal, 2012, 191, 279-281.	1.7	19

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37	A morphological and immunohistochemical study of the effects of prednisolone or ursodeoxycholic acid on liver histology in feline lymphocytic cholangitis. Journal of Feline Medicine and Surgery, 2014, 16, 796-804.	1.6	19
38	In Vitro Differentiation of Liver Progenitor Cells Derived from Healthy Dog Livers. Stem Cells and Development, 2009, 18, 351-358.	2.1	18
39	Reference genes for reverse transcription quantitative PCR in canine brain tissue. BMC Research Notes, 2015, 8, 761.	1.4	18
40	Characterization and Comparison of Canine Multipotent Stromal Cells Derived from Liver and Bone Marrow. Stem Cells and Development, 2016, 25, 139-150.	2.1	18
41	Aberrant expression of copper associated genes after copper accumulation in COMMD1-deficient dogs. Journal of Trace Elements in Medicine and Biology, 2015, 29, 347-353.	3.0	17
42	Gene expression patterns in the progression of canine copper-associated chronic hepatitis. PLoS ONE, 2017, 12, e0176826.	2.5	15
43	Major HGF-mediated regenerative pathways are similarly affected in human and canine cirrhosis. Comparative Hepatology, 2007, 6, 8.	0.9	14
44	Altered Subcellular Localization of Heat Shock Protein 90 Is Associated with Impaired Expression of the Aryl Hydrocarbon Receptor Pathway in Dogs. PLoS ONE, 2013, 8, e57973.	2.5	14
45	Hepatocyteâ€like cells generated by direct reprogramming from murine somatic cells can repopulate decellularized livers. Biotechnology and Bioengineering, 2018, 115, 2807-2816.	3.3	14
46	COMMD1, a multi-potent intracellular protein involved in copper homeostasis, protein trafficking, inflammation, and cancer. Journal of Trace Elements in Medicine and Biology, 2021, 65, 126712.	3.0	13
47	The canine hepatic progenitor cell niche: Molecular characterisation in health and disease. Veterinary Journal, 2014, 201, 345-352.	1.7	12
48	Leukocyte count affects expression of reference genes in canine whole blood samples. BMC Research Notes, 2011, 4, 36.	1.4	11
49	Sequence-independent VIDISCA-454 technique to discover new viruses in canine livers. Journal of Virological Methods, 2012, 185, 152-155.	2.1	11
50	Intestinal Organoidsâ€"Current and Future Applications. Veterinary Sciences, 2016, 3, 31.	1.7	11
51	Hepatitis E virus seroprevalence in pets in the Netherlands and the permissiveness of canine liver cells to the infection. Irish Veterinary Journal, 2020, 73, 6.	2.1	11
52	Quantitative PCR method to detect a 13-kb deletion in the MURR1 gene associated with copper toxicosis and HIV-1 replication. Mammalian Genome, 2005, 16, 460-463.	2.2	10
53	Copper-induced hepatitis: the COMMD1 deficient dog as a translational animal model for human chronic hepatitis. Veterinary Quarterly, 2011, 31, 49-60.	6.7	10
54	Enhanced Wnt/Î²-catenin and Notch signalling in the activated canine hepatic progenitor cell niche. BMC Veterinary Research, 2014, 10, 309.	1.9	10

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55	Hepatic gene expression and plasma albumin concentration related to outcome after attenuation of a congenital portosystemic shunt in dogs. Veterinary Journal, 2012, 191, 383-388.	1.7	9
56	Canine hepacivirus and idiopathic hepatitis in dogs from a Dutch cohort. Journal of Viral Hepatitis, 2014, 21, 894-896.	2.0	9
57	Genomeâ€wide based model predicting recovery from portosystemic shunting after liver shunt attenuation in dogs. Journal of Veterinary Internal Medicine, 2018, 32, 1343-1352.	1.6	8
58	Tissue-Engineered Bile Ducts for Disease Modeling and Therapy. Tissue Engineering - Part C: Methods, 2021, 27, 59-76.	2.1	8
59	The Prognostic Value of Perioperative Profiles of <scp>ACTH</scp> and Cortisol for Recurrence after Transsphenoidal Hypophysectomy in Dogs with Corticotroph Adenomas. Journal of Veterinary Internal Medicine, 2015, 29, 869-876.	1.6	7
60	The mRNA expression of PTTG1 is a strong prognostic indicator for recurrence after hypophysectomy in dogs with corticotroph pituitary adenomas. Veterinary Journal, 2018, 240, 19-21.	1.7	7
61	Reduced FXR Target Gene Expression in Copper-Laden Livers of COMMD1-Deficient Dogs. Veterinary Sciences, 2019, 6, 78.	1.7	7
62	Aberrant hepatic lipid storage and metabolism in canine portosystemic shunts. PLoS ONE, 2017, 12, e0186491.	2.5	7
63	Association of circulating microRNAâ€122 and microRNAâ€29a with stage of fibrosis and progression of chronic hepatitis in Labrador Retrievers. Journal of Veterinary Internal Medicine, 2019, 33, 151-157.	1.6	6
64	Growth plate expression profiling: Large and small breed dogs provide new insights in endochondral bone formation. Journal of Orthopaedic Research, 2018, 36, 138-148.	2.3	5
65	DYRK1A Is a Regulator of S-Phase Entry in Hepatic Progenitor Cells. Stem Cells and Development, 2018, 27, 133-146.	2.1	5
66	The Two Main Forms of Histiocytic Sarcoma in the Predisposed Flatcoated Retriever Dog Display Variation in Gene Expression. PLoS ONE, 2014, 9, e98258.	2.5	5
67	Potential of regenerative medicine techniques in canine hepatology. Veterinary Quarterly, 2013, 33, 207-216.	6.7	4
68	Immunohistochemical evaluation of the activation of hepatic progenitor cells and their niche in feline lymphocytic cholangitis. Journal of Feline Medicine and Surgery, 2018, 20, 30-37.	1.6	4
69	Preclinical models of Wilsonâ€™s disease, why dogs are catchy alternatives. Annals of Translational Medicine, 2019, 7, S71-S71.	1.7	4
70	Gene expressions of de novo hepatic lipogenesis in feline hepatic lipidosis. Journal of Feline Medicine and Surgery, 2020, 22, 500-505.	1.6	4
71	Playing Jekyll and Hydeâ€”The Dual Role of Lipids in Fatty Liver Disease. Cells, 2020, 9, 2244.	4.1	4
72	Expression and clinical relevance of paired box protein 7 and sex determining region Y-box 2 in canine corticotroph pituitary adenomas. Veterinary Journal, 2015, 204, 315-321.	1.7	3

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73	Increased bone morphogenetic protein 7 signalling in the kidneys of dogs affected with a congenital portosystemic shunt. Veterinary Journal, 2015, 204, 226-228.	1.7	3
74	Towards Bioengineered Liver Stem Cell Transplantation Studies in a Preclinical Dog Model for Inherited Copper Toxicosis. Bioengineering, 2019, 6, 88.	3.5	3
75	Transplantable Liver Organoids, Too Many Cell Types to Choose: a Need for Scientific Self-Organization. Current Transplantation Reports, 2020, 7, 18-23.	2.0	2
76	Immunohistochemical characterisation of the hepatic stem cell niche in feline hepatic lipidosis: a preliminary morphological study. Journal of Feline Medicine and Surgery, 2019, 21, 165-172.	1.6	1
77	COMMD1 Exemplifies the Power of Inbred Dogs to Dissect Genetic Causes of Rare Copper-Related Disorders. Animals, 2021, 11, 601.	2.3	1
78	Hippo signaling pathway in companion animal diseases, an under investigated signaling cascade. Veterinary Quarterly, 2021, 41, 172-180.	6.7	1