

# Outi M Vainio

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

1,829  
citations

236925

25  
h-index

315739

38  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1142  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of medetomidine and dexmedetomidine as premedicants in dogs undergoing propofol-isoflurane anesthesia. <i>American Journal of Veterinary Research</i> , 2001, 62, 1073-1080.	0.6	87
2	Cardiovascular and Respiratory Effects of Medetomidine in Dogs and Influence of Anticholinergics. <i>Acta Veterinaria Scandinavica</i> , 1989, 30, 401-408.	1.6	82
3	Evaluation of the perioperative stress response in dogs administered medetomidine or acepromazine as part of the preanesthetic medication. <i>American Journal of Veterinary Research</i> , 2002, 63, 969-975.	0.6	72
4	Dogs do look at images: eye tracking in canine cognition research. <i>Animal Cognition</i> , 2012, 15, 163-174.	1.8	72
5	The effects of increasing doses of MK467, a peripheral $\alpha_2$ -adrenoceptor antagonist, on the cardiopulmonary effects of intravenous dexmedetomidine in conscious dogs. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2011, 34, 332-337.	1.3	68
6	Sedative, analgesic, and cardiovascular effects of levomedetomidine alone and in combination with dexmedetomidine in dogs. <i>American Journal of Veterinary Research</i> , 2001, 62, 616-621.	0.6	67
7	How dogs scan familiar and inverted faces: an eye movement study. <i>Animal Cognition</i> , 2014, 17, 793-803.	1.8	54
8	The effects of L-659,066, a peripheral $\alpha_2$ -adrenoceptor antagonist, on dexmedetomidine-induced sedation and bradycardia in dogs. <i>Veterinary Anaesthesia and Analgesia</i> , 2008, 35, 409-413.	0.6	53
9	Dogs Evaluate Threatening Facial Expressions by Their Biological Validity – Evidence from Gazing Patterns. <i>PLoS ONE</i> , 2016, 11, e0143047.	2.5	52
10	Influence of MK-467, a Peripherally Acting $\alpha_2$ -Adrenoceptor Antagonist on the Disposition of Intravenous Dexmedetomidine in Dogs. <i>Drug Metabolism and Disposition</i> , 2012, 40, 445-449.	3.3	49
11	Plasma drug concentrations and clinical effects of a peripheral $\alpha_2$ -adrenoceptor antagonist, MK-467, in horses sedated with detomidine. <i>Veterinary Anaesthesia and Analgesia</i> , 2013, 40, 257-264.	0.6	42
12	Postoperative pain control in cats: Clinical trials with medetomidine and butorphanol. <i>Veterinary Surgery</i> , 2002, 31, 99-103.	1.0	39
13	Circadian variation in ghrelin and certain stress hormones in crib-biting horses. <i>Veterinary Journal</i> , 2012, 193, 97-102.	1.7	37
14	Human Empathy, Personality and Experience Affect the Emotion Ratings of Dog and Human Facial Expressions. <i>PLoS ONE</i> , 2017, 12, e0170730.	2.5	37
15	Wireless and inductively powered implant for measuring electrocardiogram. <i>Medical and Biological Engineering and Computing</i> , 2007, 45, 1163-1174.	2.8	36
16	Oral ketoprofen is effective in the treatment of non-infectious lameness in sows. <i>Veterinary Journal</i> , 2011, 190, 55-59.	1.7	36
17	Effects of different doses of L-659066 on the bispectral index and clinical sedation in dogs treated with dexmedetomidine. <i>Veterinary Anaesthesia and Analgesia</i> , 2011, 38, 415-422.	0.6	35
18	Nasal Oxytocin Treatment Biases Dogs' Visual Attention and Emotional Response toward Positive Human Facial Expressions. <i>Frontiers in Psychology</i> , 2017, 8, 1854.	2.1	34

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19	Clinical effects and pharmacokinetic variables of romifidine and the peripheral $\alpha_2$ -adrenoceptor antagonist MK-467 in horses. <i>Veterinary Anaesthesia and Analgesia</i> , 2016, 43, 599-610.	0.6	33
20	The effects of L-659,066, a peripheral $\alpha_2$ -adrenoceptor antagonist, and verapamil on the cardiovascular influences of dexmedetomidine in conscious sheep. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2010, 33, 434-438.	1.3	32
21	A comparison of thermographic imaging, physical examination and modified questionnaire as an instrument to assess painful conditions in cats. <i>Journal of Feline Medicine and Surgery</i> , 2013, 15, 124-131.	1.6	31
22	Behavioral alterations and severity of pain in cats recovering at home following elective ovariohysterectomy or castration. <i>Journal of the American Veterinary Medical Association</i> , 2007, 231, 236-242.	0.5	30
23	Quantitative contrast-enhanced ultrasonographic analysis of perfusion in the kidneys, liver, pancreas, small intestine, and mesenteric lymph nodes in healthy cats. <i>American Journal of Veterinary Research</i> , 2010, 71, 1305-1311.	0.6	30
24	Thermographic imaging of superficial temperature in dogs sedated with medetomidine and butorphanol with and without MK-467 (L-659066). <i>Veterinary Anaesthesia and Analgesia</i> , 2013, 40, 142-148.	0.6	30
25	Reactivity of Dogs' Brain Oscillations to Visual Stimuli Measured with Non-Invasive Electroencephalography. <i>PLoS ONE</i> , 2013, 8, e61818.	2.5	28
26	Effect of MK-467 on organ blood flow parameters detected by contrast-enhanced ultrasound in dogs treated with dexmedetomidine. <i>Veterinary Anaesthesia and Analgesia</i> , 2013, 40, e48-e56.	0.6	27
27	Visual event-related potentials of dogs: a non-invasive electroencephalography study. <i>Animal Cognition</i> , 2013, 16, 973-982.	1.8	25
28	Detomidine and the combination of detomidine and MK-467, a peripheral $\alpha_2$ adrenoceptor antagonist, as premedication in horses anaesthetized with isoflurane. <i>Veterinary Anaesthesia and Analgesia</i> , 2015, 42, 527-536.	0.6	25
29	Plasma concentration and cardiovascular effects of intramuscular medetomidine combined with three doses of the peripheral $\alpha_2$ -antagonist MK-467 in dogs. <i>Veterinary Anaesthesia and Analgesia</i> , 2017, 44, 417-426.	0.6	23
30	Evaluation of bioequivalence after oral, intramuscular, and intravenous administration of racemic ketoprofen in pigs. <i>American Journal of Veterinary Research</i> , 2008, 69, 108-113.	0.6	22
31	Crib-biting and its heritability in Finnhorses. <i>Applied Animal Behaviour Science</i> , 2014, 156, 37-43.	1.9	21
32	Comparison of dogs and humans in visual scanning of social interaction. <i>Royal Society Open Science</i> , 2015, 2, 150341.	2.4	21
33	Effects of MK-467 on the antinociceptive and sedative actions and pharmacokinetics of medetomidine in dogs. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2016, 39, 336-343.	1.3	21
34	Effects of feed on plasma leptin and ghrelin concentrations in crib-biting horses. <i>Veterinary Journal</i> , 2013, 198, 122-126.	1.7	20
35	The cardiopulmonary effects of a peripheral $\alpha_2$ -adrenoceptor antagonist, MK-467, in dogs sedated with a combination of medetomidine and butorphanol. <i>Veterinary Anaesthesia and Analgesia</i> , 2014, 41, 567-574.	0.6	18
36	Haemodynamic interactions of medetomidine and the peripheral $\alpha_2$ antagonist MK-467 during step infusions in isoflurane-anaesthetised dogs. <i>Veterinary Journal</i> , 2014, 202, 353-360.	1.7	18

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37	The Use of Atropine to Control Heart Rate Responses During Detomidine Sedation in Horses. <i>Acta Veterinaria Scandinavica</i> , 1986, 27, 548-559.	1.6	17
38	Effect of anaesthesia on contrast-enhanced ultrasound of the feline spleen. <i>Veterinary Journal</i> , 2011, 190, 273-277.	1.7	16
39	Effects of constant rate infusions of dexmedetomidine or MK-467 on the minimum alveolar concentration of sevoflurane in dogs. <i>Veterinary Anaesthesia and Analgesia</i> , 2017, 44, 755-765.	0.6	16
40	Effects of MK-467 hydrochloride and hyoscine butylbromide on cardiorespiratory and gastrointestinal changes induced by detomidine hydrochloride in horses. <i>American Journal of Veterinary Research</i> , 2018, 79, 376-387.	0.6	15
41	Concentrations of medetomidine enantiomers and vatinoxan, an $\hat{1}\pm 2$ -adrenoceptor antagonist, in plasma and central nervous tissue after intravenous coadministration in dogs. <i>Veterinary Anaesthesia and Analgesia</i> , 2020, 47, 47-52.	0.6	15
42	Cardiovascular effects of a ketamine-medetomidine combination that produces deep sedation in Yucatan mini swine. <i>Laboratory Animal Science</i> , 1992, 42, 582-8.	0.3	15
43	The effect of the sample size and location on contrast ultrasound measurement of perfusion parameters. <i>Veterinary Radiology and Ultrasound</i> , 2011, 52, 82-7.	0.9	15
44	Medetomidine, an $\hat{1}\pm 2$ -agonist, alleviates post-thoracotomy pain in dogs. <i>Laboratory Animals</i> , 1994, 28, 369-375.	1.0	14
45	Kidney-derived proteins in urine as biomarkers of induced acute kidney injury in sheep. <i>Veterinary Journal</i> , 2012, 193, 287-289.	1.7	14
46	A comparison in dogs of medetomidine, with or without MK-467, and the combination acepromazine-butorphanol as premedication prior to anaesthesia induced by propofol and maintained with isoflurane. <i>Veterinary Anaesthesia and Analgesia</i> , 2014, 41, 163-173.	0.6	14
47	The diet board: welfare impacts of a novel method of dietary restriction in laboratory rats. <i>Laboratory Animals</i> , 2009, 43, 215-223.	1.0	13
48	Translational animal models using veterinary patients – An example of canine osteoarthritis (OA). <i>Scandinavian Journal of Pain</i> , 2012, 3, 84-89.	1.3	13
49	Effects of the $\hat{1}\pm 2$ -adrenoceptor agonist medetomidine on the distribution and clearance of alfaxalone during coadministration by constant rate infusion in dogs. <i>American Journal of Veterinary Research</i> , 2017, 78, 956-964.	0.6	13
50	Effect of dexmedetomidine and xylazine followed by MK-467 on gastrointestinal microperfusion in anaesthetized horses. <i>Veterinary Anaesthesia and Analgesia</i> , 2018, 45, 165-174.	0.6	13
51	Condition-based use of antimicrobials in cats in Finland: Results from two surveys. <i>Journal of Feline Medicine and Surgery</i> , 2009, 11, 462-466.	1.6	12
52	Peripheral $\hat{1}\pm 2$ -adrenoceptor antagonism affects the absorption of intramuscularly coadministered drugs. <i>Veterinary Anaesthesia and Analgesia</i> , 2018, 45, 405-413.	0.6	12
53	Opinions of Finnish small animal owners about surgery and pain management in small animals. <i>Journal of Small Animal Practice</i> , 2008, 49, 626-632.	1.2	11
54	THE EFFECT OF THE SAMPLE SIZE AND LOCATION ON CONTRAST ULTRASOUND MEASUREMENT OF PERFUSION PARAMETERS. <i>Veterinary Radiology and Ultrasound</i> , 2011, 52, 82-87.	0.9	11

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55	Behavior changes associated with lameness in sows. <i>Applied Animal Behaviour Science</i> , 2017, 193, 15-20.	1.9	11
56	Early detection of ketoprofen-induced acute kidney injury in sheep as determined by evaluation of urinary enzyme activities. <i>American Journal of Veterinary Research</i> , 2010, 71, 1246-1252.	0.6	10
57	Proteomic profiling of dog urine after European adder ( <i>Vipera berus berus</i> ) envenomation by two-dimensional difference gel electrophoresis. <i>Toxicon</i> , 2012, 60, 1228-1234.	1.6	10
58	Activation of complement system in kidney after ketoprofen-induced kidney injury in sheep. <i>Acta Veterinaria Scandinavica</i> , 2015, 57, 15.	1.6	10
59	Effects of the peripherally acting $\alpha_2$ -adrenoceptor antagonist MK-467 on cardiopulmonary function in sheep sedated by intramuscular administration of medetomidine and ketamine and reversed by intramuscular administration of atipamezole. <i>American Journal of Veterinary Research</i> , 2018, 79, 921-932.	0.6	10
60	Results of 24-hour ambulatory electrocardiography in dogs undergoing ovariohysterectomy following premedication with medetomidine or acepromazine. <i>Journal of the American Veterinary Medical Association</i> , 2005, 226, 738-745.	0.5	9
61	The impact of MK-467 on plasma drug concentrations, sedation and cardiopulmonary changes in sheep treated with intramuscular medetomidine and atipamezole for reversal. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2018, 41, 447-456.	1.3	9
62	Peripherally acting $\alpha_2$ -adrenoceptor antagonist MK-467 with intramuscular medetomidine and butorphanol in dogs: A prospective, randomised, clinical trial. <i>Veterinary Journal</i> , 2018, 240, 22-26.	1.7	9
63	Time-resolved classification of dog brain signals reveals early processing of faces, species and emotion. <i>Scientific Reports</i> , 2020, 10, 19846.	3.3	9
64	Dog-Owner Relationship, Owner Interpretations and Dog Personality Are Connected with the Emotional Reactivity of Dogs. <i>Animals</i> , 2022, 12, 1338.	2.3	9
65	Evaluation of Dry Electrodes in Canine Heart Rate Monitoring. <i>Sensors</i> , 2018, 18, 1757.	3.8	8
66	INTRAVENOUS VATINOXAN IN MARKHORS (CAPRA FALCONERI HEPTNERI) IMMOBILIZED WITH INTRAMUSCULAR MEDETOMIDINE AND KETAMINE—A PRELIMINARY DOSESCREENING STUDY. <i>Journal of Zoo and Wildlife Medicine</i> , 2019, 50, 159.	0.6	8
67	A novel set of behavioural indicators for measuring perception of food by cats. <i>Veterinary Journal</i> , 2016, 216, 53-58.	1.7	7
68	Cardiovascular effects of premedication with medetomidine alone and in combination with MK-467 or glycopyrrolate in dogs subsequently anesthetized with isoflurane. <i>American Journal of Veterinary Research</i> , 2017, 78, 1245-1254.	0.6	7
69	Cardiopulmonary effects of vatinoxan in sevoflurane-anaesthetised sheep receiving dexmedetomidine. <i>Veterinary Journal</i> , 2018, 238, 63-69.	1.7	6
70	Cardiovascular and sedation reversal effects of intramuscular administration of atipamezole in dogs treated with medetomidine hydrochloride with or without the peripheral $\alpha_2$ -adrenoceptor antagonist vatinoxan hydrochloride. <i>American Journal of Veterinary Research</i> , 2019, 80, 912-922.	0.6	6
71	Adverse reactions of $\alpha_2$ -adrenoceptor agonists in cats reported in 2003-2013 in Finland. <i>Veterinary Anaesthesia and Analgesia</i> , 2017, 44, 803-810.	0.6	4
72	Effects of dexmedetomidine and MK-467 on plasma glucose, insulin and glucagon in a glibenclamide-induced canine hypoglycaemia model. <i>Veterinary Journal</i> , 2018, 242, 33-38.	1.7	4

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73	Investigation of the effects of vatinoxan on somatic and visceral antinociceptive efficacy of medetomidine in dogs. <i>American Journal of Veterinary Research</i> , 2020, 81, 299-308.	0.6	4
74	Observing animals and humans: dogs target their gaze to the biological information in natural scenes. <i>PeerJ</i> , 2020, 8, e10341.	2.0	4
75	Description of movement sensor dataset for dog behavior classification. <i>Data in Brief</i> , 2022, 40, 107822.	1.0	4
76	The impact of medetomidine on the protein-binding characteristics of MK-467 in canine plasma. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2016, 39, 405-407.	1.3	3
77	Sedative effect of intramuscular medetomidine with and without vatinoxan (MK-467), and its reversal with atipamezole in sheep. <i>Veterinary Anaesthesia and Analgesia</i> , 2018, 45, 788-793.	0.6	3
78	Effects of intramuscular vatinoxan (MK-467), co-administered with medetomidine and butorphanol, on cardiopulmonary and anaesthetic effects of intravenous ketamine in dogs. <i>Veterinary Anaesthesia and Analgesia</i> , 2020, 47, 604-613.	0.6	3
79	Combined effects of dexmedetomidine and vatinoxan infusions on minimum alveolar concentration and cardiopulmonary function in sevoflurane-anesthetized dogs. <i>Veterinary Anaesthesia and Analgesia</i> , 2021, 48, 314-323.	0.6	3
80	The Interplay Between Affect, Dog's Physical Activity and Dog-Owner Relationship. <i>Frontiers in Veterinary Science</i> , 2021, 8, 673407.	2.2	3
81	The role of active transport in the transcellular movement of the peripheral $\mu$ -adrenoceptor antagonist, MK-467: An pilot study. <i>Canadian Journal of Veterinary Research</i> , 2017, 81, 318-320.	0.2	0