

John H Rossmeisl Jr

List of Publications by Year in descending order

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Version: 2024-02-01

120
papers

3,107
citations

186265

28
h-index

197818

49
g-index

123
all docs

123
docs citations

123
times ranked

2247
citing authors

#	ARTICLE	IF	CITATIONS
1	High-frequency irreversible electroporation (H-FIRE) for non-thermal ablation without muscle contraction. <i>BioMedical Engineering OnLine</i> , 2011, 10, 102.	2.7	265
2	Intracranial Nonthermal Irreversible Electroporation: InÂVivo Analysis. <i>Journal of Membrane Biology</i> , 2010, 236, 127-136.	2.1	138
3	A Parametric Study Delineating Irreversible Electroporation from Thermal Damage Based on a Minimally Invasive Intracranial Procedure. <i>BioMedical Engineering OnLine</i> , 2011, 10, 34.	2.7	118
4	Veterinary <sc>Cooperative</sc> Oncology Groupâ€™ Common Terminology Criteria for Adverse Events (<sc>VCOGâ€™CTCAE</sc> v2) following investigational therapy in dogs and cats. <i>Veterinary and Comparative Oncology</i> , 2021, 19, 311-352.	1.8	117
5	High-frequency irreversible electroporation is an effective tumor ablation strategy that induces immunologic cell death and promotes systemic anti-tumor immunity. <i>EBioMedicine</i> , 2019, 44, 112-125.	6.1	116
6	Successful Treatment of a Large Soft Tissue Sarcoma With Irreversible Electroporation. <i>Journal of Clinical Oncology</i> , 2011, 29, e372-e377.	1.6	113
7	MAGNETIC RESONANCE IMAGING FEATURES OF INTRACRANIAL ASTROCYTOMAS AND OLIGODENDROGLIOMAS IN DOGS. <i>Veterinary Radiology and Ultrasound</i> , 2011, 52, 132-141.	0.9	90
8	Nonthermal irreversible electroporation for intracranial surgical applications. <i>Journal of Neurosurgery</i> , 2011, 114, 681-688.	1.6	89
9	Targeted cellular ablation based on the morphology of malignant cells. <i>Scientific Reports</i> , 2015, 5, 17157.	3.3	75
10	Creation of an NCI comparative brain tumor consortium: informing the translation of new knowledge from canine to human brain tumor patients. <i>Neuro-Oncology</i> , 2016, 18, 1209-1218.	1.2	75
11	Improved Local and Systemic Anti-Tumor Efficacy for Irreversible Electroporation in Immunocompetent versus Immunodeficient Mice. <i>PLoS ONE</i> , 2013, 8, e64559.	2.5	73
12	Safety and feasibility of the NanoKnife system for irreversible electroporation ablative treatment of canine spontaneous intracranial gliomas. <i>Journal of Neurosurgery</i> , 2015, 123, 1008-1025.	1.6	70
13	Canine Primary Intracranial Cancer: A Clinicopathologic and Comparative Review of Glioma, Meningioma, and Choroid Plexus Tumors. <i>Frontiers in Oncology</i> , 2019, 9, 1151.	2.8	63
14	Survival time following hospital discharge in dogs with palliatively treated primary brain tumors. <i>Journal of the American Veterinary Medical Association</i> , 2013, 242, 193-198.	0.5	60
15	Comparative Molecular Life History of Spontaneous Canine and Human Gliomas. <i>Cancer Cell</i> , 2020, 37, 243-257.e7.	16.8	59
16	High-Frequency Irreversible Electroporation for Intracranial Meningioma: A Feasibility Study in a Spontaneous Canine Tumor Model. <i>Technology in Cancer Research and Treatment</i> , 2018, 17, 153303381878528.	1.9	58
17	Vestibular Disease in Dogs and Cats. <i>Veterinary Clinics of North America - Small Animal Practice</i> , 2010, 40, 81-100.	1.5	56
18	Acute adverse events associated with ventral slot decompression in 546 dogs with cervical intervertebral disc disease. <i>Veterinary Surgery</i> , 2013, 42, 795-806.	1.0	55

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19	Predictive therapeutic planning for irreversible electroporation treatment of spontaneous malignant glioma. <i>Medical Physics</i> , 2017, 44, 4968-4980.	3.0	50
20	Expression of vascular endothelial growth factor in tumors and plasma from dogs with primary intracranial neoplasms. <i>American Journal of Veterinary Research</i> , 2007, 68, 1239-1245.	0.6	47
21	7.0-T Magnetic Resonance Imaging Characterization of Acute Blood-Brain-Barrier Disruption Achieved with Intracranial Irreversible Electroporation. <i>PLoS ONE</i> , 2012, 7, e50482.	2.5	45
22	New Agents for Targeting of IL-13RA2 Expressed in Primary Human and Canine Brain Tumors. <i>PLoS ONE</i> , 2013, 8, e77719.	2.5	40
23	A Modified Lateral Approach to the Canine Cervical Spine: Procedural Description and Clinical Application in 16 Dogs with Lateralized Compressive Myelopathy or Radiculopathy. <i>Veterinary Surgery</i> , 2005, 34, 436-444.	1.0	39
24	Clinical signs, risk factors, and outcomes associated with bromide toxicosis (bromism) in dogs with idiopathic epilepsy. <i>Journal of the American Veterinary Medical Association</i> , 2009, 234, 1425-1431.	0.5	36
25	Temporal Characterization of Blood-Brain Barrier Disruption with High-Frequency Electroporation. <i>Cancers</i> , 2019, 11, 1850.	3.7	34
26	Canine Spinal Nephroblastoma: Long-Term Outcomes Associated with Treatment of 10 Cases (1996-2009). <i>Veterinary Surgery</i> , 2011, 40, 244-252.	1.0	30
27	Focal blood-brain-barrier disruption with high-frequency pulsed electric fields. <i>Technology</i> , 2014, 02, 206-213.	1.4	30
28	Cerebrospinal fluid from a 10-year-old dog with a single seizure episode. <i>Veterinary Clinical Pathology</i> , 2006, 35, 127-131.	0.7	29
29	<i>In Vivo</i> Skeletal Muscle Biocompatibility of Composite, Coaxial Electrospun, and Microfibrous Scaffolds. <i>Tissue Engineering - Part A</i> , 2014, 20, 1961-1970.	3.1	29
30	Presumed and confirmed striatocapsular brain infarctions in six dogs. <i>Veterinary Ophthalmology</i> , 2007, 10, 23-36.	1.0	28
31	Cyclooxygenase-2 (COX-2) expression in canine intracranial meningiomas. <i>Veterinary and Comparative Oncology</i> , 2009, 7, 173-180.	1.8	27
32	INVITED REVIEW-NEUROIMAGING RESPONSE ASSESSMENT CRITERIA FOR BRAIN TUMORS IN VETERINARY PATIENTS. <i>Veterinary Radiology and Ultrasound</i> , 2014, 55, 115-132.	0.9	26
33	Consensus recommendations on standardized magnetic resonance imaging protocols for multicenter canine brain tumor clinical trials. <i>Veterinary Radiology and Ultrasound</i> , 2018, 59, 261-271.	0.9	26
34	Hypothyroid-Associated Central Vestibular Disease in 10 Dogs: 1999-2005. <i>Journal of Veterinary Internal Medicine</i> , 2006, 20, 1363.	1.6	26
35	Fiberoptic microneedles: Novel optical diffusers for interstitial delivery of therapeutic light. <i>Lasers in Surgery and Medicine</i> , 2011, 43, 914-920.	2.1	25
36	Status epilepticus in dogs and cats, part 2: treatment, monitoring, and prognosis. <i>Journal of Veterinary Emergency and Critical Care</i> , 2017, 27, 288-300.	1.1	25

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37	Chronic Vomiting Associated With a Gastric Carcinoid in a Cat. <i>Journal of the American Animal Hospital Association</i> , 2002, 38, 61-66.	1.1	24
38	New Treatment Modalities for Brain Tumors in Dogs and Cats. <i>Veterinary Clinics of North America - Small Animal Practice</i> , 2014, 44, 1013-1038.	1.5	24
39	Neuronal Ceroid-Lipofuscinosis in a Labrador Retriever. <i>Journal of Veterinary Diagnostic Investigation</i> , 2003, 15, 457-460.	1.1	23
40	COMPUTED TOMOGRAPHIC FEATURES OF SUSPECTED TRAUMATIC INJURY TO THE ILIOPSOAS AND PELVIC LIMB MUSCULATURE OF A DOG. <i>Veterinary Radiology and Ultrasound</i> , 2004, 45, 388-392.	0.9	22
41	Longitudinal study of the effects of chronic hypothyroidism on skeletal muscle in dogs. <i>American Journal of Veterinary Research</i> , 2009, 70, 879-889.	0.6	22
42	Pathology of non-thermal irreversible electroporation (N-TIRE)-induced ablation of the canine brain. <i>Journal of Veterinary Science</i> , 2013, 14, 433.	1.3	22
43	Cross-species transcriptional analysis reveals conserved and host-specific neoplastic processes in mammalian glioma. <i>Scientific Reports</i> , 2018, 8, 1180.	3.3	22
44	Hypothyroidism-Associated Central Vestibular Disease in 10 Dogs: 1999-2005. <i>Journal of Veterinary Internal Medicine</i> , 2006, 20, 1363-1369.	1.6	21
45	Fiberoptic microneedle device facilitates volumetric infusate dispersion during convection-enhanced delivery in the brain. <i>Lasers in Surgery and Medicine</i> , 2013, 45, 418-426.	2.1	21
46	Diagnostic accuracy of stereotactic brain biopsy for intracranial neoplasia in dogs: Comparison of biopsy, surgical resection, and necropsy specimens. <i>Journal of Veterinary Internal Medicine</i> , 2019, 33, 1384-1391.	1.6	21
47	Phase I trial of convection-enhanced delivery of IL13RA2 and EPHA2 receptor targeted cytotoxins in dogs with spontaneous intracranial gliomas. <i>Neuro-Oncology</i> , 2021, 23, 422-434.	1.2	21
48	Ecological Diversity of <i>Bartonella</i> Species Infection Among Dogs and Their Owner in Virginia. <i>Vector-Borne and Zoonotic Diseases</i> , 2011, 11, 1425-1432.	1.5	20
49	Status epilepticus in dogs and cats, part 1: etiopathogenesis, epidemiology, and diagnosis. <i>Journal of Veterinary Emergency and Critical Care</i> , 2017, 27, 278-287.	1.1	20
50	Primary Orthostatic Tremor in Great Danes. <i>Journal of Veterinary Internal Medicine</i> , 2005, 19, 606-609.	1.6	19
51	Blood-brain barrier disruption in chronic canine hypothyroidism. <i>Veterinary Clinical Pathology</i> , 2010, 39, 485-493.	0.7	18
52	Aqueous humor vascular endothelial growth factor in dogs: association with intraocular disease and the development of pre-iridal fibrovascular membrane. <i>Veterinary Ophthalmology</i> , 2012, 15, 21-30.	1.0	18
53	Comparison of intranasal versus intravenous midazolam for management of status epilepticus in dogs: A multicenter randomized parallel group clinical study. <i>Journal of Veterinary Internal Medicine</i> , 2019, 33, 2709-2717.	1.6	18
54	Companion animal models of neurological disease. <i>Journal of Neuroscience Methods</i> , 2020, 331, 108484.	2.5	18

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55	Bilateral cavernous sinus syndrome in dogs: 6 cases (1999-2004). <i>Journal of the American Veterinary Medical Association</i> , 2005, 226, 1105-1111.	0.5	17
56	Surgical cytoreduction for the treatment of non-lymphoid vertebral and spinal cord neoplasms in cats: retrospective evaluation of 26 cases (1990-2005). <i>Veterinary and Comparative Oncology</i> , 2006, 4, 41-50.	1.8	17
57	Histotripsy Ablation in Preclinical Animal Models of Cancer and Spontaneous Tumors in Veterinary Patients: A Review. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 5-26.	3.0	17
58	Pilot study of irreversible electroporation for intracranial surgery. , 2009, 2009, 6513-6.		16
59	Intracranial hyperthermia through local photothermal heating with a fiberoptic microneedle device. <i>Lasers in Surgery and Medicine</i> , 2013, 45, 167-174.	2.1	16
60	Glioma Mimics: Magnetic Resonance Imaging Characteristics of Granulomas in Dogs. <i>Frontiers in Veterinary Science</i> , 2019, 6, 286.	2.2	16
61	Clinicopathological characteristics of histiocytic sarcoma affecting the central nervous system in dogs. <i>Journal of Veterinary Internal Medicine</i> , 2020, 34, 828-837.	1.6	15
62	Resistance of the Peripheral Nervous System to the Effects of Chronic Canine Hypothyroidism. <i>Journal of Veterinary Internal Medicine</i> , 2010, 24, 875-881.	1.6	13
63	Computed Tomography and Magnetic Resonance Imaging Are Equivalent in Mensuration and Similarly Inaccurate in Grade and Type Predictability of Canine Intracranial Gliomas. <i>Frontiers in Veterinary Science</i> , 2017, 4, 157.	2.2	13
64	Feasibility and accuracy of 3D printed patient-specific skull contoured brain biopsy guides. <i>Veterinary Surgery</i> , 2021, 50, 933-943.	1.0	13
65	Effect of radiotherapy on freedom from seizures in dogs with brain tumors. <i>Journal of Veterinary Internal Medicine</i> , 2020, 34, 821-827.	1.6	13
66	Effect of multi-planar CT image reformatting on surgeon diagnostic performance for localizing thoracolumbar disc extrusions in dogs. <i>Journal of Veterinary Science</i> , 2009, 10, 225.	1.3	12
67	Electrical conductivity changes during irreversible electroporation treatment of brain cancer. , 2011, 2011, 739-42.		12
68	CT myelography of the thoraco-lumbar spine in 8 dogs with degenerative myelopathy. <i>Journal of Veterinary Science</i> , 2005, 6, 341.	1.3	11
69	Clinicopathologic Features of Intracranial Central Neurocytomas in 2 Dogs. <i>Journal of Veterinary Internal Medicine</i> , 2012, 26, 186-191.	1.6	11
70	An easy to produce and economical three-dimensional brain phantom for stereotactic computed tomographic-guided brain biopsy training in the dog*. <i>Veterinary Surgery</i> , 2017, 46, 621-630.	1.0	11
71	Nonthermal Irreversible Electroporation as a Focal Ablation Treatment for Brain Cancer. <i>Tumors of the Central Nervous System</i> , 2014, , 171-182.	0.1	11
72	Comparison of direct measurement of intracranial pressures and presumptive clinical and magnetic resonance imaging indicators of intracranial hypertension in dogs with brain tumors. <i>Journal of Veterinary Internal Medicine</i> , 2020, 34, 1514-1523.	1.6	11

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73	Assessment of the use of plasma and serum chloride concentrations as indirect predictors of serum bromide concentrations in dogs with idiopathic epilepsy. <i>Veterinary Clinical Pathology</i> , 2006, 35, 426-433.	0.7	10
74	Expression and activity of the urokinase plasminogen activator system in canine primary brain tumors. <i>OncoTargets and Therapy</i> , 2017, Volume 10, 2077-2085.	2.0	10
75	A case of stiff dog syndrome associated with anti-glutamic acid decarboxylase antibodies. <i>Journal of Clinical Movement Disorders</i> , 2017, 4, 5.	2.2	9
76	Surgical decompression, with or without adjunctive therapy, for palliative treatment of primary vertebral osteosarcoma in dogs. <i>Veterinary and Comparative Oncology</i> , 2019, 17, 472-478.	1.8	9
77	Multireceptor targeting of glioblastoma. <i>Neuro-Oncology Advances</i> , 2020, 2, vdaa107.	0.7	9
78	Non-thermal irreversible electroporation for deep intracranial disorders. , 2010, 2010, 2743-6.		8
79	Novel ablation methods for treatment of gliomas. <i>Journal of Neuroscience Methods</i> , 2020, 336, 108630.	2.5	8
80	An Investigation for Large Volume, Focal Blood-Brain Barrier Disruption with High-Frequency Pulsed Electric Fields. <i>Pharmaceuticals</i> , 2021, 14, 1333.	3.8	8
81	High-Frequency Irreversible Electroporation (H-FIRE) Induced Blood-Brain Barrier Disruption Is Mediated by Cytoskeletal Remodeling and Changes in Tight Junction Protein Regulation. <i>Biomedicines</i> , 2022, 10, 1384.	3.2	8
82	Mediastinal Mass in a Dog with Syncope and Abdominal Distension. <i>Veterinary Clinical Pathology</i> , 2000, 29, 19-21.	0.7	7
83	Canine Butterfly Glioblastomas: A Neuroradiological Review. <i>Frontiers in Veterinary Science</i> , 2016, 3, 40.	2.2	7
84	Primary Orthostatic Tremor in Great Danes. <i>Journal of Veterinary Internal Medicine</i> , 2005, 19, 606.	1.6	7
85	<i>Amanita muscaria</i> toxicosis in two dogs. <i>Journal of Veterinary Emergency and Critical Care</i> , 2006, 16, 208-214.	1.1	6
86	Magnetization transfer and diffusion tensor imaging in dogs with intervertebral disk herniation. <i>Journal of Veterinary Internal Medicine</i> , 2020, 34, 2536-2544.	1.6	6
87	Risk factors for adverse events occurring after recovery from stereotactic brain biopsy in dogs with primary intracranial neoplasia. <i>Journal of Veterinary Internal Medicine</i> , 2020, 34, 2021-2028.	1.6	6
88	Development and Evaluation of a Caregiver Reported Quality of Life Assessment Instrument in Dogs With Intracranial Disease. <i>Frontiers in Veterinary Science</i> , 2020, 7, 537.	2.2	6
89	Cerebrospinal Fluid Drop Metastases of Canine Glioma: Magnetic Resonance Imaging Classification. <i>Frontiers in Veterinary Science</i> , 2021, 8, 650320.	2.2	6
90	Endostatin Concentrations in Healthy Dogs and Dogs with Selected Neoplasms. <i>Journal of Veterinary Internal Medicine</i> , 2002, 16, 565-569.	1.6	5

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91	Maximizing Local Access to Therapeutic Deliveries in Glioblastoma. Part V: Clinically Relevant Model for Testing New Therapeutic Approaches. , 0, , 405-425.		5
92	Endostatin Concentrations in Healthy Dogs and Dogs with Selected Neoplasms. <i>Journal of Veterinary Internal Medicine</i> , 2002, 16, 565.	1.6	5
93	Convection-Enhanced Arborizing Catheter System Improves Local/Regional Delivery of Infusates Versus a Single-Port Catheter in Ex Vivo Porcine Brain Tissue. <i>Journal of Engineering and Science in Medical Diagnostics and Therapy</i> , 2021, 4, .	0.5	5
94	High-frequency irreversible electroporation brain tumor ablation: exploring the dynamics of cell death and recovery. <i>Bioelectrochemistry</i> , 2022, 144, 108001.	4.6	5
95	Incidence, risk factors, and outcomes for early postoperative seizures in dogs with rostrotentorial brain tumors after intracranial surgery. <i>Journal of Veterinary Internal Medicine</i> , 2022, 36, 694-701.	1.6	5
96	Comparison of linear and volumetric criteria for the determination of therapeutic response in dogs with intracranial gliomas. <i>Journal of Veterinary Internal Medicine</i> , 2022, 36, 1066-1074.	1.6	5
97	A study using irreversible electroporation to treat large, irregular tumors in a canine patient. , 2010, 2010, 2747-50.		4
98	Augmenting convection-enhanced delivery through simultaneous co-delivery of fluids and laser energy with a fiberoptic microneedle device. <i>Proceedings of SPIE</i> , 2013, , .	0.8	4
99	Evaluation of a procaspase-3 activator with hydroxyurea or temozolomide against high-grade meningioma in cell culture and canine cancer patients. <i>Neuro-Oncology</i> , 2021, 23, 1723-1735.	1.2	4
100	Evaluation of endothelin-1 and MMPs-2, -9, -14 in cerebrospinal fluid as indirect indicators of blood-brain barrier dysfunction in chronic canine hypothyroidism. <i>Research in Veterinary Science</i> , 2016, 105, 115-120.	1.9	3
101	Tumors of the Nervous System. , 2019, , 657-674.		3
102	What is your diagnosis? Middle ear material from a dog. <i>Veterinary Clinical Pathology</i> , 2016, 45, 195-196.	0.7	2
103	EXTH-43. EFFECTIVE TREATMENT OF CANINE SPONTANEOUS GLIOMAS WITH A CYTOTOXIC COCKTAIL TARGETING IL-13RA2 AND EphA2 RECEPTORS. <i>Neuro-Oncology</i> , 2018, 20, vi94-vi94.	1.2	2
104	Irreversible Electroporation for the Treatment of Brain Tumors: Pre-clinical Results in a Canine Model of Spontaneous Glioma. <i>IFMBE Proceedings</i> , 2015, , 809-812.	0.3	2
105	Primary orthostatic tremor and orthostatic tremor plus in dogs: 60 cases (2003-2020). <i>Journal of Veterinary Internal Medicine</i> , 2022, 36, 179-189.	1.6	2
106	Constant Pressure Convection-Enhanced Delivery Increases Volume Dispersed with Catheter Movement in Agarose. <i>Journal of Biomechanical Engineering</i> , 2022, , .	1.3	2
107	Canine Snake-Eye Myelopathy: Clinical, Magnetic Resonance Imaging, and Pathologic Findings in Four Cases. <i>Frontiers in Veterinary Science</i> , 2019, 6, 219.	2.2	1
108	EXTH-54. MULTIVALENT TARGETED PROTEINS FOR GLIOBLASTOMA TREATMENT. <i>Neuro-Oncology</i> , 2019, 21, vi93-vi94.	1.2	1

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109	EXTH-34. PHASE I TRIAL OF CONVECTION-ENHANCED DELIVERY OF IL13RA2 AND EPHA2 RECEPTOR TARGETED CYTOTOXINS IN DOGS WITH SPONTANEOUS INTRACRANIAL GLIOMAS. <i>Neuro-Oncology</i> , 2020, 22, ii94-ii94.	1.2	1
110	SURG-41. BLOOD-BRAIN BARRIER DISRUPTION WITH HIGH-FREQUENCY ELECTROPORATION IN VIVO: A PRELIMINARY INVESTIGATION DEMONSTRATING THE EFFECTS OF VARIED PULSE WIDTHS AND INTRA-PHASE DELAYS. <i>Neuro-Oncology</i> , 2020, 22, ii212-ii212.	1.2	1
111	Clinical, Diagnostic, and Imaging Findings in Three Juvenile Dogs With Paraspinal Hyperesthesia or Myelopathy as a Consequence of Hemophilia A: A Case Report. <i>Frontiers in Veterinary Science</i> , 2022, 9, 871029.	2.2	1
112	Veterinary Medicine Today What Is Your Diagnosis?. <i>Journal of the American Veterinary Medical Association</i> , 2001, 219, 305-306.	0.5	0
113	Veterinary Medicine Today What Is Your Neurologic Diagnosis?. <i>Journal of the American Veterinary Medical Association</i> , 2005, 226, 699-701.	0.5	0
114	Irreversible Electroporation (IRE) to Treat Brain Tumors. , 2008, , .		0
115	Optic nerve astrocytoma in a dog. <i>Clinical Case Reports (discontinued)</i> , 2016, 4, 855-860.	0.5	0
116	GENE-57. COMPARATIVE MOLECULAR LIFE HISTORY OF SPONTANEOUS CANINE AND HUMAN GLIOMA. <i>Neuro-Oncology</i> , 2019, 21, vi110-vi110.	1.2	0
117	Improving Convection-Enhanced Delivery Through Photothermal Augmentation of Fluid Dispersal. , 2012, , .		0
118	Biocompatibility of the fiberoptic microneedle device chronically implanted in the rat brain. <i>Research in Veterinary Science</i> , 2022, 143, 74-80.	1.9	0
119	EXTH-23. MULTIVALENT TARGETED CYTOLYTIC AGENTS FOR GLIOBLASTOMA TREATMENT. <i>Neuro-Oncology</i> , 2020, 22, ii91-ii91.	1.2	0
120	MRI diffusion tensor imaging scalar values in dogs with intervertebral disc herniation: A comparison between manual and semiautomated region of interest methods. <i>Veterinary Radiology and Ultrasound</i> , 0, , .	0.9	0