Terry L Powley

List of Publications by Year
in descending order

52 papers	3,686 citations	172457 29 h-index	214800 47 g-index
56 all docs	56 docs citations	56 times ranked	2175 citing authors

#	Article	IF	Citations
1	Automatic assessment of human gastric motility and emptying from dynamic 3D magnetic resonance imaging. Neurogastroenterology and Motility, 2022, 34, e14239.	3.0	6
2	Stomach region stimulated determines effects on duodenal motility in rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2021, 320, R331-R341.	1.8	6
3	In Vivo Evaluation of Fractal Microelectrodes Towards a More Targeted and Energyâ€Efficient Vagus Nerve Stimulation. FASEB Journal, 2021, 35, .	0.5	0
4	Stomach serosal arteries distinguish gastric regions of the rat. Journal of Anatomy, 2021, 239, 903-912.	1.5	8
5	Gastric neurons in the nucleus tractus solitarius are selective to the orientation of gastric electrical stimulation. Journal of Neural Engineering, 2021, 18, 056066.	3.5	6
6	Brain-gut communication: vagovagal reflexes interconnect the two â€œbrainsâ€• American Journal of Physiology - Renal Physiology, 2021, 321, G576-G587.	3.4	20
7	The identification of neuronal control pathways supplying effector tissues in the stomach. Cell and Tissue Research, 2020, 382, 433-445.	2.9	25
8	An emerging method to noninvasively measure and identify vagal response markers to enable bioelectronic control of gastroparesis symptoms with gastric electrical stimulation. Journal of Neuroscience Methods, 2020, 336, 108631.	2.5	8
9	Acute effects of vagus nerve stimulation parameters on gastric motility assessed with magnetic resonance imaging. Neurogastroenterology and Motility, 2020, 32, e13853.	3.0	17
10	Vagal innervation of the stomach reassessed: brainâ^'gut connectome uses smart terminals. Annals of the New York Academy of Sciences, 2019, 1454, 14-30.	3.8	40
11	Gastric stimulation drives fast BOLD responses of neural origin. NeuroImage, 2019, 197, 200-211.	4.2	23
12	Vagus nerve stimulation promotes gastric emptying by increasing pyloric opening measured with magnetic resonance imaging. Neurogastroenterology and Motility, 2018, 30, e13380.	3.0	43
13	Contrast-Enhanced Magnetic Resonance Imaging of Gastric Emptying and Motility in Rats. IEEE Transactions on Biomedical Engineering, 2017, 64, 2546-2554.	4.2	25
14	Vagal nerve stimulation triggers widespread responses and alters large-scale functional connectivity in the rat brain. PLoS ONE, 2017, 12, e0189518.	2.5	51
15	Vagal Intramuscular Arrays: The Specialized Mechanoreceptor Arbors That Innervate the Smooth Muscle Layers of the Stomach Examined in the Rat. Journal of Comparative Neurology, 2016, 524, 713-737.	1.6	44
16	Vagal Intramuscular Arrays: The Specialized Mechanoreceptor Arbors That Innervate the Smooth Muscle Layers of the Stomach Examined in the Rat. Journal of Comparative Neurology, 2016, 524, Spc1-Spc1.	1.6	0
17	Individual sympathetic postganglionic neurons coinnervate myenteric ganglia and smooth muscle layers in the gastrointestinal tract of the rat. Journal of Comparative Neurology, 2016, 524, 2577-2603.	1.6	20
18	Organization of vagal afferents in pylorus: Mechanoreceptors arrayed for high sensitivity and fine spatial resolution?. Autonomic Neuroscience: Basic and Clinical, 2014, 183, 36-48.	2.8	14

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19	Architecture of vagal motor units controlling striated muscle of esophagus: Peripheral elements patterning peristalsis?. Autonomic Neuroscience: Basic and Clinical, 2013, 179, 90-98.	2.8	10
20	Sympathetic axonopathies and hyperinnervation in the small intestine smooth muscle of aged Fischer 344 rats. Autonomic Neuroscience: Basic and Clinical, 2013, 179, 108-121.	2.8	12
21	Vagal afferent innervation of the lower esophageal sphincter. Autonomic Neuroscience: Basic and Clinical, 2013, 177, 129-142.	2.8	30
22	Vagal sensory innervation of the gastric sling muscle and antral wall: implications for gastroâ€esophageal reflux disease?. Neurogastroenterology and Motility, 2012, 24, e526-37.	3.0	17
23	Vagal intramuscular array afferents form complexes with interstitial cells of Cajal in gastrointestinal smooth muscle: analogues of muscle spindle organs?. Neuroscience, 2011, 186, 188-200.	2.3	65
24	Vagal afferent innervation of the proximal gastrointestinal tract mucosa: Chemoreceptor and mechanoreceptor architecture. Journal of Comparative Neurology, 2011, 519, 644-660.	1.6	119
25	Versatile, high-resolution anterograde labeling of vagal efferent projections with dextran amines. Journal of Neuroscience Methods, 2009, 178, 1-9.	2.5	47
26	Alpha-synuclein immunopositive aggregates in the myenteric plexus of the aging Fischer 344 rat. Experimental Neurology, 2009, 220, 109-119.	4.1	56
27	Ultrastructural evidence for communication between intramuscular vagal mechanoreceptors and interstitial cells of Cajal in the rat fundus. Neurogastroenterology and Motility, 2008, 20, 69-79.	3.0	97
28	Vagal innervation of intestines: afferent pathways mapped with new en bloc horseradish peroxidase adaptation. Cell and Tissue Research, 2007, 329, 221-230.	2.9	79
29	Effects of age on sympathetic innervation of the myenteric plexus and gastrointestinal smooth muscle of Fischer 344 rats. Anatomy and Embryology, 2006, 211, 673-683.	1.5	38
30	Quantification of neurons in the myenteric plexus: an evaluation of putative pan-neuronal markers. Journal of Neuroscience Methods, 2004, 133, 99-107.	2.5	120
31	I. Morphology and topography of vagal afferents innervating the GI tract. American Journal of Physiology - Renal Physiology, 2002, 283, G1217-G1225.	3.4	85
32	C-Kit mutant mice have a selective loss of vagal intramuscular mechanoreceptors in the forestomach. Anatomy and Embryology, 2001, 204, 11-26.	1.5	65
33	As the gut ages: Timetables for aging of innervation vary by organ in the Fischer 344 rat. Journal of Comparative Neurology, 2001, 434, 358-377.	1.6	100
34	Topographic inventories of vagal afferents in gastrointestinal muscle. , 2000, 421, 302-324.		198
35	Vagal afferent innervation of smooth muscle in the stomach and duodenum of the mouse: Morphology and topography. Journal of Comparative Neurology, 2000, 428, 558-576.	1.6	118
36	Tension and stretch receptors in gastrointestinal smooth muscle: re-evaluating vagal mechanoreceptor electrophysiology. Brain Research Reviews, 2000, 34, 1-26.	9.0	229

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37	Topographic inventories of vagal afferents in gastrointestinal muscle. Journal of Comparative Neurology, 2000, 421, 302-24.	1.6	89
38	Dorsal motor nucleus of the vagus neurons: A multivariate taxonomy. Journal of Comparative Neurology, 1999, 403, 359-377.	1.6	39
39	Dorsal motor nucleus of the vagus neurons: a multivariate taxonomy. Journal of Comparative Neurology, 1999, 403, 359-77.	1.6	15
40	Vagal preganglionic projections to the enteric nervous system characterized withPhaseolus vulgaris-leucoagglutinin. , 1997, 381, 81-100.		106
41	Interaction between parasympathetic and sympathetic nerves in prevertebral ganglia: Morphological evidence for vagal efferent innervation of ganglion cells in the rat. Microscopy Research and Technique, 1996, 35, 80-86.	2.2	83
42	Characterization of vagal innervation to the rat celiac, suprarenal and mesenteric ganglia. Journal of the Autonomic Nervous System, 1993, 42, 153-169.	1.9	151
43	Vagal afferent innervation of the rat fundic stomach: Morphological characterization of the gastric tension receptor. Journal of Comparative Neurology, 1992, 319, 261-276.	1.6	269
44	Morphology of identified preganglionic neurons in the dorsal motor nucleus of the vagus. Journal of Comparative Neurology, 1992, 322, 79-98.	1.6	57
45	Topography of efferent vagal innervation of the rat gastrointestinal tract. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1991, 260, R200-R207.	1.8	209
46	B-Afferents: A fundamental division of the nervous system mediating homeostasis?. Behavioral and Brain Sciences, 1990, 13, 289-300.	0.7	40
47	Ontogeny, form, function, and prediction. Behavioral and Brain Sciences, 1990, 13, 318-331.	0.7	0
48	The fiber composition of the abdominal vagus of the rat. Anatomy and Embryology, 1990, 181, 101-15.	1.5	259
49	Simultaneous labeling of vagal innervation of the gut and afferent projections from the visceral forebrain with DiI injected into the dorsal vagal complex in the rat. Journal of Comparative Neurology, 1990, 301, 65-79.	1.6	184
50	False-positive artifacts of tracer strategies distort autonomic connectivity maps. Brain Research Reviews, 1989, 14, 53-77.	9.0	64
51	Organization and distribution of the rat subdiaphragmatic vagus and associated paraganglia. Journal of Comparative Neurology, 1985, 235, 182-195.	1.6	90
52	Longitudinal columnar organization within the dorsal motor nucleus represents separate branches of the abdominal vagus. Brain Research, 1985, 341, 269-282.	2.2	186