Simon J Brookes

List of Publications by Year in descending order

122 papers	5,816 citations	76326 40 h-index	82547 72 g-index
124 all docs	124 docs citations	124 times ranked	2678 citing authors

#	Article	IF	Citations
1	Neurochemical classification of myenteric neurons in the guinea-pig ileum. Neuroscience, 1996, 75, 949-967.	2.3	444
2	Projections and chemical coding of neurons with immunoreactivity for nitric oxide synthase in the guinea-pig small intestine. Neuroscience Letters, 1992, 148, 121-125.	2.1	304
3	Classes of enteric nerve cells in the guinea-pig small intestine. The Anatomical Record, 2001, 262, 58-70.	1.8	303
4	Intraganglionic laminar endings are mechanoâ€transduction sites of vagal tension receptors in the guineaâ€pig stomach. Journal of Physiology, 2001, 534, 255-268.	2.9	243
5	Extrinsic primary afferent signalling in the gut. Nature Reviews Gastroenterology and Hepatology, 2013, 10, 286-296.	17.8	229
6	Identification and immunohistochemistry of cholinergic and non-cholinergic circular muscle motor neurons in the guinea-pig small intestine. Neuroscience, 1991, 42, 863-878.	2.3	208
7	Transduction Sites of Vagal Mechanoreceptors in the Guinea Pig Esophagus. Journal of Neuroscience, 2000, 20, 6249-6255.	3.6	181
8	Thermosensitive transient receptor potential channels in vagal afferent neurons of the mouse. American Journal of Physiology - Renal Physiology, 2004, 286, G983-G991.	3.4	166
9	Immunohistochemical identification of cholinergic neurons in the myenteric plexus of guinea-pig small intestine. Neuroscience, 1991, 45, 227-239.	2.3	139
10	Rectal intraganglionic laminar endings are transduction sites of extrinsic mechanoreceptors in the guinea pig rectum. Gastroenterology, 2003, 125, 786-794.	1.3	137
11	Mechanotransduction by intraganglionic laminar endings of vagal tension receptors in the guineaâ€pig oesophagus. Journal of Physiology, 2003, 553, 575-587.	2.9	127
12	Identification of myenteric neurons which project to the mucosa of the guinea-pig small intestine. Neuroscience Letters, 1991, 129, 294-298.	2.1	122
13	Insights into the mechanisms underlying colonic motor patterns. Journal of Physiology, 2016, 594, 4099-4116.	2.9	121
14	All calbindin-immunoreactive myenteric neurons project to the mucosa of the guinea-pig small intestine. Neuroscience Letters, 1994, 180, 219-222.	2.1	111
15	Mechanisms underlying distension-evoked peristalsis in guinea pig distal colon: is there a role for enterochromaffin cells?. American Journal of Physiology - Renal Physiology, 2011, 301, G519-G527.	3.4	100
16	Identification of motor neurons to the longitudinal muscle of the guinea pig ileum. Gastroenterology, 1992, 103, 961-973.	1.3	97
17	Neuronal nitric oxide in the gut. Journal of Gastroenterology and Hepatology (Australia), 1993, 8, 590-603.	2.8	97
18	Properties of the major classes of mechanoreceptors in the guinea pig bladder. Journal of Physiology, 2007, 585, 147-163.	2.9	81

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19	Identification of enteric motor neurones which innervate the circular muscle of the guinea pig small intestine. Neuroscience Letters, 1990, 118, 227-230.	2.1	79
20	Identification of Medium/High-Threshold Extrinsic Mechanosensitive Afferent Nerves to the Gastrointestinal Tract. Gastroenterology, 2009, 137, 274-284.e1.	1.3	79
21	Identification of the Visceral Pain Pathway Activated by Noxious Colorectal Distension in Mice. Frontiers in Neuroscience, 2011, 5, 16.	2.8	69
22	Identification of a Rhythmic Firing Pattern in the Enteric Nervous System That Generates Rhythmic Electrical Activity in Smooth Muscle. Journal of Neuroscience, 2018, 38, 5507-5522.	3.6	68
23	Projections of nitric oxide synthase and vasoactive intestinal polypeptideâ€reactive submucosal neurons in the human colon. Journal of Gastroenterology and Hepatology (Australia), 1999, 14, 1180-1187.	2.8	64
24	Excitatory and inhibitory motor reflexes in the isolated guinea-pig stomach. Journal of Physiology, 1997, 501, 197-212.	2.9	63
25	Major classes of sensory neurons to the urinary bladder. Autonomic Neuroscience: Basic and Clinical, 2006, 126-127, 390-397.	2.8	63
26	The morphology and projections of retrogradely labeled myenteric neurons in the human intestine. Gastroenterology, 1995, 109, 866-875.	1.3	62
27	Neuronal pathways and transmission to the lower esophageal sphincter of the guinea pig. Gastroenterology, 1998, 115, 661-671.	1.3	62
28	Identification of unique release kinetics of serotonin from guineaâ€pig and human enterochromaffin cells. Journal of Physiology, 2013, 591, 5959-5975.	2.9	62
29	Mechanical activation of rectal intraganglionic laminar endings in the guinea pig distal gut. Journal of Physiology, 2005, 564, 589-601.	2.9	59
30	Mechanotransduction and chemosensitivity of two major classes of bladder afferents with endings in the vicinity to the urothelium. Journal of Physiology, 2009, 587, 3523-3538.	2.9	58
31	Characterization of myenteric interneurons with somatostatin immunoreactivity in the guinea-pig small intestine. Neuroscience, 1997, 80, 907-923.	2.3	56
32	Neural mechanisms of peristalsis in the isolated rabbit distal colon: a neuromechanical loop hypothesis. Frontiers in Neuroscience, 2014, 8, 75.	2.8	55
33	Spinal afferent nerve endings in visceral organs: recent advances. American Journal of Physiology - Renal Physiology, 2016, 311, G1056-G1063.	3.4	55
34	Neurochemical characterization of extrinsic innervation of the guinea pig rectum. Journal of Comparative Neurology, 2004, 470, 357-371.	1.6	54
35	Identification of motor neurons to the circular muscle of the guinea pig gastric corpus. , 1998, 397, 268-280.		49
36	Mechanisms of mechanotransduction by specialized low-threshold mechanoreceptors in the guinea pig rectum. American Journal of Physiology - Renal Physiology, 2005, 289, G397-G406.	3.4	49

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37	CrossTalk opposing view: 5â€HT is not necessary for peristalsis. Journal of Physiology, 2015, 593, 3229-3231.	2.9	49
38	Characterization of motor patterns in isolated human colon: are there differences in patients with slow-transit constipation?. American Journal of Physiology - Renal Physiology, 2012, 302, G34-G43.	3.4	48
39	Comparison of extrinsic efferent innervation of guinea pig distal colon and rectum. Journal of Comparative Neurology, 2006, 496, 787-801.	1.6	47
40	An experimental method to identify neurogenic and myogenic active mechanical states of intestinal motility. Frontiers in Systems Neuroscience, 2013, 7, 7.	2.5	47
41	Different types of spinal afferent nerve endings in stomach and esophagus identified by anterograde tracing from dorsal root ganglia. Journal of Comparative Neurology, 2016, 524, 3064-3083.	1.6	44
42	Dissociation of the ascending excitatory reflex from peristalsis in the guinea-pig small intestine. Neuroscience, 1996, 73, 287-297.	2.3	43
43	Loss of visceral pain following colorectal distension in an endothelinâ€3 deficient mouse model of Hirschsprung's disease. Journal of Physiology, 2011, 589, 1691-1706.	2.9	42
44	Identifying unique subtypes of spinal afferent nerve endings within the urinary bladder of mice. Journal of Comparative Neurology, 2018, 526, 707-720.	1.6	42
45	Structureâ€“function relationship of sensory endings in the gut and bladder. Autonomic Neuroscience: Basic and Clinical, 2010, 153, 3-11.	2.8	39
46	Identification and mechanosensitivity of viscerofugal neurons. Neuroscience, 2012, 225, 118-129.	2.3	38
47	Projections of submucous neurons to the myenteric plexus in the guinea pig small intestine. , 1998, 399, 255-268.		35
48	5-HT3 and 5-HT4 antagonists inhibit peristaltic contractions in guinea-pig distal colon by mechanisms independent of endogenous 5-HT. Frontiers in Neuroscience, 2013, 7, 136.	2.8	35
49	Quantitative immunohistochemical co-localization of TRPV1 and CGRP in varicose axons of the murine oesophagus, stomach and colorectum. Neuroscience Letters, 2015, 599, 164-171.	2.1	35
50	Identification of functional intramuscular rectal mechanoreceptors in aganglionic rectal smooth muscle from piebald lethal mice. American Journal of Physiology - Renal Physiology, 2008, 294, G855-G867.	3.4	33
51	Postoperative ileusâ€”An ongoing conundrum. Neurogastroenterology and Motility, 2021, 33, e14046.	3.0	32
52	Intracellular recordings from cells in the myenteric plexus of the rat duodenum. Neuroscience, 1988, 24, 297-307.	2.3	31
53	Spontaneous release of acetylcholine from autonomic nerves in the bladder. British Journal of Pharmacology, 2009, 157, 607-619.	5.4	31
54	Control of intrinsic pacemaker frequency and velocity of colonic migrating motor complexes in mouse. Frontiers in Neuroscience, 2014, 8, 96.	2.8	31

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55	Distension-evoked ascending and descending reflexes in the isolated guinea-pig stomach. Journal of the Autonomic Nervous System, 1997, 62, 94-102.	1.9	26
56	Translating peripheral bladder afferent mechanosensitivity to neuronal activation within the lumbosacral spinal cord of mice. Pain, 2019, 160, 793-804.	4.2	25
57	Neuronal control of the gastric sling muscle of the guinea pig. , 1999, 412, 669-680.		24
58	Identification of different functional types of spinal afferent neurons innervating the mouse large intestine using a novel CGRPÎ± transgenic reporter mouse. American Journal of Physiology - Renal Physiology, 2016, 310, G561-G573.	3.4	24
59	Selective expression of Î±â€synucleinâ€immunoreactivity in vesicular acetylcholine transporterâ€immunoreactive axons in the guinea pig rectum and human colon. Journal of Comparative Neurology, 2013, 521, 657-676.	1.6	23
60	Characterization of alkaline phosphatase-reactive neurons in the guinea-pig small intestine. Neuroscience, 1994, 63, 1153-1167.	2.3	22
61	Neurally mediated propagating discrete clustered contractions superimposed on myogenic ripples in ex vivo segments of human ileum. American Journal of Physiology - Renal Physiology, 2015, 308, G1-G11.	3.4	22
62	Extrinsic Sensory Innervation of the Gut: Structure and Function. Advances in Experimental Medicine and Biology, 2016, 891, 63-69.	1.6	22
63	Intestinal Peristalsis: A Mammalian Motor Pattern Controlled by Enteric Neural Circuitsa. Annals of the New York Academy of Sciences, 1998, 860, 464-466.	3.8	21
64	Functional GABAB receptors are present in guinea pig nodose ganglion cell bodies but not in peripheral mechanosensitive endings. Autonomic Neuroscience: Basic and Clinical, 2002, 102, 20-29.	2.8	21
65	Selective coexpression of synaptic proteins, Î±â€synuclein, cysteine string proteinâ€Î±, synaptophysin, synaptotagminâ€1, and synaptobrevinâ€2 in vesicular acetylcholine transporterâ€immunoreactive axons in the guinea pig ileum. Journal of Comparative Neurology, 2013, 521, 2523-2537.	1.6	21
66	Measurement of Muscular Activity Associated With Peristalsis in the Human Gut Using Fiber Bragg Grating Arrays. IEEE Sensors Journal, 2012, 12, 113-117.	4.7	20
67	Ascending excitatory neural pathways modulate slow phasic myogenic contractions in the isolated human colon. Neurogastroenterology and Motility, 2013, 25, 670.	3.0	20
68	Synaptic activation of putative sensory neurons by hexamethonium-sensitive nerve pathways in mouse colon. American Journal of Physiology - Renal Physiology, 2018, 314, G53-G64.	3.4	20
69	Characterization of putative interneurons in the myenteric plexus of human colon. Neurogastroenterology and Motility, 2021, 33, e13964.	3.0	19
70	Identification of multiple distinct neurogenic motor patterns that can occur simultaneously in the guinea pig distal colon. American Journal of Physiology - Renal Physiology, 2019, 316, G32-G44.	3.4	18
71	The role of enteric inhibitory neurons in intestinal motility. Autonomic Neuroscience: Basic and Clinical, 2021, 235, 102854.	2.8	18
72	Roles of three distinct neurogenic motor patterns during pellet propulsion in guineaâ€pig distal colon. Journal of Physiology, 2019, 597, 5125-5140.	2.9	17

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73	A fibre optic catheter for simultaneous measurement of longitudinal and circumferential muscular activity in the gastrointestinal tract. Journal of Biophotonics, 2011, 4, 244-251.	2.3	15
74	Neurochemical characterization of extrinsic nerves in myenteric ganglia of the guinea pig distal colon. Journal of Comparative Neurology, 2015, 523, 742-756.	1.6	15
75	Rectal prolapse in Winnie mice with spontaneous chronic colitis: changes in intrinsic and extrinsic innervation of the rectum. Cell and Tissue Research, 2016, 366, 285-299.	2.9	15
76	Endocannabinoids in Bladder Sensory Mechanisms in Health and Diseases. Frontiers in Pharmacology, 2021, 12, 708989.	3.5	15
77	4-aminopyridine- and dendrotoxin-sensitive potassium channels influence excitability of vagal mechano-sensitive endings in guinea-pig oesophagus. British Journal of Pharmacology, 2002, 137, 1195-1206.	5.4	14
78	Loss of responsiveness of circular smooth muscle cells from the guinea pig ileum is associated with changes in gap junction coupling. American Journal of Physiology - Renal Physiology, 2012, 302, G1434-G1444.	3.4	14
79	Rotenone and elevated extracellular potassium concentration induce cellâ€specific fibrillation of Î±â€synuclein in axons of cholinergic enteric neurons in the guineaâ€pig ileum. Neurogastroenterology and Motility, 2017, 29, e12985.	3.0	14
80	Distinct patterns of myogenic motor activity identified in isolated human distal colon with highâ€resolution manometry. Neurogastroenterology and Motility, 2020, 32, e13871.	3.0	14
81	Expression of Notch1 and Jagged2 in the Enteric Nervous System. Journal of Histochemistry and Cytochemistry, 2003, 51, 969-972.	2.5	13
82	Activation of intestinal spinal afferent endings by changes in intraâ€mesenteric arterial pressure. Journal of Physiology, 2015, 593, 3693-3709.	2.9	13
83	Electrophysiological characterization of human rectal afferents. American Journal of Physiology - Renal Physiology, 2016, 311, G1047-G1055.	3.4	13
84	CGRPÎ± within the Trpv1-Cre population contributes to visceral nociception. American Journal of Physiology - Renal Physiology, 2018, 314, G188-G200.	3.4	13
85	Characterization of projections of longitudinal muscle motor neurons in human colon. Neurogastroenterology and Motility, 2019, 31, e13685.	3.0	13
86	Neural motor complexes propagate continuously along the full length of mouse small intestine and colon. American Journal of Physiology - Renal Physiology, 2020, 318, G99-G108.	3.4	13
87	A Novel Mode of Sympathetic Reflex Activation Mediated by the Enteric Nervous System. ENeuro, 2020, 7, ENEURO.0187-20.2020.	1.9	13
88	Functional Histoanatomy of the Enteric Nervous System. , 2006, , 577-602.		12
89	Targeted electrophysiological analysis of viscerofugal neurons in the myenteric plexus of guinea-pig colon. Neuroscience, 2014, 275, 272-284.	2.3	12
90	Characterization of the colonic response to bisacodyl in children with treatmentâ€refractory constipation. Neurogastroenterology and Motility, 2020, 32, e13851.	3.0	12

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91	Regeneration of nerve fibres across a colonic anastomosis in the guineaâ€pig. Journal of Gastroenterology and Hepatology (Australia), 1996, 11, 325-334.	2.8	11
92	Neurochemical coding compared between varicose axons and cell bodies of myenteric neurons in the guinea-pig ileum. Neuroscience Letters, 2013, 534, 171-176.	2.1	11
93	Highâ€resolution impedance manometry characterizes the functional role of distal colonic motility in gas transit. Neurogastroenterology and Motility, 2022, 34, e14178.	3.0	11
94	A Novel Method for Electrophysiological Analysis of EMG Signals Using MesaClip. Frontiers in Physiology, 2020, 11, 484.	2.8	10
95	Motor patterns in the proximal and distal mouse colon which underlie formation and propulsion of feces. Neurogastroenterology and Motility, 2021, 33, e14098.	3.0	10
96	Neurophysiologic Mechanisms of Human Large Intestinal Motility. , 2012, , 977-1022.		9
97	Neurophysiologic Mechanisms of Human Large Intestinal Motility â˜†. , 2018, , 517-564.		9
98	A composite fibre optic catheter for monitoring peristaltic transit of an intra-luminal bead. Journal of Biophotonics, 2016, 9, 305-310.	2.3	8
99	Functional changes in low- and high-threshold afferents in obstruction-induced bladder overactivity. American Journal of Physiology - Renal Physiology, 2019, 316, F1103-F1113.	2.7	7
100	Automated Analysis Using a Bayesian Functional Mixed-Effects Model With Gaussian Process Responses for Wavelet Spectra of Spatiotemporal Colonic Manometry Signals. Frontiers in Physiology, 2020, 11, 605066.	2.8	7
101	Long range synchronization within the enteric nervous system underlies propulsion along the large intestine in mice. Communications Biology, 2021, 4, 955.	4.4	7
102	Sympathetic Pathways Target Cholinergic Neurons in the Human Colonic Myenteric Plexus. Frontiers in Neuroscience, 2022, 16, 863662.	2.8	7
103	Firing patterns and functional roles of different classes of spinal afferents in rectal nerves during colonic migrating motor complexes in mouse colon. American Journal of Physiology - Renal Physiology, 2012, 303, G404-G411.	3.4	6
104	Characterization of alternating neurogenic motor patterns in mouse colon. Neurogastroenterology and Motility, 2021, 33, e14047.	3.0	6
105	Damage from dissection is associated with reduced neuro-musclar transmission and gap junction coupling between circular muscle cells of guinea pig ileum, in vitro. Frontiers in Physiology, 2014, 5, 319.	2.8	5
106	Rebuttal from Nick J. Spencer, Tiong Cheng Sia, Simon J Brookes, Marcello Costa and Damien J. Keating. Journal of Physiology, 2015, 593, 3235-3235.	2.9	5
107	Measurement of strains experienced by viscerofugal nerve cell bodies during mechanosensitive firing using digital image correlation. American Journal of Physiology - Renal Physiology, 2016, 311, G869-G879.	3.4	5
108	Sensory innervation of the guinea pig colon and rectum compared using retrograde tracing and immunohistochemistry. Neurogastroenterology and Motility, 2016, 28, 1306-1316.	3.0	5

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109	Novel intrinsic neurogenic and myogenic mechanisms underlying the formation of faecal pellets along the large intestine of guineaâ€pigs. Journal of Physiology, 2021, 599, 4561-4579.	2.9	5
110	Colonic Motor and Sensory Function and Dysfunction. , 2010, , 1659-1674.e1.		5
111	Morphological and neurochemical characterisation of anterogradely labelled spinal sensory and autonomic nerve endings in the mouse bladder. Autonomic Neuroscience: Basic and Clinical, 2020, 227, 102697.	2.8	4
112	Neural Control of Gastrointestinal Function. Colloquium Series on Integrated Systems Physiology From Molecule To Function, 2011, 3, 1-134.	0.3	3
113	Duodenal and proximal jejunal motility inhibition associated with bisacodyl-induced colonic high-amplitude propagating contractions. American Journal of Physiology - Renal Physiology, 2021, 321, G325-G334.	3.4	3
114	Mechanisms underlying initiation of propulsion in guinea pig distal colon. American Journal of Physiology - Renal Physiology, 2022, 323, G71-G87.	3.4	3
115	Conscious voiding during bladder obstruction in guinea pigs correlates with contractile activity of isolated bladders. Autonomic Neuroscience: Basic and Clinical, 2015, 193, 74-83.	2.8	2
116	Effects of Lactate on One Class of Group III (CT3) Muscle Afferents. Frontiers in Cellular Neuroscience, 2020, 14, 215.	3.7	2
117	Computer simulation of intestinal motor activity. , 0, , .		1
118	ANTI-HUMAN NEURONAL PROTEIN - A NEW TOOL FOR QUANTIFICATION OF NEURONES IN THE HUMAN ENTERIC NERVOUS SYSTEM. Journal of Gastroenterology and Hepatology (Australia), 2001, 16, 9-9.	2.8	1
119	Mechanosensory Transduction. , 2009, , 697-702.		1
120	Characterisation of One Class of Group III Sensory Neurons Innervating Abdominal Muscles of the Mouse. Neuroscience, 2019, 421, 162-175.	2.3	1
121	Mechanotransduction by Vagal Tension Receptors in the Upper Gut. Frontiers in Neuroscience, 2005, , 147-166.	0.0	1
122	The human enteric nervous system. Historical and modern advances. Collaboration between science and surgery. ANZ Journal of Surgery, 2022, 92, 1365-1370.	0.7	1