Rachel M Gwynne

List of Publications by Year
in descending order

22 papers	741 citations	686830 13 h-index	713013 21 g-index
23 all docs	23 docs citations	23 times ranked	745 citing authors

#	Article	IF	Citations
1	Segmentation induced by intraluminal fatty acid in isolated guinea-pig duodenum and jejunum. Journal of Physiology, 2004, 556, 557-569.	1.3	111
2	The first intestinal motility patterns in fetal mice are not mediated by neurons or interstitial cells of Cajal. Journal of Physiology, 2010, 588, 1153-1169.	1.3	81
3	Role of oxidative stress in oxaliplatinâ€induced enteric neuropathy and colonic dysmotility in mice. British Journal of Pharmacology, 2016, 173, 3502-3521.	2.7	74
4	Synaptic Transmission at Functionally Identified Synapses in the Enteric Nervous System: Roles for Both Ionotropic and Metabotropic Receptors. Current Neuropharmacology, 2007, 5, 1-17.	1.4	61
5	Mechanisms underlying nutrient-induced segmentation in isolated guinea pig small intestine. American Journal of Physiology - Renal Physiology, 2007, 292, G1162-G1172.	1.6	57
6	Optogenetic Demonstration of Functional Innervation of Mouse Colon by Neurons Derived From Transplanted Neural Cells. Gastroenterology, 2017, 152, 1407-1418.	0.6	49
7	Serotonin and cholecystokinin mediate nutrient-induced segmentation in guinea pig small intestine. American Journal of Physiology - Renal Physiology, 2013, 304, G749-G761.	1.6	41
8	Cholera Toxin Induces Sustained Hyperexcitability in Submucosal Secretomotor Neurons in Guinea Pig Jejunum. Gastroenterology, 2009, 136, 299-308.e4.	0.6	36
9	Video Imaging and Spatiotemporal Maps to Analyze Gastrointestinal Motility in Mice. Journal of Visualized Experiments, 2016, , 53828.	0.2	35
10	Local inhibitory reflexes excited by mucosal application of nutrient amino acids in guinea pig jejunum. American Journal of Physiology - Renal Physiology, 2007, 292, G1660-G1670.	1.6	33
11	5-HT_{1A}, SST₁, and SST₂receptors mediate inhibitory postsynaptic potentials in the submucous plexus of the guinea pig ileum. American Journal of Physiology - Renal Physiology, 2010, 298, G384-G394.	1.6	27
12	Synaptic transmission in simple motility reflex pathways excited by distension in guinea pig distal colon. American Journal of Physiology - Renal Physiology, 2004, 287, G1017-G1027.	1.6	26
13	Electrical stimulation of the mucosa evokes slow EPSPs mediated by NK1 tachykinin receptors and by P2Y1 purinoceptors in different myenteric neurons. American Journal of Physiology - Renal Physiology, 2009, 297, G179-G186.	1.6	20
14	Luminal 5â€HT₄ receptorsâ€"A successful target for prokinetic actions. Neurogastroenterology and Motility, 2019, 31, e13708.	1.6	14
15	Enteric Neural Regulation of Mucosal Secretion. , 2012, , 769-790.		13
16	A detailed, conductance-based computer model of intrinsic sensory neurons of the gastrointestinal tract. American Journal of Physiology - Renal Physiology, 2014, 307, G517-G532.	1.6	13
17	Transmission to Interneurons Is via Slow Excitatory Synaptic Potentials Mediated by P2Y1 Receptors during Descending Inhibition in Guinea-Pig Ileum. PLoS ONE, 2013, 8, e40840.	1.1	13
18	Both exogenous 5-HT and endogenous 5-HT, released by fluoxetine, enhance distension evoked propulsion in guinea-pig ileum in vitro. Frontiers in Neuroscience, 2014, 8, 301.	1.4	10

#	Article	IF	Citations
19	Cholera Toxin Induces Sustained Hyperexcitability in Myenteric, but Not Submucosal, AH Neurons in Guinea Pig Jejunum. Frontiers in Physiology, 2017, 8, 254.	1.3	10
20	Nitric oxide enhances inhibitory synaptic transmission and neuronal excitability in guinea-pig submucous plexus. Frontiers in Neuroscience, 2010, 4, 30.	1.4	9
21	Calcium Sensing Receptors Mediate Local Inhibitory Reflexes Evoked by L-Phenylalanine in Guinea Pig Jejunum. Frontiers in Physiology, 2017, 8, 991.	1.3	7
22	Computational simulations and Ca2+ imaging reveal that slow synaptic depolarizations (slow EPSPs) inhibit fast EPSP evoked action potentials for most of their time course in enteric neurons. PLoS Computational Biology, 2022, 18, e1009717.	1.5	1