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	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
2	Luminal 5â€HT₄ receptorsâ€"A successful target for prokinetic actions. Neurogastroenterology and Motility, 2019, 31, e13708.	1.6	14
3	Optogenetic Demonstration of Functional Innervation of Mouse Colon by Neurons Derived From Transplanted Neural Cells. Gastroenterology, 2017, 152, 1407-1418.	0.6	49
4	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
5	Calcium Sensing Receptors Mediate Local Inhibitory Reflexes Evoked by L-Phenylalanine in Guinea Pig Jejunum. Frontiers in Physiology, 2017, 8, 991.	1.3	7
6	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
7	Video Imaging and Spatiotemporal Maps to Analyze Gastrointestinal Motility in Mice. Journal of Visualized Experiments, 2016, , 53828.	0.2	35
8	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
9	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
10	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
11	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
12	Enteric Neural Regulation of Mucosal Secretion. , 2012, , 769-790.		13
13	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
14	Nitric oxide enhances inhibitory synaptic transmission and neuronal excitability in guinea-pig submucous plexus. Frontiers in Neuroscience, 2010, 4, 30.	1.4	9
15	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
16	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
17	Cholera Toxin Induces Sustained Hyperexcitability in Submucosal Secretomotor Neurons in Guinea Pig Jejunum. Gastroenterology, 2009, 136, 299-308.e4.	0.6	36
18	Mechanisms underlying nutrient-induced segmentation in isolated guinea pig small intestine. American Journal of Physiology - Renal Physiology, 2007, 292, G1162-G1172.	1.6	57

#	Article	IF	Citations
19	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
20	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
21	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
22	Segmentation induced by intraluminal fatty acid in isolated guinea-pig duodenum and jejunum. Journal of Physiology, 2004, 556, 557-569.	1.3	111