Marcel Jimenez

List of Publications by Year
in descending order

96 papers	2,812 citations	159585 30 h-index	197818 49 g-index
96 all docs	96 docs citations	96 times ranked	2022 citing authors

#	Article	IF	Citations
1	Complementary mechanisms of modulation of spontaneous phasic contractions by the gaseous signalling molecules NO, H₂S, HNO and the polysulfide Na₂S₃ in the rat colon. Journal of Basic and Clinical Physiology and Pharmacology, 2023, 34, 495-507.	1.3	3
2	Different responses of the blockade of the P2Y1 receptor with BPTU in human and porcine intestinal tissues and in cell cultures. Neurogastroenterology and Motility, 2021, 33, e14101.	3.0	3
3	Rational Design of Photochromic Analogues of Tricyclic Drugs. Journal of Medicinal Chemistry, 2021, 64, 9259-9270.	6.4	9
4	The asymmetric innervation of the circular and longitudinal muscle of the mouse colon differently modulates myogenic slow phasic contractions. Neurogastroenterology and Motility, 2020, 32, e13778.	3.0	10
5	Mechanisms Associated to Nitroxyl (HNO)-Induced Relaxation in the Intestinal Smooth Muscle. Frontiers in Physiology, 2020, 11, 438.	2.8	6
6	First translational consensus on terminology and definitions of colonic motility in animals and humans studied by manometric and other techniques. Nature Reviews Gastroenterology and Hepatology, 2019, 16, 559-579.	17.8	108
7	Diadenosine tetraphosphate activates P2Y1 receptors that cause smooth muscle relaxation in the mouse colon. European Journal of Pharmacology, 2019, 855, 160-166.	3.5	5
8	Evidence for metabotropic function of epithelial nicotinic cholinergic receptors in rat colon. British Journal of Pharmacology, 2019, 176, 1328-1340.	5.4	5
9	Functional neuromuscular impairment in severe intestinal dysmotility. Neurogastroenterology and Motility, 2018, 30, e13458.	3.0	9
10	Hydrogen sulphide as a signalling molecule regulating physiopathological processes in gastrointestinal motility. British Journal of Pharmacology, 2017, 174, 2805-2817.	5.4	33
11	Is the muscular tone of the internal anal sphincter a property of the syncytium?. Journal of Physiology, 2017, 595, 1853-1854.	2.9	1
12	A weakly acidic solution containing deoxycholic acid induces esophageal epithelial apoptosis and impairs integrity in an in vivo perfusion rabbit model. American Journal of Physiology - Renal Physiology, 2016, 310, G487-G496.	3.4	18
13	BPTU, an allosteric antagonist of P2Y1 receptor, blocks nerve mediated inhibitory neuromuscular responses in the gastrointestinal tract of rodents. Neuropharmacology, 2016, 110, 376-385.	4.1	10
14	Inverse gradient of nitrergic and purinergic inhibitory cotransmission in the mouse colon. Acta Physiologica, 2016, 216, 120-131.	3.8	17
15	P2Y1 receptors mediate purinergic relaxation in the equine pelvic flexure. Veterinary Journal, 2016, 209, 74-81.	1.7	2
16	Activation of the Prostaglandin E2 receptor <scp>EP</scp>2 prevents house dust miteâ€induced airway hyperresponsiveness and inflammation by restraining mast cellsâ€™ activity. Clinical and Experimental Allergy, 2015, 45, 1590-1600.	2.9	29
17	Plateletâ€derived growth factor receptorâ€Î±â€positive cells: new players in nerveâ€mediated purinergic responses in the colon. Journal of Physiology, 2015, 593, 1765-1766.	2.9	7
18	Enteric motor pattern generators involve both myogenic and neurogenic mechanisms in the human colon. Frontiers in Physiology, 2015, 6, 205.	2.8	13

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19	Potential role of the gaseous mediator hydrogen sulphide (H2S) in inhibition of human colonic contractility. Pharmacological Research, 2015, 93, 52-63.	7.1	32
20	Pharmacodynamics of TRPV1 Agonists in a Bioassay Using Human PC-3 Cells. Scientific World Journal, The, 2014, 2014, 1-6.	2.1	14
21	Î±,Î²-meATP mimics the effects of the purinergic neurotransmitter in the human and rat colon. European Journal of Pharmacology, 2014, 740, 442-454.	3.5	13
22	EP2 and EP4 receptors mediate PGE2 induced relaxation in murine colonic circular muscle: Pharmacological characterization. Pharmacological Research, 2014, 90, 76-86.	7.1	16
23	Colonic smooth muscle cells and colonic motility patterns as a target for irritable bowel syndrome therapy: mechanisms of action of otilonium bromide. Therapeutic Advances in Gastroenterology, 2014, 7, 156-166.	3.2	16
24	Purinergic neuromuscular transmission in the gastrointestinal tract; functional basis for future clinical and pharmacological studies. British Journal of Pharmacology, 2014, 171, 4360-4375.	5.4	36
25	Interplay between myogenic pacemakers and enteric neurons determine distinct motor patterns in the rat colon. Neurogastroenterology and Motility, 2014, 26, 1508-1512.	3.0	18
26	Nitrergic and purinergic mechanisms evoke inhibitory neuromuscular transmission in the human small intestine. Neurogastroenterology and Motility, 2014, 26, 419-429.	3.0	32
27	Differential functional role of purinergic and nitrergic inhibitory cotransmitters in human colonic relaxation. Acta Physiologica, 2014, 212, 293-305.	3.8	27
28	Interstitial cells of Cajal mediate nitrergic inhibitory neurotransmission in the murine gastrointestinal tract. American Journal of Physiology - Renal Physiology, 2014, 307, G98-G106.	3.4	50
29	Dynamics of inhibitory co-transmission, membrane potential and pacemaker activity determine neuromyogenic function in the rat colon. Pflugers Archiv European Journal of Physiology, 2014, 466, 2305-2321.	2.8	21
30	In vitro motor patterns and electrophysiological changes in patients with colonic diverticular disease. International Journal of Colorectal Disease, 2013, 28, 1413-1422.	2.2	19
31	Mechanisms of action of otilonium bromide (<scp>OB</scp>) in human cultured smooth muscle cells and rat colonic strips. Neurogastroenterology and Motility, 2013, 25, e803-12.	3.0	15
32	Effects of hydrogen sulphide on motility patterns in the rat colon. British Journal of Pharmacology, 2013, 169, 34-50.	5.4	28
33	P2Y₁ knockout mice lack purinergic neuromuscular transmission in the antrum and cecum. Neurogastroenterology and Motility, 2013, 25, e170-82.	3.0	34
34	Relative contribution of SKCa and TREK1 channels in purinergic and nitrergic neuromuscular transmission in the rat colon. American Journal of Physiology - Renal Physiology, 2012, 303, G412-G423.	3.4	25
35	Purinergic neuromuscular transmission is absent in the colon of P2Y₁ knocked out mice. Journal of Physiology, 2012, 590, 1943-1956.	2.9	78
36	Two Independent Networks of Interstitial Cells of Cajal Work Cooperatively with the Enteric Nervous System to Create Colonic Motor Patterns. Frontiers in Neuroscience, 2011, 5, 93.	2.8	90

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37	Specific and complementary roles for nitric oxide and ATP in the inhibitory motor pathways to rat internal anal sphincter. Neurogastroenterology and Motility, 2011, 23, e11-e25.	3.0	29
38	Pharmacological characterization of purinergic inhibitory neuromuscular transmission in the human colon. Neurogastroenterology and Motility, 2011, 23, 792-e338.	3.0	47
39	Morphofunctional changes underlying intestinal dysmotility in diabetic RIP-I/hIFNÎ² transgenic mice. International Journal of Experimental Pathology, 2011, 92, 400-412.	1.3	39
40	Effects of inhibitors of hydrogen sulphide synthesis on rat colonic motility. British Journal of Pharmacology, 2011, 164, 485-498.	5.4	54
41	Role of Peg and Socket Junctions in Stretch Coupling in Intestinal Smooth Muscle. Anatomical Record, 2011, 294, 929-930.	1.4	0
42	Evaluation of oesophageal mucosa integrity by the intraluminal impedance technique. Gut, 2011, 60, 885-892.	12.1	226
43	Regional functional specialization and inhibitory nitrergic and nonnitrergic coneurotransmission in the human esophagus. American Journal of Physiology - Renal Physiology, 2011, 300, G782-G794.	3.4	23
44	Effect of otilonium bromide on contractile patterns in the human sigmoid colon. Neurogastroenterology and Motility, 2010, 22, e180-e191.	3.0	26
45	Hydrogen sulfide as a signaling molecule in the enteric nervous system. Neurogastroenterology and Motility, 2010, 22, 1149-1153.	3.0	26
46	Purinergic and nitrergic neuromuscular transmission mediates spontaneous neuronal activity in the rat colon. American Journal of Physiology - Renal Physiology, 2010, 299, G158-G169.	3.4	56
47	T1763 Hydroxylamine, a Putative Inhibitor of H2S Synthesis, Causes NO-Like Effects in the Rat Colon. Gastroenterology, 2010, 138, S-573.	1.3	1
48	Igf1r⁺/CD34⁺ immature ICC are putative adult progenitor cells, identified ultrastructurally as fibroblastâ€like ICC in Ws/Ws rat colon. Journal of Cellular and Molecular Medicine, 2009, 13, 3528-3540.	3.6	17
49	P2Y₁ receptors mediate inhibitory neuromuscular transmission in the rat colon. British Journal of Pharmacology, 2009, 158, 1641-1652.	5.4	64
50	A Comparative Study of Structure and Function of the Longitudinal Muscle of the Anal Canal and the Internal Anal Sphincter in Pigs. Diseases of the Colon and Rectum, 2009, 52, 1902-1911.	1.3	6
51	The cytotoxicity of eosinophil cationic protein/ribonuclease 3 on eukaryotic cell lines takes place through its aggregation on the cell membrane. Cellular and Molecular Life Sciences, 2008, 65, 324-337.	5.4	80
52	Effects of excitatory and inhibitory neurotransmission on motor patterns of human sigmoid colon in vitro. British Journal of Pharmacology, 2008, 155, 1043-1055.	5.4	51
53	The gaseous mediator, hydrogen sulphide, inhibits in vitro motor patterns in the human, rat and mouse colon and jejunum. Neurogastroenterology and Motility, 2008, 20, 1306-1316.	3.0	124
54	Purinergic and nitrergic junction potential in the human colon. American Journal of Physiology - Renal Physiology, 2008, 295, G522-G533.	3.4	67

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55	Pacemaker activity and inhibitory neurotransmission in the colon of Ws/Ws mutant rats. American Journal of Physiology - Renal Physiology, 2007, 292, G1499-G1510.	3.4	60
56	P2Y1receptors mediate inhibitory neuromuscular transmission and enteric neuronal activation in small intestine. Neurogastroenterology and Motility, 2007, 20, 071018041753004-???.	3.0	44
57	Interstitial cells of Cajal and neuromuscular transmission in the rat lower oesophageal sphincter. Neurogastroenterology and Motility, 2007, 19, 484-496.	3.0	39
58	P2Y1 receptors mediate inhibitory purinergic neuromuscular transmission in the human colon. American Journal of Physiology - Renal Physiology, 2006, 291, G584-G594.	3.4	120
59	Alterations in intestinal contractility during inflammation are caused by both smooth muscle damage and specific receptor-mediated mechanisms. Croatian Medical Journal, 2006, 47, 318-26.	0.7	16
60	Motility patterns and distribution of interstitial cells of Cajal and nitrergic neurons in the proximal, mid- and distal-colon of the rat. Neurogastroenterology and Motility, 2005, 17, 133-147.	3.0	65
61	Effect of 4-aminopyridine (4-AP) on the spontaneous activity and neuromuscular junction in the rat colon. Pharmacological Research, 2005, 52, 447-456.	7.1	4
62	Otilonium bromide inhibits muscle contractions via L-type calcium channels in the rat colon. Neurogastroenterology and Motility, 2004, 16, 175-183.	3.0	17
63	Changes in the inhibitory responses to electrical field stimulation of intestinal smooth muscle from Trichinella spiralis infected rats. Life Sciences, 2002, 71, 3121-3136.	4.3	11
64	Changes in electrophysiological properties in the prostatic portion of vas deferens from spontaneously hypertensive rats. Naunyn-Schmiedeberg's Archives of Pharmacology, 2002, 366, 425-430.	3.0	4
65	Actions of NO donors and endogenous nitrergic transmitter on the longitudinal muscle of rat ileum in vitro. Life Sciences, 2001, 69, 1143-1154.	4.3	19
66	Evidence supporting presence of two pacemakers in rat colon. American Journal of Physiology - Renal Physiology, 2001, 281, G255-G266.	3.4	91
67	Electrical and mechanical effects of vasoactive intestinal peptide and pituitary adenylate cyclase-activating peptide in the rat colon involve different mechanisms. European Journal of Pharmacology, 2000, 389, 217-224.	3.5	15
68	Lack of effect of nitric oxide on KCl, acetylcholine and substance P induced contractions in ileal longitudinal muscle of the rat. Life Sciences, 2000, 67, 531-541.	4.3	13
69	Slow waves in circular muscle of porcine ileum: structural and electrophysiological studies. American Journal of Physiology - Renal Physiology, 1999, 276, G393-G406.	3.4	18
70	Neural modulation of the cyclic electrical and mechanical activity in the rat colonic circular muscle: putative role of ATP and NO. British Journal of Pharmacology, 1999, 126, 883-892.	5.4	65
71	Evidence supporting a role for ATP as non-adrenergic noncholinergic inhibitory transmitter in the porcine ileum. Life Sciences, 1998, 62, 1303-1315.	4.3	28
72	Mucosal mast cells are involved in CCK disruption of MMC in the rat intestine. American Journal of Physiology - Renal Physiology, 1998, 275, G63-G67.	3.4	12

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73	Influence of nitric oxide and vasoactive intestinal peptide on the spontaneous and triggered electrical and mechanical activities of the canine ileum. Canadian Journal of Physiology and Pharmacology, 1997, 75, 383-397.	1.4	28
74	Effect of different calcium channel blockers on inhibitory junction potentials and slow waves in porcine ileum. Life Sciences, 1997, 60, 883-892.	4.3	18
75	Rhythmic oscillating complexes in gastrointestinal tract of chickens: a role for motilin. American Journal of Physiology - Renal Physiology, 1997, 272, G916-G922.	3.4	5
76	Influence of nitric oxide and vasoactive intestinal peptide on the spontaneous and triggered electrical and mechanical activities of the canine ileum. Canadian Journal of Physiology and Pharmacology, 1997, 75, 383-97.	1.4	5
77	Non-adrenergic, non-cholinergic inhibitory junction potential in rat colonic circular muscle is partly sensitive to I‰-conotoxin GVIA and resistant to L-, P- or Q-type calcium channel blockers. Neuroscience Letters, 1996, 210, 91-94.	2.1	9
78	Ca2+ role in myogenic and neurogenic activities of canine ileum circular muscle. American Journal of Physiology - Renal Physiology, 1996, 271, G1053-G1066.	3.4	9
79	Heterogeneity in electrical activity of the canine ileal circular muscle: interaction of two pacemakers. Neurogastroenterology and Motility, 1996, 8, 339-349.	3.0	34
80	Mechanism of action of somatostatin on the canine ileal circular muscle. American Journal of Physiology - Renal Physiology, 1995, 269, G22-G28.	3.4	2
81	Intraluminal lipids modulate avian gastrointestinal motility. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1995, 269, R445-R452.	1.8	10
82	Is nitric oxide the final mediator regulating the migrating myoelectric complex cycle?. American Journal of Physiology - Renal Physiology, 1995, 268, G207-G214.	3.4	29
83	Modulation of the Migrating Myoelectric Complexes by Cholecystokinin and Gastrin in the Gastrointestinal Tract of Chickens. Poultry Science, 1995, 74, 563-576.	3.4	9
84	Rhythmic oscillating complex: characterization, induction, and relationship to MMC in chickens. American Journal of Physiology - Renal Physiology, 1994, 266, G585-G595.	3.4	6
85	Role of CCK in the Physiological Control of Gastroduodenal and Intestinal Motility in Chickens. Annals of the New York Academy of Sciences, 1994, 713, 413-416.	3.8	0
86	Effects of cholecystokinin and gastrin on gastroduodenal motility and coordination in chickens. Life Sciences, 1993, 52, 191-198.	4.3	28
87	Immunohistochemical Differentiation of Gastrin and Cholecystokinin in Gastrointestinal Tract of Chickens. Poultry Science, 1993, 72, 2328-2336.	3.4	17
88	In vivo modulation of gastrointestinal motor activity by Met-enkephalin, morphine and enkephalin analogs in chickens. Regulatory Peptides, 1993, 44, 71-83.	1.9	7
89	Functional consequences of chronic implantation of electrodes for electromyographic studies in the gastrointestinal tract of chickens. Archives Internationales De Physiologie, De Biochimie Et De Biophysique, 1993, 101, 47-51.	0.1	2
90	A Method of Analysis of the Electrical Activity of the Proximal Gastrointestinal Tract of the Chicken. Poultry Science, 1992, 71, 1531-1539.	3.4	8

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91	Opioid-induction of migrating motor activity in chickens. Life Sciences, 1992, 50, 465-472.	4.3	5
92	Gastrin-CCK actions on the migrating myoelectric complexes (MMC) in the chicken. Regulatory Peptides, 1992, 40, 204.	1.9	1
93	Inhibitory effects of neuropeptide Y (NPY) on CRF and stress-induced cecal motor response in rats. Life Sciences, 1990, 47, 205-211.	4.3	35
94	Age Influence on Digestive Transit Time of Particulate and Soluble Markers in Broiler Chickens. Poultry Science, 1989, 68, 185-189.	3.4	33
95	FACTORS DETERMINING GASTkOINTESTINAL TRANSIT TIME OF SEVERAL MARKERS IN THE DOMESTIC FOWL. Quarterly Journal of Experimental Physiology (Cambridge, England), 1989, 74, 867-874.	1.0	47
96	STUDY OF THE RATE OF PASSAGE OF FOOD WITH CHROMIUMâ€MORDANTED PLANT CELLS IN CHICKENS (GALLUS GALLUS). Quarterly Journal of Experimental Physiology (Cambridge, England), 1987, 72, 251-259.	1.0	36