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	Evaluation of oesophageal mucosa integrity by the intraluminal impedance technique. Gut, 2011, 60, 885-892.	12.1	226
2	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
3	P2Y1 receptors mediate inhibitory purinergic neuromuscular transmission in the human colon. American Journal of Physiology - Renal Physiology, 2006, 291, G584-G594.	3.4	120
4	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
5	Evidence supporting presence of two pacemakers in rat colon. American Journal of Physiology - Renal Physiology, 2001, 281, G255-G266.	3.4	91
6	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
7	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
8	Purinergic neuromuscular transmission is absent in the colon of P2Y₁ knocked out mice. Journal of Physiology, 2012, 590, 1943-1956.	2.9	78
9	Purinergic and nitrergic junction potential in the human colon. American Journal of Physiology - Renal Physiology, 2008, 295, G522-G533.	3.4	67
10	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
11	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
12	P2Y₁ receptors mediate inhibitory neuromuscular transmission in the rat colon. British Journal of Pharmacology, 2009, 158, 1641-1652.	5.4	64
13	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
14	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
15	Effects of inhibitors of hydrogen sulphide synthesis on rat colonic motility. British Journal of Pharmacology, 2011, 164, 485-498.	5.4	54
16	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
17	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
18	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

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19	Pharmacological characterization of purinergic inhibitory neuromuscular transmission in the human colon. Neurogastroenterology and Motility, 2011, 23, 792-e338.	3.0	47
20	P2Y1receptors mediate inhibitory neuromuscular transmission and enteric neuronal activation in small intestine. Neurogastroenterology and Motility, 2007, 20, 071018041753004-???.	3.0	44
21	Interstitial cells of Cajal and neuromuscular transmission in the rat lower oesophageal sphincter. Neurogastroenterology and Motility, 2007, 19, 484-496.	3.0	39
22	Morphofunctional changes underlying intestinal dysmotility in diabetic RIP-I/hIFNÎ² transgenic mice. International Journal of Experimental Pathology, 2011, 92, 400-412.	1.3	39
23	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
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	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
26	Heterogeneity in electrical activity of the canine ileal circular muscle: interaction of two pacemakers. Neurogastroenterology and Motility, 1996, 8, 339-349.	3.0	34
27	P2Y₁ knockout mice lack purinergic neuromuscular transmission in the antrum and cecum. Neurogastroenterology and Motility, 2013, 25, e170-82.	3.0	34
28	Age Influence on Digestive Transit Time of Particulate and Soluble Markers in Broiler Chickens. Poultry Science, 1989, 68, 185-189.	3.4	33
29	Hydrogen sulphide as a signalling molecule regulating physiopathological processes in gastrointestinal motility. British Journal of Pharmacology, 2017, 174, 2805-2817.	5.4	33
30	Nitrergic and purinergic mechanisms evoke inhibitory neuromuscular transmission in the human small intestine. Neurogastroenterology and Motility, 2014, 26, 419-429.	3.0	32
31	Potential role of the gaseous mediator hydrogen sulphide (H2S) in inhibition of human colonic contractility. Pharmacological Research, 2015, 93, 52-63.	7.1	32
32	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
33	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
34	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
35	Effects of cholecystokinin and gastrin on gastroduodenal motility and coordination in chickens. Life Sciences, 1993, 52, 191-198.	4.3	28
36	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

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37	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
38	Effects of hydrogen sulphide on motility patterns in the rat colon. British Journal of Pharmacology, 2013, 169, 34-50.	5.4	28
39	Differential functional role of purinergic and nitrergic inhibitory cotransmitters in human colonic relaxation. Acta Physiologica, 2014, 212, 293-305.	3.8	27
40	Effect of otilonium bromide on contractile patterns in the human sigmoid colon. Neurogastroenterology and Motility, 2010, 22, e180-e191.	3.0	26
41	Hydrogen sulfide as a signaling molecule in the enteric nervous system. Neurogastroenterology and Motility, 2010, 22, 1149-1153.	3.0	26
42	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
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	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
45	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
46	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
47	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
48	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
49	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
50	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
51	Immunohistochemical Differentiation of Gastrin and Cholecystokinin in Gastrointestinal Tract of Chickens. Poultry Science, 1993, 72, 2328-2336.	3.4	17
52	Otilonium bromide inhibits muscle contractions via L-type calcium channels in the rat colon. Neurogastroenterology and Motility, 2004, 16, 175-183.	3.0	17
53	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
54	Inverse gradient of nitrergic and purinergic inhibitory cotransmission in the mouse colon. Acta Physiologica, 2016, 216, 120-131.	3.8	17

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55	EP2 and EP4 receptors mediate PGE2 induced relaxation in murine colonic circular muscle: Pharmacological characterization. Pharmacological Research, 2014, 90, 76-86.	7.1	16
56	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
57	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
58	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
59	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
60	Pharmacodynamics of TRPV1 Agonists in a Bioassay Using Human PC-3 Cells. Scientific World Journal, The, 2014, 2014, 1-6.	2.1	14
61	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
62	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
63	Enteric motor pattern generators involve both myogenic and neurogenic mechanisms in the human colon. Frontiers in Physiology, 2015, 6, 205.	2.8	13
64	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
65	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
66	Intraluminal lipids modulate avian gastrointestinal motility. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1995, 269, R445-R452.	1.8	10
67	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
68	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
69	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
70	Non-adrenergic, non-cholinergic inhibitory junction potential in rat colonic circular muscle is partly sensitive to Ï‰-conotoxin GVIA and resistant to L-, P- or Q-type calcium channel blockers. Neuroscience Letters, 1996, 210, 91-94.	2.1	9
71	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
72	Functional neuromuscular impairment in severe intestinal dysmotility. Neurogastroenterology and Motility, 2018, 30, e13458.	3.0	9

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73	Rational Design of Photochromic Analogues of Tricyclic Drugs. Journal of Medicinal Chemistry, 2021, 64, 9259-9270.	6.4	9
74	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
75	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
76	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
77	Rhythmic oscillating complex: characterization, induction, and relationship to MMC in chickens. American Journal of Physiology - Renal Physiology, 1994, 266, G585-G595.	3.4	6
78	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
79	Mechanisms Associated to Nitroxyl (HNO)-Induced Relaxation in the Intestinal Smooth Muscle. Frontiers in Physiology, 2020, 11, 438.	2.8	6
80	Opioid-induction of migrating motor activity in chickens. Life Sciences, 1992, 50, 465-472.	4.3	5
81	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
82	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
83	Evidence for metabotropic function of epithelial nicotinic cholinergic receptors in rat colon. British Journal of Pharmacology, 2019, 176, 1328-1340.	5.4	5
84	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
85	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
86	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
87	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
88	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
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	Mechanism of action of somatostatin on the canine ileal circular muscle. American Journal of Physiology - Renal Physiology, 1995, 269, G22-G28.	3.4	2

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91	P2Y1 receptors mediate purinergic relaxation in the equine pelvic flexure. Veterinary Journal, 2016, 209, 74-81.	1.7	2
92	Gastrin-CCK actions on the migrating myoelectric complexes (MMC) in the chicken. Regulatory Peptides, 1992, 40, 204.	1.9	1
93	T1763 Hydroxylamine, a Putative Inhibitor of H2S Synthesis, Causes NO-Like Effects in the Rat Colon. Gastroenterology, 2010, 138, S-573.	1.3	1
94	Is the muscular tone of the internal anal sphincter a property of the syncytium?. Journal of Physiology, 2017, 595, 1853-1854.	2.9	1
95	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
96	Role of Peg and Socket Junctions in Stretch Coupling in Intestinal Smooth Muscle. Anatomical Record, 2011, 294, 929-930.	1.4	0