

# Marcel Jimenez

## List of Publications by Year in descending order

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Version: 2024-02-01

96  
papers

2,812  
citations

182225

30  
h-index

223390

49  
g-index

96  
all docs

96  
docs citations

96  
times ranked

2166  
citing authors

#	ARTICLE	IF	CITATIONS
1	Complementary mechanisms of modulation of spontaneous phasic contractions by the gaseous signalling molecules NO, H <sub>2</sub> S, HNO and the polysulfide Na <sub>2</sub> S <sub>3</sub> in the rat colon. <i>Journal of Basic and Clinical Physiology and Pharmacology</i> , 2023, 34, 495-507.	0.7	3
2	Different responses of the blockade of the P2Y1 receptor with BPTU in human and porcine intestinal tissues and in cell cultures. <i>Neurogastroenterology and Motility</i> , 2021, 33, e14101.	1.6	3
3	Rational Design of Photochromic Analogues of Tricyclic Drugs. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 9259-9270.	2.9	9
4	The asymmetric innervation of the circular and longitudinal muscle of the mouse colon differently modulates myogenic slow phasic contractions. <i>Neurogastroenterology and Motility</i> , 2020, 32, e13778.	1.6	10
5	Mechanisms Associated to Nitroxyl (HNO)-Induced Relaxation in the Intestinal Smooth Muscle. <i>Frontiers in Physiology</i> , 2020, 11, 438.	1.3	6
6	First translational consensus on terminology and definitions of colonic motility in animals and humans studied by manometric and other techniques. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2019, 16, 559-579.	8.2	108
7	Diadenosine tetraphosphate activates P2Y1 receptors that cause smooth muscle relaxation in the mouse colon. <i>European Journal of Pharmacology</i> , 2019, 855, 160-166.	1.7	5
8	Evidence for metabotropic function of epithelial nicotinic cholinergic receptors in rat colon. <i>British Journal of Pharmacology</i> , 2019, 176, 1328-1340.	2.7	5
9	Functional neuromuscular impairment in severe intestinal dysmotility. <i>Neurogastroenterology and Motility</i> , 2018, 30, e13458.	1.6	9
10	Hydrogen sulphide as a signalling molecule regulating physiopathological processes in gastrointestinal motility. <i>British Journal of Pharmacology</i> , 2017, 174, 2805-2817.	2.7	33
11	Is the muscular tone of the internal anal sphincter a property of the syncytium?. <i>Journal of Physiology</i> , 2017, 595, 1853-1854.	1.3	1
12	A weakly acidic solution containing deoxycholic acid induces esophageal epithelial apoptosis and impairs integrity in an in vivo perfusion rabbit model. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 310, G487-G496.	1.6	18
13	BPTU, an allosteric antagonist of P2Y1 receptor, blocks nerve mediated inhibitory neuromuscular responses in the gastrointestinal tract of rodents. <i>Neuropharmacology</i> , 2016, 110, 376-385.	2.0	10
14	Inverse gradient of nitrergic and purinergic inhibitory cotransmission in the mouse colon. <i>Acta Physiologica</i> , 2016, 216, 120-131.	1.8	17
15	P2Y1 receptors mediate purinergic relaxation in the equine pelvic flexure. <i>Veterinary Journal</i> , 2016, 209, 74-81.	0.6	2
16	Activation of the Prostaglandin E2 receptor $EP_2$ prevents house dust mite-induced airway hyperresponsiveness and inflammation by restraining mast cells' activity. <i>Clinical and Experimental Allergy</i> , 2015, 45, 1590-1600.	1.4	29
17	Platelet-derived growth factor receptor $\alpha$ -positive cells: new players in nerve-mediated purinergic responses in the colon. <i>Journal of Physiology</i> , 2015, 593, 1765-1766.	1.3	7
18	Enteric motor pattern generators involve both myogenic and neurogenic mechanisms in the human colon. <i>Frontiers in Physiology</i> , 2015, 6, 205.	1.3	13

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19	Potential role of the gaseous mediator hydrogen sulphide (H <sub>2</sub> S) in inhibition of human colonic contractility. <i>Pharmacological Research</i> , 2015, 93, 52-63.	3.1	32
20	Pharmacodynamics of TRPV1 Agonists in a Bioassay Using Human PC-3 Cells. <i>Scientific World Journal</i> , The, 2014, 2014, 1-6.	0.8	14
21	Î±,Î²-meATP mimics the effects of the purinergic neurotransmitter in the human and rat colon. <i>European Journal of Pharmacology</i> , 2014, 740, 442-454.	1.7	13
22	EP2 and EP4 receptors mediate PGE2 induced relaxation in murine colonic circular muscle: Pharmacological characterization. <i>Pharmacological Research</i> , 2014, 90, 76-86.	3.1	16
23	Colonic smooth muscle cells and colonic motility patterns as a target for irritable bowel syndrome therapy: mechanisms of action of otilonium bromide. <i>Therapeutic Advances in Gastroenterology</i> , 2014, 7, 156-166.	1.4	16
24	Purinergic neuromuscular transmission in the gastrointestinal tract; functional basis for future clinical and pharmacological studies. <i>British Journal of Pharmacology</i> , 2014, 171, 4360-4375.	2.7	36
25	Interplay between myogenic pacemakers and enteric neurons determine distinct motor patterns in the rat colon. <i>Neurogastroenterology and Motility</i> , 2014, 26, 1508-1512.	1.6	18
26	Nitrgergic and purinergic mechanisms evoke inhibitory neuromuscular transmission in the human small intestine. <i>Neurogastroenterology and Motility</i> , 2014, 26, 419-429.	1.6	32
27	Differential functional role of purinergic and nitrgergic inhibitory cotransmitters in human colonic relaxation. <i>Acta Physiologica</i> , 2014, 212, 293-305.	1.8	27
28	Interstitial cells of Cajal mediate nitrgergic inhibitory neurotransmission in the murine gastrointestinal tract. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 307, G98-G106.	1.6	50
29	Dynamics of inhibitory co-transmission, membrane potential and pacemaker activity determine neuromyogenic function in the rat colon. <i>Pflugers Archiv European Journal of Physiology</i> , 2014, 466, 2305-2321.	1.3	21
30	In vitro motor patterns and electrophysiological changes in patients with colonic diverticular disease. <i>International Journal of Colorectal Disease</i> , 2013, 28, 1413-1422.	1.0	19
31	Mechanisms of action of otilonium bromide (<sc>OB</sc>) in human cultured smooth muscle cells and rat colonic strips. <i>Neurogastroenterology and Motility</i> , 2013, 25, e803-12.	1.6	15
32	Effects of hydrogen sulphide on motility patterns in the rat colon. <i>British Journal of Pharmacology</i> , 2013, 169, 34-50.	2.7	28
33	P2Y <sub>1</sub> knockout mice lack purinergic neuromuscular transmission in the antrum and cecum. <i>Neurogastroenterology and Motility</i> , 2013, 25, e170-82.	1.6	34
34	Relative contribution of SKCa and TREK1 channels in purinergic and nitrgergic neuromuscular transmission in the rat colon. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 303, G412-G423.	1.6	25
35	Purinergic neuromuscular transmission is absent in the colon of P2Y <sub>1</sub> knocked out mice. <i>Journal of Physiology</i> , 2012, 590, 1943-1956.	1.3	78
36	Two Independent Networks of Interstitial Cells of Cajal Work Cooperatively with the Enteric Nervous System to Create Colonic Motor Patterns. <i>Frontiers in Neuroscience</i> , 2011, 5, 93.	1.4	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. <i>Neurogastroenterology and Motility</i> , 2011, 23, e11-e25.	1.6	29
38	Pharmacological characterization of purinergic inhibitory neuromuscular transmission in the human colon. <i>Neurogastroenterology and Motility</i> , 2011, 23, 792-e338.	1.6	47
39	Morphofunctional changes underlying intestinal dysmotility in diabetic RIP-I/hIFN $\gamma$ <sup>2</sup> transgenic mice. <i>International Journal of Experimental Pathology</i> , 2011, 92, 400-412.	0.6	39
40	Effects of inhibitors of hydrogen sulphide synthesis on rat colonic motility. <i>British Journal of Pharmacology</i> , 2011, 164, 485-498.	2.7	54
41	Role of Peg and Socket Junctions in Stretch Coupling in Intestinal Smooth Muscle. <i>Anatomical Record</i> , 2011, 294, 929-930.	0.8	0
42	Evaluation of oesophageal mucosa integrity by the intraluminal impedance technique. <i>Gut</i> , 2011, 60, 885-892.	6.1	226
43	Regional functional specialization and inhibitory nitrergic and nonnitrergic neurotransmission in the human esophagus. <i>American Journal of Physiology - Renal Physiology</i> , 2011, 300, G782-G794.	1.6	23
44	Effect of otilonium bromide on contractile patterns in the human sigmoid colon. <i>Neurogastroenterology and Motility</i> , 2010, 22, e180-e191.	1.6	26
45	Hydrogen sulfide as a signaling molecule in the enteric nervous system. <i>Neurogastroenterology and Motility</i> , 2010, 22, 1149-1153.	1.6	26
46	Purinergic and nitrergic neuromuscular transmission mediates spontaneous neuronal activity in the rat colon. <i>American Journal of Physiology - Renal Physiology</i> , 2010, 299, G158-G169.	1.6	56
47	T1763 Hydroxylamine, a Putative Inhibitor of H <sub>2</sub> S Synthesis, Causes NO-Like Effects in the Rat Colon. <i>Gastroenterology</i> , 2010, 138, S-573.	0.6	1
48	Igf1r <sup>+/+</sup> /CD34 <sup>+</sup> immature ICC are putative adult progenitor cells, identified ultrastructurally as fibroblast-like ICC in Ws/Ws rat colon. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 3528-3540.	1.6	17
49	P2Y <sub>1</sub> receptors mediate inhibitory neuromuscular transmission in the rat colon. <i>British Journal of Pharmacology</i> , 2009, 158, 1641-1652.	2.7	64
50	A Comparative Study of Structure and Function of the Longitudinal Muscle of the Anal Canal and the Internal Anal Sphincter in Pigs. <i>Diseases of the Colon and Rectum</i> , 2009, 52, 1902-1911.	0.7	6
51	The cytotoxicity of eosinophil cationic protein/ribonuclease 3 on eukaryotic cell lines takes place through its aggregation on the cell membrane. <i>Cellular and Molecular Life Sciences</i> , 2008, 65, 324-337.	2.4	80
52	Effects of excitatory and inhibitory neurotransmission on motor patterns of human sigmoid colon <i>in vitro</i> . <i>British Journal of Pharmacology</i> , 2008, 155, 1043-1055.	2.7	51
53	The gaseous mediator, hydrogen sulphide, inhibits <i>in vitro</i> motor patterns in the human, rat and mouse colon and jejunum. <i>Neurogastroenterology and Motility</i> , 2008, 20, 1306-1316.	1.6	124
54	Purinergic and nitrergic junction potential in the human colon. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 295, G522-G533.	1.6	67

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55	Pacemaker activity and inhibitory neurotransmission in the colon of Ws/Ws mutant rats. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 292, G1499-G1510.	1.6	60
56	P2Y1 receptors mediate inhibitory neuromuscular transmission and enteric neuronal activation in small intestine. <i>Neurogastroenterology and Motility</i> , 2007, 20, 071018041753004-???	1.6	44
57	Interstitial cells of Cajal and neuromuscular transmission in the rat lower oesophageal sphincter. <i>Neurogastroenterology and Motility</i> , 2007, 19, 484-496.	1.6	39
58	P2Y1 receptors mediate inhibitory purinergic neuromuscular transmission in the human colon. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 291, G584-G594.	1.6	120
59	Alterations in intestinal contractility during inflammation are caused by both smooth muscle damage and specific receptor-mediated mechanisms. <i>Croatian Medical Journal</i> , 2006, 47, 318-26.	0.2	16
60	Motility patterns and distribution of interstitial cells of Cajal and nitrergic neurons in the proximal, mid- and distal-colon of the rat. <i>Neurogastroenterology and Motility</i> , 2005, 17, 133-147.	1.6	65
61	Effect of 4-aminopyridine (4-AP) on the spontaneous activity and neuromuscular junction in the rat colon. <i>Pharmacological Research</i> , 2005, 52, 447-456.	3.1	4
62	Otilonium bromide inhibits muscle contractions via L-type calcium channels in the rat colon. <i>Neurogastroenterology and Motility</i> , 2004, 16, 175-183.	1.6	17
63	Changes in the inhibitory responses to electrical field stimulation of intestinal smooth muscle from <i>Trichinella spiralis</i> infected rats. <i>Life Sciences</i> , 2002, 71, 3121-3136.	2.0	11
64	Changes in electrophysiological properties in the prostatic portion of vas deferens from spontaneously hypertensive rats. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2002, 366, 425-430.	1.4	4
65	Actions of NO donors and endogenous nitrergic transmitter on the longitudinal muscle of rat ileum in vitro. <i>Life Sciences</i> , 2001, 69, 1143-1154.	2.0	19
66	Evidence supporting presence of two pacemakers in rat colon. <i>American Journal of Physiology - Renal Physiology</i> , 2001, 281, G255-G266.	1.6	91
67	Electrical and mechanical effects of vasoactive intestinal peptide and pituitary adenylate cyclase-activating peptide in the rat colon involve different mechanisms. <i>European Journal of Pharmacology</i> , 2000, 389, 217-224.	1.7	15
68	Lack of effect of nitric oxide on KCl, acetylcholine and substance P induced contractions in ileal longitudinal muscle of the rat. <i>Life Sciences</i> , 2000, 67, 531-541.	2.0	13
69	Slow waves in circular muscle of porcine ileum: structural and electrophysiological studies. <i>American Journal of Physiology - Renal Physiology</i> , 1999, 276, G393-G406.	1.6	18
70	Neural modulation of the cyclic electrical and mechanical activity in the rat colonic circular muscle: putative role of ATP and NO. <i>British Journal of Pharmacology</i> , 1999, 126, 883-892.	2.7	65
71	Evidence supporting a role for ATP as non-adrenergic noncholinergic inhibitory transmitter in the porcine ileum. <i>Life Sciences</i> , 1998, 62, 1303-1315.	2.0	28
72	Mucosal mast cells are involved in CCK disruption of MMC in the rat intestine. <i>American Journal of Physiology - Renal Physiology</i> , 1998, 275, G63-G67.	1.6	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. <i>Canadian Journal of Physiology and Pharmacology</i> , 1997, 75, 383-397.	0.7	28
74	Effect of different calcium channel blockers on inhibitory junction potentials and slow waves in porcine ileum. <i>Life Sciences</i> , 1997, 60, 883-892.	2.0	18
75	Rhythmic oscillating complexes in gastrointestinal tract of chickens: a role for motilin. <i>American Journal of Physiology - Renal Physiology</i> , 1997, 272, G916-G922.	1.6	5
76	Influence of nitric oxide and vasoactive intestinal peptide on the spontaneous and triggered electrical and mechanical activities of the canine ileum. <i>Canadian Journal of Physiology and Pharmacology</i> , 1997, 75, 383-397.	0.7	5
77	Non-adrenergic, non-cholinergic inhibitory junction potential in rat colonic circular muscle is partly sensitive to 1% $\alpha$ -conotoxin GVIA and resistant to L-, P- or Q-type calcium channel blockers. <i>Neuroscience Letters</i> , 1996, 210, 91-94.	1.0	9
78	Ca <sup>2+</sup> role in myogenic and neurogenic activities of canine ileum circular muscle. <i>American Journal of Physiology - Renal Physiology</i> , 1996, 271, G1053-G1066.	1.6	9
79	Heterogeneity in electrical activity of the canine ileal circular muscle: interaction of two pacemakers. <i>Neurogastroenterology and Motility</i> , 1996, 8, 339-349.	1.6	34
80	Mechanism of action of somatostatin on the canine ileal circular muscle. <i>American Journal of Physiology - Renal Physiology</i> , 1995, 269, G22-G28.	1.6	2
81	Intraluminal lipids modulate avian gastrointestinal motility. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1995, 269, R445-R452.	0.9	10
82	Is nitric oxide the final mediator regulating the migrating myoelectric complex cycle?. <i>American Journal of Physiology - Renal Physiology</i> , 1995, 268, G207-G214.	1.6	29
83	Modulation of the Migrating Myoelectric Complexes by Cholecystokinin and Gastrin in the Gastrointestinal Tract of Chickens. <i>Poultry Science</i> , 1995, 74, 563-576.	1.5	9
84	Rhythmic oscillating complex: characterization, induction, and relationship to MMC in chickens. <i>American Journal of Physiology - Renal Physiology</i> , 1994, 266, G585-G595.	1.6	6
85	Role of CCK in the Physiological Control of Gastroduodenal and Intestinal Motility in Chickens. <i>Annals of the New York Academy of Sciences</i> , 1994, 713, 413-416.	1.8	0
86	Effects of cholecystokinin and gastrin on gastroduodenal motility and coordination in chickens. <i>Life Sciences</i> , 1993, 52, 191-198.	2.0	28
87	Immunohistochemical Differentiation of Gastrin and Cholecystokinin in Gastrointestinal Tract of Chickens. <i>Poultry Science</i> , 1993, 72, 2328-2336.	1.5	17
88	In vivo modulation of gastrointestinal motor activity by Met-enkephalin, morphine and enkephalin analogs in chickens. <i>Regulatory Peptides</i> , 1993, 44, 71-83.	1.9	7
89	Functional consequences of chronic implantation of electrodes for electromyographic studies in the gastrointestinal tract of chickens. <i>Archives Internationales De Physiologie, De Biochimie Et De Biophysique</i> , 1993, 101, 47-51.	0.1	2
90	A Method of Analysis of the Electrical Activity of the Proximal Gastrointestinal Tract of the Chicken. <i>Poultry Science</i> , 1992, 71, 1531-1539.	1.5	8

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91	Opioid-induction of migrating motor activity in chickens. <i>Life Sciences</i> , 1992, 50, 465-472.	2.0	5
92	Gastrin-CCK actions on the migrating myoelectric complexes (MMC) in the chicken. <i>Regulatory Peptides</i> , 1992, 40, 204.	1.9	1
93	Inhibitory effects of neuropeptide Y (NPY) on CRF and stress-induced cecal motor response in rats. <i>Life Sciences</i> , 1990, 47, 205-211.	2.0	35
94	Age Influence on Digestive Transit Time of Particulate and Soluble Markers in Broiler Chickens. <i>Poultry Science</i> , 1989, 68, 185-189.	1.5	33
95	FACTORS DETERMINING GASTROINTESTINAL TRANSIT TIME OF SEVERAL MARKERS IN THE DOMESTIC FOWL. <i>Quarterly Journal of Experimental Physiology</i> (Cambridge, England), 1989, 74, 867-874.	1.0	47
96	STUDY OF THE RATE OF PASSAGE OF FOOD WITH CHROMIUM-MORDANTED PLANT CELLS IN CHICKENS ( <i>GALLUS GALLUS</i> ). <i>Quarterly Journal of Experimental Physiology</i> (Cambridge, England), 1987, 72, 251-259.	1.0	36