Joel Castro

List of Publications by Year in Descending Order

62 papers	2,416 citations	25 h-index	48 g-index
86 ext. papers	2,964 ext. citations	8.6 avg, IF	4.62 L-index

#	Paper	IF	Citations
62	Clodronate Treatment Prevents Vaginal Hypersensitivity in a Mouse Model of Vestibulodynia.. *Frontiers in Cellular and Infection Microbiology*, **2021**, 11, 784972	5.9	0
61	Guanylate cyclase-C agonists as peripherally acting treatments of chronic visceral pain. *Trends in Pharmacological Sciences*, **2021**,	13.2	2
60	Pharmacological modulation of voltage-gated sodium (NaV) channels alters nociception arising from the female reproductive tract. *Pain*, **2021**, 162, 227-242	8	3
59	A spider-venom peptide with multitarget activity on sodium and calcium channels alleviates chronic visceral pain in a model of irritable bowel syndrome. *Pain*, **2021**, 162, 569-581	8	11
58	A mouse model of endometriosis that displays vaginal, colon, cutaneous, and bladder sensory comorbidities. *FASEB Journal*, **2021**, 35, e21430	0.9	2
57	Activation of MrgprA3 and MrgprC11 on Bladder-Innervating Afferents Induces Peripheral and Central Hypersensitivity to Bladder Distension. *Journal of Neuroscience*, **2021**, 41, 3900-3916	6.6	1
56	Olorinab (APD371), a peripherally acting, highly selective, full agonist of the cannabinoid receptor 2, reduces colitis-induced acute and chronic visceral hypersensitivity in rodents. *Pain*, **2021**,	8	5
55	Pruritogenic mechanisms and gut sensation: putting the "irritant" into irritable bowel syndrome. *American Journal of Physiology - Renal Physiology*, **2021**, 320, G1131-G1141	5.1	1
54	Pharmacological Inhibition of the Voltage-Gated Sodium Channel Na1.7 Alleviates Chronic Visceral Pain in a Rodent Model of Irritable Bowel Syndrome. *ACS Pharmacology and Translational Science*, **2021**, 4, 1362-1378	5.9	1
53	Design of a Stable Cyclic Peptide Analgesic Derived from Sunflower Seeds that Targets the δ-Opioid Receptor for the Treatment of Chronic Abdominal Pain. *Journal of Medicinal Chemistry*, **2021**, 64, 9042-9055	8.3	3
52	Histamine induces peripheral and central hypersensitivity to bladder distension via the histamine H receptor and TRPV1. *American Journal of Physiology - Renal Physiology*, **2020**, 318, F298-F314	4.3	17
51	Pain in Endometriosis. *Frontiers in Cellular Neuroscience*, **2020**, 14, 590823	6.1	23
50	Colonic afferent input and dorsal horn neuron activation differs between the thoracolumbar and lumbosacral spinal cord. *American Journal of Physiology - Renal Physiology*, **2019**, 317, G285-G303	5.1	15
49	Na 1.6 regulates excitability of mechanosensitive sensory neurons. *Journal of Physiology*, **2019**, 597, 3751-3768	5.5	16
48	Sa1738 Olorinab (Formerly Apd371), a Peripherally Restricted, Highly Selective, Full Agonist of the Cannabinoid Receptor 2 (CB2), Reduces Visceral Hypersensitivity in Animal Models. *Gastroenterology*, **2019**, 156, S-382	13.3	3
47	Translating peripheral bladder afferent mechanosensitivity to neuronal activation within the lumbosacral spinal cord of mice. *Pain*, **2019**, 160, 793-804	8	11
46	Activation of pruritogenic TGR5, MrgprA3, and MrgprC11 on colon-innervating afferents induces visceral hypersensitivity. *JCI Insight*, **2019**, 4,	9.9	33

45	Linaclotide treatment reduces endometriosis-associated vaginal hyperalgesia and mechanical allodynia through viscerovisceral cross-talk. *Pain*, **2019**, 160, 2566-2579	8	12
44	Co-expression of δ and μ opioid receptors by mouse colonic nociceptors. *British Journal of Pharmacology*, **2018**, 175, 2622-2634	8.6	18
43	Voltage-gated sodium channels: (Na)igating the field to determine their contribution to visceral nociception. *Journal of Physiology*, **2018**, 596, 785-807	3.9	24
42	Contribution of membrane receptor signalling to chronic visceral pain. *International Journal of Biochemistry and Cell Biology*, **2018**, 98, 10-23	5.6	18
41	Protease-activated receptor-2 in endosomes signals persistent pain of irritable bowel syndrome. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E7438-E7447	11.5	78
40	NaV1.1 inhibition can reduce visceral hypersensitivity. *JCI Insight*, **2018**, 3,	9.9	25
39	Chronic linaclotide treatment reduces colitis-induced neuroplasticity and reverses persistent bladder dysfunction. *JCI Insight*, **2018**, 3,	9.9	38
38	Cyclic analogues of κ-conotoxin Vc1.1 inhibit colonic nociceptors and provide analgesia in a mouse model of chronic abdominal pain. *British Journal of Pharmacology*, **2018**, 175, 2384-2398	8.6	28
37	Structure-Activity Studies Reveal the Molecular Basis for GABA-Receptor Mediated Inhibition of High Voltage-Activated Calcium Channels by κ-Conotoxin Vc1.1. *ACS Chemical Biology*, **2018**, 13, 1577-1587	4.9	22
36	Extrinsic Sensory Afferent Nerves Innervating the Gastrointestinal Tract in Health and Disease **2018** , 387-418		8
35	κ-Conotoxin Vc1.1 inhibits human dorsal root ganglion neuroexcitability and mouse colonic nociception via GABA receptors. *Gut*, **2017**, 66, 1083-1094	19.2	61
34	Apelin targets gut contraction to control glucose metabolism via the brain. *Gut*, **2017**, 66, 258-269	19.2	58
33	Multiple sodium channel isoforms mediate the pathological effects of Pacific ciguatoxin-1. *Scientific Reports*, **2017**, 7, 42810	4.9	47
32	Synthesis of Multivalent [Lys8]-Oxytocin Dendrimers that Inhibit Visceral Nociceptive Responses. *Australian Journal of Chemistry*, **2017**, 70, 162	1.2	6
31	Enterochromaffin Cells Are Gut Chemosensors that Couple to Sensory Neural Pathways. *Cell*, **2017**, 170, 185-198.e16	56.2	364
30	Structure–Activity Studies of Cysteine-Rich κ-Conotoxins that Inhibit High-Voltage-Activated Calcium Channels via GABAB Receptor Activation Reveal a Minimal Functional Motif. *Angewandte Chemie*, **2016**, 128, 4770-4774	3.6	2
29	Selective spider toxins reveal a role for the Nav1.1 channel in mechanical pain. *Nature*, **2016**, 534, 494-9	50.4	190
28	366 Guanylate Cyclase-C Expression Is Down-Regulated in Colonic Biopsies From Female Irritable Bowel Syndrome Patients With Constipation. *Gastroenterology*, **2016**, 150, S81-S82	13.3	2

27	Conopeptide-Derived δ-Opioid Agonists (Conorphins): Potent, Selective, and Metabolic Stable Dynorphin A Mimetics with Antinociceptive Properties. *Journal of Medicinal Chemistry*, **2016**, 59, 2381-95	8.3	21
26	Structure-Activity Studies of Cysteine-Rich α-Conotoxins that Inhibit High-Voltage-Activated Calcium Channels via GABA(B) Receptor Activation Reveal a Minimal Functional Motif. *Angewandte Chemie - International Edition*, **2016**, 55, 4692-6	16.4	46
25	Increased μ-opioid receptor expression and function during chronic visceral hypersensitivity. *Gut*, **2014**, 63, 1199-200	19.2	37
24	Su2066 Distinct Alterations in the Guanylate Cyclase-C (GC-C)/Cyclic GMP (cGMP) Pathway Are Evident Across Different Subtypes of Irritable Bowel Syndrome (IBS) Patients. *Gastroenterology*, **2014**, 146, S-537	13.3	2
23	Selenoether oxytocin analogues have analgesic properties in a mouse model of chronic abdominal pain. *Nature Communications*, **2014**, 5, 3165	17.4	95
22	Sensory neuro-immune interactions differ between irritable bowel syndrome subtypes. *Gut*, **2013**, 62, 1456-65	19.2	141
21	Linaclotide inhibits colonic nociceptors and relieves abdominal pain via guanylate cyclase-C and extracellular cyclic guanosine 3′,5′-monophosphate. *Gastroenterology*, **2013**, 145, 1334-46.e1-11	13.3	186
20	Mo1849 Mechanism of Action for Linaclotide Induced Abdominal Pain Relief. *Gastroenterology*, **2012**, 142, S-699	13.3	9
19	Experimental Colitis Models. *Methods in Pharmacology and Toxicology*, **2012**, 379-390	1.1	1
18	Sprouting of colonic afferent central terminals and increased spinal mitogen-activated protein kinase expression in a mouse model of chronic visceral hypersensitivity. *Journal of Comparative Neurology*, **2012**, 520, 2241-55	3.4	51
17	A Novel Role of Cyclic GMP in Colonic Sensory Neurotransmission in Healthy and TNBS-Treated Mice. *Gastroenterology*, **2011**, 140, S-538	13.3	18
16	Garcinia Buchananii Bark Extract Inhibits Nociceptors, With Greater Efficacy During Inflammation. *Gastroenterology*, **2011**, 140, S-866	13.3	6
15	The predominant role of IP3 type 1 receptors in activation of store-operated Ca2+ entry in liver cells. *Biochimica Et Biophysica Acta - Biomembranes*, **2011**, 1808, 745-51	3.8	3
14	TRPA1 contributes to specific mechanically activated currents and sensory neuron mechanical hypersensitivity. *Journal of Physiology*, **2011**, 589, 3575-93	3.9	95
13	A novel role for TRPM8 in visceral afferent function. *Pain*, **2011**, 152, 1459-1468	8	102
12	Mitochondrial uncoupler FCCP activates proton conductance but does not block store-operated Ca(2+) current in liver cells. *Archives of Biochemistry and Biophysics*, **2010**, 495, 152-8	4.1	34
11	Store-operated Ca2+ channels and microdomains of Ca2+ in liver cells. *Clinical and Experimental Pharmacology and Physiology*, **2009**, 36, 77-83	3	21
10	A small component of the endoplasmic reticulum is required for store-operated Ca2+ channel activation in liver cells: evidence from studies using TRPV1 and taurodeoxycholic acid. *Biochemical Journal*, **2009**, 418, 553-66	3.8	25

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9	Store-operated Ca(2+) channels and Stromal Interaction Molecule 1 (STIM1) are targets for the actions of bile acids on liver cells. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2008**, 1783, 874-85	4.9	21
8	Phospholipase C-gamma1 is required for the activation of store-operated Ca2+ channels in liver cells. *Biochemical Journal*, **2007**, 405, 269-76	3.8	31
7	ATP steal between cation pumps: a mechanism linking Na+ influx to the onset of necrotic Ca2+ overload. *Cell Death and Differentiation*, **2006**, 13, 1675-85	12.7	18
6	A cytosolic source of calcium unveiled by hydrogen peroxide with relevance for epithelial cell death. *Cell Death and Differentiation*, **2004**, 11, 468-78	12.7	25
5	Apoptotic and necrotic blebs in epithelial cells display similar neck diameters but different kinase dependency. *Cell Death and Differentiation*, **2003**, 10, 687-97	12.7	126
4	Ion movements in cell death: from protection to execution. *Biological Research*, **2002**, 35, 209-14	7.6	22
3	Hyperosmotic shock induces both activation and translocation of glucose transporters in mammalian cells. *Pflugers Archiv European Journal of Physiology*, **2001**, 442, 614-21	4.6	44
2	Nonselective cation channels as effectors of free radical-induced rat liver cell necrosis. *Hepatology*, **2001**, 33, 114-22	11.2	51
1	Cytosolic [Ca(2+)] modulates basal GLUT1 activity and plays a permissive role in its activation by metabolic stress and insulin in rat epithelial cells. *Cell Calcium*, **2000**, 28, 97-106	4	28