# Joel Castro

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5162939/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 83 papers | 3,371 citations | 201674 27 h-index | 155660 55 g-index |
| 86 all docs | 86 docs citations | 86 times ranked | 4306 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Enterochromaffin Cells Are Gut Chemosensors that Couple to Sensory Neural Pathways. Cell, 2017, 170, 185-198.e16. | 28.9 | 568 |
| 2 | Selective spider toxins reveal a role for the Nav1.1 channel in mechanical pain. Nature, 2016, 534, 494-499. | 27.8 | 239 |
| 3 | Linaclotide Inhibits Colonic Nociceptors and Relieves Abdominal Pain via Guanylate Cyclase-C and Extracellular Cyclic Guanosine 3â€²,5â€²-Monophosphate. Gastroenterology, 2013, 145, 1334-1346.e11. | 1.3 | 231 |
| 4 | Sensory neuro-immune interactions differ between Irritable Bowel Syndrome subtypes. Gut, 2013, 62, 1456-1465. | 12.1 | 172 |
| 5 | Apoptotic and necrotic blebs in epithelial cells display similar neck diameters but different kinase dependency. Cell Death and Differentiation, 2003, 10, 687-697. | 11.2 | 141 |
| 6 | 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. | 7.1 | 128 |
| 7 | A novel role for TRPM8 in visceral afferent function. Pain, 2011, 152, 1459-1468. | 4.2 | 124 |
| 8 | Selenoether oxytocin analogues have analgesic properties in a mouse model of chronic abdominal pain. Nature Communications, 2014, 5, 3165. | 12.8 | 122 |
| 9 | TRPA1 contributes to specific mechanically activated currents and sensory neuron mechanical hypersensitivity. Journal of Physiology, 2011, 589, 3575-3593. | 2.9 | 116 |
| 10 | Pain in Endometriosis. Frontiers in Cellular Neuroscience, 2020, 14, 590823. | 3.7 | 95 |
| 11 | Î±-Conotoxin Vc1.1 inhibits human dorsal root ganglion neuroexcitability and mouse colonic nociception via GABA<sub>B</sub>receptors. Gut, 2017, 66, 1083-1094. | 12.1 | 77 |
| 12 | Apelin targets gut contraction to control glucose metabolism via the brain. Gut, 2017, 66, 258-269. | 12.1 | 73 |
| 13 | Multiple sodium channel isoforms mediate the pathological effects of Pacific ciguatoxin-1. Scientific Reports, 2017, 7, 42810. | 3.3 | 67 |
| 14 | Sprouting of colonic afferent central terminals and increased spinal mitogenâ€activated protein kinase expression in a mouse model of chronic visceral hypersensitivity. Journal of Comparative Neurology, 2012, 520, 2241-2255. | 1.6 | 62 |
| 15 | Chronic linaclotide treatment reduces colitis-induced neuroplasticity and reverses persistent bladder dysfunction. JCI Insight, 2018, 3, . | 5.0 | 61 |
| 16 | Activation of pruritogenic TGR5, MrgprA3, and MrgprC11 on colon-innervating afferents induces visceral hypersensitivity. JCI Insight, 2019, 4, . | 5.0 | 59 |
| 17 | Nonselective cation channels as effectors of free radicalâ€“induced rat liver cell necrosis. Hepatology, 2001, 33, 114-122. | 7.3 | 57 |
| 18 | Structureâ€“Activity Studies of Cysteineâ€Rich Î±â€Conotoxins that Inhibit Highâ€Voltageâ€Activated Calcium Channels via GABA<sub>B</sub> Receptor Activation Reveal a Minimal Functional Motif. Angewandte Chemie - International Edition, 2016, 55, 4692-4696. | 13.8 | 54 |

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|---|---|---|---|
| 19 | Hyperosmotic shock induces both activation and translocation of glucose transporters in mammalian cells. Pflugers Archiv European Journal of Physiology, 2001, 442, 614-621. | 2.8 | 48 |
| 20 | Histamine induces peripheral and central hypersensitivity to bladder distension via the histamine H<sub>1</sub>receptor and TRPV1. American Journal of Physiology - Renal Physiology, 2020, 318, F298-F314. | 2.7 | 42 |
| 21 | Mitochondrial uncoupler FCCP activates proton conductance but does not block store-operated Ca2+ current in liver cells. Archives of Biochemistry and Biophysics, 2010, 495, 152-158. | 3.0 | 41 |
| 22 | Increased Î¼-opioid receptor expression and function during chronic visceral hypersensitivity. Gut, 2014, 63, 1199-1200. | 12.1 | 40 |
| 23 | Voltageâ€gated sodium channels: (Na<sub>V</sub>)igating the field to determine their contribution to visceral nociception. Journal of Physiology, 2018, 596, 785-807. | 2.9 | 36 |
| 24 | Cyclic analogues of Î±â€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. | 5.4 | 36 |
| 25 | NaV1.1 inhibition can reduce visceral hypersensitivity. JCI Insight, 2018, 3, . | 5.0 | 34 |
| 26 | Phospholipase C-Î³1 is required for the activation of store-operated Ca2+ channels in liver cells. Biochemical Journal, 2007, 405, 269-276. | 3.7 | 32 |
| 27 | Na<sub>V</sub>1.6 regulates excitability of mechanosensitive sensory neurons. Journal of Physiology, 2019, 597, 3751-3768. | 2.9 | 31 |
| 28 | 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. | 3.4 | 30 |
| 29 | Cytosolic [Ca2+] 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. | 2.4 | 29 |
| 30 | A cytosolic source of calcium unveiled by hydrogen peroxide with relevance for epithelial cell death. Cell Death and Differentiation, 2004, 11, 468-478. | 11.2 | 29 |
| 31 | Contribution of membrane receptor signalling to chronic visceral pain. International Journal of Biochemistry and Cell Biology, 2018, 98, 10-23. | 2.8 | 29 |
| 32 | Ion movements in cell death: from protection to execution. Biological Research, 2002, 35, 209-14. | 3.4 | 29 |
| 33 | Conopeptide-Derived Î¼-Opioid Agonists (Conorphins): Potent, Selective, and Metabolic Stable Dynorphin A Mimetics with Antinociceptive Properties. Journal of Medicinal Chemistry, 2016, 59, 2381-2395. | 6.4 | 28 |
| 34 | Structureâ€“Activity Studies Reveal the Molecular Basis for GABA<sub>B</sub>-Receptor Mediated Inhibition of High Voltage-Activated Calcium Channels by Î±-Conotoxin Vc1.1. ACS Chemical Biology, 2018, 13, 1577-1587. | 3.4 | 28 |
| 35 | 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. | 4.2 | 28 |
| 36 | ATP steal between cation pumps: a mechanism linking Na+ influx to the onset of necrotic Ca2+ overload. Cell Death and Differentiation, 2006, 13, 1675-1685. | 11.2 | 25 |

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|---|---|---|---|
| 37 | Store-operated Ca2+ 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, 874-885. | 4.1 | 25 |
| 38 | 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, 553-566. | 3.7 | 25 |
| 39 | Coâ€expression of Î¼ and Î´ opioid receptors by mouse colonic nociceptors. British Journal of Pharmacology, 2018, 175, 2622-2634. | 5.4 | 25 |
| 40 | Translating peripheral bladder afferent mechanosensitivity to neuronal activation within the lumbosacral spinal cord of mice. Pain, 2019, 160, 793-804. | 4.2 | 25 |
| 41 | Linaclotide treatment reduces endometriosis-associated vaginal hyperalgesia and mechanical allodynia through viscerovisceral cross-talk. Pain, 2019, 160, 2566-2579. | 4.2 | 25 |
| 42 | STOREâ€OPERATED Ca<sup>2+</sup> CHANNELS AND MICRODOMAINS OF Ca<sup>2+</sup> IN LIVER CELLS. Clinical and Experimental Pharmacology and Physiology, 2009, 36, 77-83. | 1.9 | 23 |
| 43 | A Novel Role of Cyclic GMP in Colonic Sensory Neurotransmission in Healthy and TNBS-Treated Mice. Gastroenterology, 2011, 140, S-538. | 1.3 | 20 |
| 44 | 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, 2022, 163, e72-e86. | 4.2 | 18 |
| 45 | Design of a Stable Cyclic Peptide Analgesic Derived from Sunflower Seeds that Targets the Îº-Opioid Receptor for the Treatment of Chronic Abdominal Pain. Journal of Medicinal Chemistry, 2021, 64, 9042-9055. | 6.4 | 17 |
| 46 | Extrinsic Sensory Afferent Nerves Innervating the Gastrointestinal Tract in Health and Disease. , 2018, , 387-418. | | 14 |
| 47 | Mo1849 Mechanism of Action for Linaclotide Induced Abdominal Pain Relief. Gastroenterology, 2012, 142, S-699. | 1.3 | 10 |
| 48 | A mouse model of endometriosis that displays vaginal, colon, cutaneous, and bladder sensory comorbidities. FASEB Journal, 2021, 35, e21430. | 0.5 | 10 |
| 49 | Pharmacological Inhibition of the Voltage-Gated Sodium Channel NaV1.7 Alleviates Chronic Visceral Pain in a Rodent Model of Irritable Bowel Syndrome. ACS Pharmacology and Translational Science, 2021, 4, 1362-1378. | 4.9 | 10 |
| 50 | Synthesis of Multivalent [Lys8]-Oxytocin Dendrimers that Inhibit Visceral Nociceptive Responses. Australian Journal of Chemistry, 2017, 70, 162. | 0.9 | 9 |
| 51 | Activation of MrgprA3 and MrgprC11 on Bladder-Innervating Afferents Induces Peripheral and Central Hypersensitivity to Bladder Distension. Journal of Neuroscience, 2021, 41, 3900-3916. | 3.6 | 9 |
| 52 | Pharmacological modulation of voltage-gated sodium (NaV) channels alters nociception arising from the female reproductive tract. Pain, 2021, 162, 227-242. | 4.2 | 9 |
| 53 | Garcinia Buchananii Bark Extract Inhibits Nociceptors, With Greater Efficacy During Inflammation. Gastroenterology, 2011, 140, S-866. | 1.3 | 8 |
| 54 | Guanylate cyclase-C agonists as peripherally acting treatments of chronic visceral pain. Trends in Pharmacological Sciences, 2022, 43, 110-122. | 8.7 | 8 |

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|---|---|---|---|
| 55 | Pruritogenic mechanisms and gut sensation: putting the â€œirritantâ€•into irritable bowel syndrome. American Journal of Physiology - Renal Physiology, 2021, 320, G1131-G1141. | 3.4 | 6 |
| 56 | A syngeneic inoculation mouse model of endometriosis that develops multiple comorbid visceral and cutaneous pain like behaviours. Pain, 2021, Publish Ahead of Print, . | 4.2 | 6 |
| 57 | Sa1738 â€“ 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. | 1.3 | 4 |
| 58 | 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, 745-751. | 2.6 | 3 |
| 59 | Clodronate Treatment Prevents Vaginal Hypersensitivity in a Mouse Model of Vestibulodynia. Frontiers in Cellular and Infection Microbiology, 2021, 11, 784972. | 3.9 | 3 |
| 60 | 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. | 1.3 | 2 |
| 61 | Structureâ€“Activity Studies of Cysteineâ€Rich Î±â€Conotoxins that Inhibit Highâ€Voltageâ€Activated Calcium Channels via GABA<sub>B</sub> Receptor Activation Reveal a Minimal Functional Motif. Angewandte Chemie, 2016, 128, 4770-4774. | 2.0 | 2 |
| 62 | 366 Guanylate Cyclase-C Expression Is Down-Regulated in Colonic Biopsies From Female Irritable Bowel Syndrome Patients With Constipation. Gastroenterology, 2016, 150, S81-S82. | 1.3 | 2 |
| 63 | Su1578 â€“ Chronic Intracolonic Administration of Linaclotide Inhibits Nociceptive Signaling in a Mouse Model of Chronic Visceral Hypersensitivity. Gastroenterology, 2019, 156, S-570. | 1.3 | 2 |
| 64 | TGR5 agonists induce peripheral and central hypersensitivity to bladder distension. Scientific Reports, 2022, 12, . | 3.3 | 2 |
| 65 | 743 Mechanisms Underlying Linaclotide Induced Inhibition of Colonic Nociception. Gastroenterology, 2013, 144, S-134. | 1.3 | 1 |
| 66 | Extracellular CGMP Reduces the Excitability of Sensory Dorsal Root Ganglion Neurons via an Extracellular Mechanism. Gastroenterology, 2017, 152, S156. | 1.3 | 1 |
| 67 | Chronic Oral Administration of Linaclotide Inhibits Nociceptive Signalling in Response to Noxious Colorectal Distension in a Model of Chronic Visceral Hypersensitivity. Gastroenterology, 2017, 152, S204. | 1.3 | 1 |
| 68 | Sa1078 CANNABINOID RECEPTOR EXPRESSION AND THE EFFECT OF OLORINAB, A PERIPHERALLY ACTING, HIGHLY SELECTIVE, FULL AGONIST OF THE CANNABINOID RECEPTOR 2 (CB2), IN RODENTS WITH COLITIS AND CHRONIC VISCERAL HYPERSENSITIVITY. Gastroenterology, 2020, 158, S-269. | 1.3 | 1 |
| 69 | Mo1146 CHRONIC INTRA-COLONIC LINACLOTIDE ADMINISTRATION ALTERS GLIAL ACTIVATION IN A MOUSE MODEL OF CHRONIC VISCERAL HYPERSENSITIVITY. Gastroenterology, 2020, 158, S-803. | 1.3 | 1 |
| 70 | Diltiazem Protects Hepatocytes from Damage Induced by Reactive Oxygen Species Through Actions on Mitochondria. Journal of Gastroenterology and Hepatology Research, 2016, 5, 1977-1983. | 0.2 | 1 |
| 71 | 942 Differential Coupling of Cytokine Receptors to Sensory Neurons in Health and Post Inflammation. Gastroenterology, 2010, 138, S-136-S-137. | 1.3 | 0 |
| 72 | Identification of Colonic Afferent Central Terminals and Changes Following Colonic Inflammation. Gastroenterology, 2011, 140, S-131. | 1.3 | 0 |

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|---|---|---|---|
| 73 | Nitric Oxide Mechanism of Action on Visceral Nociceptors. Gastroenterology, 2011, 140, S-536. | 1.3 | 0 |
| 74 | Mo1842 Downstream Signaling Pathways of Nitric Oxide Induced Modulation of Colonic Afferent Mechanosensitivity. Gastroenterology, 2012, 142, S-697. | 1.3 | 0 |
| 75 | Mo1848 Characterization of Dorsal Horn Neurons Activated by Noxious Colorectal Distension in Health and Chronic Visceral Hypersensitivity. Gastroenterology, 2012, 142, S-699. | 1.3 | 0 |
| 76 | 268 Alterations in the Guanylate Cyclase-C/cGMP Pathway in Patients With Irritable Bowel Syndrome With Constipation. Gastroenterology, 2013, 144, S-59-S-60. | 1.3 | 0 |
| 77 | Tu2119 Increased Efficacy of the Peripherally-Restricted Selective Kappa-Opioid Receptor Agonist, Asimadoline, in Chronic Visceral Hypersensitivity. Gastroenterology, 2013, 144, S-934-S-935. | 1.3 | 0 |
| 78 | Mo2029 Extracellular Cyclic GMP (cGMP), the Downstream Mediator Released in Response to Linaclotide-Induced Activation of Guanylate Cyclase-C (GC-C), Reduces Excitability of Murine and Human Dorsal Root Ganglion (DRG) Neurons. Gastroenterology, 2014, 146, S-722. | 1.3 | 0 |
| 79 | 888 Î±-Conotoxin Vc1.1 Targets GABAB Receptors Modulating CaV2.2 and CaV2.3 Calcium Channels in Sensory Pathways Mediating Chronic Visceral Pain. Gastroenterology, 2014, 146, S-156. | 1.3 | 0 |
| 80 | Mo1876 A Visceral Representation of Itch: Identification â€˜Itch-Specificâ€™ Pruritogenic Mechanisms Within Colonic Sensory Pathways. Gastroenterology, 2015, 148, S-733. | 1.3 | 0 |
| 81 | 1028 Chronic Activation of the GC-C/cGMP Pathway by Linaclotide Inhibits Ascending Nociceptive Pathways and Restores Aberrant Spinal Cord Signaling. Gastroenterology, 2015, 148, S-194. | 1.3 | 0 |
| 82 | Mo1875 GC-C Agonists As Regulators of Visceral Sensation: Modulation of Mucosal Sensitivity via the Epithelial GC-C/cGMP Pathway. Gastroenterology, 2015, 148, S-732-S-733. | 1.3 | 0 |
| 83 | PD14-05â€ƒLOW AND HIGH THRESHOLD MECHANOSENSITIVE BLADDER AFFERENT PATHWAYS CONVERGE TO A SIMILAR DISTRIBUTION OF LUMBOSACRAL SPINAL NEURONS. Journal of Urology, 2019, 201, . | 0.4 | 0 |