Gianrico Farrugia

List of Publications by Year
in descending order

190 papers	14,018 citations	17405 63 h-index	23472 111 g-index
194 all docs	194 docs citations	194 times ranked	12065 citing authors

#	Article	IF	Citations
1	Gut microbes promote colonic serotonin production through an effect of shortâ€chain fatty acids on enterochromaffin cells. FASEB Journal, 2015, 29, 1395-1403.	0.2	876
2	Autoantibodies to Ganglionic Acetylcholine Receptors in Autoimmune Autonomic Neuropathies. New England Journal of Medicine, 2000, 343, 847-855.	13.9	615
3	Complex Interactions Among Diet, Gastrointestinal Transit, and Gut Microbiota in Humanized Mice. Gastroenterology, 2013, 144, 967-977.	0.6	387
4	Decreased interstitial cell of Cajal volume in patients with slow-transit constipation. Gastroenterology, 2000, 118, 14-21.	0.6	370
5	Cellular Changes in Diabetic and Idiopathic Gastroparesis. Gastroenterology, 2011, 140, 1575-1585.e8.	0.6	368
6	Ano1 is a selective marker of interstitial cells of Cajal in the human and mouse gastrointestinal tract. American Journal of Physiology - Renal Physiology, 2009, 296, G1370-G1381.	1.6	320
7	Prevalence, Risk Factors, and Outcomes of Irritable Bowel Syndrome After Infectious Enteritis: A Systematic Review and Meta-analysis. Gastroenterology, 2017, 152, 1042-1054.e1.	0.6	307
8	Loss of interstitial cells of cajal and inhibitory innervation in insulin-dependent diabetes. Gastroenterology, 2001, 121, 427-434.	0.6	294
9	Clinical Features of Idiopathic Gastroparesis Vary With Sex, Body Mass, Symptom Onset, Delay in Gastric Emptying, and Gastroparesis Severity. Gastroenterology, 2011, 140, 101-115.e10.	0.6	281
10	Abnormal Initiation and Conduction of Slow-Wave Activity in Gastroparesis, Defined by High-Resolution Electrical Mapping. Gastroenterology, 2012, 143, 589-598.e3.	0.6	278
11	Gut Microbiota-Produced Tryptamine Activates an Epithelial G-Protein-Coupled Receptor to Increase Colonic Secretion. Cell Host and Microbe, 2018, 23, 775-785.e5.	5.1	268
12	Preemptive Genotyping for Personalized Medicine: Design of the Right Drug, Right Dose, Right Timeâ€"Using Genomic Data to Individualize Treatment Protocol. Mayo Clinic Proceedings, 2014, 89, 25-33.	1.4	250
13	The London Classification of gastrointestinal neuromuscular pathology: report on behalf of the Gastro 2009 International Working Group. Gut, 2010, 59, 882-887.	6.1	247
14	Longitudinal Multi-omics Reveals Subset-Specific Mechanisms Underlying Irritable Bowel Syndrome. Cell, 2020, 182, 1460-1473.e17.	13.5	217
15	Heme Oxygenase-1 Protects Interstitial Cells of Cajal From Oxidative Stress and Reverses Diabetic Gastroparesis. Gastroenterology, 2008, 135, 2055-2064.e2.	0.6	212
16	Characteristics of Patients With Chronic Unexplained Nausea and Vomiting and Normal Gastric Emptying. Clinical Gastroenterology and Hepatology, 2011, 9, 567-576.e4.	2.4	212
17	Gastrointestinal neuromuscular pathology: guidelines for histological techniques and reporting on behalf of the Gastro 2009 International Working Group. Acta Neuropathologica, 2009, 118, 271-301.	3.9	196
18	Loss of Interstitial Cells of Cajal and Patterns of Gastric Dysrhythmia in Patients With Chronic Unexplained Nausea and Vomiting. Gastroenterology, 2015, 149, 56-66.e5.	0.6	192

#	ARTICLE	IF	CITATIONS
19	CD206-Positive M2 Macrophages That Express Heme Oxygenase-1 Protect Against Diabetic Gastroparesis in Mice. Gastroenterology, 2010, 138, 2399-2409.e1.	0.6	189
20	Similarities and Differences Between Diabetic and Idiopathic Gastroparesis. Clinical Gastroenterology and Hepatology, 2011, 9, 1056-1064.	2.4	174
21	A population of gut epithelial enterochromaffin cells is mechanosensitive and requires Piezo2 to convert force into serotonin release. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7632-E7641.	3.3	174
22	Small intestinal microbial dysbiosis underlies symptoms associated with functional gastrointestinal disorders. Nature Communications, 2019, 10, 2012.	5.8	168
23	Diabetic gastroparesis: what we have learned and had to unlearn in the past 5â€…years: Figure 1. Gut, 2010, 59, 1716-1726.	6.1	160
24	Mechanosensitivity of Na_v1.5, a voltage-sensitive sodium channel. Journal of Physiology, 2010, 588, 4969-4985.	1.3	155
25	Strand-Specific Analysis Shows Protein Binding at Replication Forks and PCNA Unloading from Lagging Strands when Forks Stall. Molecular Cell, 2014, 56, 551-563.	4.5	153
26	Effect of Nortriptyline on Symptoms of Idiopathic Gastroparesis. JAMA - Journal of the American Medical Association, 2013, 310, 2640.	3.8	149
27	Dietary Intake and Nutritional Deficiencies in Patients With Diabetic or Idiopathic Gastroparesis. Gastroenterology, 2011, 141, 486-498.e7.	0.6	148
28	Gastroparesis: a turning point in understanding and treatment. Gut, 2019, 68, 2238-2250.	6.1	144
29	Carbon Monoxide, Hydrogen Sulfide, and Nitric Oxide as Signaling Molecules in the Gastrointestinal Tract. Gastroenterology, 2014, 147, 303-313.	0.6	143
30	Sodium current in human intestinal interstitial cells of Cajal. American Journal of Physiology - Renal Physiology, 2003, 285, G1111-G1121.	1.6	130
31	<i>Clostridioides difficile</i> uses amino acids associated with gut microbial dysbiosis in a subset of patients with diarrhea. Science Translational Medicine, 2018, 10, .	5.8	128
32	Mechanosensitive ion channel Piezo2 is important for enterochromaffin cell response to mechanical forces. Journal of Physiology, 2017, 595, 79-91.	1.3	121
33	Loss-of-Function of the Voltage-Gated Sodium Channel NaV1.5 (Channelopathies) in Patients With Irritable Bowel Syndrome. Gastroenterology, 2014, 146, 1659-1668.	0.6	120
34	Aprepitant Has Mixed Effects on Nausea and Reduces Other Symptoms in Patients With Gastroparesis and Related Disorders. Gastroenterology, 2018, 154, 65-76.e11.	0.6	117
35	Sodium channel mutation in irritable bowel syndrome: evidence for an ion channelopathy. American Journal of Physiology - Renal Physiology, 2009, 296, G211-G218.	1.6	112
36	Kitlow Stem Cells Cause Resistance to Kit/Platelet-Derived Growth Factor Î± Inhibitors in Murine Gastrointestinal Stromal Tumors. Gastroenterology, 2010, 139, 942-952.	0.6	112

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37	Impact of the Coronavirus Disease 2019 (COVID-19) Vaccine on Asymptomatic Infection Among Patients Undergoing Preprocedural COVID-19 Molecular Screening. Clinical Infectious Diseases, 2022, 74, 59-65.	2.9	112
38	Outcomes and Factors Associated With Reduced Symptoms in Patients With Gastroparesis. Gastroenterology, 2015, 149, 1762-1774.e4.	0.6	110
39	Î±_{1C}(Ca_V1.2) L-type calcium channel mediates mechanosensitive calcium regulation. American Journal of Physiology - Cell Physiology, 2002, 283, C1001-C1008.	2.1	104
40	Ultrastructural differences between diabetic and idiopathic gastroparesis. Journal of Cellular and Molecular Medicine, 2012, 16, 1573-1581.	1.6	104
41	Syntrophin Î²2 Regulates SCN5A Gating by a PDZ Domain-mediated Interaction. Journal of Biological Chemistry, 2003, 278, 1915-1923.	1.6	103
42	Psychological Dysfunction Is Associated With Symptom Severity but Not Disease Etiology or Degree of Gastric Retention in Patients With Gastroparesis. American Journal of Gastroenterology, 2010, 105, 2357-2367.	0.2	103
43	Mechanisms of Disease: the pathological basis of gastroparesisâ€”a review of experimental and clinical studies. Nature Reviews Gastroenterology & Hepatology, 2007, 4, 336-346.	1.7	98
44	Gastrointestinal Symptoms in Families of Patients with an SCN5A-Encoded Cardiac Channelopathy: Evidence of an Intestinal Channelopathy. American Journal of Gastroenterology, 2006, 101, 1299-1304.	0.2	96
45	Genome-wide analysis of 53,400 people with irritable bowel syndrome highlights shared genetic pathways with mood and anxiety disorders. Nature Genetics, 2021, 53, 1543-1552.	9.4	96
46	Altered Expression of Ano1 Variants in Human Diabetic Gastroparesis. Journal of Biological Chemistry, 2011, 286, 13393-13403.	1.6	95
47	Endogenous Production of H₂S in the Gastrointestinal Tract: Still in Search of a Physiologic Function. Antioxidants and Redox Signaling, 2010, 12, 1135-1146.	2.5	94
48	The role of carbon monoxide in the gastrointestinal tract. Journal of Physiology, 2004, 556, 325-336.	1.3	91
49	A major role for carbon monoxide as an endogenous hyperpolarizing factor in the gastrointestinal tract. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8567-8570.	3.3	86
50	Ano1, a Ca²⁺â€activated Cl^{âˆ’} channel, coordinates contractility in mouse intestine by Ca²⁺ transient coordination between interstitial cells of Cajal. Journal of Physiology, 2014, 592, 4051-4068.	1.3	84
51	Outcome of Whole Exome Sequencing for Diagnostic Odyssey Cases of an Individualized Medicine Clinic. Mayo Clinic Proceedings, 2016, 91, 297-307.	1.4	83
52	A mechanosensitive calcium channel in human intestinal smooth muscle cells. Gastroenterology, 1999, 117, 900-905.	0.6	82
53	Intercellular Coupling of Interstitial Cells of Cajal in the Digestive Tract. International Review of Cytology, 2004, 242, 249-282.	6.2	81
54	Exogenous Serotonin Regulates Proliferation of Interstitial Cells of Cajal in Mouse Jejunum Through 5-HT2B Receptors. Gastroenterology, 2007, 133, 897-906.	0.6	78

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55	Ano1 as a regulator of proliferation. American Journal of Physiology - Renal Physiology, 2011, 301, G1044-G1051.	1.6	78
56	Inhibition of cell proliferation by a selective inhibitor of the Ca2+-activated Clâˆ' channel, Ano1. Biochemical and Biophysical Research Communications, 2012, 427, 248-253.	1.0	78
57	Changes in the gastric enteric nervous system and muscle: A case report on two patients with diabetic gastroparesis. BMC Gastroenterology, 2008, 8, 21.	0.8	74
58	Heme oxygenase 2 is present in interstitial cell networks of the mouse small intestine. Gastroenterology, 1998, 114, 239-244.	0.6	73
59	Sodium current in human jejunal circular smooth muscle cells. Gastroenterology, 2002, 122, 178-187.	0.6	72
60	Gastrointestinal neuromuscular pathology in chronic constipation. Bailliere's Best Practice and Research in Clinical Gastroenterology, 2011, 25, 43-57.	1.0	72
61	Conditional genetic deletion of Ano1 in interstitial cells of Cajal impairs Ca²⁺ transients and slow waves in adult mouse small intestine. American Journal of Physiology - Renal Physiology, 2017, 312, G228-G245.	1.6	72
62	Ranolazine Decreases Mechanosensitivity of the Voltage-Gated Sodium Ion Channel Na _V 1.5. Circulation, 2012, 125, 2698-2706.	1.6	70
63	Paraneoplastic Dysmotility: Loss of Interstitial Cells of Cajal. American Journal of Gastroenterology, 2002, 97, 1828-1833.	0.2	69
64	Platelet-Derived Growth Factor Receptor-Î± Regulates Proliferation of Gastrointestinal Stromal Tumor Cells With Mutations in KIT by Stabilizing ETV1. Gastroenterology, 2015, 149, 420-432.e16.	0.6	68
65	Human-derived gut microbiota modulates colonic secretion in mice by regulating 5-HT₃ receptor expression via acetate production. American Journal of Physiology - Renal Physiology, 2017, 313, G80-G87.	1.6	67
66	Cytoskeletal modulation of sodium current in human jejunal circular smooth muscle cells. American Journal of Physiology - Cell Physiology, 2003, 284, C60-C66.	2.1	64
67	Targeting ion channels for the treatment of gastrointestinal motility disorders. Therapeutic Advances in Gastroenterology, 2012, 5, 5-21.	1.4	64
68	Change in Populations of Macrophages Promotes Development of Delayed Gastric Emptying in Mice. Gastroenterology, 2018, 154, 2122-2136.e12.	0.6	64
69	Role of gut microbiota in regulating gastrointestinal dysfunction and motor symptoms in a mouse model of Parkinsonâ€™s disease. Gut Microbes, 2021, 13, 1866974.	4.3	61
70	Opioid Use and Potency Are Associated With Clinical Features, Quality of Life, and Use of Resources in PatientsÂWith Gastroparesis. Clinical Gastroenterology and Hepatology, 2019, 17, 1285-1294.e1.	2.4	60
71	A Mutation in Telethonin Alters Nav1.5 Function. Journal of Biological Chemistry, 2008, 283, 16537-16544.	1.6	59
72	Hyperglycemia Increases Interstitial Cells of Cajal via MAPK1 and MAPK3 Signaling to ETV1 and KIT, Leading to Rapid Gastric Emptying. Gastroenterology, 2017, 153, 521-535.e20.	0.6	59

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73	Intrinsic Gastrointestinal Macrophages: Their Phenotype and Role in Gastrointestinal Motility. Cellular and Molecular Gastroenterology and Hepatology, 2016, 2, 120-130.e1.	2.3	57
74	Serine proteases as luminal mediators of intestinal barrier dysfunction and symptom severity in IBS. Gut, 2020, 69, 62-73.	6.1	57
75	Mechanosensitive ion channel Piezo2 is inhibited by D-GsMTx4. Channels, 2017, 11, 245-253.	1.5	55
76	Mutual reinforcement of pathophysiological hostâ€microbe interactions in intestinal stasis models. Physiological Reports, 2017, 5, e13182.	0.7	55
77	Experience with precision genomics and tumor board, indicates frequent target identification, but barriers to delivery. Oncotarget, 2017, 8, 27145-27154.	0.8	55
78	Functional Bowel Disorders: A Roadmap to Guide the Next Generation of Research. Gastroenterology, 2018, 154, 723-735.	0.6	55
79	Carbon monoxide reverses diabetic gastroparesis in NOD mice. American Journal of Physiology - Renal Physiology, 2010, 298, G1013-G1019.	1.6	54
80	Carbon monoxide activates human intestinal smooth muscle L-type Ca2+ channels through a nitric oxide-dependent mechanism. American Journal of Physiology - Renal Physiology, 2005, 288, G7-G14.	1.6	52
81	Bloating in Gastroparesis: Severity, Impact, and Associated Factors. American Journal of Gastroenterology, 2011, 106, 1492-1502.	0.2	52
82	Intragastric Meal Distribution During Gastric Emptying Scintigraphy for Assessment of Fundic Accommodation: Correlation with Symptoms of Gastroparesis. Journal of Nuclear Medicine, 2018, 59, 691-697.	2.8	48
83	Histologic Changes in Diabetic Gastroparesis. Gastroenterology Clinics of North America, 2015, 44, 31-38.	1.0	45
84	Determination of gastric emptying in nonobese diabetic mice. American Journal of Physiology - Renal Physiology, 2007, 293, G1039-G1045.	1.6	44
85	Enteric Autoantibodies and Gut Motility Disorders. Gastroenterology Clinics of North America, 2008, 37, 397-410.	1.0	44
86	Specialized Mechanosensory Epithelial Cells in Mouse Gut Intrinsic Tactile Sensitivity. Gastroenterology, 2022, 162, 535-547.e13.	0.6	44
87	Endoscopic â€œno holeâ€•full-thickness biopsy of the stomach to detect myenteric ganglia. Gastrointestinal Endoscopy, 2008, 68, 301-307.	0.5	43
88	Ethnic, Racial, and Sex Differences in Etiology, Symptoms,ÂTreatment, and Symptom Outcomes of Patients With Gastroparesis. Clinical Gastroenterology and Hepatology, 2019, 17, 1489-1499.e8.	2.4	43
89	Ion channelopathies in functional GI disorders. American Journal of Physiology - Renal Physiology, 2016, 311, G581-G586.	1.6	40
90	Irritable bowel syndrome patients have<i>SCN5A</i>channelopathies that lead to decreased Na_V1.5 current and mechanosensitivity. American Journal of Physiology - Renal Physiology, 2018, 314, G494-G503.	1.6	40

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91	Computational modeling of anoctamin 1 calcium-activated chloride channels as pacemaker channels in interstitial cells of Cajal. American Journal of Physiology - Renal Physiology, 2014, 306, G711-G727.	1.6	39
92	Sex differences in NSAIDâ€induced perturbation of human intestinal barrier function and microbiota. FASEB Journal, 2018, 32, 6615-6625.	0.2	39
93	Age sensitizes the kidney to heme protein-induced acute kidney injury. American Journal of Physiology - Renal Physiology, 2013, 304, F317-F325.	1.3	38
94	Diabetic Csf1op/op Mice Lacking Macrophages Are Protected Against the Development of Delayed Gastric Emptying. Cellular and Molecular Gastroenterology and Hepatology, 2016, 2, 40-47.	2.3	38
95	Transcriptomic signatures reveal immune dysregulation in human diabetic and idiopathic gastroparesis. BMC Medical Genomics, 2018, 11, 62.	0.7	38
96	Identification and characterization of a novel promoter for the human <i>ANO1</i> gene regulated by the transcription factor signal transducer and activator of transcription 6 (STAT6). FASEB Journal, 2015, 29, 152-163.	0.2	37
97	<i>TRPM8</i>polymorphisms associated with increased risk of IBS-C and IBS-M. Gut, 2017, 66, 1725-1727.	6.1	36
98	Purification of nanogram-range immunoprecipitated DNA in ChIP-seq application. BMC Genomics, 2017, 18, 985.	1.2	34
99	Delayed Gastric Emptying Associates With Diabetic Complications in Diabetic Patients With Symptoms of Gastroparesis. American Journal of Gastroenterology, 2019, 114, 1778-1794.	0.2	34
100	A Structured Compensation Plan Results in Equitable Physician Compensation. Mayo Clinic Proceedings, 2020, 95, 35-43.	1.4	34
101	Innovation Lessons From the COVID-19 Pandemic. Mayo Clinic Proceedings, 2020, 95, 1574-1577.	1.4	34
102	The Î±_{1H} Ca²⁺ channel subunit is expressed in mouse jejunal interstitial cells of Cajal and myocytes. Journal of Cellular and Molecular Medicine, 2009, 13, 4422-4431.	1.6	33
103	Constipation-Predominant Irritable Bowel Syndrome Females Have Normal Colonic Barrier and Secretory Function. American Journal of Gastroenterology, 2017, 112, 913-923.	0.2	33
104	Glucose sensor-augmented continuous subcutaneous insulin infusion in patients with diabetic gastroparesis: An open-label pilot prospective study. PLoS ONE, 2018, 13, e0194759.	1.1	33
105	Ion channels in gastrointestinal smooth muscle and interstitial cells of Cajal. Current Opinion in Pharmacology, 2003, 3, 583-587.	1.7	32
106	Heme oxygenase, carbon monoxide, and interstitial cells of Cajal. , 1999, 47, 321-324.		31
107	Lysophosphatidyl choline modulates mechanosensitive L-type Ca²⁺ current in circular smooth muscle cells from human jejunum. American Journal of Physiology - Renal Physiology, 2009, 296, G833-G839.	1.6	31
108	Diagnostic challenges of motility disorders: optimal detection of CD117+ interstitial cells of Cajal. Histopathology, 2009, 54, 286-294.	1.6	31

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109	Anti-Hu antibodies activate enteric and sensory neurons. Scientific Reports, 2016, 6, 38216.	1.6	31
110	Innovative gastric endoscopic muscle biopsy to identify all cell types, including myenteric neurons and interstitial cells of Cajal inÂpatients with idiopathic gastroparesis: a feasibility study (withÂvideo). Gastrointestinal Endoscopy, 2016, 84, 512-517.	0.5	31
111	Membrane potential gradient is carbon monoxide-dependent in mouse and human small intestine. American Journal of Physiology - Renal Physiology, 2007, 293, G438-G445.	1.6	30
112	Whole cell current and membrane potential regulation by a human smooth muscle mechanosensitive calcium channel. American Journal of Physiology - Renal Physiology, 2000, 279, G1155-G1161.	1.6	29
113	Hydrogen sulfide is a partially redox-independent activator of the human jejunum Na⁺ channel, Na_v1.5. American Journal of Physiology - Renal Physiology, 2011, 300, G1105-G1114.	1.6	29
114	Bacterially Derived Tryptamine Increases Mucus Release by Activating a Host Receptor in a Mouse Model of Inflammatory Bowel Disease. IScience, 2020, 23, 101798.	1.9	29
115	Sodium channel NaV1.3 is important for enterochromaffin cell excitability and serotonin release. Scientific Reports, 2017, 7, 15650.	1.6	28
116	Multi-Omics Analyses Show Disease, Diet, and Transcriptome Interactions With the Virome. Gastroenterology, 2021, 161, 1194-1207.e8.	0.6	28
117	Ranolazine inhibits voltage-gated mechanosensitive sodium channels in human colon circular smooth muscle cells. American Journal of Physiology - Renal Physiology, 2015, 309, G506-G512.	1.6	26
118	Gut microbial Î²-glucuronidases regulate host luminal proteases and are depleted in irritable bowel syndrome. Nature Microbiology, 2022, 7, 680-694.	5.9	26
119	Evolving Concepts in the Cellular Control of Gastrointestinal Motility: Neurogastroenterology and Enteric Sciences. Gastroenterology Clinics of North America, 2007, 36, 499-513.	1.0	25
120	Proteomics in gastroparesis: unique and overlapping protein signatures in diabetic and idiopathic gastroparesis. American Journal of Physiology - Renal Physiology, 2019, 317, G716-G726.	1.6	25
121	Non-canonical translation start sites in the TMEM16A chloride channel. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 89-97.	1.4	24
122	Impact of integrated translational research on clinical exome sequencing. Genetics in Medicine, 2021, 23, 498-507.	1.1	24
123	Campylobacter jejuni genotypes are associated with post-infection irritable bowel syndrome in humans. Communications Biology, 2021, 4, 1015.	2.0	24
124	Protein Kinase CÎ³ Mediates Regulation of Proliferation by the Serotonin 5-Hydroxytryptamine Receptor 2B. Journal of Biological Chemistry, 2009, 284, 21177-21184.	1.6	23
125	Interleukin 10 Restores Gastric Emptying, Electrical Activity, andÂInterstitial Cells of Cajal Networks in Diabetic Mice. Cellular and Molecular Gastroenterology and Hepatology, 2016, 2, 454-467.	2.3	23
126	Muscularis Propria Macrophages Alter the Proportion of Nitrergic but Not Cholinergic Gastric Myenteric Neurons. Cellular and Molecular Gastroenterology and Hepatology, 2019, 7, 689-691.e4.	2.3	22

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127	Muscularis macrophages establish cellâ€toâ€cell contacts with telocytes/PDGFRÎ±â€positive cells and smooth muscle cells in the human and mouse gastrointestinal tract. Neurogastroenterology and Motility, 2021, 33, e13993.	1.6	22
128	Mechanotransduction in gastrointestinal smooth muscle cells: role of mechanosensitive ion channels. American Journal of Physiology - Renal Physiology, 2021, 320, G897-G906.	1.6	22
129	T-type Ca²⁺channel modulation by otilonium bromide. American Journal of Physiology - Renal Physiology, 2010, 298, G706-G713.	1.6	21
130	Ranolazine inhibits shear sensitivity of endogenous Na⁺current and spontaneous action potentials in HL-1 cells. Channels, 2012, 6, 457-462.	1.5	21
131	Numerical metrics for automated quantification of interstitial cell of Cajal network structural properties. Journal of the Royal Society Interface, 2013, 10, 20130421.	1.5	21
132	Genome-wide analysis of 944 133 individuals provides insights into the etiology of haemorrhoidal disease. Gut, 2021, 70, 1538-1549.	6.1	21
133	Membrane permeable local anesthetics modulate NaV1.5 mechanosensitivity. Channels, 2012, 6, 308-316.	1.5	20
134	Altered gut microbiota in female mice with persistent low body weights following removal of post-weaning chronic dietary restriction. Genome Medicine, 2016, 8, 103.	3.6	20
135	Outcomes of Ultrasound-Guided Trigger Point Injection for Abdominal Wall Pain. Digestive Diseases and Sciences, 2016, 61, 572-577.	1.1	20
136	Functioning of an arteriovenous fistula requires heme oxygenase-2. American Journal of Physiology - Renal Physiology, 2013, 305, F545-F552.	1.3	19
137	Induction and functional significance of the heme oxygenase system in pathological shear stress in vivo. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H1402-H1413.	1.5	19
138	microRNA overexpression in slow transit constipation leads to reduced Na_V1.5 current and altered smooth muscle contractility. Gut, 2020, 69, 868-876.	6.1	18
139	Repeat polymorphisms in the Homo sapiens heme oxygenase-1 gene in diabetic and idiopathic gastroparesis. PLoS ONE, 2017, 12, e0187772.	1.1	17
140	Characteristics and Risk Factors of Post-Infection Irritable Bowel Syndrome After Campylobacter Enteritis. Clinical Gastroenterology and Hepatology, 2021, 19, 1855-1863.e1.	2.4	17
141	The touchy business of gastrointestinal (GI) mechanosensitivity. Brain Research, 2018, 1693, 197-200.	1.1	16
142	Enhanced and controlled chromatin extraction from FFPE tissues and the application to ChIP-seq. BMC Genomics, 2019, 20, 249.	1.2	16
143	Direct repression of anoctamin 1 (ANO1) gene transcription by Gli proteins. FASEB Journal, 2019, 33, 6632-6642.	0.2	16
144	Genomic Medicine and Incidental Findings: Balancing Actionability and Patient Autonomy. Mayo Clinic Proceedings, 2014, 89, 718-721.	1.4	15

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145	Gastric ablation as a novel technique for modulating electrical conduction in the in vivo stomach. American Journal of Physiology - Renal Physiology, 2021, 320, G573-G585.	1.6	15
146	Progress in Gastroparesis - A Narrative Review of the Work of the Gastroparesis Clinical Research Consortium. Clinical Gastroenterology and Hepatology, 2022, 20, 2684-2695.e3.	2.4	15
147	Hydrogen Sulfide Selectively Potentiates Central Preganglionic Fast Nicotinic Synaptic Input in Mouse Superior Mesenteric Ganglion. Journal of Neuroscience, 2013, 33, 12638-12646.	1.7	14
148	<i>SCN5A</i> mutation G615E results in Na_V1.5 voltage-gated sodium channels with normal voltage-dependent function yet loss of mechanosensitivity. Channels, 2019, 13, 287-298.	1.5	14
149	The influence of interstitial cells of Cajal loss and aging on slow wave conduction velocity in the human stomach. Physiological Reports, 2021, 8, e14659.	0.7	14
150	A novel exon in the human Ca²⁺-activated Cl^{âˆ'} channel Ano1 imparts greater sensitivity to intracellular Ca²⁺. American Journal of Physiology - Renal Physiology, 2015, 309, G743-G749.	1.6	13
151	Effect of Domperidone Therapy on Gastroparesis Symptoms: Results of a Dynamic Cohort Study by NIDDK Gastroparesis Consortium. Clinical Gastroenterology and Hepatology, 2022, 20, e452-e464.	2.4	13
152	Satiety testing in diabetic gastroparesis: Effects of insulin pump therapy with continuous glucose monitoring on upper gastrointestinal symptoms and gastric myoelectrical activity. Neurogastroenterology and Motility, 2020, 32, e13720.	1.6	12
153	Role of Macrophages and Mast Cells as Key Players in the Maintenance of Gastrointestinal Smooth Muscle Homeostasis and Disease. Cellular and Molecular Gastroenterology and Hepatology, 2022, 13, 1849-1862.	2.3	12
154	Assessment of Gastric Emptying in Non-obese Diabetic Mice Using a [¹³C]-octanoic Acid Breath Test. Journal of Visualized Experiments, 2013, , e50301.	0.2	11
155	Whole-Exome Sequencing of 10 Scientists: Evaluation of the Process and Outcomes. Mayo Clinic Proceedings, 2015, 90, 1327-1337.	1.4	10
156	Targeted ablation of gastric pacemaker sites to modulate patterns of bioelectrical slow wave activation and propagation in an anesthetized pig model. American Journal of Physiology - Renal Physiology, 2022, 322, G431-G445.	1.6	10
157	How well do whole exome sequencing results correlate with medical findings? A study of 89 Mayo Clinic Biobank samples. Frontiers in Genetics, 2015, 6, 244.	1.1	9
158	Heme oxygenase-2 protects against ischemic acute kidney injury: influence of age and sex. American Journal of Physiology - Renal Physiology, 2019, 317, F695-F704.	1.3	9
159	Feasibility of High-Resolution Electrical Mapping for Characterizing Conduction Blocks Created by Gastric Ablation. , 2019, 2019, 170-173.		9
160	Wnt-induced, TRP53-mediated Cell Cycle Arrest of Precursors Underlies Interstitial Cell of Cajal Depletion During Aging. Cellular and Molecular Gastroenterology and Hepatology, 2021, 11, 117-145.	2.3	9
161	Endoscopic muscle biopsy sampling of the duodenum and rectum: a pilot survival study in a porcine model to detect myenteric neurons. Gastrointestinal Endoscopy, 2018, 87, 600-606.	0.5	7
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