David R Linden

List of Publications by Year
in descending order

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61 papers	4,900 citations	201575 27 h-index	138417 58 g-index
61 all docs	61 docs citations	61 times ranked	5516 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	Molecular defects in mucosal serotonin content and decreased serotonin reuptake transporter in ulcerative colitis and irritable bowel syndrome 1 â˜†. Gastroenterology, 2004, 126, 1657-1664.	0.6	684
3	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
4	Serotonin availability is increased in mucosa of guinea pigs with TNBS-induced colitis. American Journal of Physiology - Renal Physiology, 2003, 285, G207-G216.	1.6	230
5	Neuroplasticity and dysfunction after gastrointestinal inflammation. Nature Reviews Gastroenterology and Hepatology, 2014, 11, 611-627.	8.2	227
6	CD206-Positive M2 Macrophages That Express Heme Oxygenase-1 Protect Against Diabetic Gastroparesis in Mice. Gastroenterology, 2010, 138, 2399-2409.e1.	0.6	189
7	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
8	Hydrogen Sulfide Signaling in the Gastrointestinal Tract. Antioxidants and Redox Signaling, 2014, 20, 818-830.	2.5	171
9	Enhanced excitability of myenteric AH neurones in the inflamed guineaâ€pig distal colon. Journal of Physiology, 2003, 547, 589-601.	1.3	169
10	Post-inflammatory colonic afferent sensitisation: different subtypes, different pathways and different time courses. Gut, 2009, 58, 1333-1341.	6.1	154
11	Indiscriminate loss of myenteric neurones in the TNBS-inflamed guinea-pig distal colon. Neurogastroenterology and Motility, 2005, 17, 751-760.	1.6	147
12	Production of the gaseous signal molecule hydrogen sulfide in mouse tissues. Journal of Neurochemistry, 2008, 106, 1577-1585.	2.1	127
13	Serotonin transporter function and expression are reduced in mice with TNBS-induced colitis. Neurogastroenterology and Motility, 2005, 17, 565-574.	1.6	126
14	Mechanosensitive ion channel Piezo2 is important for enterochromaffin cell response to mechanical forces. Journal of Physiology, 2017, 595, 79-91.	1.3	121
15	Effects of gastrointestinal inflammation on enteroendocrine cells and enteric neural reflex circuits. Autonomic Neuroscience: Basic and Clinical, 2006, 126-127, 250-257.	1.4	101
16	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
17	Outcome of Whole Exome Sequencing for Diagnostic Odyssey Cases of an Individualized Medicine Clinic. Mayo Clinic Proceedings, 2016, 91, 297-307.	1.4	83
18	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

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19	Change in Populations of Macrophages Promotes Development of Delayed Gastric Emptying in Mice. Gastroenterology, 2018, 154, 2122-2136.e12.	0.6	64
20	Sulphide quinone reductase contributes to hydrogen sulphide metabolism in murine peripheral tissues but not in the CNS. British Journal of Pharmacology, 2012, 165, 2178-2190.	2.7	63
21	Changes in colonic motility and the electrophysiological properties of myenteric neurons persist following recovery from trinitrobenzene sulfonic acid colitis in the guinea pig. Neurogastroenterology and Motility, 2007, 19, 990-1000.	1.6	60
22	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
23	Carbon monoxide reverses diabetic gastroparesis in NOD mice. American Journal of Physiology - Renal Physiology, 2010, 298, G1013-G1019.	1.6	54
24	Measurement of Gastrointestinal and Colonic Motor Functions inÂHumans and Animals. Cellular and Molecular Gastroenterology and Hepatology, 2016, 2, 412-428.	2.3	49
25	Loss of Kitlowprogenitors, reduced stem cell factor and high oxidative stress underlie gastric dysfunction in progeric mice. Journal of Physiology, 2010, 588, 3101-3117.	1.3	44
26	Specialized Mechanosensory Epithelial Cells in Mouse Gut Intrinsic Tactile Sensitivity. Gastroenterology, 2022, 162, 535-547.e13.	0.6	44
27	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
28	Constipation-Predominant Irritable Bowel Syndrome Females Have Normal Colonic Barrier and Secretory Function. American Journal of Gastroenterology, 2017, 112, 913-923.	0.2	33
29	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
30	Generalized neuromuscular hypoplasia, reduced smooth muscle myosin and altered gut motility in the klotho model of premature aging. Neurogastroenterology and Motility, 2011, 23, e309-e323.	1.6	25
31	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
32	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
33	Colitis is associated with a loss of intestinofugal neurons. American Journal of Physiology - Renal Physiology, 2012, 303, G1096-G1104.	1.6	20
34	Effect of endogenous hydrogen sulfide on the transwall gradient of the mouse colon circular smooth muscle. Journal of Physiology, 2014, 592, 1077-1089.	1.3	20
35	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
36	Highâ€fat dietâ€“induced alterations to gut microbiota and gutâ€derived lipoteichoic acid contributes to the development of enteric neuropathy. Neurogastroenterology and Motility, 2020, 32, e13838.	1.6	19

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37	Walker 256 tumorâ€bearing rats demonstrate altered interstitial cells of Cajal. Effects on <scp>ICC</scp> in the Walker 256 tumor model. Neurogastroenterology and Motility, 2016, 28, 101-115.	1.6	17
38	Enhanced excitability of guinea pig inferior mesenteric ganglion neurons during and following recovery from chemical colitis. American Journal of Physiology - Renal Physiology, 2012, 303, G1067-G1075.	1.6	14
39	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
40	Novel promoter and alternate transcription start site of the human serotonin reuptake transporter in intestinal mucosa. Neurogastroenterology and Motility, 2009, 21, 534.	1.6	13
41	A novel exon in the human Ca²⁺-activated Cl^{â^'} channel Ano1 imparts greater sensitivity to intracellular Ca²⁺. American Journal of Physiology - Renal Physiology, 2015, 309, G743-G749.	1.6	13
42	Enhanced excitability of guinea pig ileum myenteric AH neurons during and following recovery from chemical colitis. Neuroscience Letters, 2013, 545, 91-95.	1.0	11
43	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
44	Identification of intrinsic primary afferent neurons in mouse jejunum. Neurogastroenterology and Motility, 2020, 32, e13989.	1.6	11
45	Correlated gene expression encoding serotonin (5â€<scp>HT</scp>) receptor 4 and 5â€<scp>HT</scp> transporter in proximal colonic segments of mice across different colonization states and sexes. Neurogastroenterology and Motility, 2016, 28, 1443-1448.	1.6	10
46	High temporal resolution gastric emptying breath tests in mice. Neurogastroenterology and Motility, 2018, 30, e13333.	1.6	10
47	Duodenal mucosal secretory disturbances in functional dyspepsia. Neurogastroenterology and Motility, 2021, 33, e13955.	1.6	10
48	Passive siRNA transfection method for gene knockdown in air-liquid interface airway epithelial cell cultures. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 321, L280-L286.	1.3	10
49	Differential effects in CGRPergic, nitrergic, and VIPergic myenteric innervation in diabetic rats supplemented with 2% L-glutamine. Anais Da Academia Brasileira De Ciencias, 2016, 88, 609-622.	0.3	9
50	Cell Intrinsic Deregulated ÃŸ-Catenin Signaling Promotes Expansion of Bone Marrow Derived Connective Tissue Type Mast Cells, Systemic Inflammation, and Colon Cancer. Frontiers in Immunology, 2019, 10, 2777.	2.2	9
51	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
52	Changes in nitrergic and tachykininergic pathways in rat proximal colon in response to chronic treatment with otilonium bromide. Neurogastroenterology and Motility, 2015, 27, 997-1009.	1.6	8
53	A simple automated approach to measure mouse whole gut transit. Neurogastroenterology and Motility, 2021, 33, e13994.	1.6	7
54	Colitis: it is not just for the colon anymore. British Journal of Pharmacology, 2003, 139, 185-186.	2.7	6

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55	A gamma variate model that includes stretched exponential is a better fit for gastric emptying data from mice. American Journal of Physiology - Renal Physiology, 2015, 309, G162-G170.	1.6	5
56	Extracellular Cl^{â^'} regulates electrical slow waves and setting of smooth muscle membrane potential by interstitial cells of Cajal in mouse jejunum. Experimental Physiology, 2018, 103, 40-57.	0.9	5
57	Expression of RAD21 immunoreactivity in myenteric neurons of the human and mouse small intestine. Neurogastroenterology and Motility, 2018, 30, e13429.	1.6	3
58	Enteric Glial Networks Visualized using SOX10 Fluorescent Reporter in Opticallyâ€Cleared Full Thickness Intestinal Tissues. FASEB Journal, 2020, 34, 1-1.	0.2	1
59	Bicarbonate ion transport by the electrogenic Na + /HCO 3 â^' cotransporter, NBCe1, is required for normal electrical slowâ€wave activity in mouse small intestine. Neurogastroenterology and Motility, 2021, 33, e14149.	1.6	0
60	Localized reductions in the expression of connexinâ€43 are associated with segmental boundaries in the guinea pig ileum. FASEB Journal, 2011, 25, .	0.2	0
61	Epithelial Mechanosensitive Ion Channel Piezo2 Contributes to Pressureâ€Induced Epithelial Chloride Secretion in Mouse Colon. FASEB Journal, 2020, 34, 1-1.	0.2	0