Martin Diener

List of Publications by Year
in descending order

100	1,910	257450	315739
papers	citations	24 h-index	38 g-index

101	101	101	1268
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Calcium- and cyclic-AMP-mediated secretory responses in isolated colonic crypts. Pflugers Archiv European Journal of Physiology, 1991, 419, 144-151.	2.8	103
2	Evidence against direct activation of chloride secretion by carbachol in the rat distal colon. European Journal of Pharmacology, 1995, 274, 181-191.	3.5	91
3	Chemical coding and chemosensory properties of cholinergic brush cells in the mouse gastrointestinal and biliary tract. Frontiers in Physiology, 2015, 6, 87.	2.8	91
4	Single chloride channels in colon mucosa and isolated colonic enterocytes of the rat. Journal of Membrane Biology, 1989, 108, 21-30.	2.1	77
5	Regulation of apical and basolateral K+ conductances in the rat colon. British Journal of Pharmacology, 1997, 122, 87-94.	5.4	56
6	Cyclic AMPâ€dependent regulation of K⁺ transport in the rat distal colon. British Journal of Pharmacology, 1996, 118, 1477-1487.	5.4	50
7	Actions of hydrogen sulphide on ion transport across rat distal colon. British Journal of Pharmacology, 2009, 158, 1263-1275.	5.4	50
8	Cholinergic-mediated secretion in the rat colon: neuronal and epithelial muscarinic responses. European Journal of Pharmacology, 1989, 168, 219-229.	3.5	49
9	Segment-specific effects of epinephrine on ion transport in the colon of the rat. American Journal of Physiology - Renal Physiology, 1998, 275, G1367-G1376.	3.4	47
10	Phospholipase C-induced anion secretion and its interaction with carbachol in the rat colonie mucosa. European Journal of Pharmacology, 1991, 200, 267-276.	3.5	45
11	Distension-induced secretion in the rat colon: mediation by prostaglandins and submucosal neurons. European Journal of Pharmacology, 1990, 178, 47-57.	3.5	44
12	Activation of basolateral Cl? channels in the rat colonic epithelium during regulatory volume decrease. Pflugers Archiv European Journal of Physiology, 1992, 421, 530-538.	2.8	43
13	Neuronally mediated and direct effects of prostaglandins on ion transport in rat colon descendens. Naunyn-Schmiedeberg's Archives of Pharmacology, 1988, 337, 74-8.	3.0	38
14	Actions of the CI^{â€} channel blocker NPPB on absorptive and secretory transport processes of Na⁺ and CI^{â€} in rat descending colon. Acta Physiologica Scandinavica, 1989, 137, 215-222.	2.2	38
15	Segment-specific effects of the heat-stable enterotoxin of E. coli on electrolyte transport in the rat coton. European Journal of Pharmacology, 1991, 202, 201-211.	3.5	36
16	K+ and Clâ¯ Conductances in the Distal Colon of the Rat. General Pharmacology, 1998, 31, 337-342.	0.7	35
17	Muscarinic Receptor Stimulation Activates a Ca2+-dependent Cl- Conductance in Rat Distal Colon. Journal of Membrane Biology, 2005, 204, 117-127.	2.1	35
18	Epithelial muscarinic M1 receptors contribute to carbachol-induced ion secretion in mouse colon. European Journal of Pharmacology, 2006, 530, 229-233.	3.5	34

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19	Effect of butyrate on membrane potential, ionic currents and intracellular Ca2+ concentration in cultured rat myenteric neurones. Neurogastroenterology and Motility, 2002, 14, 133-142.	3.0	33
20	TNF-alpha hyperpolarizes membrane potential and potentiates the response to nicotinic receptor stimulation in cultured rat myenteric neurones. Acta Physiologica Scandinavica, 2004, 181, 13-22.	2.2	32
21	Mechanisms of actions of hydrogen sulphide on rat distal colonic epithelium. British Journal of Pharmacology, 2011, 162, 392-404.	5.4	31
22	Histamine-induced ion secretion across rat distal colon: Involvement of histamine H1 and H2 receptors. European Journal of Pharmacology, 2006, 546, 161-170.	3.5	30
23	Direct and indirect actions of HgCl2 and methyl mercury chloride on permeability and chloride secretion across the rat colonic mucosa. Toxicology and Applied Pharmacology, 1992, 114, 285-294.	2.8	26
24	Ca 2+ -Induced Clâ˜ Efflux at Rat Distal Colonic Epithelium. Journal of Membrane Biology, 2008, 221, 61-72.	2.1	24
25	Adrenoceptor-mediated secretion across the rat colonic epithelium. European Journal of Pharmacology, 2000, 403, 251-258.	3.5	23
26	Activation of Apical K + Conductances by Muscarinic Receptor Stimulation in Rat Distal Colon: Fast and Slow Components. Journal of Membrane Biology, 2003, 195, 183-196.	2.1	23
27	Regulation of Colonic Ion Transport by Gasotransmitters. Biological and Pharmaceutical Bulletin, 2011, 34, 789-793.	1.4	23
28	Choline acetyltransferase and organic cation transporters are responsible for synthesis and propionate-induced release of acetylcholine in colon epithelium. European Journal of Pharmacology, 2014, 733, 23-33.	3.5	23
29	The bumetanide-resistant part of forskolin-induced anion secretion in rat colon. Acta Physiologica Scandinavica, 1998, 164, 219-28.	2.2	22
30	Methods for the study of ionic currents and Ca2+-signals in isolated colonic crypts. Biological Procedures Online, 2001, 3, 70-78.	2.9	20
31	Mechanism of butyrate-induced hyperpolarization of cultured rat myenteric neurones. Neurogastroenterology and Motility, 2004, 16, 597-604.	3.0	20
32	Effects of H2O2 at rat myenteric neurones in culture. European Journal of Pharmacology, 2009, 615, 40-49.	3.5	20
33	Fatty acids inhibit anion secretion in rat colon: apical and basolateral action sites. Pflugers Archiv European Journal of Physiology, 2001, 442, 603-613.	2.8	19
34	The role of volumeâ€sensitive Cl channels in the stimulation of chloride absorption by shortâ€chain fatty acids in the rat colon. Acta Physiologica Scandinavica, 1994, 151, 385-394.	2.2	18
35	Effects of dopamine on ion transport across the rat distal colon. Pflugers Archiv European Journal of Physiology, 2004, 448, 605-612.	2.8	18
36	Characterization of inositol 1,4,5-trisphosphate (IP3) receptor subtypes at rat colonic epithelium. Cell Calcium, 2007, 41, 303-315.	2.4	18

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37	Effects of carbon monoxide on ion transport across rat distal colon. American Journal of Physiology - Renal Physiology, 2011, 300, G207-G216.	3.4	18
38	Isolation, enrichment and primary characterisation of vitelline cells from Schistosoma mansoni obtained by the organ isolation method. International Journal for Parasitology, 2015, 45, 663-672.	3.1	18
39	Interaction Between Store-Operated Non-Selective Cation Channels and the Na+ -Ca2+ Exchanger During Secretion in the Rat Colon. Experimental Physiology, 2001, 86, 461-468.	2.0	17
40	Novel aspects of cholinergic regulation of colonic ion transport. Pharmacology Research and Perspectives, 2015, 3, e00139.	2.4	17
41	The orphan solute carrier SLC10A7 is a novel negative regulator of intracellular calcium signaling. Scientific Reports, 2020, 10, 7248.	3.3	17
42	Communication between mast cells and rat submucosal neurons. Pflugers Archiv European Journal of Physiology, 2015, 467, 1809-1823.	2.8	16
43	Electrogenic Ca2+ entry in the rat colonic epithelium. Pflugers Archiv European Journal of Physiology, 1999, 439, 39-48.	2.8	15
44	Involvement of calmodulin and protein kinase C in the regulation of K+ transport by carbachol across the rat distal colon. European Journal of Pharmacology, 1999, 377, 75-80.	3.5	14
45	ATP-sensitive K+ channels in rat colonic epithelium. Pflugers Archiv European Journal of Physiology, 2013, 465, 865-877.	2.8	14
46	Characterization of the antisecretory action of prostaglandin D₂ in the rat colon. Acta Physiologica Scandinavica, 1992, 145, 19-24.	2.2	13
47	Electrogenic Ca 2+ entry in the rat colonic epithelium. Pflugers Archiv European Journal of Physiology, 1999, 439, 39-48.	2.8	13
48	Inhibition of Spontaneous Smooth Muscle Contractions in Rat and Rabbit Intestine by Blockers of the Thromboxane A2 Pathway. Transboundary and Emerging Diseases, 1999, 46, 123-132.	0.6	13
49	Ryanodine receptors and the mediation of Ca 2+ -dependent anion secretion across rat colon. Pflugers Archiv European Journal of Physiology, 2002, 445, 390-397.	2.8	13
50	Characterization of ryanodine receptors in rat colonic epithelium. Acta Physiologica, 2008, 193, 151-162.	3.8	13
51	Stimulation of colonic anion secretion by monochloramine: action sites. Pflugers Archiv European Journal of Physiology, 2005, 449, 553-563.	2.8	12
52	Acute exercises induce disorders of the gastrointestinal integrity in a murine model. European Journal of Applied Physiology, 2014, 114, 609-617.	2.5	12
53	Epithelial propionylâ€•and butyrylcholine as novel regulators of colonic ion transport. British Journal of Pharmacology, 2016, 173, 2766-2779.	5.4	12
54	Histo- and Immunocytochemical Characterization of the Neurons of the Mucosal Plexus in the Rat Colon. Cells Tissues Organs, 1992, 143, 268-274.	2.3	11

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55	Ca2+-dependent and -independent Clâ^' secretion stimulated by the nitric oxide donor, GEA 3162, in rat colonic epithelium. European Journal of Pharmacology, 2002, 444, 21-30.	3.5	11
56	Thromboxaneâ€like actions of prostaglandin D₂ on the contractility of the rat colon in vitro. Acta Physiologica Scandinavica, 1994, 150, 95-101.	2.2	10
57	Spontaneous Contractions of Intestinal Smooth Muscle Re-aggregates from the New-born Rat Triggered by Thromboxane A2. Transboundary and Emerging Diseases, 2000, 47, 469-475.	0.6	10
58	Cell volume-induced changes in K+ transport across the rat colon. Acta Physiologica Scandinavica, 2001, 171, 445-458.	2.2	10
59	Distribution of voltage-dependent and intracellular Ca2+ channels in submucosal neurons from rat distal colon. Cell and Tissue Research, 2013, 353, 355-366.	2.9	10
60	Segmental differences in the non-neuronal cholinergic system in rat caecum. Pflugers Archiv European Journal of Physiology, 2018, 470, 669-679.	2.8	10
61	Neuronally mediated anion secretion induced by short-chain fatty acids in the rat distal small intestine. Acta Physiologica Scandinavica, 1996, 157, 33-40.	2.2	9
62	Inhibition of a K+ conductance by the phosphatase inhibitor calyculin A in rat distal colon. European Journal of Pharmacology, 1998, 349, 89-95.	3.5	9
63	STIM1-Regulated Ca2+ Influx across the Apical and the Basolateral Membrane in Colonic Epithelium. Journal of Membrane Biology, 2013, 246, 271-285.	2.1	9
64	Actions of Angeli's salt, a nitroxyl (HNO) donor, on ion transport across mucosaâ€"submucosa preparations from rat distal colon. European Journal of Pharmacology, 2013, 715, 133-141.	3.5	9
65	Effects of multivalent histamine supported on gold nanoparticles: activation of histamine receptors by derivatized histamine at subnanomolar concentrations. Organic and Biomolecular Chemistry, 2015, 13, 9984-9992.	2.8	9
66	Stimulation of Na⁺â€K⁺â€pump currents by epithelial nicotinic receptors in rat colon. British Journal of Pharmacology, 2017, 174, 880-892.	5.4	9
67	Storage of glycogen in rat colonic epithelium during induction of secretion and absorption in vitro. Cell and Tissue Research, 1990, 261, 195-203.	2.9	8
68	Modulation of ion transport across rat distal colon by cysteine. Frontiers in Physiology, 2012, 3, 43.	2.8	8
69	The epidermal growth factor-pathway is not involved in down-regulation of Ca2+-induced Clâ^' secretion in rat distal colon. European Journal of Pharmacology, 2005, 512, 67-71.	3.5	7
70	Upregulation of cyclooxygenase-2 and thromboxane A2 production mediate the action of tumor necrosis factor-Î± in isolated rat myenteric ganglia. American Journal of Physiology - Renal Physiology, 2005, 289, G586-G591.	3.4	7
71	Bradykinin-induced depolarisation and Ca2+ influx through voltage-gated Ca2+ channels in rat submucosal neurons. European Journal of Pharmacology, 2010, 635, 87-95.	3.5	7
72	Hypoxia/Reoxygenation Effects on Ion Transport across Rat Colonic Epithelium. Frontiers in Physiology, 2016, 7, 247.	2.8	7

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73	Dynamic Extracellular Imaging of Biochemical Cell Activity Using InGaN/GaN Nanowire Arrays as Nanophotonic Probes. Advanced Functional Materials, 2018, 28, 1802503.	14.9	7
74	Robustness of the non-neuronal cholinergic system in rat large intestine against luminal challenges. Pflugers Archiv European Journal of Physiology, 2019, 471, 605-618.	2.8	7
75	Inhibition of Antigenâ€Induced Muscle Contractions byâ€Inhibitors of Thromboxane Pathway in Rat Small Intestine. Transboundary and Emerging Diseases, 1997, 44, 349-359.	0.6	6
76	Stimulation of voltage-dependent Ca2+ channels by NO at rat myenteric neurons. American Journal of Physiology - Renal Physiology, 2007, 293, G886-G893.	3.4	6
77	Sites of action of hydrogen peroxide on ion transport across rat distal colon. British Journal of Pharmacology, 2008, 154, 991-1000.	5.4	6
78	Anion secretion evoked by Pasteurella multocida toxin across rat colon. European Journal of Pharmacology, 2008, 583, 156-163.	3.5	6
79	Interactions between rat submucosal neurons and mast cells are modified by cytokines and neurotransmitters. European Journal of Pharmacology, 2019, 864, 172713.	3.5	6
80	Segmental differences in ion transport in rat cecum. Pflugers Archiv European Journal of Physiology, 2019, 471, 1007-1023.	2.8	6
81	Modulation by fish oil diet of eicosanoid-induced anion secretion in the rat distal colon. European Journal of Nutrition, 1996, 35, 323-331.	4.6	5
82	Multiple action sites of flufenamate on ion transport across the rat distal colon. British Journal of Pharmacology, 2000, 130, 875-885.	5.4	5
83	In situ monitoring of myenteric neuron activity using acetylcholinesterase-modified AlGaN/GaN solution-gate field-effect transistors. Biosensors and Bioelectronics, 2016, 77, 1048-1054.	10.1	5
84	Evidence for metabotropic function of epithelial nicotinic cholinergic receptors in rat colon. British Journal of Pharmacology, 2019, 176, 1328-1340.	5.4	5
85	Impact of Sensitization and Inflammation on the Interaction of Mast Cells With the Intestinal Epithelium in Rats. Frontiers in Physiology, 2019, 10, 329.	2.8	5
86	Effect of the stable thromboxane derivative, carbocyclic thromboxane A2, on membrane potential of rat myenteric neurones in culture. Neurogastroenterology and Motility, 2006, 18, 1084-1092.	3.0	4
87	Effects of bradykinin B2 receptor stimulation at submucosal ganglia from rat distal colon. European Journal of Pharmacology, 2010, 627, 295-303.	3.5	4
88	Altered response to hydrogen sulphide during experimental colitis in rats. Journal of Animal Physiology and Animal Nutrition, 2013, 97, 942-950.	2.2	4
89	Receptors and mechanisms mediating the biphasic response evoked by bradykinin in rat colonic smooth muscle. Neurogastroenterology and Motility, 2013, 25, e581-90.	3.0	4
90	Short-chain fatty acid receptors involved in epithelial acetylcholine release in rat caecum. European Journal of Pharmacology, 2021, 906, 174292.	3.5	4

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91	Pharmacological characterisation of voltage-dependent Ca2+ channels in isolated ganglia from the myenteric plexus. Life Sciences, 2005, 77, 2489-2499.	4.3	2
92	Cysteinyl leukotrienes mediate the response of submucosal ganglia from rat colon to bradykinin. European Journal of Pharmacology, 2012, 681, 100-106.	3.5	2
93	Roadblock for antigens â€“ take a detour via M cells. Acta Physiologica, 2016, 216, 13-14.	3.8	2
94	Sensing osmolarity: a new player on the field. Journal of Physiology, 2020, 598, 5297-5298.	2.9	2
95	The role of HCO3â€“ in propionate-induced anion secretion across rat caecal epithelium. Pflugers Archiv European Journal of Physiology, 2021, 473, 937-951.	2.8	2
96	Multivalent stimulation of Î²₁-, but not Î²₂-receptors by adrenaline functionalised gold nanoparticles. Nanoscale Advances, 2022, 4, 3182-3193.	4.6	2
97	The effect of bradykinin on the electrical activity of rat myenteric neurons. European Journal of Pharmacology, 2014, 738, 158-169.	3.5	1
98	New ways for an old cation. Pflugers Archiv European Journal of Physiology, 2020, 472, 669-670.	2.8	0
99	Characterization of Cecal Smooth Muscle Contraction in Laying Hens. Veterinary Sciences, 2021, 8, 91.	1.7	0
100	How to manage N waste in the intestine?. Acta Physiologica, 2021, 233, e13711.	3.8	0