

# Martin Diener

## List of Publications by Year in descending order

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100  
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1,910  
citations

257101

24  
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315357

38  
g-index

101  
all docs

101  
docs citations

101  
times ranked

1268  
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.	1.3	103
2	Evidence against direct activation of chloride secretion by carbachol in the rat distal colon. European Journal of Pharmacology, 1995, 274, 181-191.	1.7	91
3	Chemical coding and chemosensory properties of cholinergic brush cells in the mouse gastrointestinal and biliary tract. Frontiers in Physiology, 2015, 6, 87.	1.3	91
4	Single chloride channels in colon mucosa and isolated colonic enterocytes of the rat. Journal of Membrane Biology, 1989, 108, 21-30.	1.0	77
5	Regulation of apical and basolateral K <sup>+</sup> conductances in the rat colon. British Journal of Pharmacology, 1997, 122, 87-94.	2.7	56
6	Cyclic AMP-dependent regulation of K <sup>+</sup> transport in the rat distal colon. British Journal of Pharmacology, 1996, 118, 1477-1487.	2.7	50
7	Actions of hydrogen sulphide on ion transport across rat distal colon. British Journal of Pharmacology, 2009, 158, 1263-1275.	2.7	50
8	Cholinergic-mediated secretion in the rat colon: neuronal and epithelial muscarinic responses. European Journal of Pharmacology, 1989, 168, 219-229.	1.7	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.	1.6	47
10	Phospholipase C-induced anion secretion and its interaction with carbachol in the rat colonic mucosa. European Journal of Pharmacology, 1991, 200, 267-276.	1.7	45
11	Distension-induced secretion in the rat colon: mediation by prostaglandins and submucosal neurons. European Journal of Pharmacology, 1990, 178, 47-57.	1.7	44
12	Activation of basolateral Cl <sup>-</sup> channels in the rat colonic epithelium during regulatory volume decrease. Pflugers Archiv European Journal of Physiology, 1992, 421, 530-538.	1.3	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.	1.4	38
14	Actions of the Cl <sup>-</sup> channel blocker NPPB on absorptive and secretory transport processes of Na <sup>+</sup> and Cl <sup>-</sup> in rat descending colon. Acta Physiologica Scandinavica, 1989, 137, 215-222.	2.3	38
15	Segment-specific effects of the heat-stable enterotoxin of E. coli on electrolyte transport in the rat colon. European Journal of Pharmacology, 1991, 202, 201-211.	1.7	36
16	K <sup>+</sup> and Cl <sup>-</sup> Conductances in the Distal Colon of the Rat. General Pharmacology, 1998, 31, 337-342.	0.7	35
17	Muscarinic Receptor Stimulation Activates a Ca <sup>2+</sup> -dependent Cl <sup>-</sup> Conductance in Rat Distal Colon. Journal of Membrane Biology, 2005, 204, 117-127.	1.0	35
18	Epithelial muscarinic M1 receptors contribute to carbachol-induced ion secretion in mouse colon. European Journal of Pharmacology, 2006, 530, 229-233.	1.7	34

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19	Effect of butyrate on membrane potential, ionic currents and intracellular Ca <sup>2+</sup> concentration in cultured rat myenteric neurones. <i>Neurogastroenterology and Motility</i> , 2002, 14, 133-142.	1.6	33
20	TNF-alpha hyperpolarizes membrane potential and potentiates the response to nicotinic receptor stimulation in cultured rat myenteric neurones. <i>Acta Physiologica Scandinavica</i> , 2004, 181, 13-22.	2.3	32
21	Mechanisms of actions of hydrogen sulphide on rat distal colonic epithelium. <i>British Journal of Pharmacology</i> , 2011, 162, 392-404.	2.7	31
22	Histamine-induced ion secretion across rat distal colon: Involvement of histamine H1 and H2 receptors. <i>European Journal of Pharmacology</i> , 2006, 546, 161-170.	1.7	30
23	Direct and indirect actions of HgCl <sub>2</sub> and methyl mercury chloride on permeability and chloride secretion across the rat colonic mucosa. <i>Toxicology and Applied Pharmacology</i> , 1992, 114, 285-294.	1.3	26
24	Ca <sup>2+</sup> -Induced Cl <sup>-</sup> Efflux at Rat Distal Colonic Epithelium. <i>Journal of Membrane Biology</i> , 2008, 221, 61-72.	1.0	24
25	Adrenoceptor-mediated secretion across the rat colonic epithelium. <i>European Journal of Pharmacology</i> , 2000, 403, 251-258.	1.7	23
26	Activation of Apical K <sup>+</sup> Conductances by Muscarinic Receptor Stimulation in Rat Distal Colon: Fast and Slow Components. <i>Journal of Membrane Biology</i> , 2003, 195, 183-196.	1.0	23
27	Regulation of Colonic Ion Transport by Gasotransmitters. <i>Biological and Pharmaceutical Bulletin</i> , 2011, 34, 789-793.	0.6	23
28	Choline acetyltransferase and organic cation transporters are responsible for synthesis and propionate-induced release of acetylcholine in colon epithelium. <i>European Journal of Pharmacology</i> , 2014, 733, 23-33.	1.7	23
29	The bumetanide-resistant part of forskolin-induced anion secretion in rat colon. <i>Acta Physiologica Scandinavica</i> , 1998, 164, 219-28.	2.3	22
30	Methods for the study of ionic currents and Ca <sup>2+</sup> -signals in isolated colonic crypts. <i>Biological Procedures Online</i> , 2001, 3, 70-78.	1.4	20
31	Mechanism of butyrate-induced hyperpolarization of cultured rat myenteric neurones. <i>Neurogastroenterology and Motility</i> , 2004, 16, 597-604.	1.6	20
32	Effects of H <sub>2</sub> O <sub>2</sub> at rat myenteric neurones in culture. <i>European Journal of Pharmacology</i> , 2009, 615, 40-49.	1.7	20
33	Fatty acids inhibit anion secretion in rat colon: apical and basolateral action sites. <i>Pflugers Archiv European Journal of Physiology</i> , 2001, 442, 603-613.	1.3	19
34	The role of volume-sensitive Cl channels in the stimulation of chloride absorption by short-chain fatty acids in the rat colon. <i>Acta Physiologica Scandinavica</i> , 1994, 151, 385-394.	2.3	18
35	Effects of dopamine on ion transport across the rat distal colon. <i>Pflugers Archiv European Journal of Physiology</i> , 2004, 448, 605-612.	1.3	18
36	Characterization of inositol 1,4,5-trisphosphate (IP <sub>3</sub> ) receptor subtypes at rat colonic epithelium. <i>Cell Calcium</i> , 2007, 41, 303-315.	1.1	18

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37	Effects of carbon monoxide on ion transport across rat distal colon. <i>American Journal of Physiology - Renal Physiology</i> , 2011, 300, G207-G216.	1.6	18
38	Isolation, enrichment and primary characterisation of vitelline cells from <i>Schistosoma mansoni</i> obtained by the organ isolation method. <i>International Journal for Parasitology</i> , 2015, 45, 663-672.	1.3	18
39	Interaction Between Store-Operated Non-Selective Cation Channels and the Na <sup>+</sup> -Ca <sup>2+</sup> Exchanger During Secretion in the Rat Colon. <i>Experimental Physiology</i> , 2001, 86, 461-468.	0.9	17
40	Novel aspects of cholinergic regulation of colonic ion transport. <i>Pharmacology Research and Perspectives</i> , 2015, 3, e00139.	1.1	17
41	The orphan solute carrier SLC10A7 is a novel negative regulator of intracellular calcium signaling. <i>Scientific Reports</i> , 2020, 10, 7248.	1.6	17
42	Communication between mast cells and rat submucosal neurons. <i>Pflugers Archiv European Journal of Physiology</i> , 2015, 467, 1809-1823.	1.3	16
43	Electrogenic Ca <sup>2+</sup> entry in the rat colonic epithelium. <i>Pflugers Archiv European Journal of Physiology</i> , 1999, 439, 39-48.	1.3	15
44	Involvement of calmodulin and protein kinase C in the regulation of K <sup>+</sup> transport by carbachol across the rat distal colon. <i>European Journal of Pharmacology</i> , 1999, 377, 75-80.	1.7	14
45	ATP-sensitive K <sup>+</sup> channels in rat colonic epithelium. <i>Pflugers Archiv European Journal of Physiology</i> , 2013, 465, 865-877.	1.3	14
46	Characterization of the antisecretory action of prostaglandin D <sub>2</sub> in the rat colon. <i>Acta Physiologica Scandinavica</i> , 1992, 145, 19-24.	2.3	13
47	Electrogenic Ca <sup>2+</sup> entry in the rat colonic epithelium. <i>Pflugers Archiv European Journal of Physiology</i> , 1999, 439, 39-48.	1.3	13
48	Inhibition of Spontaneous Smooth Muscle Contractions in Rat and Rabbit Intestine by Blockers of the Thromboxane A2 Pathway. <i>Transboundary and Emerging Diseases</i> , 1999, 46, 123-132.	0.6	13
49	Ryanodine receptors and the mediation of Ca <sup>2+</sup> -dependent anion secretion across rat colon. <i>Pflugers Archiv European Journal of Physiology</i> , 2002, 445, 390-397.	1.3	13
50	Characterization of ryanodine receptors in rat colonic epithelium. <i>Acta Physiologica</i> , 2008, 193, 151-162.	1.8	13
51	Stimulation of colonic anion secretion by monochloramine: action sites. <i>Pflugers Archiv European Journal of Physiology</i> , 2005, 449, 553-563.	1.3	12
52	Acute exercises induce disorders of the gastrointestinal integrity in a murine model. <i>European Journal of Applied Physiology</i> , 2014, 114, 609-617.	1.2	12
53	Epithelial propionyl- and butyrylcholine as novel regulators of colonic ion transport. <i>British Journal of Pharmacology</i> , 2016, 173, 2766-2779.	2.7	12
54	Histo- and Immunocytochemical Characterization of the Neurons of the Mucosal Plexus in the Rat Colon. <i>Cells Tissues Organs</i> , 1992, 143, 268-274.	1.3	11

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55	Ca <sup>2+</sup> -dependent and -independent Cl <sup>-</sup> secretion stimulated by the nitric oxide donor, GEA 3162, in rat colonic epithelium. <i>European Journal of Pharmacology</i> , 2002, 444, 21-30.	1.7	11
56	Thromboxane-like actions of prostaglandin D <sub>2</sub> on the contractility of the rat colon <i>in vitro</i> . <i>Acta Physiologica Scandinavica</i> , 1994, 150, 95-101.	2.3	10
57	Spontaneous Contractions of Intestinal Smooth Muscle Re-aggregates from the New-born Rat Triggered by Thromboxane A <sub>2</sub> . <i>Transboundary and Emerging Diseases</i> , 2000, 47, 469-475.	0.6	10
58	Cell volume-induced changes in K <sup>+</sup> transport across the rat colon. <i>Acta Physiologica Scandinavica</i> , 2001, 171, 445-458.	2.3	10
59	Distribution of voltage-dependent and intracellular Ca <sup>2+</sup> channels in submucosal neurons from rat distal colon. <i>Cell and Tissue Research</i> , 2013, 353, 355-366.	1.5	10
60	Segmental differences in the non-neuronal cholinergic system in rat caecum. <i>Pflugers Archiv European Journal of Physiology</i> , 2018, 470, 669-679.	1.3	10
61	Neuronally mediated anion secretion induced by short-chain fatty acids in the rat distal small intestine. <i>Acta Physiologica Scandinavica</i> , 1996, 157, 33-40.	2.3	9
62	Inhibition of a K <sup>+</sup> conductance by the phosphatase inhibitor calyculin A in rat distal colon. <i>European Journal of Pharmacology</i> , 1998, 349, 89-95.	1.7	9
63	STIM1-Regulated Ca <sup>2+</sup> Influx across the Apical and the Basolateral Membrane in Colonic Epithelium. <i>Journal of Membrane Biology</i> , 2013, 246, 271-285.	1.0	9
64	Actions of Angeli's salt, a nitroxyl (HNO) donor, on ion transport across mucosa-submucosa preparations from rat distal colon. <i>European Journal of Pharmacology</i> , 2013, 715, 133-141.	1.7	9
65	Effects of multivalent histamine supported on gold nanoparticles: activation of histamine receptors by derivatized histamine at subnanomolar concentrations. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 9984-9992.	1.5	9
66	Stimulation of Na <sup>+</sup> -K <sup>+</sup> pump currents by epithelial nicotinic receptors in rat colon. <i>British Journal of Pharmacology</i> , 2017, 174, 880-892.	2.7	9
67	Storage of glycogen in rat colonic epithelium during induction of secretion and absorption <i>in vitro</i> . <i>Cell and Tissue Research</i> , 1990, 261, 195-203.	1.5	8
68	Modulation of ion transport across rat distal colon by cysteine. <i>Frontiers in Physiology</i> , 2012, 3, 43.	1.3	8
69	The epidermal growth factor-pathway is not involved in down-regulation of Ca <sup>2+</sup> -induced Cl <sup>-</sup> secretion in rat distal colon. <i>European Journal of Pharmacology</i> , 2005, 512, 67-71.	1.7	7
70	Upregulation of cyclooxygenase-2 and thromboxane A <sub>2</sub> production mediate the action of tumor necrosis factor- $\alpha$ in isolated rat myenteric ganglia. <i>American Journal of Physiology - Renal Physiology</i> , 2005, 289, G586-G591.	1.6	7
71	Bradykinin-induced depolarisation and Ca <sup>2+</sup> influx through voltage-gated Ca <sup>2+</sup> channels in rat submucosal neurons. <i>European Journal of Pharmacology</i> , 2010, 635, 87-95.	1.7	7
72	Hypoxia/Reoxygenation Effects on Ion Transport across Rat Colonic Epithelium. <i>Frontiers in Physiology</i> , 2016, 7, 247.	1.3	7

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73	Dynamic Extracellular Imaging of Biochemical Cell Activity Using InGaN/GaN Nanowire Arrays as Nanophotonic Probes. <i>Advanced Functional Materials</i> , 2018, 28, 1802503.	7.8	7
74	Robustness of the non-neuronal cholinergic system in rat large intestine against luminal challenges. <i>Pflügers Archiv European Journal of Physiology</i> , 2019, 471, 605-618.	1.3	7
75	Inhibition of Antigen-Induced Muscle Contractions by Inhibitors of Thromboxane Pathway in Rat Small Intestine. <i>Transboundary and Emerging Diseases</i> , 1997, 44, 349-359.	0.6	6
76	Stimulation of voltage-dependent Ca <sup>2+</sup> channels by NO at rat myenteric neurons. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 293, G886-G893.	1.6	6
77	Sites of action of hydrogen peroxide on ion transport across rat distal colon. <i>British Journal of Pharmacology</i> , 2008, 154, 991-1000.	2.7	6
78	Anion secretion evoked by <i>Pasteurella multocida</i> toxin across rat colon. <i>European Journal of Pharmacology</i> , 2008, 583, 156-163.	1.7	6
79	Interactions between rat submucosal neurons and mast cells are modified by cytokines and neurotransmitters. <i>European Journal of Pharmacology</i> , 2019, 864, 172713.	1.7	6
80	Segmental differences in ion transport in rat cecum. <i>Pflügers Archiv European Journal of Physiology</i> , 2019, 471, 1007-1023.	1.3	6
81	Modulation by fish oil diet of eicosanoid-induced anion secretion in the rat distal colon. <i>European Journal of Nutrition</i> , 1996, 35, 323-331.	4.6	5
82	Multiple action sites of flufenamate on ion transport across the rat distal colon. <i>British Journal of Pharmacology</i> , 2000, 130, 875-885.	2.7	5
83	In situ monitoring of myenteric neuron activity using acetylcholinesterase-modified AlGaIn/GaN solution-gate field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2016, 77, 1048-1054.	5.3	5
84	Evidence for metabotropic function of epithelial nicotinic cholinergic receptors in rat colon. <i>British Journal of Pharmacology</i> , 2019, 176, 1328-1340.	2.7	5
85	Impact of Sensitization and Inflammation on the Interaction of Mast Cells With the Intestinal Epithelium in Rats. <i>Frontiers in Physiology</i> , 2019, 10, 329.	1.3	5
86	Effect of the stable thromboxane derivative, carbocyclic thromboxane A <sub>2</sub> , on membrane potential of rat myenteric neurones in culture. <i>Neurogastroenterology and Motility</i> , 2006, 18, 1084-1092.	1.6	4
87	Effects of bradykinin B <sub>2</sub> receptor stimulation at submucosal ganglia from rat distal colon. <i>European Journal of Pharmacology</i> , 2010, 627, 295-303.	1.7	4
88	Altered response to hydrogen sulphide during experimental colitis in rats. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2013, 97, 942-950.	1.0	4
89	Receptors and mechanisms mediating the biphasic response evoked by bradykinin in rat colonic smooth muscle. <i>Neurogastroenterology and Motility</i> , 2013, 25, e581-90.	1.6	4
90	Short-chain fatty acid receptors involved in epithelial acetylcholine release in rat caecum. <i>European Journal of Pharmacology</i> , 2021, 906, 174292.	1.7	4

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91	Pharmacological characterisation of voltage-dependent Ca <sup>2+</sup> channels in isolated ganglia from the myenteric plexus. <i>Life Sciences</i> , 2005, 77, 2489-2499.	2.0	2
92	Cysteinyl leukotrienes mediate the response of submucosal ganglia from rat colon to bradykinin. <i>European Journal of Pharmacology</i> , 2012, 681, 100-106.	1.7	2
93	Roadblock for antigens “ take a detour via M cells. <i>Acta Physiologica</i> , 2016, 216, 13-14.	1.8	2
94	Sensing osmolarity: a new player on the field. <i>Journal of Physiology</i> , 2020, 598, 5297-5298.	1.3	2
95	The role of HCO <sub>3</sub> <sup>-</sup> in propionate-induced anion secretion across rat caecal epithelium. <i>Pflugers Archiv European Journal of Physiology</i> , 2021, 473, 937-951.	1.3	2
96	Multivalent stimulation of $\hat{I}^2_{1}$ , but not $\hat{I}^2_{2}$ -receptors by adrenaline functionalised gold nanoparticles. <i>Nanoscale Advances</i> , 2022, 4, 3182-3193.	2.2	2
97	The effect of bradykinin on the electrical activity of rat myenteric neurons. <i>European Journal of Pharmacology</i> , 2014, 738, 158-169.	1.7	1
98	New ways for an old cation. <i>Pflugers Archiv European Journal of Physiology</i> , 2020, 472, 669-670.	1.3	0
99	Characterization of Cecal Smooth Muscle Contraction in Laying Hens. <i>Veterinary Sciences</i> , 2021, 8, 91.	0.6	0
100	How to manage N waste in the intestine?. <i>Acta Physiologica</i> , 2021, 233, e13711.	1.8	0