

# Martin Diener

## List of Publications by Year in descending order

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100  
papers

1,910  
citations

257450

24  
h-index

315739

38  
g-index

101  
all docs

101  
docs citations

101  
times ranked

1268  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multivalent stimulation of $\hat{I}^2_{1</sub>}$ , but not $\hat{I}^2_{2</sub>}$ -receptors by adrenaline functionalised gold nanoparticles. Nanoscale Advances, 2022, 4, 3182-3193.	4.6	2
2	The role of $\text{HCO}_3^-$ in propionate-induced anion secretion across rat caecal epithelium. Pflugers Archiv European Journal of Physiology, 2021, 473, 937-951.	2.8	2
3	Characterization of Cecal Smooth Muscle Contraction in Laying Hens. Veterinary Sciences, 2021, 8, 91.	1.7	0
4	How to manage N waste in the intestine?. Acta Physiologica, 2021, 233, e13711.	3.8	0
5	Short-chain fatty acid receptors involved in epithelial acetylcholine release in rat caecum. European Journal of Pharmacology, 2021, 906, 174292.	3.5	4
6	Sensing osmolarity: a new player on the field. Journal of Physiology, 2020, 598, 5297-5298.	2.9	2
7	The orphan solute carrier SLC10A7 is a novel negative regulator of intracellular calcium signaling. Scientific Reports, 2020, 10, 7248.	3.3	17
8	New ways for an old cation. Pflugers Archiv European Journal of Physiology, 2020, 472, 669-670.	2.8	0
9	Interactions between rat submucosal neurons and mast cells are modified by cytokines and neurotransmitters. European Journal of Pharmacology, 2019, 864, 172713.	3.5	6
10	Segmental differences in ion transport in rat cecum. Pflugers Archiv European Journal of Physiology, 2019, 471, 1007-1023.	2.8	6
11	Evidence for metabotropic function of epithelial nicotinic cholinergic receptors in rat colon. British Journal of Pharmacology, 2019, 176, 1328-1340.	5.4	5
12	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
13	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
14	Segmental differences in the non-neuronal cholinergic system in rat caecum. Pflugers Archiv European Journal of Physiology, 2018, 470, 669-679.	2.8	10
15	Dynamic Extracellular Imaging of Biochemical Cell Activity Using InGaN/GaN Nanowire Arrays as Nanophotonic Probes. Advanced Functional Materials, 2018, 28, 1802503.	14.9	7
16	Stimulation of $\text{Na}^+/\text{K}^+$ pump currents by epithelial nicotinic receptors in rat colon. British Journal of Pharmacology, 2017, 174, 880-892.	5.4	9
17	Hypoxia/Reoxygenation Effects on Ion Transport across Rat Colonic Epithelium. Frontiers in Physiology, 2016, 7, 247.	2.8	7
18	Epithelial propionyl- and butyrylcholine as novel regulators of colonic ion transport. British Journal of Pharmacology, 2016, 173, 2766-2779.	5.4	12

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19	Roadblock for antigens “ take a detour via M cells. <i>Acta Physiologica</i> , 2016, 216, 13-14.	3.8	2
20	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.	10.1	5
21	Novel aspects of cholinergic regulation of colonic ion transport. <i>Pharmacology Research and Perspectives</i> , 2015, 3, e00139.	2.4	17
22	Chemical coding and chemosensory properties of cholinergic brush cells in the mouse gastrointestinal and biliary tract. <i>Frontiers in Physiology</i> , 2015, 6, 87.	2.8	91
23	Communication between mast cells and rat submucosal neurons. <i>Pflügers Archiv European Journal of Physiology</i> , 2015, 467, 1809-1823.	2.8	16
24	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.	2.8	9
25	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.	3.1	18
26	Acute exercises induce disorders of the gastrointestinal integrity in a murine model. <i>European Journal of Applied Physiology</i> , 2014, 114, 609-617.	2.5	12
27	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.	3.5	23
28	The effect of bradykinin on the electrical activity of rat myenteric neurons. <i>European Journal of Pharmacology</i> , 2014, 738, 158-169.	3.5	1
29	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.	2.1	9
30	ATP-sensitive K <sup>+</sup> channels in rat colonic epithelium. <i>Pflügers Archiv European Journal of Physiology</i> , 2013, 465, 865-877.	2.8	14
31	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.	2.9	10
32	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.	3.5	9
33	Altered response to hydrogen sulphide during experimental colitis in rats. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2013, 97, 942-950.	2.2	4
34	Receptors and mechanisms mediating the biphasic response evoked by bradykinin in rat colonic smooth muscle. <i>Neurogastroenterology and Motility</i> , 2013, 25, e581-90.	3.0	4
35	Modulation of ion transport across rat distal colon by cysteine. <i>Frontiers in Physiology</i> , 2012, 3, 43.	2.8	8
36	Cysteinyl leukotrienes mediate the response of submucosal ganglia from rat colon to bradykinin. <i>European Journal of Pharmacology</i> , 2012, 681, 100-106.	3.5	2

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37	Regulation of Colonic Ion Transport by Gasotransmitters. Biological and Pharmaceutical Bulletin, 2011, 34, 789-793.	1.4	23
38	Mechanisms of actions of hydrogen sulphide on rat distal colonic epithelium. British Journal of Pharmacology, 2011, 162, 392-404.	5.4	31
39	Effects of carbon monoxide on ion transport across rat distal colon. American Journal of Physiology - Renal Physiology, 2011, 300, G207-G216.	3.4	18
40	Effects of bradykinin B2 receptor stimulation at submucosal ganglia from rat distal colon. European Journal of Pharmacology, 2010, 627, 295-303.	3.5	4
41	Bradykinin-induced depolarisation and Ca <sup>2+</sup> influx through voltage-gated Ca <sup>2+</sup> channels in rat submucosal neurons. European Journal of Pharmacology, 2010, 635, 87-95.	3.5	7
42	Effects of H <sub>2</sub> O <sub>2</sub> at rat myenteric neurones in culture. European Journal of Pharmacology, 2009, 615, 40-49.	3.5	20
43	Actions of hydrogen sulphide on ion transport across rat distal colon. British Journal of Pharmacology, 2009, 158, 1263-1275.	5.4	50
44	Ca <sup>2+</sup> -Induced Cl <sup>-</sup> Efflux at Rat Distal Colonic Epithelium. Journal of Membrane Biology, 2008, 221, 61-72.	2.1	24
45	Characterization of ryanodine receptors in rat colonic epithelium. Acta Physiologica, 2008, 193, 151-162.	3.8	13
46	Sites of action of hydrogen peroxide on ion transport across rat distal colon. British Journal of Pharmacology, 2008, 154, 991-1000.	5.4	6
47	Anion secretion evoked by Pasteurella multocida toxin across rat colon. European Journal of Pharmacology, 2008, 583, 156-163.	3.5	6
48	Stimulation of voltage-dependent Ca <sup>2+</sup> channels by NO at rat myenteric neurons. American Journal of Physiology - Renal Physiology, 2007, 293, G886-G893.	3.4	6
49	Characterization of inositol 1,4,5-trisphosphate (IP <sub>3</sub> ) receptor subtypes at rat colonic epithelium. Cell Calcium, 2007, 41, 303-315.	2.4	18
50	Effect of the stable thromboxane derivative, carbocyclic thromboxane A <sub>2</sub> , on membrane potential of rat myenteric neurones in culture. Neurogastroenterology and Motility, 2006, 18, 1084-1092.	3.0	4
51	Epithelial muscarinic M1 receptors contribute to carbachol-induced ion secretion in mouse colon. European Journal of Pharmacology, 2006, 530, 229-233.	3.5	34
52	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
53	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. European Journal of Pharmacology, 2005, 512, 67-71.	3.5	7
54	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.	2.1	35

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55	Stimulation of colonic anion secretion by monochloramine: action sites. Pflugers Archiv European Journal of Physiology, 2005, 449, 553-563.	2.8	12
56	Upregulation of cyclooxygenase-2 and thromboxane A2 production mediate the action of tumor necrosis factor- $\alpha$ in isolated rat myenteric ganglia. American Journal of Physiology - Renal Physiology, 2005, 289, G586-G591.	3.4	7
57	Pharmacological characterisation of voltage-dependent $\text{Ca}^{2+}$ channels in isolated ganglia from the myenteric plexus. Life Sciences, 2005, 77, 2489-2499.	4.3	2
58	Mechanism of butyrate-induced hyperpolarization of cultured rat myenteric neurones. Neurogastroenterology and Motility, 2004, 16, 597-604.	3.0	20
59	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
60	Effects of dopamine on ion transport across the rat distal colon. Pflugers Archiv European Journal of Physiology, 2004, 448, 605-612.	2.8	18
61	Activation of Apical $\text{K}^{+}$ Conductances by Muscarinic Receptor Stimulation in Rat Distal Colon: Fast and Slow Components. Journal of Membrane Biology, 2003, 195, 183-196.	2.1	23
62	$\text{Ca}^{2+}$ -dependent and -independent $\text{Cl}^{-}$ secretion stimulated by the nitric oxide donor, GEA 3162, in rat colonic epithelium. European Journal of Pharmacology, 2002, 444, 21-30.	3.5	11
63	Ryanodine receptors and the mediation of $\text{Ca}^{2+}$ -dependent anion secretion across rat colon. Pflugers Archiv European Journal of Physiology, 2002, 445, 390-397.	2.8	13
64	Effect of butyrate on membrane potential, ionic currents and intracellular $\text{Ca}^{2+}$ concentration in cultured rat myenteric neurones. Neurogastroenterology and Motility, 2002, 14, 133-142.	3.0	33
65	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
66	Cell volume-induced changes in $\text{K}^{+}$ transport across the rat colon. Acta Physiologica Scandinavica, 2001, 171, 445-458.	2.2	10
67	Methods for the study of ionic currents and $\text{Ca}^{2+}$ -signals in isolated colonic crypts. Biological Procedures Online, 2001, 3, 70-78.	2.9	20
68	Interaction Between Store-Operated Non-Selective Cation Channels and the $\text{Na}^{+}$ - $\text{Ca}^{2+}$ Exchanger During Secretion in the Rat Colon. Experimental Physiology, 2001, 86, 461-468.	2.0	17
69	Multiple action sites of flufenamate on ion transport across the rat distal colon. British Journal of Pharmacology, 2000, 130, 875-885.	5.4	5
70	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
71	Adrenoceptor-mediated secretion across the rat colonic epithelium. European Journal of Pharmacology, 2000, 403, 251-258.	3.5	23
72	Electrogenic $\text{Ca}^{2+}$ entry in the rat colonic epithelium. Pflugers Archiv European Journal of Physiology, 1999, 439, 39-48.	2.8	13

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73	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.	3.5	14
74	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
75	Electrogenic Ca <sup>2+</sup> entry in the rat colonic epithelium. <i>Pflügers Archiv European Journal of Physiology</i> , 1999, 439, 39-48.	2.8	15
76	K <sup>+</sup> and Cl <sup>-</sup> Conductances in the Distal Colon of the Rat. <i>General Pharmacology</i> , 1998, 31, 337-342.	0.7	35
77	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.	3.5	9
78	Segment-specific effects of epinephrine on ion transport in the colon of the rat. <i>American Journal of Physiology - Renal Physiology</i> , 1998, 275, G1367-G1376.	3.4	47
79	The bumetanide-resistant part of forskolin-induced anion secretion in rat colon. <i>Acta Physiologica Scandinavica</i> , 1998, 164, 219-28.	2.2	22
80	Regulation of apical and basolateral K <sup>+</sup> conductances in the rat colon. <i>British Journal of Pharmacology</i> , 1997, 122, 87-94.	5.4	56
81	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
82	Cyclic AMP-dependent regulation of K <sup>+</sup> transport in the rat distal colon. <i>British Journal of Pharmacology</i> , 1996, 118, 1477-1487.	5.4	50
83	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
84	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.	2.2	9
85	Evidence against direct activation of chloride secretion by carbachol in the rat distal colon. <i>European Journal of Pharmacology</i> , 1995, 274, 181-191.	3.5	91
86	The role of volume-sensitive Cl <sup>-</sup> 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.	2.2	18
87	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.	2.2	10
88	Histo- and Immunocytochemical Characterization of the Neurons of the Mucosal Plexus in the Rat Colon. <i>Cells Tissues Organs</i> , 1992, 143, 268-274.	2.3	11
89	Activation of basolateral Cl <sup>-</sup> channels in the rat colonic epithelium during regulatory volume decrease. <i>Pflügers Archiv European Journal of Physiology</i> , 1992, 421, 530-538.	2.8	43
90	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.	2.8	26

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91	Characterization of the antiseecretory action of prostaglandin D <sub>2</sub> in the rat colon. <i>Acta Physiologica Scandinavica</i> , 1992, 145, 19-24.	2.2	13
92	Segment-specific effects of the heat-stable enterotoxin of <i>E. coli</i> on electrolyte transport in the rat colon. <i>European Journal of Pharmacology</i> , 1991, 202, 201-211.	3.5	36
93	Phospholipase C-induced anion secretion and its interaction with carbachol in the rat colonic mucosa. <i>European Journal of Pharmacology</i> , 1991, 200, 267-276.	3.5	45
94	Calcium- and cyclic-AMP-mediated secretory responses in isolated colonic crypts. <i>Pflügers Archiv European Journal of Physiology</i> , 1991, 419, 144-151.	2.8	103
95	Storage of glycogen in rat colonic epithelium during induction of secretion and absorption in vitro. <i>Cell and Tissue Research</i> , 1990, 261, 195-203.	2.9	8
96	Distension-induced secretion in the rat colon: mediation by prostaglandins and submucosal neurons. <i>European Journal of Pharmacology</i> , 1990, 178, 47-57.	3.5	44
97	Single chloride channels in colon mucosa and isolated colonic enterocytes of the rat. <i>Journal of Membrane Biology</i> , 1989, 108, 21-30.	2.1	77
98	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. <i>Acta Physiologica Scandinavica</i> , 1989, 137, 215-222.	2.2	38
99	Cholinergic-mediated secretion in the rat colon: neuronal and epithelial muscarinic responses. <i>European Journal of Pharmacology</i> , 1989, 168, 219-229.	3.5	49
100	Neuronally mediated and direct effects of prostaglandins on ion transport in rat colon descendens. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1988, 337, 74-8.	3.0	38