

# Wallace K Macnaughton

## List of Publications by Year in descending order

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63  
papers

2,412  
citations

218677

26  
h-index

206112

48  
g-index

64  
all docs

64  
docs citations

64  
times ranked

3267  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protease-activated receptor-2 activation enhances epithelial wound healing via epidermal growth factor receptor. <i>Tissue Barriers</i> , 2022, 10, 1968763.	3.2	8
2	The dietary fibre rhamnogalacturonan improves intestinal epithelial barrier function in a microbiota-independent manner. <i>British Journal of Pharmacology</i> , 2022, 179, 337-352.	5.4	7
3	Cells and mediators of inflammation as effectors of epithelial repair in the inflamed intestine. <i>American Journal of Physiology - Renal Physiology</i> , 2022, 322, G169-G182.	3.4	3
4	Role of CB <sub>1</sub> receptors in the acute regulation of small intestinal permeability: effects of high-fat diet. <i>American Journal of Physiology - Renal Physiology</i> , 2022, 323, G219-G238.	3.4	6
5	Intestinal fungi are causally implicated in microbiome assembly and immune development in mice. <i>Nature Communications</i> , 2020, 11, 2577.	12.8	151
6	N-Terminomics/TAILS Profiling of Proteases and Their Substrates in Ulcerative Colitis. <i>ACS Chemical Biology</i> , 2019, 14, 2471-2483.	3.4	16
7	Neuroimmune Responses Mediate Depression-Related Behaviors following Acute Colitis. <i>IScience</i> , 2019, 16, 12-21.	4.1	19
8	Proteolytic Processing of the Epithelial Adherens Junction Molecule E-Cadherin by Neutrophil Elastase Generates Short Peptides With Novel Wound-Healing Bioactivity. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2019, 7, 483-486.e8.	4.5	10
9	NOVEL REGULATION OF A PAR2-MEDIATED CELLULAR MIGRATION PROGRAM BY PRO-INFLAMMATORY CYTOKINES. <i>FASEB Journal</i> , 2019, 33, 496.26.	0.5	0
10	Intraluminal Nutrients Modulate Intracellular Calcium Activity in the Enteric Nervous System of Adult Mice. <i>FASEB Journal</i> , 2019, 33, 858.1.	0.5	0
11	ER-stress mobilization of death-associated protein kinase-1-dependent xenophagy counteracts mitochondria stress-induced epithelial barrier dysfunction. <i>Journal of Biological Chemistry</i> , 2018, 293, 3073-3087.	3.4	35
12	Hydrogen Sulfide-Releasing Therapeutics: Translation to the Clinic. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 1533-1540.	5.4	96
13	Inhibition of Intestinal Epithelial Wound Healing through Protease-Activated Receptor-2 Activation in Caco2 Cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2018, 367, 382-392.	2.5	12
14	Itch induced by peripheral mu opioid receptors is dependent on TRPV1-expressing neurons and alleviated by channel activation. <i>Scientific Reports</i> , 2018, 8, 15551.	3.3	27
15	Interferon gamma decreases intestinal epithelial aquaporin 3 expression through downregulation of constitutive transcription. <i>Journal of Molecular Medicine</i> , 2018, 96, 1081-1093.	3.9	7
16	NUTRIENTS ACUTELY MODULATE INTESTINAL PERMEABILITY INDEPENDENTLY OF THE ENTERIC NERVOUS SYSTEM. <i>FASEB Journal</i> , 2018, 32, 759.3.	0.5	0
17	Constipation-Predominant Irritable Bowel Syndrome Females Have Normal Colonic Barrier and Secretory Function. <i>American Journal of Gastroenterology</i> , 2017, 112, 913-923.	0.4	33
18	Tumor necrosis factor- $\alpha$ decreases aquaporin 3 expression in intestinal epithelial cells through inhibition of constitutive transcription. <i>Physiological Reports</i> , 2017, 5, e13451.	1.7	23

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19	A simple, cost-effective method for generating murine colonic 3D enteroids and 2D monolayers for studies of primary epithelial cell function. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, G467-G475.	3.4	34
20	Signaling pathways induced by serine proteases to increase intestinal epithelial barrier function. <i>PLoS ONE</i> , 2017, 12, e0180259.	2.5	11
21	The serine protease-mediated increase in intestinal epithelial barrier function is dependent on occludin and requires an intact tight junction. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 311, G466-G479.	3.4	26
22	The human element: moving beyond animal models to study the neuronal regulation of intestinal electrolyte transport. <i>Journal of Physiology</i> , 2016, 594, 259-260.	2.9	0
23	Protective Actions of Epithelial 5-Hydroxytryptamine 4 Receptors in Normal and Inflamed Colon. <i>Gastroenterology</i> , 2016, 151, 933-944.e3.	1.3	87
24	Interferon- $\beta$ Suppresses Intestinal Epithelial Aquaporin-1 Expression via Janus Kinase and STAT3 Activation. <i>PLoS ONE</i> , 2015, 10, e0118713.	2.5	13
25	Inhibiting Inducible Nitric Oxide Synthase in Enteric Glia Restores Electrogenic Ion Transport in Mice With Colitis. <i>Gastroenterology</i> , 2015, 149, 445-455.e3.	1.3	51
26	Probiotics Improve Inflammation-Associated Sickness Behavior by Altering Communication between the Peripheral Immune System and the Brain. <i>Journal of Neuroscience</i> , 2015, 35, 10821-10830.	3.6	143
27	Proteases and their Receptors as Mediators of Inflammation-Associated Colon Cancer. <i>Current Pharmaceutical Design</i> , 2015, 21, 2983-2992.	1.9	12
28	The Ability of Serine Proteases to Induce an Increase in Barrier Function is Dependent on the Tight Junction Protein Occludin. <i>FASEB Journal</i> , 2015, 29, 282.2.	0.5	0
29	Aquaporin 3 promotes intestinal epithelial proliferation and inhibits cytokine-induced apoptosis. <i>FASEB Journal</i> , 2015, 29, 766.11.	0.5	0
30	Proteinase-activated Receptor 2 (PAR2) Decreases Apoptosis in Colonic Epithelial Cells. <i>Journal of Biological Chemistry</i> , 2014, 289, 34366-34377.	3.4	45
31	Targeting Mitochondria-Derived Reactive Oxygen Species to Reduce Epithelial Barrier Dysfunction and Colitis. <i>American Journal of Pathology</i> , 2014, 184, 2516-2527.	3.8	134
32	The mechanism of serine protease-induced increases in epithelial barrier function in intestinal epithelial cells (60.7). <i>FASEB Journal</i> , 2014, 28, 60.7.	0.5	0
33	Tumour necrosis factor alpha and interferon gamma induce transcriptional downregulation of aquaporin 3 RNA expression through distinct mechanisms (893.28). <i>FASEB Journal</i> , 2014, 28, .	0.5	0
34	Regulation of intestinal epithelial apoptosis by protease-activated receptor 2 involves EGFR transactivation and is associated with Mcl-1 upregulation (151.1). <i>FASEB Journal</i> , 2014, 28, 151.1.	0.5	0
35	Serine protease modulation of epithelial barrier function through the tight junction (650.8). <i>FASEB Journal</i> , 2014, 28, 650.8.	0.5	1
36	MicroRNA-34a Mediates the Autocrine Signaling of PAR2-Activating Proteinase and Its Role in Colonic Cancer Cell Proliferation. <i>PLoS ONE</i> , 2013, 8, e72383.	2.5	37

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37	Epidermal growth factor receptor transactivation is required for proteinase-activated receptor-2-induced COX-2 expression in intestinal epithelial cells. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 303, G111-G119.	3.4	22
38	<i>Escherichia coli</i> -induced epithelial hyporesponsiveness to secretagogues is associated with altered CFTR localization. <i>Cellular Microbiology</i> , 2012, 14, 447-459.	2.1	7
39	Proteinase-activated receptors induce interleukin-8 expression by intestinal epithelial cells through ERK/RSK90 activation and histone acetylation. <i>FASEB Journal</i> , 2010, 24, 1971-1980.	0.5	36
40	Interleukin-18 disrupts tight junctions in gastric and intestinal epithelial monolayers. <i>FASEB Journal</i> , 2010, 24, 348.6.	0.5	1
41	Prostaglandin E2 Derived from Cyclooxygenases 1 and 2 Mediates Intestinal Epithelial Ion Transport Stimulated by the Activation of Protease-Activated Receptor 2. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 329, 747-752.	2.5	17
42	Protease-activated receptor-2 stimulates intestinal epithelial chloride transport through activation of PLC and selective PKC isoforms. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, G1258-G1266.	3.4	17
43	Serine proteases decrease intestinal epithelial ion permeability by activation of protein kinase C $\eta$ . <i>American Journal of Physiology - Renal Physiology</i> , 2009, 297, G60-G70.	3.4	26
44	Nitric oxide increases Wnt-induced secreted protein-1 (WISP-1/CCN4) expression and function in colitis. <i>Journal of Molecular Medicine</i> , 2009, 87, 435-445.	3.9	37
45	Proteinase-activated Receptor-2 Induces Cyclooxygenase-2 Expression through $\beta$ -Catenin and Cyclic AMP-response Element-binding Protein. <i>Journal of Biological Chemistry</i> , 2008, 283, 809-815.	3.4	42
46	EGF receptor transactivation and MAP kinase mediate proteinase-activated receptor-2-induced chloride secretion in intestinal epithelial cells. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 294, G441-G451.	3.4	38
47	Serine Proteases Decrease Intestinal Epithelial Permeability By A PKC $\eta$ -mediated mechanism. <i>FASEB Journal</i> , 2007, 21, A191.	0.5	0
48	PAR-2-induced epithelial Cl <sup>-</sup> secretion involves EGFR transactivation. <i>FASEB Journal</i> , 2006, 20, A1116.	0.5	0
49	Epithelial effects of proteinase-activated receptors in the gastrointestinal tract. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2005, 100, 211-215.	1.6	25
50	Activation of proteinase-activated receptor-1 inhibits neurally evoked chloride secretion in the mouse colon in vitro. <i>American Journal of Physiology - Renal Physiology</i> , 2005, 288, G337-G345.	3.4	32
51	Nitric oxide inhibits cAMP-dependent CFTR trafficking in intestinal epithelial cells. <i>American Journal of Physiology - Renal Physiology</i> , 2005, 289, G739-G744.	3.4	25
52	Overexpressed $\beta$ -Catenin Blocks Nitric Oxide-Induced Apoptosis in Colonic Cancer Cells. <i>Cancer Research</i> , 2005, 65, 8604-8607.	0.9	43
53	Signal Transduction for Proteinase-Activated Receptor-2-Triggered Prostaglandin E2 Formation in Human Lung Epithelial Cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005, 315, 576-589.	2.5	49
54	Distribution and function of the cannabinoid-1 receptor in the modulation of ion transport in the guinea pig ileum: relationship to capsaicin-sensitive nerves. <i>American Journal of Physiology - Renal Physiology</i> , 2004, 286, G863-G871.	3.4	53

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55	Intestinal epithelial secretory function: Role of proteinase-activated receptors. <i>Drug Development Research</i> , 2003, 59, 386-394.	2.9	1
56	Activation of protease-activated receptor-1 (PAR-1) inhibits neurally evoked chloride secretion in the mouse colon. <i>Gastroenterology</i> , 2003, 124, A23.	1.3	3
57	Proteinase-Activated Receptor-4 is implicated in the pathogenesis of Dextran Sodium Sulfate colitis. <i>Gastroenterology</i> , 2003, 124, A487.	1.3	6
58	Proteinase-activated receptor 1 activation induces epithelial apoptosis and increases intestinal permeability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11104-11109.	7.1	130
59	PAR1-dependent and independent increases in COX-2 and PGE2 in human colonic myofibroblasts stimulated by thrombin. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 284, C1185-C1192.	4.6	29
60	Activation of proteinase-activated receptor 1 stimulates epithelial chloride secretion through a unique MAP kinase- and cyclooxygenase-dependent pathway. <i>FASEB Journal</i> , 2002, 16, 1515-1525.	0.5	48
61	Induction of Intestinal Inflammation in Mouse by Activation of Proteinase-Activated Receptor-2. <i>American Journal of Pathology</i> , 2002, 161, 1903-1915.	3.8	342
62	Cyclooxygenase 1 contributes to inflammatory responses in rats and mice: Implications for gastrointestinal toxicity. <i>Gastroenterology</i> , 1998, 115, 101-109.	1.3	297
63	Role of nitric oxide in inflammation-induced suppression of secretion in a mouse model of acute colitis. <i>American Journal of Physiology - Renal Physiology</i> , 1998, 275, G1353-G1360.	3.4	38