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	Induction of Intestinal Inflammation in Mouse by Activation of Proteinase-Activated Receptor-2. American Journal of Pathology, 2002, 161, 1903-1915.	3.8	342
2	Cyclooxygenase 1 contributes to inflammatory responses in rats and mice: Implications for gastrointestinal toxicity. Gastroenterology, 1998, 115, 101-109.	1.3	297
3	Intestinal fungi are causally implicated in microbiome assembly and immune development in mice. Nature Communications, 2020, 11, 2577.	12.8	151
4	Probiotics Improve Inflammation-Associated Sickness Behavior by Altering Communication between the Peripheral Immune System and the Brain. Journal of Neuroscience, 2015, 35, 10821-10830.	3.6	143
5	Targeting Mitochondria-Derived Reactive Oxygen Species to Reduce Epithelial Barrier Dysfunction and Colitis. American Journal of Pathology, 2014, 184, 2516-2527.	3.8	134
6	Proteinase-activated receptor 1 activation induces epithelial apoptosis and increases intestinal permeability. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11104-11109.	7.1	130
7	Hydrogen Sulfide-Releasing Therapeutics: Translation to the Clinic. Antioxidants and Redox Signaling, 2018, 28, 1533-1540.	5.4	96
8	Protective Actions of Epithelial 5-Hydroxytryptamine 4 Receptors in Normal and Inflamed Colon. Gastroenterology, 2016, 151, 933-944.e3.	1.3	87
9	Distribution and function of the cannabinoid-1 receptor in the modulation of ion transport in the guinea pig ileum: relationship to capsaicin-sensitive nerves. American Journal of Physiology - Renal Physiology, 2004, 286, G863-G871.	3.4	53
10	Inhibiting Inducible Nitric Oxide Synthase in Enteric Glia Restores Electrogenic Ion Transport in Mice With Colitis. Gastroenterology, 2015, 149, 445-455.e3.	1.3	51
11	Signal Transduction for Proteinase-Activated Receptor-2-Triggered Prostaglandin E2 Formation in Human Lung Epithelial Cells. Journal of Pharmacology and Experimental Therapeutics, 2005, 315, 576-589.	2.5	49
12	Activation of proteinaseâ€activated receptor 1 stimulates epithelial chloride secretion through a unique MAP kinaseâ€and cycloâ€oxygenaseâ€dependent pathway. FASEB Journal, 2002, 16, 1515-1525.	0.5	48
13	Proteinase-activated Receptor 2 (PAR2) Decreases Apoptosis in Colonic Epithelial Cells. Journal of Biological Chemistry, 2014, 289, 34366-34377.	3.4	45
14	Overexpressed Î²-Catenin Blocks Nitric Oxideâ€“Induced Apoptosis in Colonic Cancer Cells. Cancer Research, 2005, 65, 8604-8607.	0.9	43
15	Proteinase-activated Receptor-2 Induces Cyclooxygenase-2 Expression through Î²-Catenin and Cyclic AMP-response Element-binding Protein. Journal of Biological Chemistry, 2008, 283, 809-815.	3.4	42
16	Role of nitric oxide in inflammation-induced suppression of secretion in a mouse model of acute colitis. American Journal of Physiology - Renal Physiology, 1998, 275, G1353-G1360.	3.4	38
17	EGF receptor transactivation and MAP kinase mediate proteinase-activated receptor-2-induced chloride secretion in intestinal epithelial cells. American Journal of Physiology - Renal Physiology, 2008, 294, G441-G451.	3.4	38
18	Nitric oxide increases Wnt-induced secreted protein-1 (WISP-1/CCN4) expression and function in colitis. Journal of Molecular Medicine, 2009, 87, 435-445.	3.9	37

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19	MicroRNA-34a Mediates the Autocrine Signaling of PAR2-Activating Proteinase and Its Role in Colonic Cancer Cell Proliferation. PLoS ONE, 2013, 8, e72383.	2.5	37
20	Proteinaseâ€activated receptors induce interleukinâ€8 expression by intestinal epithelial cells through ERK/RSK90 activation and histone acetylation. FASEB Journal, 2010, 24, 1971-1980.	0.5	36
21	ER-stress mobilization of death-associated protein kinase-1â€“dependent xenophagy counteracts mitochondria stressâ€“induced epithelial barrier dysfunction. Journal of Biological Chemistry, 2018, 293, 3073-3087.	3.4	35
22	A simple, cost-effective method for generating murine colonic 3D enteroids and 2D monolayers for studies of primary epithelial cell function. American Journal of Physiology - Renal Physiology, 2017, 313, G467-G475.	3.4	34
23	Constipation-Predominant Irritable Bowel Syndrome Females Have Normal Colonic Barrier and Secretory Function. American Journal of Gastroenterology, 2017, 112, 913-923.	0.4	33
24	Activation of proteinase-activated receptor-1 inhibits neurally evoked chloride secretion in the mouse colon in vitro. American Journal of Physiology - Renal Physiology, 2005, 288, G337-G345.	3.4	32
25	PAR1-dependent and independent increases in COX-2 and PGE2in human colonic myofibroblasts stimulated by thrombin. American Journal of Physiology - Cell Physiology, 2003, 284, C1185-C1192.	4.6	29
26	Itch induced by peripheral mu opioid receptors is dependent on TRPV1-expressing neurons and alleviated by channel activation. Scientific Reports, 2018, 8, 15551.	3.3	27
27	Serine proteases decrease intestinal epithelial ion permeability by activation of protein kinase CÎ¶. American Journal of Physiology - Renal Physiology, 2009, 297, G60-G70.	3.4	26
28	The serine protease-mediated increase in intestinal epithelial barrier function is dependent on occludin and requires an intact tight junction. American Journal of Physiology - Renal Physiology, 2016, 311, G466-G479.	3.4	26
29	Epithelial effects of proteinase-activated receptors in the gastrointestinal tract. Memorias Do Instituto Oswaldo Cruz, 2005, 100, 211-215.	1.6	25
30	Nitric oxide inhibits cAMP-dependent CFTR trafficking in intestinal epithelial cells. American Journal of Physiology - Renal Physiology, 2005, 289, G739-G744.	3.4	25
31	Tumor necrosis factorÎ±decreases aquaporin 3 expression in intestinal epithelial cells through inhibition of constitutive transcription. Physiological Reports, 2017, 5, e13451.	1.7	23
32	Epidermal growth factor receptor transactivation is required for proteinase-activated receptor-2-induced COX-2 expression in intestinal epithelial cells. American Journal of Physiology - Renal Physiology, 2012, 303, G111-G119.	3.4	22
33	Neuroimmune Responses Mediate Depression-Related Behaviors following Acute Colitis. IScience, 2019, 16, 12-21.	4.1	19
34	Prostaglandin E2 Derived from Cyclooxygenases 1 and 2 Mediates Intestinal Epithelial Ion Transport Stimulated by the Activation of Protease-Activated Receptor 2. Journal of Pharmacology and Experimental Therapeutics, 2009, 329, 747-752.	2.5	17
35	Protease-activated receptor-2 stimulates intestinal epithelial chloride transport through activation of PLC and selective PKC isoforms. American Journal of Physiology - Renal Physiology, 2009, 296, G1258-G1266.	3.4	17
36	N-Terminomics/TAILS Profiling of Proteases and Their Substrates in Ulcerative Colitis. ACS Chemical Biology, 2019, 14, 2471-2483.	3.4	16

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37	Interferon-Î³ Suppresses Intestinal Epithelial Aquaporin-1 Expression via Janus Kinase and STAT3 Activation. PLoS ONE, 2015, 10, e0118713.	2.5	13
38	Inhibition of Intestinal Epithelial Wound Healing through Protease-Activated Receptor-2 Activation in Caco2 Cells. Journal of Pharmacology and Experimental Therapeutics, 2018, 367, 382-392.	2.5	12
39	Proteases and their Receptors as Mediators of Inflammation-Associated Colon Cancer. Current Pharmaceutical Design, 2015, 21, 2983-2992.	1.9	12
40	Signaling pathways induced by serine proteases to increase intestinal epithelial barrier function. PLoS ONE, 2017, 12, e0180259.	2.5	11
41	Proteolytic Processing of the Epithelial Adherens Junction Molecule E-Cadherin by Neutrophil Elastase Generates Short Peptides With Novel Wound-Healing Bioactivity. Cellular and Molecular Gastroenterology and Hepatology, 2019, 7, 483-486.e8.	4.5	10
42	Protease-activated receptor-2 activation enhances epithelial wound healing via epidermal growth factor receptor. Tissue Barriers, 2022, 10, 1968763.	3.2	8
43	Escherichia coli-induced epithelial hyporesponsiveness to secretagogues is associated with altered CFTR localization. Cellular Microbiology, 2012, 14, 447-459.	2.1	7
44	Interferon gamma decreases intestinal epithelial aquaporin 3 expression through downregulation of constitutive transcription. Journal of Molecular Medicine, 2018, 96, 1081-1093.	3.9	7
45	The dietary fibre rhamnogalacturonan improves intestinal epithelial barrier function in a microbiotaâ€independent manner. British Journal of Pharmacology, 2022, 179, 337-352.	5.4	7
46	Proteinase-Activated Receptor-4 is implicated in the pathogenesis of Dextran Sodium Sulfate colitis. Gastroenterology, 2003, 124, A487.	1.3	6
47	Role of CB₁ receptors in the acute regulation of small intestinal permeability: effects of high-fat diet. American Journal of Physiology - Renal Physiology, 2022, 323, G219-G238.	3.4	6
48	Activation of protease-activated receptor-1 (PAR-1) inhibits neurally evoked chloride secretion in the mouse colon. Gastroenterology, 2003, 124, A23.	1.3	3
49	Cells and mediators of inflammation as effectors of epithelial repair in the inflamed intestine. American Journal of Physiology - Renal Physiology, 2022, 322, G169-G182.	3.4	3
50	Intestinal epithelial secretory function: Role of proteinase-activated receptors. Drug Development Research, 2003, 59, 386-394.	2.9	1
51	Interleukinâ€18 disrupts tight junctions in gastric and intestinal epithelial monolayers. FASEB Journal, 2010, 24, 348.6.	0.5	1
52	Serine protease modulation of epithelial barrier function through the tight junction (650.8). FASEB Journal, 2014, 28, 650.8.	0.5	1
53	The human element: moving beyond animal models to study the neuronal regulation of intestinal electrolyte transport. Journal of Physiology, 2016, 594, 259-260.	2.9	0
54	PARâ€2â€induced epithelial Clâ€secretion involves EGFr transactivation. FASEB Journal, 2006, 20, A1116.	0.5	0

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55	Serine Proteases Decrease Intestinal Epithelial Permeability By A PKCÎ¶â€mediated mechanism. FASEB Journal, 2007, 21, A191.	0.5	0
56	The mechanism of serine proteaseâ€induced increases in epithelial barrier function in intestinal epithelial cells (60.7). FASEB Journal, 2014, 28, 60.7.	0.5	0
57	Tumour necrosis factor alpha and interferon gamma induce transcriptional downregulation of aquaporin 3 RNA expression through distinct mechanisms (893.28). FASEB Journal, 2014, 28, .	0.5	0
58	Regulation of intestinal epithelial apoptosis by proteaseâ€activated receptor 2 involves EGFRâ€transactivation and is associated with Mclâ€1 upregualtion (151.1). FASEB Journal, 2014, 28, 151.1.	0.5	0
59	The Ability of Serine Proteases to Induce an Increase in Barrier Function is Dependent on the Tight Junction Protein Occludin. FASEB Journal, 2015, 29, 282.2.	0.5	0
60	Aquaporin 3 promotes intestinal epithelial proliferation and inhibits cytokineâ€induced apoptosis. FASEB Journal, 2015, 29, 766.11.	0.5	0
61	NUTRIENTS ACUTELY MODULATE INTESTINAL PERMEABILITY INDEPENDENTLY OF THE ENTERIC NERVOUS SYSTEM. FASEB Journal, 2018, 32, 759.3.	0.5	0
62	NOVEL REGULATION OF A PAR2â€MEDIATED CELLULAR MIGRATION PROGRAM BY PROâ€INFLAMMATORY CYTOKINES. FASEB Journal, 2019, 33, 496.26.	0.5	0
63	Intraluminal Nutrients Modulate Intracellular Calcium Activity in the Enteric Nervous System of Adult Mice. FASEB Journal, 2019, 33, 858.1.	0.5	0