

Nigel W Bunnett

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212
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h-index

132
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220
ext. papers

20,458
ext. citations

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avg. IF

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L-index

#	Paper	IF	Citations
212	Activated mast cells in proximity to colonic nerves correlate with abdominal pain in irritable bowel syndrome. <i>Gastroenterology</i> , 2004 , 126, 693-702	13.3	1054
211	Protease-activated receptors: contribution to physiology and disease. <i>Physiological Reviews</i> , 2004 , 84, 579-621	47.9	908
210	Proteinase-activated receptors: novel mechanisms of signaling by serine proteases. <i>American Journal of Physiology - Cell Physiology</i> , 1998 , 274, C1429-52	5.4	640
209	4-Hydroxynonenal, an endogenous aldehyde, causes pain and neurogenic inflammation through activation of the irritant receptor TRPA1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 13519-24	11.5	584
208	Mast cell-dependent excitation of visceral-nociceptive sensory neurons in irritable bowel syndrome. <i>Gastroenterology</i> , 2007 , 132, 26-37	13.3	556
207	Regulatory mechanisms that modulate signalling by G-protein-coupled receptors. <i>Biochemical Journal</i> , 1997 , 322 (Pt 1), 1-18	3.8	442
206	Neuronal control of skin function: the skin as a neuroimmunoendocrine organ. <i>Physiological Reviews</i> , 2006 , 86, 1309-79	47.9	418
205	Role for protease activity in visceral pain in irritable bowel syndrome. <i>Journal of Clinical Investigation</i> , 2007 , 117, 636-47	15.9	408
204	Molecular cloning, expression and potential functions of the human proteinase-activated receptor-2. <i>Biochemical Journal</i> , 1996 , 314 (Pt 3), 1009-16	3.8	393
203	Endocytosis of activated TrkA: evidence that nerve growth factor induces formation of signaling endosomes. <i>Journal of Neuroscience</i> , 1996 , 16, 7950-64	6.6	365
202	Tachykinins and their receptors: contributions to physiological control and the mechanisms of disease. <i>Physiological Reviews</i> , 2014 , 94, 265-301	47.9	349
201	Protease-activated receptor 2 sensitizes the capsaicin receptor transient receptor potential vanilloid receptor 1 to induce hyperalgesia. <i>Journal of Neuroscience</i> , 2004 , 24, 4300-12	6.6	339
200	Protease-activated receptors in inflammation, neuronal signaling and pain. <i>Trends in Pharmacological Sciences</i> , 2001 , 22, 146-52	13.2	327
199	Induction of intestinal inflammation in mouse by activation of proteinase-activated receptor-2. <i>American Journal of Pathology</i> , 2002 , 161, 1903-15	5.8	311
198	Protease-activated receptor 2 sensitizes the transient receptor potential vanilloid 4 ion channel to cause mechanical hyperalgesia in mice. <i>Journal of Physiology</i> , 2007 , 578, 715-33	3.9	299
197	Cigarette smoke-induced neurogenic inflammation is mediated by alpha,beta-unsaturated aldehydes and the TRPA1 receptor in rodents. <i>Journal of Clinical Investigation</i> , 2008 , 118, 2574-82	15.9	295
196	Protease-activated receptor 2 mediates eosinophil infiltration and hyperreactivity in allergic inflammation of the airway. <i>Journal of Immunology</i> , 2002 , 169, 5315-21	5.3	280

195	Endosomes: a legitimate platform for the signaling train. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 17615-22	11.5	270
194	Calcitonin receptor-like receptor (CLR), receptor activity-modifying protein 1 (RAMP1), and calcitonin gene-related peptide (CGRP) immunoreactivity in the rat trigeminovascular system: differences between peripheral and central CGRP receptor distribution. <i>Journal of Comparative Neurology</i> , 2008 , 507, 1277-93	3.4	242
193	Mast cell tryptase controls paracellular permeability of the intestine. Role of protease-activated receptor 2 and beta-arrestins. <i>Journal of Biological Chemistry</i> , 2005 , 280, 31936-48	5.4	240
192	The TGR5 receptor mediates bile acid-induced itch and analgesia. <i>Journal of Clinical Investigation</i> , 2013 , 123, 1513-30	15.9	229
191	Protease-activated receptor 2 sensitizes TRPV1 by protein kinase C epsilon- and A-dependent mechanisms in rats and mice. <i>Journal of Physiology</i> , 2006 , 575, 555-71	3.9	213
190	The receptor TGR5 mediates the prokinetic actions of intestinal bile acids and is required for normal defecation in mice. <i>Gastroenterology</i> , 2013 , 144, 145-54	13.3	198
189	Characterization of antisera specific to NK1, NK2, and NK3 neurokinin receptors and their utilization to localize receptors in the rat gastrointestinal tract. <i>Journal of Neuroscience</i> , 1996 , 16, 6975-86	6.6	195
188	Mechanisms of desensitization and resensitization of proteinase-activated receptor-2. <i>Journal of Biological Chemistry</i> , 1996 , 271, 22003-16	5.4	192
187	Proteinase-activated receptors, targets for kallikrein signaling. <i>Journal of Biological Chemistry</i> , 2006 , 281, 32095-112	5.4	187
186	Neurokinin 1 receptor internalization in spinal cord slices induced by dorsal root stimulation is mediated by NMDA receptors. <i>Journal of Neuroscience</i> , 1997 , 17, 8129-36	6.6	159
185	Biased signaling of protease-activated receptors. <i>Frontiers in Endocrinology</i> , 2014 , 5, 67	5.7	158
184	The bile acid receptor TGR5 activates the TRPA1 channel to induce itch in mice. <i>Gastroenterology</i> , 2014 , 147, 1417-28	13.3	157
183	Cellular sites of expression of the neurokinin-1 receptor in the rat gastrointestinal tract. <i>Journal of Comparative Neurology</i> , 1995 , 358, 531-40	3.4	141
182	Trypsin activates pancreatic duct epithelial cell ion channels through proteinase-activated receptor-2. <i>Journal of Clinical Investigation</i> , 1999 , 103, 261-9	15.9	139
181	Thrombin and mast cell tryptase regulate guinea-pig myenteric neurons through proteinase-activated receptors-1 and -2. <i>Journal of Physiology</i> , 1999 , 517 (Pt 3), 741-56	3.9	137
180	Trafficking of proteinase-activated receptor-2 and beta-arrestin-1 tagged with green fluorescent protein. beta-Arrestin-dependent endocytosis of a proteinase receptor. <i>Journal of Biological Chemistry</i> , 1999 , 274, 18524-35	5.4	134
179	Mast cell tryptase and proteinase-activated receptor 2 induce hyperexcitability of guinea-pig submucosal neurons. <i>Journal of Physiology</i> , 2003 , 547, 531-42	3.9	133
178	Cox-dependent fatty acid metabolites cause pain through activation of the irritant receptor TRPA1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 12045-50	11.5	132

177	Trypsin IV, a novel agonist of protease-activated receptors 2 and 4. <i>Journal of Biological Chemistry</i> , 2004 , 279, 13532-9	5.4	129
176	Proteinase-activated receptor-2-induced colonic inflammation in mice: possible involvement of afferent neurons, nitric oxide, and paracellular permeability. <i>Journal of Immunology</i> , 2003 , 170, 4296-300	5.3	123
175	Cathepsin S causes inflammatory pain via biased agonism of PAR2 and TRPV4. <i>Journal of Biological Chemistry</i> , 2014 , 289, 27215-27234	5.4	116
174	Proteinase-activated receptor-2 and human lung epithelial cells: disarming by neutrophil serine proteinases. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2003 , 28, 339-46	5.7	112
173	Interactions of the skin and nervous system. <i>Journal of Investigative Dermatology Symposium Proceedings</i> , 1997 , 2, 23-6	1.1	111
172	c-Cbl mediates ubiquitination, degradation, and down-regulation of human protease-activated receptor 2. <i>Journal of Biological Chemistry</i> , 2005 , 280, 16076-87	5.4	111
171	Transient receptor potential vanilloid 4 mediates protease activated receptor 2-induced sensitization of colonic afferent nerves and visceral hyperalgesia. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 294, G1288-98	5.1	110
170	Proinflammatory role of proteinase-activated receptor-2 in humans and mice during cutaneous inflammation in vivo. <i>FASEB Journal</i> , 2003 , 17, 1871-85	0.9	109
169	Protease-activated receptor 2 (PAR2) protein and transient receptor potential vanilloid 4 (TRPV4) protein coupling is required for sustained inflammatory signaling. <i>Journal of Biological Chemistry</i> , 2013 , 288, 5790-802	5.4	108
168	Agonists of proteinase-activated receptor 1 induce plasma extravasation by a neurogenic mechanism. <i>British Journal of Pharmacology</i> , 2001 , 133, 975-87	8.6	108
167	The G protein-coupled receptor-transient receptor potential channel axis: molecular insights for targeting disorders of sensation and inflammation. <i>Pharmacological Reviews</i> , 2015 , 67, 36-73	22.5	100
166	<i>Pseudomonas aeruginosa</i> elastase disables proteinase-activated receptor 2 in respiratory epithelial cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2005 , 32, 411-9	5.7	100
165	Neutrophil Elastase Activates Protease-activated Receptor-2 (PAR2) and Transient Receptor Potential Vanilloid 4 (TRPV4) to Cause Inflammation and Pain. <i>Journal of Biological Chemistry</i> , 2015 , 290, 13875-87	5.4	98
164	Schwann cell TRPA1 mediates neuroinflammation that sustains macrophage-dependent neuropathic pain in mice. <i>Nature Communications</i> , 2017 , 8, 1887	17.4	96
163	Protease-activated receptors: how proteases signal to cells to cause inflammation and pain. <i>Seminars in Thrombosis and Hemostasis</i> , 2006 , 32 Suppl 1, 39-48	5.3	94
162	Agonists of proteinase-activated receptor 2 induce cytokine release and activation of nuclear transcription factor kappaB in human dermal microvascular endothelial cells. <i>Journal of Investigative Dermatology</i> , 2002 , 118, 380-5	4.3	94
161	Transient receptor potential ankyrin-1 has a major role in mediating visceral pain in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2010 , 298, G81-91	5.1	93
160	Neurokinin 1 receptor signaling in endosomes mediates sustained nociception and is a viable therapeutic target for prolonged pain relief. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	91

159	Neutral endopeptidase terminates substance P-induced inflammation in allergic contact dermatitis. <i>Journal of Immunology</i> , 2001 , 166, 1285-91	5.3	91
158	G Protein-Coupled Receptors: Dynamic Machines for Signaling Pain and Itch. <i>Neuron</i> , 2015 , 88, 635-49	13.9	89
157	Acute ACE inhibition causes plasma extravasation in mice that is mediated by bradykinin and substance P. <i>Hypertension</i> , 1998 , 31, 1299-304	8.5	89
156	Localization of calcitonin receptor-like receptor and receptor activity modifying protein 1 in enteric neurons, dorsal root ganglia, and the spinal cord of the rat. <i>Journal of Comparative Neurology</i> , 2005 , 490, 239-55	3.4	87
155	Quantification and Potential Functions of Endogenous Agonists of Transient Receptor Potential Channels in Patients With Irritable Bowel Syndrome. <i>Gastroenterology</i> , 2015 , 149, 433-44.e7	13.3	85
154	Substance P mediates inflammatory oedema in acute pancreatitis via activation of the neurokinin-1 receptor in rats and mice. <i>British Journal of Pharmacology</i> , 2000 , 130, 505-12	8.6	85
153	Endosomal signaling of the receptor for calcitonin gene-related peptide mediates pain transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 12309-12314	11.5	83
152	Endothelin-converting enzyme-1 regulates endosomal sorting of calcitonin receptor-like receptor and beta-arrestins. <i>Journal of Cell Biology</i> , 2007 , 179, 981-97	7.3	82
151	Protease-activated receptors: how proteases signal to cells. <i>Current Opinion in Pharmacology</i> , 2001 , 1, 575-82	5.1	82
150	Trypsin IV or mesotrypsin and p23 cleave protease-activated receptors 1 and 2 to induce inflammation and hyperalgesia. <i>Journal of Biological Chemistry</i> , 2007 , 282, 26089-100	5.4	81
149	Protease-activated receptor-2 in endosomes signals persistent pain of irritable bowel syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E7438-E7447	11.5	78
148	Desensitization of the neurokinin-1 receptor (NK1-R) in neurons: effects of substance P on the distribution of NK1-R, Galphaq/11, G-protein receptor kinase-2/3, and beta-arrestin-1/2. <i>Molecular Biology of the Cell</i> , 1998 , 9, 2305-24	3.5	78
147	Substance P-induced trafficking of beta-arrestins. The role of beta-arrestins in endocytosis of the neurokinin-1 receptor. <i>Journal of Biological Chemistry</i> , 1999 , 274, 16257-68	5.4	77
146	Colitis induced by proteinase-activated receptor-2 agonists is mediated by a neurogenic mechanism. <i>Canadian Journal of Physiology and Pharmacology</i> , 2003 , 81, 920-7	2.4	76
145	Distribution of neurokinin-2 receptors in the guinea-pig gastrointestinal tract. <i>Cell and Tissue Research</i> , 1996 , 286, 281-92	4.2	75
144	Sensitization of peripheral sensory nerves by mediators from colonic biopsies of diarrhea-predominant irritable bowel syndrome patients: a role for PAR2. <i>American Journal of Gastroenterology</i> , 2013 , 108, 1634-43	0.7	74
143	Neutral endopeptidase expression and distribution in human skin and wounds. <i>Journal of Investigative Dermatology</i> , 1999 , 112, 873-81	4.3	72
142	Transient receptor potential vanilloid 1, calcitonin gene-related peptide, and substance P mediate nociception in acute pancreatitis. <i>American Journal of Physiology - Renal Physiology</i> , 2006 , 290, G959-69	5.1	70

141	Rab5a and rab11a mediate agonist-induced trafficking of protease-activated receptor 2. <i>American Journal of Physiology - Cell Physiology</i> , 2003 , 284, C1319-29	5.4	70
140	The bile acid receptor TGR5 does not interact with β arrestins or traffic to endosomes but transmits sustained signals from plasma membrane rafts. <i>Journal of Biological Chemistry</i> , 2013 , 288, 22942-60	5.4	69
139	Endosomal deubiquitinating enzymes control ubiquitination and down-regulation of protease-activated receptor 2. <i>Journal of Biological Chemistry</i> , 2009 , 284, 28453-28466	5.4	67
138	Identification of potential tyrosine-containing endocytic motifs in the carboxyl-tail and seventh transmembrane domain of the neurokinin 1 receptor. <i>Journal of Biological Chemistry</i> , 1997 , 272, 2363-72	5.4	66
137	Protease-activated receptor-2 activation exaggerates TRPV1-mediated cough in guinea pigs. <i>Journal of Applied Physiology</i> , 2006 , 101, 506-11	3.7	66
136	Transient receptor potential ankyrin 1 is expressed by inhibitory motoneurons of the mouse intestine. <i>Gastroenterology</i> , 2011 , 141, 565-75, 575.e1-4	13.3	65
135	Recycling and resensitization of the neurokinin 1 receptor. Influence of agonist concentration and Rab GTPases. <i>Journal of Biological Chemistry</i> , 2004 , 279, 30670-9	5.4	65
134	Direct observation of endocytosis of gastrin releasing peptide and its receptor. <i>Journal of Biological Chemistry</i> , 1995 , 270, 4603-11	5.4	65
133	A role for proteinase-activated receptor-1 in inflammatory bowel diseases. <i>Journal of Clinical Investigation</i> , 2004 , 114, 1444-56	15.9	65
132	TRPA1/NOX in the soma of trigeminal ganglion neurons mediates migraine-related pain of glyceryl trinitrate in mice. <i>Brain</i> , 2018 , 141, 2312-2328	11.2	64
131	Transient receptor potential ion channels V4 and A1 contribute to pancreatitis pain in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2010 , 299, G556-71	5.1	64
130	Endothelin-converting enzyme 1 degrades neuropeptides in endosomes to control receptor recycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 11838-43	11.5	64
129	Basolateral proteinase-activated receptor (PAR-2) induces chloride secretion in M-1 mouse renal cortical collecting duct cells. <i>Journal of Physiology</i> , 1999 , 521 Pt 1, 3-17	3.9	64
128	Substance P released by TRPV1-expressing neurons produces reactive oxygen species that mediate ethanol-induced gastric injury. <i>Free Radical Biology and Medicine</i> , 2007 , 43, 581-9	7.8	63
127	Cathepsin S is activated during colitis and causes visceral hyperalgesia by a PAR2-dependent mechanism in mice. <i>Gastroenterology</i> , 2011 , 141, 1864-74.e1-3	13.3	62
126	Heterologous regulation of trafficking and signaling of G protein-coupled receptors: beta-arrestin-dependent interactions between neurokinin receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 3324-9	11.5	61
125	A pH-responsive nanoparticle targets the neurokinin 1 receptor in endosomes to prevent chronic pain. <i>Nature Nanotechnology</i> , 2019 , 14, 1150-1159	28.7	60
124	Substance P release in the dorsal horn assessed by receptor internalization: NMDA receptors counteract a tonic inhibition by GABA(B) receptors. <i>European Journal of Neuroscience</i> , 1999 , 11, 417-26	3.5	60

123	Neural peptidase endothelin-converting enzyme 1 regulates endothelin 1-induced pruritus. <i>Journal of Clinical Investigation</i> , 2014 , 124, 2683-95	15.9	60
122	Post-endocytic sorting of calcitonin receptor-like receptor and receptor activity-modifying protein 1. <i>Journal of Biological Chemistry</i> , 2007 , 282, 12260-71	5.4	59
121	Hepatocyte growth factor-regulated tyrosine kinase substrate (HRS) mediates post-endocytic trafficking of protease-activated receptor 2 and calcitonin receptor-like receptor. <i>Journal of Biological Chemistry</i> , 2007 , 282, 29646-57	5.4	58
120	Dynamin and Rab5a-dependent trafficking and signaling of the neurokinin 1 receptor. <i>Journal of Biological Chemistry</i> , 2001 , 276, 25427-37	5.4	58
119	Neuropeptide regulation of human dermal microvascular endothelial cell ICAM-1 expression and function. <i>American Journal of Physiology - Cell Physiology</i> , 1998 , 275, C1580-90	5.4	58
118	Neutral endopeptidase inhibition in diabetic wound repair. <i>Wound Repair and Regeneration</i> , 2002 , 10, 295-301	3.6	57
117	Prognostic and mechanistic potential of progesterone sulfates in intrahepatic cholestasis of pregnancy and pruritus gravidarum. <i>Hepatology</i> , 2016 , 63, 1287-98	11.2	56
116	Therapeutic Targeting of Endosomal G-Protein-Coupled Receptors. <i>Trends in Pharmacological Sciences</i> , 2018 , 39, 879-891	13.2	56
115	Transient receptor potential vanilloid (TRPV-1) promotes neurogenic inflammation in the pancreas via activation of the neurokinin-1 receptor (NK-1R). <i>Pancreas</i> , 2005 , 30, 260-5	2.6	55
114	Pungent general anesthetics activate transient receptor potential-A1 to produce hyperalgesia and neurogenic bronchoconstriction. <i>Anesthesiology</i> , 2010 , 112, 1452-63	4.3	54
113	Neuro-humoral signalling by bile acids and the TGR5 receptor in the gastrointestinal tract. <i>Journal of Physiology</i> , 2014 , 592, 2943-50	3.9	53
112	Endosomal endothelin-converting enzyme-1: a regulator of beta-arrestin-dependent ERK signaling. <i>Journal of Biological Chemistry</i> , 2009 , 284, 22411-22425	5.4	52
111	Ubiquitin-dependent down-regulation of the neurokinin-1 receptor. <i>Journal of Biological Chemistry</i> , 2006 , 281, 27773-83	5.4	51
110	Mechanisms of protease-activated receptor 2-evoked hyperexcitability of nociceptive neurons innervating the mouse colon. <i>Journal of Physiology</i> , 2007 , 580, 977-91	3.9	50
109	Activation of G protein-coupled bile acid receptor, TGR5, induces smooth muscle relaxation via both Epac- and PKA-mediated inhibition of RhoA/Rho kinase pathway. <i>American Journal of Physiology - Renal Physiology</i> , 2013 , 304, G527-35	5.1	49
108	Localization and regulation of fluorescently labeled delta opioid receptor, expressed in enteric neurons of mice. <i>Gastroenterology</i> , 2011 , 141, 982-991.e18	13.3	49
107	Neutral endopeptidase activity is increased in the skin of subjects with diabetic ulcers. <i>Journal of Investigative Dermatology</i> , 2002 , 119, 1400-4	4.3	49
106	Effects of Serotonin and Slow-Release 5-Hydroxytryptophan on Gastrointestinal Motility in a Mouse Model of Depression. <i>Gastroenterology</i> , 2019 , 157, 507-521.e4	13.3	48

105	Plasma membrane localization of the μ -opioid receptor controls spatiotemporal signaling. <i>Science Signaling</i> , 2016 , 9, ra16	8.8	48
104	Substance P is a determinant of lethality in diet-induced hemorrhagic pancreatitis in mice. <i>Surgery</i> , 2000 , 128, 232-9	3.6	45
103	Cutaneous allergic contact dermatitis responses are diminished in mice deficient in neurokinin 1 receptors and augmented by neurokinin 2 receptor blockage. <i>FASEB Journal</i> , 2004 , 18, 1007-9	0.9	44
102	Neurogenic plasma leakage in mouse airways. <i>British Journal of Pharmacology</i> , 1999 , 126, 522-8	8.6	44
101	Proteolytic activation of the epithelial sodium channel (ENaC) by the cysteine protease cathepsin-S. <i>Pflügers Archiv European Journal of Physiology</i> , 2012 , 464, 353-65	4.6	43
100	N-glycosylation determines ionic permeability and desensitization of the TRPV1 capsaicin receptor. <i>Journal of Biological Chemistry</i> , 2012 , 287, 21765-72	5.4	41
99	Protease-activated receptor 2, dipeptidyl peptidase I, and proteases mediate Clostridium difficile toxin A enteritis. <i>Gastroenterology</i> , 2007 , 132, 2422-37	13.3	41
98	The third intracellular loop and carboxyl tail of neurokinin 1 and 3 receptors determine interactions with beta-arrestins. <i>American Journal of Physiology - Cell Physiology</i> , 2003 , 285, C945-58	5.4	41
97	Stimulation of proteinase-activated receptor 2 excites jejunal afferent nerves in anaesthetised rats. <i>Journal of Physiology</i> , 2003 , 552, 589-601	3.9	41
96	Protease-activated receptors: regulation of neuronal function. <i>NeuroMolecular Medicine</i> , 2005 , 7, 79-99	4.6	39
95	Fatty Acid-binding Proteins 1 and 2 Differentially Modulate the Activation of Peroxisome Proliferator-activated Receptor β in a Ligand-selective Manner. <i>Journal of Biological Chemistry</i> , 2015 , 290, 13895-906	5.4	37
94	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, 809-15	5.4	37
93	Protein kinase C-mediated desensitization of the neurokinin 1 receptor. <i>American Journal of Physiology - Cell Physiology</i> , 2001 , 280, C1097-106	5.4	37
92	Deletion of neutral endopeptidase exacerbates intestinal inflammation induced by Clostridium difficile toxin A. <i>American Journal of Physiology - Renal Physiology</i> , 2001 , 281, G544-51	5.1	37
91	Neural regulation of endothelial cell-mediated inflammation. <i>Journal of Investigative Dermatology Symposium Proceedings</i> , 2000 , 5, 74-8	1.1	35
90	Protease-activated receptors: the role of cell-surface proteolysis in signalling. <i>Essays in Biochemistry</i> , 2002 , 38, 169-83	7.6	35
89	Activation of mu opioid receptors sensitizes transient receptor potential vanilloid type 1 (TRPV1) via β -arrestin-2-mediated cross-talk. <i>PLoS ONE</i> , 2014 , 9, e93688	3.7	34
88	Endothelin-converting enzyme-1 degrades internalized somatostatin-14. <i>Endocrinology</i> , 2008 , 149, 2200-7	7.8	33

87	Agonists of proteinase-activated receptor 2 excite guinea pig ileal myenteric neurons. <i>European Journal of Pharmacology</i> , 2001 , 431, 311-4	5.3	33
86	Neurokinin 1 receptor distribution in cholinergic neurons and targets of substance P terminals in the rat nucleus accumbens. <i>Journal of Comparative Neurology</i> , 2000 , 423, 500-511	3.4	33
85	Activation of pruritogenic TGR5, MrgprA3, and MrgprC11 on colon-innervating afferents induces visceral hypersensitivity. <i>JCI Insight</i> , 2019 , 4,	9.9	33
84	P2Y1 Receptor Activation of the TRPV4 Ion Channel Enhances Purinergic Signaling in Satellite Glial Cells. <i>Journal of Biological Chemistry</i> , 2015 , 290, 29051-62	5.4	32
83	CGRP induction in cystic fibrosis airways alters the submucosal gland progenitor cell niche in mice. <i>Journal of Clinical Investigation</i> , 2011 , 121, 3144-58	15.9	32
82	A role for calcitonin gene-related peptide in protection against gastric ulceration. <i>Annals of Surgery</i> , 1994 , 219, 58-64	7.8	32
81	The role of neuropeptides in regulating airway function. Postsecretory metabolism of peptides. <i>The American Review of Respiratory Disease</i> , 1987 , 136, S27-34		32
80	GPCR-mediated EGF receptor transactivation regulates TRPV4 action in the vasculature. <i>British Journal of Pharmacology</i> , 2015 , 172, 2493-506	8.6	31
79	Agonist-biased trafficking of somatostatin receptor 2A in enteric neurons. <i>Journal of Biological Chemistry</i> , 2013 , 288, 25689-25700	5.4	30
78	Endothelin-converting enzyme-1 regulates trafficking and signalling of the neurokinin 1 receptor in endosomes of myenteric neurones. <i>Journal of Physiology</i> , 2011 , 589, 5213-30	3.9	30
77	Proteinase-activated receptor-2: physiological and pathophysiological roles. <i>Current Medicinal Chemistry Cardiovascular and Hematological Agents</i> , 2003 , 1, 61-72		30
76	Human mast cell proteases hydrolyze neurotensin, kinetensin and Leu5-enkephalin. <i>Peptides</i> , 1991 , 12, 995-1000	3.8	30
75	Endosomal signaling of delta opioid receptors is an endogenous mechanism and therapeutic target for relief from inflammatory pain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 15281-15292	11.5	29
74	Schwann cells expressing nociceptive channel TRPA1 orchestrate ethanol-evoked neuropathic pain in mice. <i>Journal of Clinical Investigation</i> , 2019 , 129, 5424-5441	15.9	28
73	Protein kinase D isoforms are expressed in rat and mouse primary sensory neurons and are activated by agonists of protease-activated receptor 2. <i>Journal of Comparative Neurology</i> , 2009 , 516, 141-56	3.4	27
72	Neurotensin-induced proinflammatory signaling in human colonocytes is regulated by EArrestins and endothelin-converting enzyme-1-dependent endocytosis and resensitization of neurotensin receptor 1. <i>Journal of Biological Chemistry</i> , 2012 , 287, 15066-75	5.4	27
71	Characterization of receptors using cyanine 3-labeled neuropeptides. <i>Peptides</i> , 1995 , 16, 733-40	3.8	27
70	Proteolytic activation of the human epithelial sodium channel by trypsin IV and trypsin I involves distinct cleavage sites. <i>Journal of Biological Chemistry</i> , 2014 , 289, 19067-78	5.4	25

69	Endothelin-converting enzyme-1 actions determine differential trafficking and signaling of corticotropin-releasing factor receptor 1 at high agonist concentrations. <i>Molecular Endocrinology</i> , 2012 , 26, 681-95		25
68	Human corneal epithelial cells express functional PAR-1 and PAR-2. <i>Investigative Ophthalmology and Visual Science</i> , 2003 , 44, 99-105		25
67	Differences in receptor binding and stability to enzymatic digestion between CCK-8 and CCK-58. <i>Pancreas</i> , 2002 , 25, e50-5	2.6	25
66	Somatostatin inhibits pancreatic exocrine secretion via a neural mechanism. <i>Metabolism: Clinical and Experimental</i> , 1990 , 39, 143-8	12.7	24
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