Kenton M Sanders

List of Publications by Citations

262 papers	13,413 citations	65 h-index	105 g-index
275 ext. papers	14,571 ext. citations	5.6 avg, IF	6.49 L-index

#	Paper	IF	Citations
262	Interstitial cells of cajal as pacemakers in the gastrointestinal tract. *Annual Review of Physiology*, **2006**, 68, 307-43	23.1	471
261	Interstitial cells of Cajal mediate cholinergic neurotransmission from enteric motor neurons. *Journal of Neuroscience*, **2000**, 20, 1393-403	6.6	378
260	c-kit-dependent development of interstitial cells and electrical activity in the murine gastrointestinal tract. *Cell and Tissue Research*, **1995**, 280, 97-111	4.2	309
259	Expression of anoctamin 1/TMEM16A by interstitial cells of Cajal is fundamental for slow wave activity in gastrointestinal muscles. *Journal of Physiology*, **2009**, 587, 4887-904	3.9	301
258	Interstitial cells: regulators of smooth muscle function. *Physiological Reviews*, **2014**, 94, 859-907	47.9	278
257	Tissue-dependent paired expression of miRNAs. *Nucleic Acids Research*, **2007**, 35, 5944-53	20.1	268
256	c- kit -Dependent development of interstitial cells and electrical activity in the murine gastrointestinal tract. *Cell and Tissue Research*, **1995**, 280, 97-111	4.2	248
255	Interstitial cells of Cajal mediate enteric inhibitory neurotransmission in the lower esophageal and pyloric sphincters. *Gastroenterology*, **1998**, 115, 314-29	13.3	245
254	Regulation of gastrointestinal motility--insights from smooth muscle biology. *Nature Reviews Gastroenterology and Hepatology*, **2012**, 9, 633-45	24.2	238
253	Blockade of kit signaling induces transdifferentiation of interstitial cells of cajal to a smooth muscle phenotype. *Gastroenterology*, **1999**, 117, 140-8	13.3	231
252	Spontaneous electrical rhythmicity in cultured interstitial cells of cajal from the murine small intestine. *Journal of Physiology*, **1998**, 513 (Pt 1), 203-13	3.9	224
251	Cloning and expression profiling of testis-expressed microRNAs. *Developmental Biology*, **2007**, 311, 592-602	3.9	213
250	A Ca(2+)-activated Cl(-) conductance in interstitial cells of Cajal linked to slow wave currents and pacemaker activity. *Journal of Physiology*, **2009**, 587, 4905-18	3.9	201
249	Invited review: mechanisms of calcium handling in smooth muscles. *Journal of Applied Physiology*, **2001**, 91, 1438-49	3.7	200
248	Interstitial cells of Cajal in the guinea-pig gastrointestinal tract as revealed by c-Kit immunohistochemistry. *Cell and Tissue Research*, **1997**, 290, 11-20	4.2	181
247	Cellular and molecular basis for electrical rhythmicity in gastrointestinal muscles. *Annual Review of Physiology*, **1999**, 61, 19-43	23.1	181
246	Interstitial cells of cajal generate electrical slow waves in the murine stomach. *Journal of Physiology* , **1999**, 518, 257-69	3.9	178

245	Loss of interstitial cells of Cajal and development of electrical dysfunction in murine small bowel obstruction. *Journal of Physiology*, **2001**, 536, 555-68	3.9	159
244	A functional role for the 'fibroblast-like cells'in gastrointestinal smooth muscles. *Journal of Physiology*, **2011**, 589, 697-710	3.9	153
243	Cloning and expression profiling of small RNAs expressed in the mouse ovary. *Rna*, **2007**, 13, 2366-80	5.8	150
242	Interstitial cells of Cajal: primary targets of enteric motor innervation. *The Anatomical Record*, **2001**, 262, 125-35		149
241	Molecular markers expressed in cultured and freshly isolated interstitial cells of Cajal. *American Journal of Physiology - Cell Physiology*, **2000**, 279, C529-39	5.4	144
240	Beta-nicotinamide adenine dinucleotide is an inhibitory neurotransmitter in visceral smooth muscle. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 16359-64	11.5	141
239	A PCR-based method for detection and quantification of small RNAs. *Biochemical and Biophysical Research Communications*, **2006**, 351, 756-63	3.4	140
238	Enteric inhibitory neural regulation of human colonic circular muscle: role of nitric oxide. *Gastroenterology*, **1993**, 105, 1009-16	13.3	134
237	Interstitial cells of Cajal mediate mechanosensitive responses in the stomach. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 14913-8	11.5	131
236	Intimate relationship between interstitial cells of cajal and enteric nerves in the guinea-pig small intestine. *Cell and Tissue Research*, **1999**, 295, 247-56	4.2	125
235	A Ca(2+)-inhibited non-selective cation conductance contributes to pacemaker currents in mouse interstitial cell of Cajal. *Journal of Physiology*, **2002**, 540, 803-14	3.9	120
234	Development of electrical rhythmicity in the murine gastrointestinal tract is specifically encoded in the tunica muscularis. *Journal of Physiology*, **1997**, 505 (Pt 1), 241-58	3.9	117
233	Loss of enteric motor neurotransmission in the gastric fundus of Sl/Sl(d) mice. *Journal of Physiology* , **2002**, 543, 871-87	3.9	117
232	Involvement of intramuscular interstitial cells of Cajal in neuroeffector transmission in the gastrointestinal tract. *Journal of Physiology*, **2006**, 576, 675-82	3.9	113
231	TREK-1 regulation by nitric oxide and cGMP-dependent protein kinase. An essential role in smooth muscle inhibitory neurotransmission. *Journal of Biological Chemistry*, **2001**, 276, 44338-46	5.4	113
230	Tamoxifen activates smooth muscle BK channels through the regulatory beta 1 subunit. *Journal of Biological Chemistry*, **2001**, 276, 34594-9	5.4	111
229	Neuroeffector apparatus in gastrointestinal smooth muscle organs. *Journal of Physiology*, **2010**, 588, 4621-39	3.9	103
228	Physiology and pathophysiology of the interstitial cells of Cajal: from bench to bedside. IV. Genetic and animal models of GI motility disorders caused by loss of interstitial cells of Cajal. *American Journal of Physiology - Renal Physiology*, **2002**, 282, G747-56	5.1	100

227	Development of interstitial cells of Cajal and pacemaking in mice lacking enteric nerves. *Gastroenterology*, **1999**, 117, 584-94	13.3	100
226	Differential gene expression in functional classes of interstitial cells of Cajal in murine small intestine. *Physiological Genomics*, **2007**, 31, 492-509	3.6	92
225	Interstitial cells of Cajal in the deep muscular plexus mediate enteric motor neurotransmission in the mouse small intestine. *Journal of Physiology*, **2006**, 573, 147-59	3.9	91
224	Spatial and temporal mapping of pacemaker activity in interstitial cells of Cajal in mouse ileum in situ. *American Journal of Physiology - Cell Physiology*, **2006**, 290, C1411-27	5.4	89
223	Intracellular calcium events activated by ATP in murine colonic myocytes. *American Journal of Physiology - Cell Physiology*, **2000**, 279, C126-35	5.4	88
222	P2Y1 purinoreceptors are fundamental to inhibitory motor control of murine colonic excitability and transit. *Journal of Physiology*, **2012**, 590, 1957-72	3.9	86
221	Expression of nitric oxide synthase immunoreactivity by interstitial cells of the canine proximal colon. *Journal of the Autonomic Nervous System*, **1994**, 49, 1-14		86
220	The mechanism and spread of pacemaker activity through myenteric interstitial cells of Cajal in human small intestine. *Gastroenterology*, **2007**, 132, 1852-65	13.3	85
219	Kit mutants and gastrointestinal physiology. *Journal of Physiology*, **2007**, 578, 33-42	3.9	82
218	Involvement of cyclic GMP in non-adrenergic, non-cholinergic inhibitory neurotransmission in dog proximal colon. *British Journal of Pharmacology*, **1992**, 107, 1075-82	8.6	82
217	Interstitial cells of Cajal are functionally innervated by excitatory motor neurones in the murine intestine. *Journal of Physiology*, **2004**, 556, 521-30	3.9	81
216	Catsper3 and catsper4 encode two cation channel-like proteins exclusively expressed in the testis. *Biology of Reproduction*, **2005**, 73, 1235-42	3.9	80
215	Distribution of pacemaker function through the tunica muscularis of the canine gastric antrum. *Journal of Physiology*, **2001**, 537, 237-50	3.9	80
214	Response from Sean M. Ward and Kenton M. Sanders. *Journal of Physiology*, **2012**, 590, 1301-1302	3.9	78
213	Nicotinamide adenine dinucleotide is an enteric inhibitory neurotransmitter in human and nonhuman primate colons. *Gastroenterology*, **2011**, 140, 608-617.e6	13.3	78
212	The significance of interstitial cells in neurogastroenterology. *Journal of Neurogastroenterology and Motility*, **2014**, 20, 294-317	4.4	77
211	Intestinal surgical resection disrupts electrical rhythmicity, neural responses, and interstitial cell networks. *Gastroenterology*, **2004**, 127, 1748-59	13.3	77
210	Voltage-dependent inward currents of interstitial cells of Cajal from murine colon and small intestine. *Journal of Physiology*, **2002**, 541, 797-810	3.9	77

209	Kit signaling is essential for development and maintenance of interstitial cells of Cajal and electrical rhythmicity in the embryonic gastrointestinal tract. *Developmental Dynamics*, **2007**, 236, 60-72	2.9	76
208	(Xeno)estrogen sensitivity of smooth muscle BK channels conferred by the regulatory beta1 subunit: a study of beta1 knockout mice. *Journal of Biological Chemistry*, **2001**, 276, 44835-40	5.4	76
207	Synaptic specializations exist between enteric motor nerves and interstitial cells of Cajal in the murine stomach. *Journal of Comparative Neurology*, **2005**, 493, 193-206	3.4	75
206	Pacemaker potentials generated by interstitial cells of Cajal in the murine intestine. *American Journal of Physiology - Cell Physiology*, **2005**, 288, C710-20	5.4	75
205	Anoctamins and gastrointestinal smooth muscle excitability. *Experimental Physiology*, **2012**, 97, 200-6	2.4	74
204	Interstitial cells of Cajal: a new perspective on smooth muscle function. *Journal of Physiology*, **2006**, 576, 721-6	3.9	74
203	Relationship between interstitial cells of Cajal and enteric motor neurons in the murine proximal colon. *Cell and Tissue Research*, **2000**, 302, 331-42	4.2	72
202	Platelet-derived growth factor receptor positive cells in the tunica muscularis of human colon. *Journal of Cellular and Molecular Medicine*, **2012**, 16, 1397-404	5.6	71
201	A-type potassium currents in smooth muscle. *American Journal of Physiology - Cell Physiology*, **2003**, 284, C583-95	5.4	70
200	Platelet-derived growth factor receptor- cells in mouse urinary bladder: a new class of interstitial cells. *Journal of Cellular and Molecular Medicine*, **2012**, 16, 691-700	5.6	67
199	Selective labeling and isolation of functional classes of interstitial cells of Cajal of human and murine small intestine. *American Journal of Physiology - Cell Physiology*, **2007**, 292, C497-507	5.4	66
198	Muscarinic activation of Ca2+-activated Cl- current in interstitial cells of Cajal. *Journal of Physiology*, **2011**, 589, 4565-82	3.9	65
197	Chlamydia infection causes loss of pacemaker cells and inhibits oocyte transport in the mouse oviduct. *Biology of Reproduction*, **2009**, 80, 665-73	3.9	65
196	Distribution and Ca(2+) signalling of fibroblast-like (PDGFR(+)) cells in the murine gastric fundus. *Journal of Physiology*, **2013**, 591, 6193-208	3.9	63
195	Muscarinic regulation of pacemaker frequency in murine gastric interstitial cells of Cajal. *Journal of Physiology*, **2003**, 546, 415-25	3.9	63
194	Pacing of interstitial cells of Cajal in the murine gastric antrum: neurally mediated and direct stimulation. *Journal of Physiology*, **2003**, 553, 545-59	3.9	63
193	Cloning and expression profiling of testis-expressed piRNA-like RNAs. *Rna*, **2007**, 13, 1693-702	5.8	62
192	Analysis of pacemaker activity in the human stomach. *Journal of Physiology*, **2011**, 589, 6105-18	3.9	61

191	Enteric motor neurons form synaptic-like junctions with interstitial cells of Cajal in the canine gastric antrum. *Cell and Tissue Research*, **2003**, 311, 299-313	4.2	61
190	Regulation of Gastrointestinal Smooth Muscle Function by Interstitial Cells. *Physiology*, **2016**, 31, 316-26	9.8	60
189	Plasticity of electrical pacemaking by interstitial cells of Cajal and gastric dysrhythmias in W/W mutant mice. *Gastroenterology*, **2002**, 123, 2028-40	13.3	59
188	Functional and molecular expression of a voltage-dependent K(+) channel (Kv1.1) in interstitial cells of Cajal. *Journal of Physiology*, **2001**, 533, 315-27	3.9	58
187	Role of nitric oxide in non-adrenergic, non-cholinergic inhibitory junction potentials in canine ileocolonic sphincter. *British Journal of Pharmacology*, **1992**, 105, 776-82	8.6	57
186	Platelet-derived growth factor receptor-□positive cells and not smooth muscle cells mediate purinergic hyperpolarization in murine colonic muscles. *American Journal of Physiology - Cell Physiology*, **2014**, 307, C561-70	5.4	56
185	A model to study the phenotypic changes of interstitial cells of Cajal in gastrointestinal diseases. *Gastroenterology*, **2010**, 138, 1068-78.e1-2	13.3	56
184	Two-pore-domain potassium channels in smooth muscles: new components of myogenic regulation. *Journal of Physiology*, **2006**, 570, 37-43	3.9	56
183	Effects of anion channel antagonists in canine colonic myocytes: comparative pharmacology of Cl-, Ca2+ and K+ currents. *British Journal of Pharmacology*, **1999**, 127, 1819-31	8.6	56
182	Intracellular Ca(2+) release from endoplasmic reticulum regulates slow wave currents and pacemaker activity of interstitial cells of Cajal. *American Journal of Physiology - Cell Physiology*, **2015**, 308, C608-20	5.4	55
181	Spontaneous migrating motor complexes occur in both the terminal ileum and colon of the C57BL/6 mouse in vitro. *Autonomic Neuroscience: Basic and Clinical*, **2000**, 84, 162-8	2.4	53
180	Migrating motor complexes do not require electrical slow waves in the mouse small intestine. *Journal of Physiology*, **2003**, 553, 881-93	3.9	52
179	Stretch-dependent potassium channels in murine colonic smooth muscle cells. *Journal of Physiology*, **2001**, 533, 155-63	3.9	51
178	Effects of alosetron on spontaneous migrating motor complexes in murine small and large bowel in vitro. *American Journal of Physiology - Renal Physiology*, **2001**, 281, G974-83	5.1	51
177	SPORTS1.0: A Tool for Annotating and Profiling Non-coding RNAs Optimized for rRNA- and tRNA-derived Small RNAs. *Genomics, Proteomics and Bioinformatics*, **2018**, 16, 144-151	6.5	48
176	Ca2+ sensitization pathways accessed by cholinergic neurotransmission in the murine gastric fundus. *Journal of Physiology*, **2013**, 591, 2971-86	3.9	48
175	Relationship between interstitial cells of Cajal, fibroblast-like cells and inhibitory motor nerves in the internal anal sphincter. *Cell and Tissue Research*, **2011**, 344, 17-30	4.2	48
174	Septal interstitial cells of Cajal conduct pacemaker activity to excite muscle bundles in human jejunum. *Gastroenterology*, **2007**, 133, 907-17	13.3	47

173	Voltage-dependent calcium entry underlies propagation of slow waves in canine gastric antrum. *Journal of Physiology*, **2004**, 561, 793-810	3.9	47
172	Transcriptome of interstitial cells of Cajal reveals unique and selective gene signatures. *PLoS ONE*, **2017**, 12, e0176031	3.7	47
171	Neural regulation of slow-wave frequency in the murine gastric antrum. *American Journal of Physiology - Renal Physiology*, **2006**, 290, G486-95	5.1	46
170	Regulation of pacemaker currents in interstitial cells of Cajal from murine small intestine by cyclic nucleotides. *Journal of Physiology*, **2000**, 527 Pt 1, 149-62	3.9	46
169	Enteric neurons express Steel factor-lacZ transgene in the murine gastrointestinal tract. *Brain Research*, **1996**, 738, 323-8	3.7	46
168	Serum response factor-dependent MicroRNAs regulate gastrointestinal smooth muscle cell phenotypes. *Gastroenterology*, **2011**, 141, 164-75	13.3	45
167	Expression and function of a T-type Ca2+ conductance in interstitial cells of Cajal of the murine small intestine. *American Journal of Physiology - Cell Physiology*, **2014**, 306, C705-13	5.4	44
166	A novel population of subepithelial platelet-derived growth factor receptor □positive cells in the mouse and human colon. *American Journal of Physiology - Renal Physiology*, **2013**, 304, G823-34	5.1	44
165	Spontaneous Ca(2+) transients in interstitial cells of Cajal located within the deep muscular plexus of the murine small intestine. *Journal of Physiology*, **2016**, 594, 3317-38	3.9	43
164	Functional expression of SK channels in murine detrusor PDGFR+ cells. *Journal of Physiology*, **2013**, 591, 503-13	3.9	42
163	Adenosine 5-diphosphate-ribose is a neural regulator in primate and murine large intestine along with □NAD(+). *Journal of Physiology*, **2012**, 590, 1921-41	3.9	42
162	Propagation of slow waves requires IP3 receptors and mitochondrial Ca2+ uptake in canine colonic muscles. *Journal of Physiology*, **2003**, 549, 207-18	3.9	42
161	Sulfur-containing amino acids block stretch-dependent K+ channels and nitrergic responses in the murine colon. *British Journal of Pharmacology*, **2005**, 144, 1126-37	8.6	41
160	Localization of nitric oxide synthase in canine ileocolonic and pyloric sphincters. *Cell and Tissue Research*, **1994**, 275, 513-27	4.2	41
159	Temporal sequence of activation of cells involved in purinergic neurotransmission in the colon. *Journal of Physiology*, **2015**, 593, 1945-63	3.9	40
158	Nitric oxide and its role as a non-adrenergic, non-cholinergic inhibitory neurotransmitter in the gastrointestinal tract. *British Journal of Pharmacology*, **2019**, 176, 212-227	8.6	40
157	Voltage-gated Ca2+ currents are necessary for slow-wave propagation in the canine gastric antrum. *American Journal of Physiology - Cell Physiology*, **2007**, 293, C1645-59	5.4	40
156	Novel regulation of the A-type K+ current in murine proximal colon by calcium-calmodulin-dependent protein kinase II. *Journal of Physiology*, **1999**, 517 (Pt 1), 75-84	3.9	40

155	Novel voltage-dependent non-selective cation conductance in murine colonic myocytes. *Journal of Physiology*, **2001**, 533, 341-55	3.9	39
154	Coupling strength between localized Ca(2+) transients and K(+) channels is regulated by protein kinase C. *American Journal of Physiology - Cell Physiology*, **2001**, 281, C1512-23	5.4	39
153	Clustering of Ca transients in interstitial cells of Cajal defines slow wave duration. *Journal of General Physiology*, **2017**, 149, 703-725	3.4	38
152	Characterization of the A-type potassium current in murine gastric antrum. *Journal of Physiology*, **2002**, 544, 417-28	3.9	37
151	Heterogeneities in ICC Ca2+ activity within canine large intestine. *Gastroenterology*, **2009**, 136, 2226-36	13.3	36
150	Nucleotide regulation of the voltage-dependent nonselective cation conductance in murine colonic myocytes. *American Journal of Physiology - Cell Physiology*, **2006**, 291, C985-94	5.4	36
149	Interstitial cells of Cajal at the clinical and scientific interface. *Journal of Physiology*, **2006**, 576, 683-7	3.9	36
148	A Novel Pacemaker Mechanism Drives Gastrointestinal Rhythmicity. *Physiology*, **2000**, 15, 291-298	9.8	36
147	The stretch-dependent potassium channel TREK-1 and its function in murine myometrium. *Journal of Physiology*, **2011**, 589, 1221-33	3.9	35
146	MicroRNAs dynamically remodel gastrointestinal smooth muscle cells. *PLoS ONE*, **2011**, 6, e18628	3.7	35
145	Smooth Muscle Cell Genome Browser: Enabling the Identification of Novel Serum Response Factor Target Genes. *PLoS ONE*, **2015**, 10, e0133751	3.7	35
144	Purinergic inhibitory regulation of murine detrusor muscles mediated by PDGFR□ interstitial cells. *Journal of Physiology*, **2014**, 592, 1283-93	3.9	34
143	Contribution of Kv4 channels toward the A-type potassium current in murine colonic myocytes. *Journal of Physiology*, **2002**, 544, 403-15	3.9	34
142	The cells and conductance mediating cholinergic neurotransmission in the murine proximal stomach. *Journal of Physiology*, **2018**, 596, 1549-1574	3.9	32
141	Ethylbromide tamoxifen, a membrane-impermeant antiestrogen, activates smooth muscle calcium-activated large-conductance potassium channels from the extracellular side. *Molecular Pharmacology*, **2002**, 61, 1105-13	4.3	32
140	Regulation of pacemaker frequency in the murine gastric antrum. *Journal of Physiology*, **2002**, 538, 145-55	3.9	31
139	Small conductance Ca2+-activated K+ channels are regulated by Ca2+-calmodulin-dependent protein kinase II in murine colonic myocytes. *Journal of Physiology*, **2000**, 524 Pt 2, 331-7	3.9	31
138	Parallel pathways mediate inhibitory effects of vasoactive intestinal polypeptide and nitric oxide in canine fundus. *British Journal of Pharmacology*, **1999**, 126, 1543-52	8.6	31

137	Spontaneous Electrical Activity and Rhythmicity in Gastrointestinal Smooth Muscles. *Advances in Experimental Medicine and Biology*, **2019**, 1124, 3-46	3.6	30
136	Prostaglandin regulation of gastric slow waves and peristalsis. *American Journal of Physiology - Renal Physiology*, **2009**, 296, G1180-90	5.1	30
135	Effects of new-generation inhibitors of the calcium-activated chloride channel anoctamin 1 on slow waves in the gastrointestinal tract. *British Journal of Pharmacology*, **2016**, 173, 1339-49	8.6	30
134	Basally activated nonselective cation currents regulate the resting membrane potential in human and monkey colonic smooth muscle. *American Journal of Physiology - Renal Physiology*, **2011**, 301, G287-96	5.1	29
133	PKC-epsilon translocation in enteric neurons and interstitial cells of Cajal in response to muscarinic stimulation. *American Journal of Physiology - Renal Physiology*, **2003**, 285, G593-601	5.1	29
132	Inward rectifier potassium conductance regulates membrane potential of canine colonic smooth muscle. *Journal of Physiology*, **1999**, 518, 247-56	3.9	29
131	Role of PI3-kinase in the development of interstitial cells and pacemaking in murine gastrointestinal smooth muscle. *Journal of Physiology*, **1999**, 516 (Pt 3), 835-46	3.9	29
130	Hyperpolarization and inhibition of contraction mediated by nitric oxide released from enteric inhibitory neurones in guinea-pig taenia coli. *British Journal of Pharmacology*, **1996**, 118, 49-56	8.6	29
129	Use of rhodamine 123 to label and lesion interstitial cells of Cajal in canine colonic circular muscle. *Anatomy and Embryology*, **1990**, 182, 215-24		29
128	Regulation of ATP-sensitive K(+) channels by protein kinase C in murine colonic myocytes. *American Journal of Physiology - Cell Physiology*, **2001**, 281, C857-64	5.4	28
127	Identification of interstitial cells in canine proximal colon using NADH diaphorase histochemistry. *Histochemistry*, **1993**, 99, 373-84		28
126	VIP and PACAP regulate localized Ca2+ transients via cAMP-dependent mechanism. *American Journal of Physiology - Cell Physiology*, **2006**, 291, C375-85	5.4	27
125	Regional variation in ICC distribution, pacemaking activity and neural responses in the longitudinal muscle of the murine stomach. *Journal of Physiology*, **2005**, 564, 523-40	3.9	27
124	Effects of the gap junction blocker glycyrrhetinic acid on gastrointestinal smooth muscle cells. *American Journal of Physiology - Renal Physiology*, **2005**, 288, G832-41	5.1	27
123	Uridine adenosine tetraphosphate is a novel neurogenic P2Y1 receptor activator in the gut. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 15821-6	11.5	26
122	Quantitative analysis by flow cytometry of interstitial cells of Cajal, pacemakers, and mediators of neurotransmission in the gastrointestinal tract **2004**, 62, 139-49		26
121	Purification of interstitial cells of Cajal by fluorescence-activated cell sorting. *American Journal of Physiology - Cell Physiology*, **2004**, 286, C448-56	5.4	26
120	Influence of intracellular Ca2+ and alternative splicing on the pharmacological profile of ANO1 channels. *American Journal of Physiology - Cell Physiology*, **2016**, 311, C437-51	5.4	25

119	A pH-sensitive potassium conductance (TASK) and its function in the murine gastrointestinal tract. *Journal of Physiology*, **2005**, 565, 243-59	3.9	24
118	Ultrastructural analysis of the transdifferentiation of smooth muscle to skeletal muscle in the murine esophagus. *Cell and Tissue Research*, **2000**, 301, 283-98	4.2	24
117	Inhibition of nitric oxide synthesis reveals non-cholinergic excitatory neurotransmission in the canine proximal colon. *British Journal of Pharmacology*, **1993**, 109, 739-47	8.6	24
116	Measurement of single channel open probability with voltage ramps. *Journal of Neuroscience Methods*, **1990**, 33, 157-63	3	24
115	Problems with extracellular recording of electrical activity in gastrointestinal muscle. *Nature Reviews Gastroenterology and Hepatology*, **2016**, 13, 731-741	24.2	23
114	Inhibitory Neural Regulation of the Ca Transients in Intramuscular Interstitial Cells of Cajal in the Small Intestine. *Frontiers in Physiology*, **2018**, 9, 328	4.6	21
113	Microtubule structures underlying the sarcoplasmic reticulum support peripheral coupling sites to regulate smooth muscle contractility. *Science Signaling*, **2017**, 10,	8.8	21
112	Excitatory Neuronal Responses of Ca Transients in Interstitial Cells of Cajal in the Small Intestine. *ENeuro*, **2018**, 5,	3.9	21
111	Responses to enteric motor neurons in the gastric fundus of mice with reduced intramuscular interstitial cells of cajal. *Journal of Neurogastroenterology and Motility*, **2014**, 20, 171-84	4.4	21
110	Nitric oxide-induced oxidative stress impairs pacemaker function of murine interstitial cells of Cajal during inflammation. *Pharmacological Research*, **2016**, 111, 838-848	10.2	21
109	Interstitial cells of Cajal: Primary targets of enteric motor innervation **2001**, 262, 125		21
108	Interstitial cells in the primate gastrointestinal tract. *Cell and Tissue Research*, **2012**, 350, 199-213	4.2	20
107	Block of inhibitory junction potentials and TREK-1 channels in murine colon by Ca2+ store-active drugs. *Journal of Physiology*, **2008**, 586, 1169-84	3.9	20
106	Inactivation of inducible nitric oxide synthase protects intestinal pacemaker cells from postoperative damage. *Journal of Physiology*, **2007**, 582, 755-65	3.9	20
105	Effects of female steroid hormones on A-type K+ currents in murine colon. *Journal of Physiology*, **2006**, 573, 453-68	3.9	19
104	Substance P modulates localized calcium transients and membrane current responses in murine colonic myocytes. *British Journal of Pharmacology*, **2003**, 138, 1233-43	8.6	19
103	Expression of nitric oxide synthase in mucosal cells of the canine colon. *Histochemistry and Cell Biology*, **1996**, 105, 33-41	2.4	19
102	Na+-K+-Cl- cotransporter (NKCC) maintains the chloride gradient to sustain pacemaker activity in interstitial cells of Cajal. *American Journal of Physiology - Renal Physiology*, **2016**, 311, G1037-G1046	5.1	19

101	Premature contractions of the bladder are suppressed by interactions between TRPV4 and SK3 channels in murine detrusor PDGFR□cells. *Scientific Reports*, **2017**, 7, 12245	4.9	18
100	Characterization of slow waves generated by myenteric interstitial cells of Cajal of the rabbit small intestine. *American Journal of Physiology - Renal Physiology*, **2015**, 308, G378-88	5.1	18
99	Regulation of A-type potassium channels in murine colonic myocytes by phosphatase activity. *American Journal of Physiology - Cell Physiology*, **2001**, 281, C2020-8	5.4	18
98	Molecular and functional characterization of inwardly rectifying K currents in murine proximal colon. *Journal of Physiology*, **2018**, 596, 379-391	3.9	18
97	Tonic inhibition of murine proximal colon is due to nitrergic suppression of Ca signaling in interstitial cells of Cajal. *Scientific Reports*, **2019**, 9, 4402	4.9	17
96	Ca signalling in mouse urethral smooth muscle in situ: role of Ca stores and Ca influx mechanisms. *Journal of Physiology*, **2018**, 596, 1433-1466	3.9	17
95	The Mystery of the Interstitial Cells in the Urinary Bladder. *Annual Review of Pharmacology and Toxicology*, **2018**, 58, 603-623	17.9	17
94	Differential expression of ionic conductances in interstitial cells of Cajal in the murine gastric antrum. *Journal of Physiology*, **2008**, 586, 859-73	3.9	17
93	SOCE mediated by STIM and Orai is essential for pacemaker activity in the interstitial cells of Cajal in the gastrointestinal tract. *Science Signaling*, **2018**, 11,	8.8	16
92	Interstitial cells of Cajal generate spontaneous transient depolarizations in the rat gastric fundus. *American Journal of Physiology - Renal Physiology*, **2009**, 297, G814-24	5.1	16
91	Transcriptome analysis of PDGFR⊞ cells identifies T-type Ca2+ channel CACNA1G as a new pathological marker for PDGFR⊞ cell hyperplasia. *PLoS ONE*, **2017**, 12, e0182265	3.7	16
90	A novel class of interstitial cells in the mouse and monkey female reproductive tracts. *Biology of Reproduction*, **2015**, 92, 102	3.9	15
89	Protease-activated receptors modulate excitability of murine colonic smooth muscles by differential effects on interstitial cells. *Journal of Physiology*, **2015**, 593, 1169-81	3.9	15
88	Regulation of gastric electrical and mechanical activity by cholinesterases in mice. *Journal of Neurogastroenterology and Motility*, **2015**, 21, 200-16	4.4	15
87	Conductances responsible for slow wave generation and propagation in interstitial cells of Cajal. *Current Opinion in Pharmacology*, **2003**, 3, 579-82	5.1	15
86	ICC in neurotransmission: hard to swallow a lack of involvement. *Gastroenterology*, **2002**, 122, 1185-6; author reply 1186-7	13.3	15
85	Regulation of neural responses in the canine pyloric sphincter by opioids. *British Journal of Pharmacology*, **1993**, 108, 1024-30	8.6	15
84	The effects of mitochondrial inhibitors on Ca signalling and electrical conductances required for pacemaking in interstitial cells of Cajal in the mouse small intestine. *Cell Calcium*, **2018**, 72, 1-17	4	14

83	Loss of nitric oxide-mediated inhibition of purine neurotransmitter release in the colon in the absence of interstitial cells of Cajal. *American Journal of Physiology - Renal Physiology*, **2017**, 313, G419-G433	5.1	14
82	Dissociation between electrical and mechanical responses to nitrergic stimulation in the canine gastric fundus. *Journal of Physiology*, **1998**, 509 (Pt 2), 437-48	3.9	14
81	An outwardly rectifying and deactivating chloride channel expressed by interstitial cells of cajal from the murine small intestine. *Journal of Membrane Biology*, **2008**, 221, 123-32	2.3	14
80	Differential sensitivity of gastric and small intestinal muscles to inducible knockdown of anoctamin 1 and the effects on gastrointestinal motility. *Journal of Physiology*, **2019**, 597, 2337-2360	3.9	13
79	Electrical slow waves in the mouse oviduct are dependent on extracellular and intracellular calcium sources. *American Journal of Physiology - Cell Physiology*, **2011**, 301, C1458-69	5.4	13
78	Inhibitory responses mediated by vagal nerve stimulation are diminished in stomachs of mice with reduced intramuscular interstitial cells of Cajal. *Scientific Reports*, **2017**, 7, 44759	4.9	12
77	Ca signalling behaviours of intramuscular interstitial cells of Cajal in the murine colon. *Journal of Physiology*, **2019**, 597, 3587-3617	3.9	12
76	Spontaneous transient hyperpolarizations in the rabbit small intestine. *Journal of Physiology*, **2014**, 592, 4733-45	3.9	12
75	Novel human and mouse genes encoding a shank-interacting protein and its upregulation in gastric fundus of W/WV mouse. *Journal of Gastroenterology and Hepatology (Australia)*, **2003**, 18, 712-8	4	12
74	Adenovirus-based short hairpin RNA vectors containing an EGFP marker and mouse U6, human H1, or human U6 promoter. *BioTechniques*, **2005**, 38, 625-7	2.5	12
73	CrossTalk proposal: Interstitial cells are involved and physiologically important in neuromuscular transmission in the gut. *Journal of Physiology*, **2016**, 594, 1507-9	3.9	12
72	Applications of Spatio-temporal Mapping and Particle Analysis Techniques to Quantify Intracellular Ca2+ Signaling In Situ. *Journal of Visualized Experiments*, **2019**,	1.6	11
71	TRPML1 channels initiate Ca sparks in vascular smooth muscle cells. *Science Signaling*, **2020**, 13,	8.8	11
70	UTP activates small-conductance Ca2+-activated K+ channels in murine detrusor PDGFR□ cells. *American Journal of Physiology - Renal Physiology*, **2015**, 309, F569-74	4.3	11
69	Smooth Muscle Transcriptome Browser: offering genome-wide references and expression profiles of transcripts expressed in intestinal SMC, ICC, and PDGFR□ cells. *Scientific Reports*, **2019**, 9, 387	4.9	11
68	miR-10b-5p Rescues Diabetes and Gastrointestinal Dysmotility. *Gastroenterology*, **2021**, 160, 1662-1678.e18	13.3	11
67	Serotonin Deficiency Is Associated With Delayed Gastric Emptying. *Gastroenterology*, **2021**, 160, 2451-2466.e19	13.3	10
66	An ex□vivo bladder model with detrusor smooth muscle removed to analyse biologically active mediators released from the suburothelium. *Journal of Physiology*, **2019**, 597, 1467-1485	3.9	10

65	A transcriptomic insight into the impacts of mast cells in lung, breast, and colon cancers. *OncoImmunology*, **2017**, 6, e1360457	7.2	9
64	Serum Response Factor Is Essential for Prenatal Gastrointestinal Smooth Muscle Development and Maintenance of Differentiated Phenotype. *Journal of Neurogastroenterology and Motility*, **2015**, 21, 589-602	4.4	9
63	Caffeine inhibits nonselective cationic currents in interstitial cells of Cajal from the murine jejunum. *American Journal of Physiology - Cell Physiology*, **2009**, 297, C971-8	5.4	9
62	Enteric neuropathology of congenital intestinal obstruction: A case report. *World Journal of Gastroenterology*, **2006**, 12, 5229-33	5.6	9
61	Pacemaker function and neural responsiveness of subserosal interstitial cells of Cajal in the mouse colon. *Journal of Physiology*, **2020**, 598, 651-681	3.9	9
60	Na/Ca Exchange and Pacemaker Activity of Interstitial Cells of Cajal. *Frontiers in Physiology*, **2020**, 11, 230	4.6	9
59	Serum response factor regulates smooth muscle contractility via myotonic dystrophy protein kinases and L-type calcium channels. *PLoS ONE*, **2017**, 12, e0171262	3.7	8
58	Novel human, mouse and xenopus genes encoding a member of the RAS superfamily of low-molecular-weight GTP-binding proteins and its downregulation in W/WV mouse jejunum. *Journal of Gastroenterology and Hepatology (Australia)*, **2004**, 19, 211-7	4	8
57	Intracellular microelectrode recording to characterize inhibitory neuromuscular transmission in jejunum of horses. *American Journal of Veterinary Research*, **2000**, 61, 362-8	1.1	8
56	Enteric Inhibitory Neurotransmission, Starting Down Under. *Advances in Experimental Medicine and Biology*, **2016**, 891, 21-9	3.6	8
55	Identification and classification of interstitial cells in the mouse renal pelvis. *Journal of Physiology*, **2020**, 598, 3283-3307	3.9	7
54	A novel postsynaptic signal pathway of sympathetic neural regulation of murine colonic motility. *FASEB Journal*, **2020**, 34, 5563-5577	0.9	7
53	Bone Marrow Derived Kit-positive Cells Colonize the Gut but Fail to Restore Pacemaker Function in Intestines Lacking Interstitial Cells of Cajal. *Journal of Neurogastroenterology and Motility*, **2014**, 20, 326-37	4.4	7
52	The intracellular Ca release channel TRPML1 regulates lower urinary tract smooth muscle contractility. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 30775-30786	11.5	7
51	Convergence of inhibitory neural inputs regulate motor activity in the murine and monkey stomach. *American Journal of Physiology - Renal Physiology*, **2016**, 311, G838-G851	5.1	6
50	Opiates, the Pylorus, and Gastroparesis. *Gastroenterology*, **2020**, 159, 414-421	13.3	6
49	Excitatory cholinergic responses in mouse colon intramuscular interstitial cells of Cajal are due to enhanced Ca release via M receptor activation. *FASEB Journal*, **2020**, 34, 10073-10095	0.9	6
48	Extracellular metabolism of the enteric inhibitory neurotransmitter nicotinamide adenine dinucleotide (NAD) in the murine colon. *Journal of Physiology*, **2020**, 598, 4509-4521	3.9	6

47	The Role of Prostaglandins in Disrupted Gastric Motor Activity Associated With Type 2 Diabetes. *Diabetes*, **2019**, 68, 637-647	0.9	6
46	Ca signaling driving pacemaker activity in submucosal interstitial cells of Cajal in the murine colon. *ELife*, **2021**, 10,	8.9	6
45	Colonic Motility Is Improved by the Activation of 5-HT Receptors on Interstitial Cells of Cajal in Diabetic Mice. *Gastroenterology*, **2021**, 161, 608-622.e7	13.3	6
44	Na-K-2Cl Cotransporter and Store-Operated Ca Entry in Pacemaking by Interstitial Cells of Cajal. *Biophysical Journal*, **2019**, 117, 767-779	2.9	5
43	Norepinephrine Has Dual Effects on Human Colonic Contractions Through Distinct Subtypes of Alpha 1 Adrenoceptors. *Cellular and Molecular Gastroenterology and Hepatology*, **2020**, 10, 658-671.e1	7.9	5
42	Role of Telokin in Regulating Murine Gastric Fundus Smooth Muscle Tension. *PLoS ONE*, **2015**, 10, e0134876	3.7	5
41	Myosalpinx Contractions Are Essential for Egg Transport Along the Oviduct and Are Disrupted in Reproductive Tract Diseases. *Advances in Experimental Medicine and Biology*, **2019**, 1124, 265-294	3.6	4
40	A novel intramuscular Interstitial Cell of Cajal is a candidate for generating pacemaker activity in the mouse internal anal sphincter. *Scientific Reports*, **2020**, 10, 10378	4.9	4
39	Separation of two Cl(-) currents in cultured human and murine mesangial cells: biophysical and pharmacological characteristics of I(Cl.vol) and I(Cl.Ca). *Journal of Vascular Research*, **2002**, 39, 426-36	1.9	4
38	Electrophysiology of the gastric musculature **1989**, 187-216		4
37	A high throughput machine-learning driven analysis of Ca spatio-temporal maps. *Cell Calcium*, **2020**, 91, 102260	4	4
36	Pharmacological properties of native CaCCs and TMEM16A. *Channels*, **2014**, 8, 473-4	3	3
35	Excitation-contraction coupling in gastric muscles. *Digestive Diseases and Sciences*, **1994**, 39, 69S-72S	4	3
34	Oblique smooth muscle bundles between the circular and longitudinal muscle layers in the canine proximal colon. *Archives of Histology and Cytology*, **1994**, 57, 29-45		3
33	Gastroparesis. *Gastroenterology*, **2021**,	13.3	3
32	Extracellular gastrointestinal electrical recordings: movement not electrophysiology. *Nature Reviews Gastroenterology and Hepatology*, **2017**, 14, 372	24.2	2
31	Cellular mediators of nitrergic neurotransmission in GI smooth muscles: no easy answer. *Journal of Physiology*, **2015**, 593, 4511-2	3.9	2
30	Appropriate experimental approach is critical for identifying neurotransmitter substances: application to enteric purinergic neurotransmission. *American Journal of Physiology - Renal Physiology*, **2015**, 309, G608-9	5.1	2

29	Stretch-activated conductances in smooth muscles. *Current Topics in Membranes*, **2007**, 59, 511-40	2.2	2
28	Exaggeration of the cholecystokinin-induced motor response in the cat gastrointestinal tract. *Digestion*, **1989**, 43, 196-203	3.6	2
27	Expression of Alpha-type Platelet-derived Growth Factor Receptor-influenced Genes Predicts Clinical Outcome in Glioma. *Translational Oncology*, **2020**, 13, 233-240	4.9	2
26	Nerves, smooth muscle cells and interstitial cells in the GI tract: Molecular and cellular interactions **2020**, 3-16		2
25	Rebuttal from Kenton M. Sanders, Sean M. Ward and Andreas Friebe. *Journal of Physiology*, **2016**, 594, 1515	3.9	2
24	Molecular and functional characterization of detrusor PDGFR□positive cells in spinal cord injury-induced detrusor overactivity. *Scientific Reports*, **2021**, 11, 16268	4.9	2
23	Neurotransmitters responsible for purinergic motor neurotransmission and regulation of GI motility. *Autonomic Neuroscience: Basic and Clinical*, **2021**, 234, 102829	2.4	2
22	Power comes from technical fidelity, not from ease of use. *Nature Reviews Gastroenterology and Hepatology*, **2017**, 14, 372	24.2	1
21	Reply to O'Grady et al. *Physiological Reviews*, **2015**, 95, 693-4	47.9	1
20	Contribution of Ca1.2 Ca channels and store-operated Ca entry to pig urethral smooth muscle contraction. *American Journal of Physiology - Renal Physiology*, **2020**, 318, F496-F505	4.3	1
19	Ca transients in ICC-MY define the basis for the dominance of the corpus in gastric pacemaking. *Cell Calcium*, **2021**, 99, 102472	4	1
18	Isolation of novel mouse genes that were differentially expressed in W/W(V) mouse fundus. *Journal of Gastroenterology*, **2004**, 39, 238-41	6.9	0
17	Distinguishing the contributions of neuronal and mucosal serotonin in the regulation of colonic motility.. *Neurogastroenterology and Motility*, **2022**, e14361	4	0
16	Propulsive colonic contractions are mediated by inhibition-driven poststimulus responses that originate in interstitial cells of Cajal.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2123020119	11.5	0
15	Transcriptome profiling of subepithelial PDGFR□cells in colonic mucosa reveals several cell-selective markers.. *PLoS ONE*, **2022**, 17, e0261743	3.7	0
14	New open-source software for subcellular segmentation and analysis of spatiotemporal fluorescence signals using deep learning.. *IScience*, **2022**, 25, 104277	6.1	0
13	Measuring Gastrointestinal Electrical Activity With Extracellular Electrodes: Authors's Reply. *Journal of Neurogastroenterology and Motility*, **2015**, 21, 625-6	4.4	
12	Reply from Kenton M. Sanders, Bhupal P. Bhetwal and Brian A. Perrino. *Journal of Physiology*, **2013**, 591, 5415-6	3.9	

11	Alosetron and the rapid component of delayed rectifying potassium current in cardiac cells. *Life Sciences*, **2001**, 68, 1585-91	6.8
10	Electrophysiology of dissociated gastrointestinal muscle cells **1989**, 163-185	
9	Inhibition of in vivo Neural Vasoconstriction by Exogenous Catecholamines. *Journal of Vascular Research*, **1975**, 12, 13-20	1.9
8	The effect of mitochondrial inhibitors on Ca2+ signalling and pacemaking conductances in interstitial cells of Cajal in the mouse small intestine. *FASEB Journal*, **2018**, 32, 764.3	0.9
7	Elucidating the physiological role of platelet-derived growth factor receptor-alpha+ cells and characterization of ANO1 in the murine upper urinary tract.. *FASEB Journal*, **2018**, 32, 770.15	0.9
6	Excitatory nerve stimulation and agonist stimulation induce gastric fundus smooth muscle contraction via stimulus dependent Ca2+ sensitization pathways-not via myosin light chain phosphorylation. *FASEB Journal*, **2012**, 26, 1163.5	0.9
5	Genome-wide discovery of gene isoforms expressed in primary smooth muscle cells. *FASEB Journal*, **2013**, 27, 939.9	0.9
4	Low-voltage-activated inward current in murine antral smooth muscle cells is an artifact. *American Journal of Physiology - Cell Physiology*, **2021**, 320, C966-C973	5.4
3	Characterization of the A-type potassium current in murine gastric fundus smooth muscles. *American Journal of Physiology - Cell Physiology*, **2021**, 321, C684-C693	5.4
2	Smooth muscle and pacemakers of the gut **2022**, 213-241	
1	Role of detrusor PDGFR□cells in mouse model of cyclophosphamide-induced detrusor overactivity.. *Scientific Reports*, **2022**, 12, 5071	4.9