

Hikaru Hashitani

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74 papers	1,641 citations	22 h-index	38 g-index
75 ext. papers	1,761 ext. citations	4.2 avg, IF	4.78 L-index

#	Paper	IF	Citations
74	Role of interstitial cells and gap junctions in the transmission of spontaneous Ca ²⁺ signals in detrusor smooth muscles of the guinea-pig urinary bladder. <i>Journal of Physiology</i> , 2004 , 559, 567-81	3.9	133
73	Properties of spontaneous depolarizations in circular smooth muscle cells of rabbit urethra. <i>British Journal of Pharmacology</i> , 1996 , 118, 1627-32	8.6	112
72	Correlation between spontaneous electrical, calcium and mechanical activity in detrusor smooth muscle of the guinea-pig bladder. <i>British Journal of Pharmacology</i> , 2004 , 141, 183-93	8.6	111
71	Ionic basis for the regulation of spontaneous excitation in detrusor smooth muscle cells of the guinea-pig urinary bladder. <i>British Journal of Pharmacology</i> , 2003 , 140, 159-69	8.6	109
70	Origin and propagation of spontaneous excitation in smooth muscle of the guinea-pig urinary bladder. <i>Journal of Physiology</i> , 2001 , 530, 273-86	3.9	105
69	Electrical properties of detrusor smooth muscles from the pig and human urinary bladder. <i>British Journal of Pharmacology</i> , 2003 , 140, 146-58	8.6	87
68	Altered distribution of interstitial cells in the guinea pig bladder following bladder outlet obstruction. <i>Neurourology and Urodynamics</i> , 2008 , 27, 330-40	2.3	59
67	Spontaneous electrical and Ca ²⁺ signals in typical and atypical smooth muscle cells and interstitial cell of Cajal-like cells of mouse renal pelvis. <i>Journal of Physiology</i> , 2007 , 583, 1049-68	3.9	55
66	Interaction between interstitial cells and smooth muscles in the lower urinary tract and penis. <i>Journal of Physiology</i> , 2006 , 576, 707-14	3.9	51
65	Role of K ⁺ channels in regulating spontaneous activity in detrusor smooth muscle in situ in the mouse bladder. <i>Journal of Urology</i> , 2009 , 181, 2355-65	2.5	34
64	Atypical slow waves generated in gastric corpus provide dominant pacemaker activity in guinea pig stomach. <i>Journal of Physiology</i> , 2005 , 569, 459-65	3.9	34
63	Properties of spontaneous Ca ²⁺ transients recorded from interstitial cells of Cajal-like cells of the rabbit urethra in situ. <i>Journal of Physiology</i> , 2007 , 583, 505-19	3.9	33
62	Functional properties of suburothelial microvessels in the rat bladder. <i>Journal of Urology</i> , 2011 , 185, 2382-91	2.5	32
61	Identification of interstitial cells of Cajal in corporal tissues of the guinea-pig penis. <i>British Journal of Pharmacology</i> , 2004 , 141, 199-204	8.6	30
60	Spontaneous electrical and Ca ²⁺ signals in the mouse renal pelvis that drive pyeloureteric peristalsis. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2010 , 37, 509-15	3	28
59	Interaction between spontaneous and neurally mediated regulation of smooth muscle tone in the rabbit corpus cavernosum. <i>Journal of Physiology</i> , 2005 , 569, 723-35	3.9	28
58	Functional and morphological properties of pericytes in suburothelial venules of the mouse bladder. <i>British Journal of Pharmacology</i> , 2012 , 167, 1723-36	8.6	27

57	EFFECTS OF ISOPROTERENOL ON SPONTANEOUS EXCITATIONS IN DETRUSOR SMOOTH MUSCLE CELLS OF THE GUINEA PIG. <i>Journal of Urology</i> , 2001 , 166, 335-340	2.5	27
56	Immunohistochemical characteristics of suburothelial microvasculature in the mouse bladder. <i>Histochemistry and Cell Biology</i> , 2013 , 140, 189-200	2.4	25
55	Functions of ICC-like cells in the urinary tract and male genital organs. <i>Journal of Cellular and Molecular Medicine</i> , 2010 , 14, 1199-211	5.6	25
54	Role of nitric oxide/cyclic GMP pathway in regulating spontaneous excitations in detrusor smooth muscle of the guinea-pig bladder. <i>Neurourology and Urodynamics</i> , 2008 , 27, 446-53	2.3	24
53	Potassium and ANO1/ TMEM16A chloride channel profiles distinguish atypical and typical smooth muscle cells from interstitial cells in the mouse renal pelvis. <i>British Journal of Pharmacology</i> , 2012 , 165, 2389-408	8.6	23
52	Role of perinuclear mitochondria in the spatiotemporal dynamics of spontaneous Ca ²⁺ waves in interstitial cells of Cajal-like cells of the rabbit urethra. <i>British Journal of Pharmacology</i> , 2010 , 161, 680-94	8.6	21
51	Functional coupling of TRPV4 channels and BK channels in regulating spontaneous contractions of the guinea pig urinary bladder. <i>Pflugers Archiv European Journal of Physiology</i> , 2016 , 468, 1573-85	4.6	20
50	Distinct effects of CGRP on typical and atypical smooth muscle cells involved in generating spontaneous contractions in the mouse renal pelvis. <i>British Journal of Pharmacology</i> , 2009 , 158, 2030-45	8.6	20
49	The role of Ni(2+)-sensitive T-type Ca(2+) channels in the regulation of spontaneous excitation in detrusor smooth muscles of the guinea-pig bladder. <i>BJU International</i> , 2006 , 97, 182-9	5.6	20
48	Altered detrusor gap junction communications induce storage symptoms in bladder inflammation: a mouse cyclophosphamide-induced model of cystitis. <i>PLoS ONE</i> , 2014 , 9, e104216	3.7	18
47	Cellular mechanisms of nitric oxide-induced relaxation of corporeal smooth muscle in the guinea-pig. <i>Journal of Physiology</i> , 2002 , 538, 573-81	3.9	18
46	Neurohumoral regulation of spontaneous constrictions in suburothelial venules of the rat urinary bladder. <i>Vascular Pharmacology</i> , 2014 , 60, 84-94	5.9	16
45	Role of mitochondria in the generation of spontaneous activity in detrusor smooth muscles of the Guinea pig bladder. <i>Journal of Urology</i> , 2003 , 170, 628-33	2.5	16
44	Spontaneous activity in the microvasculature of visceral organs: role of pericytes and voltage-dependent Ca(2+) channels. <i>Journal of Physiology</i> , 2016 , 594, 555-65	3.9	16
43	Properties of submucosal venules in the rat distal colon. <i>British Journal of Pharmacology</i> , 2013 , 170, 968-77	8.7	14
42	Effects of Y-26763, A Novel K-Channel Opener, on Electrical Responses of Smooth Muscles in the Guinea Pig Bladder. <i>Journal of Urology</i> , 1996 , 155, 1454-1458	2.5	14
41	Role of PTHrP and Sensory Nerve Peptides in Regulating Contractility of Muscularis Mucosae and Detrusor Smooth Muscle in the Guinea Pig Bladder. <i>Journal of Urology</i> , 2016 , 196, 1287-94	2.5	14
40	Voltage-operated Ca(2) (+) currents and Ca(2) (+) -activated Cl(-) currents in single interstitial cells of the guinea-pig prostate. <i>BJU International</i> , 2014 , 114, 436-46	5.6	13

39	Spontaneous Ca ²⁺ signaling of interstitial cells in the guinea pig prostate. <i>Journal of Urology</i> , 2011 , 186, 2478-86	2.5	13
38	Interstitial cell modulation of pyeloureteric peristalsis in the mouse renal pelvis examined using FIBSEM tomography and calcium indicators. <i>Pflugers Archiv European Journal of Physiology</i> , 2017 , 469, 797-813	4.6	12
37	Heterogeneous CPA sensitivity of spontaneous excitation in smooth muscle of the rabbit urethra. <i>British Journal of Pharmacology</i> , 2006 , 148, 340-9	8.6	12
36	Neuroeffector transmission to different layers of smooth muscle in the rat penile bulb. <i>Journal of Physiology</i> , 2000 , 524 Pt 2, 549-63	3.9	12
35	Effects of K(+) channel openers on spontaneous action potentials in detrusor smooth muscle of the guinea-pig urinary bladder. <i>European Journal of Pharmacology</i> , 2016 , 789, 179-186	5.3	12
34	Are oxidative stress and ischemia significant causes of bladder damage leading to lower urinary tract dysfunction? Report from the ICI-RS 2019. <i>Neurourology and Urodynamics</i> , 2020 , 39 Suppl 3, S16-S22	2.3	11
33	Role of capillary pericytes in the integration of spontaneous Ca transients in the suburothelial microvasculature in situ of the mouse bladder. <i>Journal of Physiology</i> , 2018 , 596, 3531-3552	3.9	11
32	Functional properties of submucosal venules in the rat stomach. <i>Pflugers Archiv European Journal of Physiology</i> , 2015 , 467, 1327-42	4.6	10
31	What are the origins and relevance of spontaneous bladder contractions? ICI-RS 2017. <i>Neurourology and Urodynamics</i> , 2018 , 37, S13-S19	2.3	10
30	Mechanisms underlying spontaneous constrictions of postcapillary venules in the rat stomach. <i>Pflugers Archiv European Journal of Physiology</i> , 2016 , 468, 279-91	4.6	9
29	Contractile elements and their sympathetic regulations in the pig urinary bladder: a species and regional comparative study. <i>Cell and Tissue Research</i> , 2020 , 379, 373-387	4.2	9
28	Pacemaker role of pericytes in generating synchronized spontaneous Ca ²⁺ transients in the myenteric microvasculature of the guinea-pig gastric antrum. <i>Cell Calcium</i> , 2015 , 58, 442-56	4	8
27	Role of K channels in regulating spontaneous activity in the muscularis mucosae of guinea pig bladder. <i>European Journal of Pharmacology</i> , 2018 , 818, 30-37	5.3	8
26	Nerve-induced responses of mouse vaginal smooth muscle. <i>Pflugers Archiv European Journal of Physiology</i> , 2017 , 469, 1373-1385	4.6	8
25	PTHrP is endogenous relaxant for spontaneous smooth muscle contraction in urinary bladder of female rat. <i>Endocrinology</i> , 2013 , 154, 2058-68	4.8	8
24	Pacemaker Mechanisms Driving Pyeloureteric Peristalsis: Modulatory Role of Interstitial Cells. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1124, 77-101	3.6	7
23	Voltage dependence of slow wave frequency in the guinea pig prostate. <i>Journal of Urology</i> , 2014 , 192, 1286-92	2.5	7
22	New targets for overactive bladder-ICI-RS 2109. <i>Neurourology and Urodynamics</i> , 2020 , 39 Suppl 3, S113-S131	1.3	7

21	Role of Pericytes in the Initiation and Propagation of Spontaneous Activity in the Microvasculature. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1124, 329-356	3.6	6
20	Properties of SK3 channel-expressing PDGFR(+) cells in the rodent urinary bladder. <i>European Journal of Pharmacology</i> , 2019 , 860, 172552	5.3	6
19	Role of prostatic interstitial cells in prostate motility. <i>Journal of Smooth Muscle Research</i> , 2017 , 53, 57-72.	4	6
18	Role of mucosa in generating spontaneous activity in the guinea pig seminal vesicle. <i>Journal of Physiology</i> , 2017 , 595, 4803-4821	3.9	5
17	Properties of synchronous spontaneous Ca transients in the mural cells of rat rectal arterioles. <i>Pflügers Archiv European Journal of Physiology</i> , 2017 , 469, 1189-1202	4.6	5
16	Angiotensin receptor-1A knockout leads to hydronephrosis not associated with a loss of pyeloureteric peristalsis in the mouse renal pelvis. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2016 , 43, 535-42	3	5
15	Contractile properties of periosteal arterioles in the guinea-pig tibia. <i>Pflügers Archiv European Journal of Physiology</i> , 2017 , 469, 1203-1213	4.6	4
14	Synchrony of spontaneous Ca activity in microvascular mural cells. <i>Journal of Smooth Muscle Research</i> , 2020 , 56, 1-18	0.4	4
13	Electrical properties of purinergic transmission in smooth muscle of the guinea-pig prostate. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2016 , 194, 8-16	2.4	4
12	Neural regulation of the contractility of nutrient artery in the guinea pig tibia. <i>Pflügers Archiv European Journal of Physiology</i> , 2020 , 472, 481-494	4.6	3
11	Functional heterogeneity of PDGFR(+) cells in spontaneously active urogenital tissues. <i>Neurourology and Urodynamics</i> , 2020 , 39, 1667-1678	2.3	2
10	NO-mediated signal transmission in bladder vasculature as a therapeutic target of PDE5 inhibitors. Rodent model studies. <i>British Journal of Pharmacology</i> , 2021 , 178, 1073-1094	8.6	2
9	Role of K channels in maintaining the synchrony of spontaneous Ca transients in the mural cells of rat rectal submucosal arterioles. <i>Pflügers Archiv European Journal of Physiology</i> , 2019 , 471, 1025-1040	4.6	1
8	Exercise-induced sympathetic dilatation in arterioles of the guinea pig tibial periosteum. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2019 , 217, 7-17	2.4	1
7	Comparative effects of angiotensin II on the contractility of muscularis mucosae and detrusor in the pig urinary bladder. <i>Neurourology and Urodynamics</i> , 2021 , 40, 102-111	2.3	1
6	Mucosa-Dependent, Stretch-Sensitive Spontaneous Activity in Seminal Vesicle. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1124, 217-231	3.6	0
5	ATYPICAL or INTERSTITIAL, take your PIC. <i>Journal of Physiology</i> , 2020 , 598, 3061-3062	3.9	0
4	Mechanisms underlying the prokinetic effects of endogenous glucagon-like peptide-1 in the rat proximal colon. <i>American Journal of Physiology - Renal Physiology</i> , 2021 , 321, G617-G627	5.1	0

- 3 Mechanosensitive modulation of peristaltic contractions in the mouse renal pelvis.. *European Journal of Pharmacology*, **2022**, 920, 174834 5.3 ○
- 2 Factors which determine the duration of follower potentials in longitudinal smooth muscle isolated from the guinea-pig stomach antrum. *Journal of Smooth Muscle Research*, **2011**, 47, 89-110 ○.4
- 1 Functional nitrenergic innervation of smooth muscle structures in the mucosa of pig lower urinary tract. *Cell and Tissue Research*, **2021**, 386, 513-531 4.2