Hikaru Hashitani

List of Publications by Year
in descending order

75 papers	1,907 citations	257450 24 h-index	276875 41 g-index
75 all docs	75 docs citations	75 times ranked	923 citing authors

#	Article	IF	Citations
1	Role of interstitial cells and gap junctions in the transmission of spontaneous Ca2+signals in detrusor smooth muscles of the guinea-pig urinary bladder. Journal of Physiology, 2004, 559, 567-581.	2.9	146
2	Origin and propagation of spontaneous excitation in smooth muscle of the guineaâ€pig urinary bladder. Journal of Physiology, 2001, 530, 273-286.	2.9	119
3	Properties of spontaneous depolarizations in circular smooth muscle cells of rabbit urethra. British Journal of Pharmacology, 1996, 118, 1627-1632.	5.4	118
4	Correlation between spontaneous electrical, calcium and mechanical activity in detrusor smooth muscle of the guinea-pig bladder. British Journal of Pharmacology, 2004, 141, 183-193.	5.4	117
5	Ionic basis for the regulation of spontaneous excitation in detrusor smooth muscle cells of the guinea-pig urinary bladder. British Journal of Pharmacology, 2003, 140, 159-169.	5.4	116
6	Electrical properties of detrusor smooth muscles from the pig and human urinary bladder. British Journal of Pharmacology, 2003, 140, 146-158.	5.4	92
7	Altered distribution of interstitial cells in the guinea pig bladder following bladder outlet obstruction. Neurourology and Urodynamics, 2008, 27, 330-340.	1.5	64
8	Spontaneous electrical and Ca²⁺ signals in typical and atypical smooth muscle cells and interstitial cell of Cajalâ€like cells of mouse renal pelvis. Journal of Physiology, 2007, 583, 1049-1068.	2.9	63
9	Interaction between interstitial cells and smooth muscles in the lower urinary tract and penis. Journal of Physiology, 2006, 576, 707-714.	2.9	57
10	Properties of spontaneous Ca²⁺ transients recorded from interstitial cells of Cajalâ€like cells of the rabbit urethra in situ. Journal of Physiology, 2007, 583, 505-519.	2.9	38
11	Role of K ⁺ Channels in Regulating Spontaneous Activity in Detrusor Smooth Muscle In Situ in the Mouse Bladder. Journal of Urology, 2009, 181, 2355-2365.	0.4	38
12	Atypical slow waves generated in gastric corpus provide dominant pacemaker activity in guinea pig stomach. Journal of Physiology, 2005, 569, 459-465.	2.9	37
13	Functional Properties of Suburothelial Microvessels in the Rat Bladder. Journal of Urology, 2011, 185, 2382-2391.	0.4	36
14	Spontaneous electrical and Ca²⁺ signals in the mouse renal pelvis that drive pyeloureteric peristalsis. Clinical and Experimental Pharmacology and Physiology, 2010, 37, 509-515.	1.9	33
15	Functional and morphological properties of pericytes in suburothelial venules of the mouse bladder. British Journal of Pharmacology, 2012, 167, 1723-1736.	5.4	33
16	Functions of ICCâ€like cells in the urinary tract and male genital organs. Journal of Cellular and Molecular Medicine, 2010, 14, 1199-1211.	3.6	32
17	Identification of interstitial cells of Cajal in corporal tissues of the guinea-pig penis. British Journal of Pharmacology, 2004, 141, 199-204.	5.4	31
18	Interaction between spontaneous and neurally mediated regulation of smooth muscle tone in the rabbit corpus cavernosum. Journal of Physiology, 2005, 569, 723-735.	2.9	30

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19	Role of nitric oxide/cyclic GMP pathway in regulating spontaneous excitations in detrusor smooth muscle of the guineaâ€pig bladder. Neurourology and Urodynamics, 2008, 27, 446-453.	1.5	29
20	Potassium and ANO1/ TMEM16A chloride channel profiles distinguish atypical and typical smooth muscle cells from interstitial cells in the mouse renal pelvis. British Journal of Pharmacology, 2012, 165, 2389-2408.	5.4	29
21	EFFECTS OF ISOPROTERENOL ON SPONTANEOUS EXCITATIONS IN DETRUSOR SMOOTH MUSCLE CELLS OF THE GUINEA PIG. Journal of Urology, 2001, 166, 335-340.	0.4	28
22	Role of perinuclear mitochondria in the spatiotemporal dynamics of spontaneous Ca²⁺ waves in interstitial cells of Cajalâ€like cells of the rabbit urethra. British Journal of Pharmacology, 2010, 161, 680-694.	5.4	28
23	Immunohistochemical characteristics of suburothelial microvasculature in the mouse bladder. Histochemistry and Cell Biology, 2013, 140, 189-200.	1.7	26
24	Distinct effects of CGRP on typical and atypical smooth muscle cells involved in generating spontaneous contractions in the mouse renal pelvis. British Journal of Pharmacology, 2009, 158, 2030-2045.	5.4	25
25	Altered Detrusor Gap Junction Communications Induce Storage Symptoms in Bladder Inflammation: A Mouse Cyclophosphamide-Induced Model of Cystitis. PLoS ONE, 2014, 9, e104216.	2.5	23
26	Functional coupling of TRPV4 channels and BK channels in regulating spontaneous contractions of the guinea pig urinary bladder. Pflugers Archiv European Journal of Physiology, 2016, 468, 1573-1585.	2.8	23
27	Cellular mechanisms of nitric oxideâ€induced relaxation of corporeal smooth muscle in the guineaâ€pig. Journal of Physiology, 2002, 538, 573-581.	2.9	22
28	The role of Ni2+-sensitive T-type Ca2+ channels in the regulation of spontaneous excitation in detrusor smooth muscles of the guinea-pig bladder. BJU International, 2006, 97, 182-189.	2.5	21
29	Are oxidative stress and ischemia significant causes of bladder damage leading to lower urinary tract dysfunction? Report from the ICIâ€RS 2019. Neurourology and Urodynamics, 2020, 39, S16-S22.	1.5	21
30	Role of PTHrP and Sensory Nerve Peptides in Regulating Contractility of Muscularis Mucosae and Detrusor Smooth Muscle in the Guinea Pig Bladder. Journal of Urology, 2016, 196, 1287-1294.	0.4	19
31	Spontaneous activity in the microvasculature of visceral organs: role of pericytes and voltageâ€dependent Ca²⁺ channels. Journal of Physiology, 2016, 594, 555-565.	2.9	19
32	Interstitial cell modulation of pyeloureteric peristalsis in the mouse renal pelvis examined using FIBSEM tomography and calcium indicators. Pflugers Archiv European Journal of Physiology, 2017, 469, 797-813.	2.8	19
33	Role of capillary pericytes in the integration of spontaneous Ca²⁺ transients in the suburothelial microvasculature in situ of the mouse bladder. Journal of Physiology, 2018, 596, 3531-3552.	2.9	19
34	Role of Mitochondria in the Generation of Spontaneous Activity in Detrusor Smooth Muscles of the Guinea Pig Bladder.. Journal of Urology, 2003, 170, 628-633.	0.4	17
35	Properties of submucosal venules in the rat distal colon. British Journal of Pharmacology, 2013, 170, 968-977.	5.4	16
36	Neurohumoral regulation of spontaneous constrictions in suburothelial venules of the rat urinary bladder. Vascular Pharmacology, 2014, 60, 84-94.	2.1	16

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37	Effects of Y-26763, A Novel K-Channel Opener, on Electrical Responses of Smooth Muscles in the Guinea Pig Bladder. Journal of Urology, 1996, 155, 1454-1458.	0.4	15
38	Effects of K + channel openers on spontaneous action potentials in detrusor smooth muscle of the guinea-pig urinary bladder. European Journal of Pharmacology, 2016, 789, 179-186.	3.5	15
39	Neuroeffector transmission to different layers of smooth muscle in the rat penile bulb. Journal of Physiology, 2000, 524, 549-563.	2.9	14
40	Spontaneous Ca ²⁺ Signaling of Interstitial Cells in the Guinea Pig Prostate. Journal of Urology, 2011, 186, 2478-2486.	0.4	14
41	Voltage-operated Ca2+currents and Ca2+-activated Cl-currents in single interstitial cells of the guinea pig prostate. BJU International, 2014, 114, n/a-n/a.	2.5	14
42	Pacemaker role of pericytes in generating synchronized spontaneous Ca2+ transients in the myenteric microvasculature of the guinea-pig gastric antrum. Cell Calcium, 2015, 58, 442-456.	2.4	14
43	What are the origins and relevance of spontaneous bladder contractions? ICIâ€RS 2017. Neurourology and Urodynamics, 2018, 37, S13-S19.	1.5	14
44	Contractile elements and their sympathetic regulations in the pig urinary bladder: a species and regional comparative study. Cell and Tissue Research, 2020, 379, 373-387.	2.9	14
45	Heterogeneous CPA sensitivity of spontaneous excitation in smooth muscle of the rabbit urethra. British Journal of Pharmacology, 2006, 148, 340-349.	5.4	12
46	PTHrP Is Endogenous Relaxant for Spontaneous Smooth Muscle Contraction in Urinary Bladder of Female Rat. Endocrinology, 2013, 154, 2058-2068.	2.8	12
47	Pacemaker Mechanisms Driving Pyeloureteric Peristalsis: Modulatory Role of Interstitial Cells. Advances in Experimental Medicine and Biology, 2019, 1124, 77-101.	1.6	12
48	Nerve-induced responses of mouse vaginal smooth muscle. Pflugers Archiv European Journal of Physiology, 2017, 469, 1373-1385.	2.8	11
49	New targets for overactive bladderâ€”ICIâ€RS 2109. Neurourology and Urodynamics, 2020, 39, S113-S121.	1.5	11
50	Functional properties of submucosal venules in the rat stomach. Pflugers Archiv European Journal of Physiology, 2015, 467, 1327-1342.	2.8	10
51	Voltage Dependence of Slow Wave Frequency in the Guinea Pig Prostate. Journal of Urology, 2014, 192, 1286-1292.	0.4	9
52	Mechanisms underlying spontaneous constrictions of postcapillary venules in the rat stomach. Pflugers Archiv European Journal of Physiology, 2016, 468, 279-291.	2.8	9
53	Role of K+ channels in regulating spontaneous activity in the muscularis mucosae of guinea pig bladder. European Journal of Pharmacology, 2018, 818, 30-37.	3.5	9
54	Nitric oxideâ€mediated signal transmission in bladder vasculature underlies the therapeutic actions of PDE5 inhibitors in the rat. British Journal of Pharmacology, 2021, 178, 1073-1094.	5.4	9

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55	Synchrony of spontaneous Ca²⁺ activity in microvascular mural cells. Journal of Smooth Muscle Research, 2020, 56, 1-18.	1.2	9
56	Role of prostatic interstitial cells in prostate motility. Journal of Smooth Muscle Research, 2017, 53, 57-72.	1.2	7
57	Properties of SK3 channel-expressing PDGFRÎ± (+) cells in the rodent urinary bladder. European Journal of Pharmacology, 2019, 860, 172552.	3.5	7
58	Functional heterogeneity of PDGFRÎ± (+) cells in spontaneously active urogenital tissues. Neurourology and Urodynamics, 2020, 39, 1667-1678.	1.5	7
59	Angiotensin receptorâ€1A knockout leads to hydronephrosis not associated with a loss of pyeloureteric peristalsis in the mouse renal pelvis. Clinical and Experimental Pharmacology and Physiology, 2016, 43, 535-542.	1.9	6
60	Role of mucosa in generating spontaneous activity in the guinea pig seminal vesicle. Journal of Physiology, 2017, 595, 4803-4821.	2.9	6
61	Properties of synchronous spontaneous Ca2+ transients in the mural cells of rat rectal arterioles. Pflugers Archiv European Journal of Physiology, 2017, 469, 1189-1202.	2.8	6
62	Role of Pericytes in theÂInitiation and Propagation of Spontaneous Activity in theÂMicrovasculature. Advances in Experimental Medicine and Biology, 2019, 1124, 329-356.	1.6	6
63	Electrical properties of purinergic transmission in smooth muscle of the guinea-pig prostate. Autonomic Neuroscience: Basic and Clinical, 2016, 194, 8-16.	2.8	5
64	Contractile properties of periosteal arterioles in the guinea-pig tibia. Pflugers Archiv European Journal of Physiology, 2017, 469, 1203-1213.	2.8	5
65	Mechanosensitive modulation of peristaltic contractions in the mouse renal pelvis. European Journal of Pharmacology, 2022, 920, 174834.	3.5	5
66	Neural regulation of the contractility of nutrient artery in the guinea pig tibia. Pflugers Archiv European Journal of Physiology, 2020, 472, 481-494.	2.8	4
67	ATYPICAL or INTERSTITIAL, take your PIC. Journal of Physiology, 2020, 598, 3061-3062.	2.9	3
68	Comparative effects of angiotensin II on the contractility of muscularis mucosae and detrusor in the pig urinary bladder. Neurourology and Urodynamics, 2021, 40, 102-111.	1.5	3
69	Mechanisms underlying the prokinetic effects of endogenous glucagon-like peptide-1 in the rat proximal colon. American Journal of Physiology - Renal Physiology, 2021, 321, G617-G627.	3.4	3
70	Role of K+ channels in maintaining the synchrony of spontaneous Ca2+ transients in the mural cells of rat rectal submucosal arterioles. Pflugers Archiv European Journal of Physiology, 2019, 471, 1025-1040.	2.8	2
71	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.	1.2	1
72	Mucosa-Dependent, Stretch-Sensitive Spontaneous Activity in Seminal Vesicle. Advances in Experimental Medicine and Biology, 2019, 1124, 217-231.	1.6	1

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73	Exercise-induced sympathetic dilatation in arterioles of the guinea pig tibial periosteum. Autonomic Neuroscience: Basic and Clinical, 2019, 217, 7-17.	2.8	1
74	Functional nitrergic innervation of smooth muscle structures in the mucosa of pig lower urinary tract. Cell and Tissue Research, 2021, 386, 513-531.	2.9	1
75	PDGFRÎ±⁺ subepithelial interstitial cells act as a pacemaker to drive smooth muscle of the guinea pig seminal vesicle. Journal of Physiology, 2022, 600, 1703-1730.	2.9	1