

Susan Wray

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163 papers	6,759 citations	44 h-index	76 g-index
167 ext. papers	7,298 ext. citations	5.6 avg, IF	5.86 L-index

#	Paper	IF	Citations
163	Characterization of the near infrared absorption spectra of cytochrome aa3 and haemoglobin for the non-invasive monitoring of cerebral oxygenation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1988 , 933, 184-92	4.6	639
162	Quantification of cerebral oxygenation and haemodynamics in sick newborn infants by near infrared spectrophotometry. <i>Lancet, The</i> , 1986 , 2, 1063-6	4.0	409
161	Poor uterine contractility in obese women. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2007 , 114, 343-8	3.7	218
160	Effect of metformin on maternal and fetal outcomes in obese pregnant women (EMPOWaR): a randomised, double-blind, placebo-controlled trial. <i>Lancet Diabetes and Endocrinology, the</i> , 2015 , 3, 778-86	18.1	170
159	A critical assessment of methods of measuring metabolite concentrations by NMR spectroscopy. <i>NMR in Biomedicine</i> , 1988 , 1, 1-10	4.4	156
158	Maternal obesity and labour complications following induction of labour in prolonged pregnancy. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2011 , 118, 578-88	3.7	143
157	Oxytocin: its mechanism of action and receptor signalling in the myometrium. <i>Journal of Neuroendocrinology</i> , 2014 , 26, 356-69	3.8	140
156	Distribution of AQP2 and AQP3 water channels in human tissue microarrays. <i>Journal of Molecular Histology</i> , 2005 , 36, 1-14	3.3	140
155	Calcium signaling and uterine contractility. <i>Journal of the Society for Gynecologic Investigation</i> , 2003 , 10, 252-64		135
154	Obstructed labour. <i>British Medical Bulletin</i> , 2003 , 67, 191-204	5.4	131
153	Sarcoplasmic reticulum function in smooth muscle. <i>Physiological Reviews</i> , 2010 , 90, 113-78	47.9	124
152	Vimentin-positive, c-kit-negative interstitial cells in human and rat uterus: a role in pacemaking?. <i>Biology of Reproduction</i> , 2005 , 72, 276-83	3.9	116
151	Oxytocic plant cyclotides as templates for peptide G protein-coupled receptor ligand design. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 21183-8	11.5	105
150	Calcium signalling in smooth muscle. <i>Cell Calcium</i> , 2005 , 38, 397-407	4	99
149	The physiological basis of uterine contractility: a short review. <i>Experimental Physiology</i> , 2001 , 86, 239-46	2.4	99
148	Insights into the uterus. <i>Experimental Physiology</i> , 2007 , 92, 621-31	2.4	90
147	Increased cholesterol decreases uterine activity: functional effects of cholesterol alteration in pregnant rat myometrium. <i>American Journal of Physiology - Cell Physiology</i> , 2005 , 288, C982-8	5.4	90

146	Hypoxia and smooth muscle function: key regulatory events during metabolic stress. <i>Journal of Physiology</i> , 1998 , 509 (Pt 2), 315-25	3.9	86
145	Depletion of membrane cholesterol eliminates the Ca ²⁺ -activated component of outward potassium current and decreases membrane capacitance in rat uterine myocytes. <i>Journal of Physiology</i> , 2007 , 581, 445-56	3.9	86
144	Action potential refractory period in ureter smooth muscle is set by Ca sparks and BK channels. <i>Nature</i> , 2005 , 436, 559-62	50.4	84
143	Calcium transporters and signalling in smooth muscles. <i>Cell Calcium</i> , 2007 , 42, 467-76	4	80
142	Contribution of sarcoplasmic reticular calcium to smooth muscle contractile activation: gestational dependence in isolated rat uterus. <i>Journal of Physiology</i> , 1998 , 511 (Pt 1), 133-44	3.9	79
141	Simultaneous measurements of changes in sarcoplasmic reticulum and cytosolic. <i>Journal of Physiology</i> , 2001 , 531, 707-13	3.9	79
140	Changes in brain phosphorus metabolites during the post-natal development of the rat. <i>Journal of Physiology</i> , 1985 , 359, 417-29	3.9	79
139	Dysfunctional labor and myometrial lactic acidosis. <i>Obstetrics and Gynecology</i> , 2004 , 103, 718-23	4.9	76
138	The effects of inhibiting Rho-associated kinase with Y-27632 on force and intracellular calcium in human myometrium. <i>Pflugers Archiv European Journal of Physiology</i> , 2001 , 443, 112-4	4.6	72
137	Intracellular calcium stores and agonist-induced contractions in isolated human myometrium. <i>American Journal of Obstetrics and Gynecology</i> , 1999 , 181, 468-76	6.4	71
136	Interactions between Ca(2+) and H(+) and functional consequences in vascular smooth muscle. <i>Circulation Research</i> , 2000 , 86, 355-63	15.7	67
135	Properties of voltage-activated [Ca ²⁺] _i transients in single smooth muscle cells isolated from pregnant rat uterus. <i>Journal of Physiology</i> , 1998 , 511 (Pt 3), 803-11	3.9	66
134	A review of the actions and control of intracellular pH in vascular smooth muscle. <i>Cardiovascular Research</i> , 1998 , 38, 316-31	9.9	65
133	Modulating signaling events in smooth muscle: cleavage of annexin 2 abolishes its binding to lipid rafts. <i>FASEB Journal</i> , 2002 , 16, 1177-84	0.9	64
132	Effect of inhibiting the sarcoplasmic reticulum on spontaneous and oxytocin-induced contractions of human myometrium. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2002 , 109, 289-96	3.7	63
131	Domain architecture of the smooth-muscle plasma membrane: regulation by annexins. <i>Biochemical Journal</i> , 2005 , 387, 309-14	3.8	62
130	Contractility and calcium signaling of human myometrium are profoundly affected by cholesterol manipulation: implications for labor?. <i>Reproductive Sciences</i> , 2007 , 14, 456-66	3	60
129	Lipid rafts, the sarcoplasmic reticulum and uterine calcium signalling: an integrated approach. <i>Journal of Physiology</i> , 2006 , 570, 29-35	3.9	57

128	Rho-kinase inhibition and electromechanical coupling in rat and guinea-pig ureter smooth muscle: Ca ²⁺ -dependent and -independent mechanisms. <i>Journal of Physiology</i> , 2004 , 560, 839-55	3.9	56
127	The role of the sarcoplasmic reticulum as a Ca ²⁺ sink in rat uterine smooth muscle cells. <i>Journal of Physiology</i> , 1999 , 520 Pt 1, 153-63	3.9	55
126	Electrophysiological characterization and functional importance of calcium-activated chloride channel in rat uterine myocytes. <i>Pflügers Archiv European Journal of Physiology</i> , 2004 , 448, 36-43	4.6	52
125	How calcium signals in myocytes and pericytes are integrated across in situ microvascular networks and control microvascular tone. <i>Cell Calcium</i> , 2013 , 54, 163-74	4	51
124	A comparison of the contractile properties of human myometrium obtained from the upper and lower uterine segments. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2000 , 107, 1309-1317	3.7	49
123	In vivo pH and metabolite changes during a single contraction in rat uterine smooth muscle. <i>Journal of Physiology</i> , 1999 , 518 (Pt 3), 783-90	3.9	47
122	A review of recent insights into the role of the sarcoplasmic reticulum and Ca entry in uterine smooth muscle. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2009 , 144 Suppl 1, S11-9	2.4	45
121	The effects of pregnancy and parturition on phosphorus metabolites in rat uterus studied by ³¹ P nuclear magnetic resonance. <i>Journal of Physiology</i> , 1985 , 368, 19-31	3.9	45
120	Ca ²⁺ entry, efflux and release in smooth muscle. <i>Biological Research</i> , 2004 , 37, 617-24	7.6	44
119	Drugs acting on the pregnant uterus. <i>Obstetrics, Gynaecology and Reproductive Medicine</i> , 2010 , 20, 241-245	3.5	41
118	Noninvasive measurement of molar concentrations of ³¹ P metabolites in vivo, using surface coil NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1988 , 6, 84-6	4.4	41
117	A new technique for simultaneous and in situ measurements of Ca ²⁺ signals in arteriolar smooth muscle and endothelial cells. <i>Cell Calcium</i> , 2003 , 34, 27-33	4	40
116	Modulation of agonist-induced Ca ²⁺ release by SR Ca ²⁺ load: direct SR and cytosolic Ca ²⁺ measurements in rat uterine myocytes. <i>Cell Calcium</i> , 2005 , 37, 215-23	4	40
115	What do we know about what happens to myometrial function as women age?. <i>Journal of Muscle Research and Cell Motility</i> , 2012 , 33, 209-17	3.5	39
114	Direct in vivo measurement of absolute metabolite concentrations using ³¹ P nuclear magnetic resonance spectroscopy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1986 , 886, 399-405	4.9	38
113	Abolition of contractions in the myometrium by acidification in vitro. <i>Lancet, The</i> , 1994 , 344, 717-8	4.0	37
112	Sex hormones and excitation-contraction coupling in the uterus: the effects of oestrous and hormones. <i>Journal of Neuroendocrinology</i> , 2008 , 20, 451-61	3.8	36
111	Carboxyeosin decreases the rate of decay of the [Ca ²⁺] _i transient in uterine smooth muscle cells isolated from pregnant rats. <i>Pflügers Archiv European Journal of Physiology</i> , 1998 , 437, 158-60	4.6	35

110	In situ calcium signaling: no calcium sparks detected in rat myometrium. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1101, 85-96	6.5	35
109	Spontaneous propagating calcium waves underpin airway peristalsis in embryonic rat lung. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2005 , 33, 153-60	5.7	35
108	Hypoxia-induced force increase (HIFI) is a novel mechanism underlying the strengthening of labor contractions, produced by hypoxic stresses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 9763-8	11.5	34
107	A new slow releasing, H ₂ generating compound, GYY4137 relaxes spontaneous and oxytocin-stimulated contractions of human and rat pregnant myometrium. <i>PLoS ONE</i> , 2012 , 7, e46278	3.7	33
106	Progress in understanding electro-mechanical signalling in the myometrium. <i>Acta Physiologica</i> , 2015 , 213, 417-31	5.6	32
105	The effect of inhibition of myosin light chain kinase by Wortmannin on intracellular [Ca ²⁺], electrical activity and force in phasic smooth muscle. <i>Pflugers Archiv European Journal of Physiology</i> , 1998 , 436, 801-3	4.6	32
104	Simultaneous measurement of intracellular pH and contraction in uterine smooth muscle. <i>Pflugers Archiv European Journal of Physiology</i> , 1993 , 423, 527-9	4.6	32
103	Diabetes is associated with impairment of uterine contractility and high Caesarean section rate. <i>Diabetologia</i> , 2012 , 55, 489-98	10.3	31
102	Cytochrome oxidase content of rat brain during development. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1991 , 1057, 273-5	4.6	30
101	Inhibitory effect of visfatin and leptin on human and rat myometrial contractility. <i>Life Sciences</i> , 2015 , 125, 57-62	6.8	29
100	Development of a human vasopressin V-receptor antagonist from an evolutionary-related insect neuropeptide. <i>Scientific Reports</i> , 2017 , 7, 41002	4.9	28
99	The effects of pomegranate seed extract and beta-sitosterol on rat uterine contractions. <i>Reproductive Sciences</i> , 2010 , 17, 288-96	3	28
98	Temporal and spatial variations in spontaneous Ca events and mechanical activity in pregnant rat myometrium. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2009 , 144 Suppl 1, S25-32	2.4	28
97	Characterization of contractile activity and intracellular Ca ²⁺ signalling in mouse myometrium. <i>Journal of the Society for Gynecologic Investigation</i> , 2004 , 11, 207-12		28
96	Differential cellular expression of FXD1 (phospholemman) and FXD2 (gamma subunit of Na, K-ATPase) in normal human tissues: a study using high density human tissue microarrays. <i>Annals of Anatomy</i> , 2010 , 192, 7-16	2.9	27
95	Agonist mobilization of sarcoplasmic reticular calcium in smooth muscle: functional coupling to the plasmalemmal Na ⁺ /Ca ²⁺ exchanger?. <i>Cell Calcium</i> , 1997 , 22, 333-41	4	27
94	A short review of adipokines, smooth muscle and uterine contractility. <i>Life Sciences</i> , 2015 , 125, 2-8	6.8	26
93	Functional architecture of the SR calcium store in uterine smooth muscle. <i>Cell Calcium</i> , 2004 , 35, 501-8	4	26

92	The mechanism of agonist induced Ca ²⁺ signalling in intact endothelial cells studied confocally in situ arteries. <i>Cell Calcium</i> , 2011 , 49, 66-77	4	25
91	Distribution, expression and functional effects of small conductance Ca-activated potassium (SK) channels in rat myometrium. <i>Cell Calcium</i> , 2010 , 47, 47-54	4	25
90	Subtle modifications to oxytocin produce ligands that retain potency and improved selectivity across species. <i>Science Signaling</i> , 2017 , 10,	8.8	24
89	Poor spontaneous and oxytocin-stimulated contractility in human myometrium from postdates pregnancies. <i>PLoS ONE</i> , 2012 , 7, e36787	3.7	24
88	A comparison of the contractile properties of myometrium from singleton and twin pregnancies. <i>PLoS ONE</i> , 2013 , 8, e63800	3.7	24
87	Cholesterol depletion alters coronary artery myocyte Ca(2+) signalling in a stimulus-specific manner. <i>Cell Calcium</i> , 2010 , 47, 84-91	4	24
86	The role of the sarcolemmal Ca(2+)-ATPase in the pH transients associated with contraction in rat smooth muscle. <i>Journal of Physiology</i> , 1997 , 505 (Pt 2), 329-36	3.9	24
85	Functional and molecular characterization of voltage-gated sodium channels in uteri from nonpregnant rats. <i>Biology of Reproduction</i> , 2007 , 77, 855-63	3.9	24
84	Mechanisms of action of pH-induced effects on vascular smooth muscle. <i>Molecular and Cellular Biochemistry</i> , 2004 , 263, 163-72	4.2	24
83	How structure, Ca signals, and cellular communications underlie function in precapillary arterioles. <i>Circulation Research</i> , 2009 , 105, 803-10	15.7	23
82	The role of the sarcoplasmic reticulum in neonatal uterine smooth muscle: enhanced role compared to adult rat. <i>Journal of Physiology</i> , 2002 , 545, 557-66	3.9	23
81	The effects of pH change on Ca(++) signaling and force in pregnant human myometrium. <i>American Journal of Obstetrics and Gynecology</i> , 2003 , 188, 1031-8	6.4	23
80	Insights from physiology into myometrial function and dysfunction. <i>Experimental Physiology</i> , 2015 , 100, 1468-76	2.4	22
79	Myometrial physiology--time to translate?. <i>Experimental Physiology</i> , 2014 , 99, 495-502	2.4	22
78	The relationship between the action potential, intracellular calcium and force in intact phasic, guinea-pig uretic smooth muscle. <i>Journal of Physiology</i> , 1999 , 520 Pt 3, 867-83	3.9	22
77	Changes of pH affect calcium currents but not outward potassium currents in rat myometrial cells. <i>Pflügers Archiv European Journal of Physiology</i> , 1995 , 431, 135-7	4.6	22
76	On the mechanisms whereby temperature affects excitation-contraction coupling in smooth muscle. <i>Journal of General Physiology</i> , 2002 , 119, 93-104	3.4	21
75	Stimulus-dependent modulation of smooth muscle intracellular calcium and force by altered intracellular pH. <i>Pflügers Archiv European Journal of Physiology</i> , 1996 , 432, 803-11	4.6	21

74	The mechanism of Ca ²⁺ release from the SR of permeabilised guinea-pig and rat ureteric smooth muscle. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1998 , 1402, 109-14	4.9	20
73	Airway smooth muscle dysfunction precedes teratogenic congenital diaphragmatic hernia and may contribute to hypoplastic lung morphogenesis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2006 , 35, 571-8	5.7	19
72	Role of the calcium store in uterine contractility. <i>Seminars in Cell and Developmental Biology</i> , 2007 , 18, 315-20	7.5	19
71	The effect of cyclopiazonic acid on excitation-contraction coupling in guinea-pig ureteric smooth muscle: role of the sarcoplasmic reticulum. <i>Journal of Physiology</i> , 1999 , 517 (Pt 3), 855-65	3.9	19
70	The in vivo relationship between blood flow, contractions, pH and metabolites in the rat uterus. <i>Pflugers Archiv European Journal of Physiology</i> , 1998 , 435, 810-7	4.6	18
69	Simultaneous measurement of intracellular pH, calcium, and tension in rat mesenteric vessels: effects of extracellular pH. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 222, 537-40	3.4	18
68	A quantitative study of the relation between intracellular pH and force in rat mesenteric vascular smooth muscle. <i>Pflugers Archiv European Journal of Physiology</i> , 1994 , 427, 270-6	4.6	18
67	Store-operated Ca ²⁺ entry and depolarization explain the anomalous behaviour of myometrial SR: effects of SERCA inhibition on electrical activity, Ca ²⁺ and force. <i>Cell Calcium</i> , 2014 , 56, 188-94	4	17
66	The effects of wild ginger (<i>Costus speciosus</i> (Koen) Smith) rhizome extract and diosgenin on rat uterine contractions. <i>Reproductive Sciences</i> , 2011 , 18, 516-24	3	17
65	Simultaneous measurements of electrical activity, intracellular [Ca ²⁺] and force in intact smooth muscle. <i>Pflugers Archiv European Journal of Physiology</i> , 1997 , 435, 182-4	4.6	17
64	The effects of intracellular and extracellular alkalization on contractions of the isolated rat uterus. <i>Pflugers Archiv European Journal of Physiology</i> , 1992 , 422, 24-30	4.6	17
63	Ethnobotanical survey of <i>Rinorea dentata</i> (Violaceae) used in South-Western Nigerian ethnomedicine and detection of cyclotides. <i>Journal of Ethnopharmacology</i> , 2016 , 179, 83-91	5	16
62	Characterisation of the ionic currents in freshly isolated rat ureter smooth muscle cells: evidence for species-dependent currents. <i>Pflugers Archiv European Journal of Physiology</i> , 2002 , 445, 444-53	4.6	16
61	The Myometrium: From Excitation to Contractions and Labour. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1124, 233-263	3.6	15
60	Escherichia coli-mediated impairment of ureteric contractility is uropathogenic E. coli specific. <i>Journal of Infectious Diseases</i> , 2012 , 206, 1589-96	7	15
59	Developmental changes in intracellular pH buffering power in smooth muscle. <i>Pflugers Archiv European Journal of Physiology</i> , 1998 , 435, 575-7	4.6	15
58	Efficacy of metformin in pregnant obese women: a randomised controlled trial. <i>BMJ Open</i> , 2015 , 5, e006354	3.5	14
57	Level of lactate in amniotic fluid and its relation to the use of oxytocin and adverse neonatal outcome. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , 2014 , 93, 80-5	3.8	14

56	A short review of twin pregnancy and how oxytocin receptor expression may differ in multiple pregnancy. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2009 , 144 Suppl 1, S40-44	4.4	14
55	The effects of changing intracellular pH on calcium and potassium currents in smooth muscle cells from the guinea-pig ureter. <i>Pflugers Archiv European Journal of Physiology</i> , 1998 , 435, 518-22	4.6	14
54	Evidence that a Ca ²⁺ sparks/STOCs coupling mechanism is responsible for the inhibitory effect of caffeine on electro-mechanical coupling in guinea pig ureteric smooth muscle. <i>Cell Calcium</i> , 2007 , 42, 303-11	4	13
53	A randomized controlled trial of a new treatment for labor dystocia. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2018 , 31, 2237-2244	2	12
52	Atherosclerosis affects calcium signalling in endothelial cells from apolipoprotein E knockout mice before plaque formation. <i>Cell Calcium</i> , 2014 , 55, 146-54	4	12
51	Inhibitory effects of ginger oil on spontaneous and PGF ₂ α-induced contraction of rat myometrium. <i>Planta Medica</i> , 2008 , 74, 385-91	3.1	12
50	The effects of metabolic inhibition on intracellular calcium and contractility of human myometrium. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2003 , 110, 1050-1056	3.7	12
49	Differing In Vitro Potencies of Tocolytics and Progesterone in Myometrium From Singleton and Twin Pregnancies. <i>Reproductive Sciences</i> , 2016 , 23, 98-111	3	11
48	The combination tocolytic effect of magnesium sulfate and an oxytocin receptor antagonist in myometrium from singleton and twin pregnancies. <i>American Journal of Obstetrics and Gynecology</i> , 2016 , 215, 789.e1-789.e9	6.4	11
47	Physiological increases in lactate inhibit intracellular calcium transients, acidify myocytes and decrease force in term pregnant rat myometrium. <i>Journal of Physiology</i> , 2015 , 593, 4603-14	3.9	11
46	The effects of watermelon (<i>Citrullus lanatus</i>) extracts and L-citrulline on rat uterine contractility. <i>Reproductive Sciences</i> , 2013 , 20, 437-48	3	11
45	The effect of metabolic inhibition on rat uterine intracellular pH and its role in contractile failure. <i>Pflugers Archiv European Journal of Physiology</i> , 1995 , 430, 125-31	4.6	11
44	Expression and distribution of Na, K-ATPase isoforms in the human uterus. <i>Reproductive Sciences</i> , 2010 , 17, 366-76	3	10
43	Intracellular Na ⁺ measurements in smooth muscle using SBFI--changes in [Na ⁺], Ca ²⁺ and force in normal and Na(+)-loaded ureter. <i>Pflugers Archiv European Journal of Physiology</i> , 1998 , 435, 523-7	4.6	10
42	Morphology, calcium signaling and mechanical activity in human ureter. <i>Journal of Urology</i> , 2008 , 180, 398-405	2.5	10
41	A ³¹ P NMR investigation into the effects of repeated vascular occlusion on uterine metabolites, intracellular pH and force, in vivo. <i>NMR in Biomedicine</i> , 1995 , 8, 28-32	4.4	10
40	Hypoxic conditioning in blood vessels and smooth muscle tissues: effects on function, mechanisms, and unknowns. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 315, H756-H770	5.2	9
39	Atherosclerosis differentially affects calcium signalling in endothelial cells from aortic arch and thoracic aorta in Apolipoprotein E knockout mice. <i>Physiological Reports</i> , 2014 , 2, e12171	2.6	9

38	Na,K-ATPase isoforms in pregnant and nonpregnant rat uterus. <i>Annals of the New York Academy of Sciences</i> , 2003 , 986, 614-6	6.5	9
37	Differential effects of external pH alteration on intracellular pH in rat coronary and cardiac myocytes. <i>Pflugers Archiv European Journal of Physiology</i> , 1994 , 428, 674-6	4.6	9
36	Finding new agents in medicinal plants to act on the myometrium. <i>Experimental Physiology</i> , 2014 , 99, 530-7	2.4	8
35	Abnormal tracheal smooth muscle function in the CF mouse. <i>Physiological Reports</i> , 2013 , 1, e00138	2.6	8
34	Modulation of ureteric Ca signaling and contractility in humans and rats by uropathogenic E. coli. <i>American Journal of Physiology - Renal Physiology</i> , 2010 , 298, F900-8	4.3	8
33	External alkalization decreases intracellular Ca ⁺⁺ and spontaneous contractions in pregnant rat myometrium. <i>American Journal of Obstetrics and Gynecology</i> , 1997 , 177, 959-63	6.4	8
32	Changes in intracellular pH close to term and their possible significance to labour. <i>Pflugers Archiv European Journal of Physiology</i> , 1995 , 430, 1012-4	4.6	8
31	Regulation of intracellular pH in rat uterine smooth muscle, studied by ³¹ P NMR spectroscopy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1988 , 972, 299-301	4.9	8
30	Gestation changes sodium pump isoform expression, leading to changes in ouabain sensitivity, contractility, and intracellular calcium in rat uterus. <i>Physiological Reports</i> , 2017 , 5, e13527	2.6	7
29	The effects of Ginseng Java root extract on uterine contractility in nonpregnant rats. <i>Physiological Reports</i> , 2014 , 2, e12230	2.6	7
28	Two centuries of excitation-contraction coupling. <i>Cell Calcium</i> , 2004 , 35, 485-9	4	7
27	pH regulation and buffering power in gastric smooth muscle. <i>Pflugers Archiv European Journal of Physiology</i> , 2001 , 442, 459-66	4.6	7
26	Ion pumping in biological membranes. <i>Contemporary Physics</i> , 1985 , 26, 3-21	3.3	7
25	In vitro myometrial contractility reflects indication for caesarean section. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2011 , 118, 1499-506	3.7	6
24	An investigation of intrinsic buffering power in rat vascular smooth muscle cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1995 , 429, 325-31	4.6	6
23	Activation of nuclear chromatin in stretch-dependent growth of tissues. <i>Connective Tissue Research</i> , 1985 , 13, 217-25	3.3	6
22	Sarcoplasmic reticulum function and contractile consequences in ureteric smooth muscles. <i>Novartis Foundation Symposium</i> , 2002 , 246, 208-17; discussion 217-20, 221-7		5
21	Calcium Signaling in Smooth Muscle 2010 , 1009-1025		4

20	Developmental and species differences in the response of the ureter to metabolic inhibition. <i>Pflügers Archiv European Journal of Physiology</i> , 1998 , 436, 443-8	4.6	4
19	Does metformin reduce excess birthweight in offspring of obese pregnant women? A randomised controlled trial of efficacy, exploration of mechanisms and evaluation of other pregnancy complications. <i>Efficacy and Mechanism Evaluation</i> , 2016 , 3, 1-800	1.7	4
18	Uterine Excitability and Ion Channels and Their Changes with Gestation and Hormonal Environment. <i>Annual Review of Physiology</i> , 2021 , 83, 331-357	23.1	4
17	Human myometrial artery function and endothelial cell calcium signalling are reduced by obesity: Can this contribute to poor labour outcomes?. <i>Acta Physiologica</i> , 2019 , 227, e13341	5.6	3
16	Introduction: myometrial physiology--time to translate?. <i>Experimental Physiology</i> , 2014 , 99, 487-8	2.4	3
15	Role of the Sarcoplasmic Reticulum in Uterine Smooth Muscle. <i>Novartis Foundation Symposium</i> , 2008 , 6-25		3
14	Sarcoplasmic Reticulum Function and Contractile Consequences in Ureteric Smooth Muscles. <i>Novartis Foundation Symposium</i> , 2008 , 208-220		3
13	The effects of metabolic inhibition on intracellular calcium and contractility of human myometrium. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2003 , 110, 1050-6	3.7	3
12	Justicia flava leaf extract potently relaxes pregnant human myometrial contractility: a lead plant for drug discovery of new tocolytic drugs. <i>Experimental Physiology</i> , 2020 , 105, 2033-2037	2.4	2
11	PH-induced changes in calcium: functional consequences and mechanisms of action in guinea pig portal vein. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 283, H2518-26	5.2	2
10	The association of second trimester biomarkers in amniotic fluid and fetal outcome. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2019 , 32, 3627-3632	2	2
9	Role of the sarcoplasmic reticulum in uterine smooth muscle. <i>Novartis Foundation Symposium</i> , 2002 , 246, 6-18; discussion 18-25, 48-51		2
8	Uterine Smooth Muscle 2012 , 1207-1216		1
7	Regulation of intracellular pH in rat uterine smooth muscle studied by ³¹ P NMR spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1988 , 972, 299-301	4.6	1
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