Susan Wray

List of Publications by Year in Descending Order

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	Calcium-Activated Chloride Channels in Myometrial and Vascular Smooth Muscle. *Frontiers in Physiology*, **2021**, 12, 751008	4.6	0
162	Uterine Excitability and Ion Channels and Their Changes with Gestation and Hormonal Environment. *Annual Review of Physiology*, **2021**, 83, 331-357	23.1	4
161	Justicia flava leaf extract potently relaxes pregnant human myometrial contractility: a lead plant for drug discovery of new tocolytic drugs. *Experimental Physiology*, **2020**, 105, 2033-2037	2.4	2
160	Gestational and Hormonal Effects on Magnesium Sulfate's Ability to Inhibit Mouse Uterine Contractility. *Reproductive Sciences*, **2020**, 27, 1570-1579	3	
159	The Myometrium: From Excitation to Contractions and Labour. *Advances in Experimental Medicine and Biology*, **2019**, 1124, 233-263	3.6	15
158	Gestational and Hormonal Effects on Magnesium Sulfate's Ability to Inhibit Mouse Uterine Contractility. *Reproductive Sciences*, **2019**, 1933719119828089	3	
157	Human myometrial artery function and endothelial cell calcium signalling are reduced by obesity: Can this contribute to poor labour outcomes?. *Acta Physiologica*, **2019**, 227, e13341	5.6	3
156	The association of second trimester biomarkers in amniotic fluid and fetal outcome. *Journal of Maternal-Fetal and Neonatal Medicine*, **2019**, 32, 3627-3632	2	2
155	A randomized controlled trial of a new treatment for labor dystocia. *Journal of Maternal-Fetal and Neonatal Medicine*, **2018**, 31, 2237-2244	2	12
154	Hypoxic conditioning in blood vessels and smooth muscle tissues: effects on function, mechanisms, and unknowns. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 315, H756-H770	5.2	9
153	Development of a human vasopressin V-receptor antagonist from an evolutionary-related insect neuropeptide. *Scientific Reports*, **2017**, 7, 41002	4.9	28
152	Subtle modifications to oxytocin produce ligands that retain potency and improved selectivity across species. *Science Signaling*, **2017**, 10,	8.8	24
151	Gestation changes sodium pump isoform expression, leading to changes in ouabain sensitivity, contractility, and intracellular calcium in rat uterus. *Physiological Reports*, **2017**, 5, e13527	2.6	7
150	Differing In Vitro Potencies of Tocolytics and Progesterone in Myometrium From Singleton and Twin Pregnancies. *Reproductive Sciences*, **2016**, 23, 98-111	3	11
149	The combination tocolytic effect of magnesium sulfate and an oxytocin receptor antagonist in myometrium from singleton and twin pregnancies. *American Journal of Obstetrics and Gynecology*, **2016**, 215, 789.e1-789.e9	6.4	11
148	Ethnobotanical survey of Rinorea dentata (Violaceae) used in South-Western Nigerian ethnomedicine and detection of cyclotides. *Journal of Ethnopharmacology*, **2016**, 179, 83-91	5	16
147	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. *Efficacy and Mechanism Evaluation*, **2016**, 3, 1-800	1.7	4

146	Progress in understanding electro-mechanical signalling in the myometrium. *Acta Physiologica*, **2015**, 213, 417-31	5.6	32
145	Effect of metformin on maternal and fetal outcomes in obese pregnant women (EMPOWaR): a randomised, double-blind, placebo-controlled trial. *Lancet Diabetes and Endocrinology,the*, **2015**, 3, 778-86	18.1	170
144	Hypoxia-induced force increase (HIFI) is a novel mechanism underlying the strengthening of labor contractions, produced by hypoxic stresses. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 9763-8	11.5	34
143	A short review of adipokines, smooth muscle and uterine contractility. *Life Sciences*, **2015**, 125, 2-8	6.8	26
142	Efficacy of metformin in pregnant obese women: a randomised controlled trial. *BMJ Open*, **2015**, 5, e006854	3	14
141	Physiological increases in lactate inhibit intracellular calcium transients, acidify myocytes and decrease force in term pregnant rat myometrium. *Journal of Physiology*, **2015**, 593, 4603-14	3.9	11
140	Insights from physiology into myometrial function and dysfunction. *Experimental Physiology*, **2015**, 100, 1468-76	2.4	22
139	Inhibitory effect of visfatin and leptin on human and rat myometrial contractility. *Life Sciences*, **2015**, 125, 57-62	6.8	29
138	Oxytocin: its mechanism of action and receptor signalling in the myometrium. *Journal of Neuroendocrinology*, **2014**, 26, 356-69	3.8	140
137	Atherosclerosis affects calcium signalling in endothelial cells from apolipoprotein E knockout mice before plaque formation. *Cell Calcium*, **2014**, 55, 146-54	4	12
136	Atherosclerosis differentially affects calcium signalling in endothelial cells from aortic arch and thoracic aorta in Apolipoprotein E knockout mice. *Physiological Reports*, **2014**, 2, e12171	2.6	9
135	The effects of Ginseng Java root extract on uterine contractility in nonpregnant rats. *Physiological Reports*, **2014**, 2, e12230	2.6	7
134	Store-operated Ca□+ entry and depolarization explain the anomalous behaviour of myometrial SR: effects of SERCA inhibition on electrical activity, Ca□+ and force. *Cell Calcium*, **2014**, 56, 188-94	4	17
133	Finding new agents in medicinal plants to act on the myometrium. *Experimental Physiology*, **2014**, 99, 530-7	2.4	8
132	Introduction: myometrial physiology--time to translate?. *Experimental Physiology*, **2014**, 99, 487-8	2.4	3
131	Myometrial physiology--time to translate?. *Experimental Physiology*, **2014**, 99, 495-502	2.4	22
130	Level of lactate in amniotic fluid and its relation to the use of oxytocin and adverse neonatal outcome. *Acta Obstetricia Et Gynecologica Scandinavica*, **2014**, 93, 80-5	3.8	14
129	Oxytocic plant cyclotides as templates for peptide G protein-coupled receptor ligand design. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 21183-8	11.5	105

128	How calcium signals in myocytes and pericytes are integrated across in situ microvascular networks and control microvascular tone. *Cell Calcium*, **2013**, 54, 163-74	4	51
127	The effects of watermelon (Citrullus lanatus) extracts and L-citrulline on rat uterine contractility. *Reproductive Sciences*, **2013**, 20, 437-48	3	11
126	Abnormal tracheal smooth muscle function in the CF mouse. *Physiological Reports*, **2013**, 1, e00138	2.6	8
125	A comparison of the contractile properties of myometrium from singleton and twin pregnancies. *PLoS ONE*, **2013**, 8, e63800	3.7	24
124	Diabetes is associated with impairment of uterine contractility and high Caesarean section rate. *Diabetologia*, **2012**, 55, 489-98	10.3	31
123	What do we know about what happens to myometrial function as women age?. *Journal of Muscle Research and Cell Motility*, **2012**, 33, 209-17	3.5	39
122	Uterine Smooth Muscle **2012**, 1207-1216		1
121	Poor spontaneous and oxytocin-stimulated contractility in human myometrium from postdates pregnancies. *PLoS ONE*, **2012**, 7, e36787	3.7	24
120	Escherichia coli-mediated impairment of ureteric contractility is uropathogenic E. coli specific. *Journal of Infectious Diseases*, **2012**, 206, 1589-96	7	15
119	A new slow releasing, H_2S generating compound, GYY4137 relaxes spontaneous and oxytocin-stimulated contractions of human and rat pregnant myometrium. *PLoS ONE*, **2012**, 7, e46278	3.7	33
118	The effects of wild ginger (Costus speciosus (Koen) Smith) rhizome extract and diosgenin on rat uterine contractions. *Reproductive Sciences*, **2011**, 18, 516-24	3	17
117	Maternal obesity and labour complications following induction of labour in prolonged pregnancy. *BJOG: an International Journal of Obstetrics and Gynaecology*, **2011**, 118, 578-88	3.7	143
116	In vitro myometrial contractility reflects indication for caesarean section. *BJOG: an International Journal of Obstetrics and Gynaecology*, **2011**, 118, 1499-506	3.7	6
115	The mechanism of agonist induced Ca2+ signalling in intact endothelial cells studied confocally in in situ arteries. *Cell Calcium*, **2011**, 49, 66-77	4	25
114	Calcium Signaling in Smooth Muscle **2010**, 1009-1025		4
113	Modulation of ureteric Ca signaling and contractility in humans and rats by uropathogenic E. coli. *American Journal of Physiology - Renal Physiology*, **2010**, 298, F900-8	4.3	8
112	Expression and distribution of Na, K-ATPase isoforms in the human uterus. *Reproductive Sciences*, **2010**, 17, 366-76	3	10
111	Drugs acting on the pregnant uterus. *Obstetrics, Gynaecology and Reproductive Medicine*, **2010**, 20, 241-247	0.5	41

110	The effects of pomegranate seed extract and beta-sitosterol on rat uterine contractions. *Reproductive Sciences*, **2010**, 17, 288-96	3	28
109	Sarcoplasmic reticulum function in smooth muscle. *Physiological Reviews*, **2010**, 90, 113-78	47.9	124
108	Differential cellular expression of FXYD1 (phospholemman) and FXYD2 (gamma subunit of Na, K-ATPase) in normal human tissues: a study using high density human tissue microarrays. *Annals of Anatomy*, **2010**, 192, 7-16	2.9	27
107	Distribution, expression and functional effects of small conductance Ca-activated potassium (SK) channels in rat myometrium. *Cell Calcium*, **2010**, 47, 47-54	4	25
106	Cholesterol depletion alters coronary artery myocyte Ca(2+) signalling in a stimulus-specific manner. *Cell Calcium*, **2010**, 47, 84-91	4	24
105	How structure, Ca signals, and cellular communications underlie function in precapillary arterioles. *Circulation Research*, **2009**, 105, 803-10	15.7	23
104	A review of recent insights into the role of the sarcoplasmic reticulum and Ca entry in uterine smooth muscle. *European Journal of Obstetrics, Gynecology and Reproductive Biology*, **2009**, 144 Suppl 1, S11-9	2.4	45
103	A short review of twin pregnancy and how oxytocin receptor expression may differ in multiple pregnancy. *European Journal of Obstetrics, Gynecology and Reproductive Biology*, **2009**, 144 Suppl 1, S40-4	2.4	14
102	Temporal and spatial variations in spontaneous Ca events and mechanical activity in pregnant rat myometrium. *European Journal of Obstetrics, Gynecology and Reproductive Biology*, **2009**, 144 Suppl 1, S25-32	2.4	28
101	Sex hormones and excitation-contraction coupling in the uterus: the effects of oestrous and hormones. *Journal of Neuroendocrinology*, **2008**, 20, 451-61	3.8	36
100	Morphology, calcium signaling and mechanical activity in human ureter. *Journal of Urology*, **2008**, 180, 398-405	2.5	10
99	Inhibitory effects of ginger oil on spontaneous and PGF2alpha-induced contraction of rat myometrium. *Planta Medica*, **2008**, 74, 385-91	3.1	12
98	Role of the Sarcoplasmic Reticulum in Uterine Smooth Muscle. *Novartis Foundation Symposium*, **2008**, 6-25		3
97	Sarcoplasmic Reticulum Function and Contractile Consequences in Ureteric Smooth Muscles. *Novartis Foundation Symposium*, **2008**, 208-220		3
96	Insights into the uterus. *Experimental Physiology*, **2007**, 92, 621-31	2.4	90
95	Depletion of membrane cholesterol eliminates the Ca2+-activated component of outward potassium current and decreases membrane capacitance in rat uterine myocytes. *Journal of Physiology*, **2007**, 581, 445-56	3.9	86
94	Poor uterine contractility in obese women. *BJOG: an International Journal of Obstetrics and Gynaecology*, **2007**, 114, 343-8	3.7	218
93	Evidence that a Ca2+ sparks/STOCs coupling mechanism is responsible for the inhibitory effect of caffeine on electro-mechanical coupling in guinea pig ureteric smooth muscle. *Cell Calcium*, **2007**, 42, 303-11	4	13

92	Calcium transporters and signalling in smooth muscles. *Cell Calcium*, **2007**, 42, 467-76	4	80
91	In situ calcium signaling: no calcium sparks detected in rat myometrium. *Annals of the New York Academy of Sciences*, **2007**, 1101, 85-96	6.5	35
90	Functional and molecular characterization of voltage-gated sodium channels in uteri from nonpregnant rats. *Biology of Reproduction*, **2007**, 77, 855-63	3.9	24
89	Contractility and calcium signaling of human myometrium are profoundly affected by cholesterol manipulation: implications for labor?. *Reproductive Sciences*, **2007**, 14, 456-66	3	60
88	Role of the calcium store in uterine contractility. *Seminars in Cell and Developmental Biology*, **2007**, 18, 315-20	7.5	19
87	Airway smooth muscle dysfunction precedes teratogenic congenital diaphragmatic hernia and may contribute to hypoplastic lung morphogenesis. *American Journal of Respiratory Cell and Molecular Biology*, **2006**, 35, 571-8	5.7	19
86	Lipid rafts, the sarcoplasmic reticulum and uterine calcium signalling: an integrated approach. *Journal of Physiology*, **2006**, 570, 29-35	3.9	57
85	Distribution of AQP2 and AQP3 water channels in human tissue microarrays. *Journal of Molecular Histology*, **2005**, 36, 1-14	3.3	140
84	Domain architecture of the smooth-muscle plasma membrane: regulation by annexins. *Biochemical Journal*, **2005**, 387, 309-14	3.8	62
83	Action potential refractory period in ureter smooth muscle is set by Ca sparks and BK channels. *Nature*, **2005**, 436, 559-62	50.4	84
82	Modulation of agonist-induced Ca2+ release by SR Ca2+ load: direct SR and cytosolic Ca2+ measurements in rat uterine myocytes. *Cell Calcium*, **2005**, 37, 215-23	4	40
81	Calcium signalling in smooth muscle. *Cell Calcium*, **2005**, 38, 397-407	4	99
80	Increased cholesterol decreases uterine activity: functional effects of cholesterol alteration in pregnant rat myometrium. *American Journal of Physiology - Cell Physiology*, **2005**, 288, C982-8	5.4	90
79	Vimentin-positive, c-kit-negative interstitial cells in human and rat uterus: a role in pacemaking?. *Biology of Reproduction*, **2005**, 72, 276-83	3.9	116
78	Spontaneous propagating calcium waves underpin airway peristalsis in embryonic rat lung. *American Journal of Respiratory Cell and Molecular Biology*, **2005**, 33, 153-60	5.7	35
77	Characterization of contractile activity and intracellular Ca2+ signalling in mouse myometrium. *Journal of the Society for Gynecologic Investigation*, **2004**, 11, 207-12		28
76	Rho-kinase inhibition and electromechanical coupling in rat and guinea-pig ureter smooth muscle: Ca2+-dependent and -independent mechanisms. *Journal of Physiology*, **2004**, 560, 839-55	3.9	56
75	Two centuries of excitation-contraction coupling. *Cell Calcium*, **2004**, 35, 485-9	4	7

74	Functional architecture of the SR calcium store in uterine smooth muscle. *Cell Calcium*, **2004**, 35, 501-8	4	26
73	Mechanisms of action of pH-induced effects on vascular smooth muscle. *Molecular and Cellular Biochemistry*, **2004**, 263, 163-72	4.2	24
72	Electrophysiological characterization and functional importance of calcium-activated chloride channel in rat uterine myocytes. *Pflugers Archiv European Journal of Physiology*, **2004**, 448, 36-43	4.6	52
71	Dysfunctional labor and myometrial lactic acidosis. *Obstetrics and Gynecology*, **2004**, 103, 718-23	4.9	76
70	Ca2+ entry, efflux and release in smooth muscle. *Biological Research*, **2004**, 37, 617-24	7.6	44
69	The effects of pH change on Ca(++) signaling and force in pregnant human myometrium. *American Journal of Obstetrics and Gynecology*, **2003**, 188, 1031-8	6.4	23
68	A new technique for simultaneous and in situ measurements of Ca2+ signals in arteriolar smooth muscle and endothelial cells. *Cell Calcium*, **2003**, 34, 27-33	4	40
67	The effects of metabolic inhibition on intracellular calcium and contractility of human myometrium. *BJOG: an International Journal of Obstetrics and Gynaecology*, **2003**, 110, 1050-1056	3.7	12
66	Na,K-ATPase isoforms in pregnant and nonpregnant rat uterus. *Annals of the New York Academy of Sciences*, **2003**, 986, 614-6	6.5	9
65	Obstructed labour. *British Medical Bulletin*, **2003**, 67, 191-204	5.4	131
64	Calcium signaling and uterine contractility. *Journal of the Society for Gynecologic Investigation*, **2003**, 10, 252-64		135
63	The effects of metabolic inhibition on intracellular calcium and contractility of human myometrium. *BJOG: an International Journal of Obstetrics and Gynaecology*, **2003**, 110, 1050-6	3.7	3
62	PH-induced changes in calcium: functional consequences and mechanisms of action in guinea pig portal vein. *American Journal of Physiology - Heart and Circulatory Physiology*, **2002**, 283, H2518-26	5.2	2
61	Characterisation of the ionic currents in freshly isolated rat ureter smooth muscle cells: evidence for species-dependent currents. *Pflugers Archiv European Journal of Physiology*, **2002**, 445, 444-53	4.6	16
60	The role of the sarcoplasmic reticulum in neonatal uterine smooth muscle: enhanced role compared to adult rat. *Journal of Physiology*, **2002**, 545, 557-66	3.9	23
59	Effect of inhibiting the sarcoplasmic reticulum on spontaneous and oxytocin-induced contractions of human myometrium. *BJOG: an International Journal of Obstetrics and Gynaecology*, **2002**, 109, 289-96	3.7	63
58	On the mechanisms whereby temperature affects excitation-contraction coupling in smooth muscle. *Journal of General Physiology*, **2002**, 119, 93-104	3.4	21
57	Modulating signaling events in smooth muscle: cleavage of annexin 2 abolishes its binding to lipid rafts. *FASEB Journal*, **2002**, 16, 1177-84	0.9	64

56	Sarcoplasmic reticulum function and contractile consequences in ureteric smooth muscles. *Novartis Foundation Symposium*, **2002**, 246, 208-17; discussion 217-20, 221-7		5
55	Role of the sarcoplasmic reticulum in uterine smooth muscle. *Novartis Foundation Symposium*, **2002**, 246, 6-18; discussion 18-25, 48-51		2
54	pH regulation and buffering power in gastric smooth muscle. *Pflugers Archiv European Journal of Physiology*, **2001**, 442, 459-66	4.6	7
53	The effects of inhibiting Rho-associated kinase with Y-27632 on force and intracellular calcium in human myometrium. *Pflugers Archiv European Journal of Physiology*, **2001**, 443, 112-4	4.6	72
52	The physiological basis of uterine contractility: a short review. *Experimental Physiology*, **2001**, 86, 239-46	2.4	99
51	Simultaneous measurements of changes in sarcoplasmic reticulum and cytosolic. *Journal of Physiology*, **2001**, 531, 707-13	3.9	79
50	Interactions between Ca(2+) and H(+) and functional consequences in vascular smooth muscle. *Circulation Research*, **2000**, 86, 355-63	15.7	67
49	A comparison of the contractile properties of human myometrium obtained from the upper and lower uterine segments. *BJOG: an International Journal of Obstetrics and Gynaecology*, **2000**, 107, 1309-11	3.7	49
48	pH and smooth muscle: regulation and functional effects **1999**, 275-298		
47	The role of the sarcoplasmic reticulum as a Ca2+ sink in rat uterine smooth muscle cells. *Journal of Physiology*, **1999**, 520 Pt 1, 153-63	3.9	55
46	The relationship between the action potential, intracellular calcium and force in intact phasic, guinea-pig uretic smooth muscle. *Journal of Physiology*, **1999**, 520 Pt 3, 867-83	3.9	22
45	In vivo pH and metabolite changes during a single contraction in rat uterine smooth muscle. *Journal of Physiology*, **1999**, 518 (Pt 3), 783-90	3.9	47
44	The effect of cyclopiazonic acid on excitation-contraction coupling in guinea-pig ureteric smooth muscle: role of the sarcoplasmic reticulum. *Journal of Physiology*, **1999**, 517 (Pt 3), 855-65	3.9	19
43	Intracellular calcium stores and agonist-induced contractions in isolated human myometrium. *American Journal of Obstetrics and Gynecology*, **1999**, 181, 468-76	6.4	71
42	Contribution of sarcoplasmic reticular calcium to smooth muscle contractile activation: gestational dependence in isolated rat uterus. *Journal of Physiology*, **1998**, 511 (Pt 1), 133-44	3.9	79
41	Hypoxia and smooth muscle function: key regulatory events during metabolic stress. *Journal of Physiology*, **1998**, 509 (Pt 2), 315-25	3.9	86
40	Properties of voltage-activated [Ca2+]i transients in single smooth muscle cells isolated from pregnant rat uterus. *Journal of Physiology*, **1998**, 511 (Pt 3), 803-11	3.9	66
39	The effects of changing intracellular pH on calcium and potassium currents in smooth muscle cells from the guinea-pig ureter. *Pflugers Archiv European Journal of Physiology*, **1998**, 435, 518-22	4.6	14

38	Intracellular Na+ measurements in smooth muscle using SBFI--changes in [Na+], Ca2+ and force in normal and Na(+)-loaded ureter. *Pflugers Archiv European Journal of Physiology*, **1998**, 435, 523-7	4.6	10
37	Developmental changes in intracellular pH buffering power in smooth muscle. *Pflugers Archiv European Journal of Physiology*, **1998**, 435, 575-7	4.6	15
36	The in vivo relationship between blood flow, contractions, pH and metabolites in the rat uterus. *Pflugers Archiv European Journal of Physiology*, **1998**, 435, 810-7	4.6	18
35	Developmental and species differences in the response of the ureter to metabolic inhibition. *Pflugers Archiv European Journal of Physiology*, **1998**, 436, 443-8	4.6	4
34	The effect of inhibition of myosin light chain kinase by Wortmannin on intracellular [Ca2+], electrical activity and force in phasic smooth muscle. *Pflugers Archiv European Journal of Physiology*, **1998**, 436, 801-3	4.6	32
33	Carboxyeosin decreases the rate of decay of the [Ca2+]i transient in uterine smooth muscle cells isolated from pregnant rats. *Pflugers Archiv European Journal of Physiology*, **1998**, 437, 158-60	4.6	35
32	The mechanism of Ca2+ release from the SR of permeabilised guinea-pig and rat ureteric smooth muscle. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1998**, 1402, 109-14	4.9	20
31	A review of the actions and control of intracellular pH in vascular smooth muscle. *Cardiovascular Research*, **1998**, 38, 316-31	9.9	65
30	The outside-in story of pH, Ca2+ and vascular tone. *Journal of Physiology*, **1997**, 503 (Pt 2), 235	3.9	
29	The role of the sarcolemmal Ca(2+)-ATPase in the pH transients associated with contraction in rat smooth muscle. *Journal of Physiology*, **1997**, 505 (Pt 2), 329-36	3.9	24
28	External alkalinization decreases intracellular Ca++ and spontaneous contractions in pregnant rat myometrium. *American Journal of Obstetrics and Gynecology*, **1997**, 177, 959-63	6.4	8
27	Agonist mobilization of sarcoplasmic reticular calcium in smooth muscle: functional coupling to the plasmalemmal Na+/Ca2+ exchanger?. *Cell Calcium*, **1997**, 22, 333-41	4	27
26	Simultaneous measurements of electrical activity, intracellular [Ca2+] and force in intact smooth muscle. *Pflugers Archiv European Journal of Physiology*, **1997**, 435, 182-4	4.6	17
25	Simultaneous measurement of intracellular pH, calcium, and tension in rat mesenteric vessels: effects of extracellular pH. *Biochemical and Biophysical Research Communications*, **1996**, 222, 537-40	3.4	18
24	Stimulus-dependent modulation of smooth muscle intracellular calcium and force by altered intracellular pH. *Pflugers Archiv European Journal of Physiology*, **1996**, 432, 803-11	4.6	21
23	Changes in intracellular pH close to term and their possible significance to labour. *Pflugers Archiv European Journal of Physiology*, **1995**, 430, 1012-4	4.6	8
22	The effect of metabolic inhibition on rat uterine intracellular pH and its role in contractile failure. *Pflugers Archiv European Journal of Physiology*, **1995**, 430, 125-31	4.6	11
21	An investigation of intrinsic buffering power in rat vascular smooth muscle cells. *Pflugers Archiv European Journal of Physiology*, **1995**, 429, 325-31	4.6	6

20	Changes of pH affect calcium currents but not outward potassium currents in rat myometrial cells. *Pflugers Archiv European Journal of Physiology*, **1995**, 431, 135-7	4.6	22
19	A 31P NMR investigation into the effects of repeated vascular occlusion on uterine metabolites, intracellular pH and force, in vivo. *NMR in Biomedicine*, **1995**, 8, 28-32	4.4	10
18	A quantitative study of the relation between intracellular pH and force in rat mesenteric vascular smooth muscle. *Pflugers Archiv European Journal of Physiology*, **1994**, 427, 270-6	4.6	18
17	Differential effects of external pH alteration on intracellular pH in rat coronary and cardiac myocytes. *Pflugers Archiv European Journal of Physiology*, **1994**, 428, 674-6	4.6	9
16	Abolition of contractions in the myometrium by acidification in vitro. *Lancet, The*, **1994**, 344, 717-8	40	37
15	Simultaneous measurement of intracellular pH and contraction in uterine smooth muscle. *Pflugers Archiv European Journal of Physiology*, **1993**, 423, 527-9	4.6	32
14	The effects of intracellular and extracellular alkalinization on contractions of the isolated rat uterus. *Pflugers Archiv European Journal of Physiology*, **1992**, 422, 24-30	4.6	17
13	Cytochrome oxidase content of rat brain during development. *Biochimica Et Biophysica Acta - Bioenergetics*, **1991**, 1057, 273-5	4.6	30
12	Biomedical Nuclear Magnetic Resonance Spectroscopy and Transport **1991**, 273-296		
11	Noninvasive measurement of molar concentrations of 31P metabolites in vivo, using surface coil NMR spectroscopy. *Magnetic Resonance in Medicine*, **1988**, 6, 84-6	4.4	41
10	A critical assessment of methods of measuring metabolite concentrations by NMR spectroscopy. *NMR in Biomedicine*, **1988**, 1, 1-10	4.4	156
9	Characterization of the near infrared absorption spectra of cytochrome aa3 and haemoglobin for the non-invasive monitoring of cerebral oxygenation. *Biochimica Et Biophysica Acta - Bioenergetics*, **1988**, 933, 184-92	4.6	639
8	Regulation of intracellular pH in rat uterine smooth muscle, studied by 31P NMR spectroscopy. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1988**, 972, 299-301	4.9	8
7	Regulation of intracellular pH in rat uterine smooth muscle studied by 31P NMR spectroscopy. *Biochimica Et Biophysica Acta - Bioenergetics*, **1988**, 972, 299-301	4.6	1
6	Quantification of cerebral oxygenation and haemodynamics in sick newborn infants by near infrared spectrophotometry. *Lancet, The*, **1986**, 2, 1063-6	40	409
5	Direct in vivo measurement of absolute metabolite concentrations using 31P nuclear magnetic resonance spectroscopy. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1986**, 886, 399-405	4.9	38
4	The effects of pregnancy and parturition on phosphorus metabolites in rat uterus studied by 31P nuclear magnetic resonance. *Journal of Physiology*, **1985**, 368, 19-31	3.9	45
3	Changes in brain phosphorus metabolites during the post-natal development of the rat. *Journal of Physiology*, **1985**, 359, 417-29	3.9	79

2	Ion pumping in biological membranes. *Contemporary Physics*, **1985**, 26, 3-21	3.3	7
1	Activation of nuclear chromatin in stretch-dependent growth of tissues. *Connective Tissue Research*, **1985**, 13, 217-25	3.3	6