Sarah Jane Roberts-Thomson

List of Publications by Citations

95 papers	4,598 citations	40 h-index	66 g-index
101 ext. papers	5,154 ext. citations	6.2 avg, IF	5.53 L-index

#	Paper	IF	Citations
95	Calcium and cancer: targeting Ca2+ transport. *Nature Reviews Cancer*, **2007**, 7, 519-30	31.3	502
94	Calcium channels and pumps in cancer: changes and consequences. *Journal of Biological Chemistry*, **2012**, 287, 31666-73	5.4	259
93	The calcium-cancer signalling nexus. *Nature Reviews Cancer*, **2017**, 17, 367-380	31.3	241
92	Induction of epithelial-mesenchymal transition (EMT) in breast cancer cells is calcium signal dependent. *Oncogene*, **2014**, 33, 2307-16	9.2	232
91	Store-independent activation of Orai1 by SPCA2 in mammary tumors. *Cell*, **2010**, 143, 84-98	56.2	213
90	ORAI1-mediated calcium influx in lactation and in breast cancer. *Molecular Cancer Therapeutics*, **2011**, 10, 448-60	6.1	160
89	Peroxisome proliferator-activated receptor alpha in the human breast cancer cell lines MCF-7 and MDA-MB-231. *Molecular Carcinogenesis*, **2002**, 34, 165-71	5	123
88	Characterisation of CYP3A gene subfamily expression in human gastrointestinal tissues. *Gut*, **1995**, 36, 259-67	19.2	105
87	Calcium influx pathways in breast cancer: opportunities for pharmacological intervention. *British Journal of Pharmacology*, **2014**, 171, 945-60	8.6	97
86	Calcium channel TRPV6 as a potential therapeutic target in estrogen receptor-negative breast cancer. *Molecular Cancer Therapeutics*, **2012**, 11, 2158-68	6.1	88
85	The mu opioid agonist morphine modulates potentiation of capsaicin-evoked TRPV1 responses through a cyclic AMP-dependent protein kinase A pathway. *Molecular Pain*, **2006**, 2, 22	3.4	80
84	Plasma membrane calcium-ATPase 2 and 4 in human breast cancer cell lines. *Biochemical and Biophysical Research Communications*, **2005**, 337, 779-83	3.4	73
83	Hypoxia-induced reactive oxygen species mediate N-cadherin and SERPINE1 expression, EGFR signalling and motility in MDA-MB-468 breast cancer cells. *Scientific Reports*, **2017**, 7, 15140	4.9	71
82	Activation of the food-derived mutagen 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine by rabbit and human liver microsomes and purified forms of cytochrome P-450. *Carcinogenesis*, **1989**, 10, 357-63	4.6	71
81	Essential role of Orai1 store-operated calcium channels in lactation. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 5827-32	11.5	70
80	Non-stimulated, agonist-stimulated and store-operated Ca2+ influx in MDA-MB-468 breast cancer cells and the effect of EGF-induced EMT on calcium entry. *PLoS ONE*, **2012**, 7, e36923	3.7	69
79	Localization of plasma membrane and secretory calcium pumps in the mammary gland. *Biochemical and Biophysical Research Communications*, **2008**, 369, 977-81	3.4	67

78	Mitochondrial calcium uniporter silencing potentiates caspase-independent cell death in MDA-MB-231 breast cancer cells. *Biochemical and Biophysical Research Communications*, **2013**, 434, 695-700	2.4	65
77	Golgi calcium pump secretory pathway calcium ATPase 1 (SPCA1) is a key regulator of insulin-like growth factor receptor (IGF1R) processing in the basal-like breast cancer cell line MDA-MB-231. *Journal of Biological Chemistry*, **2010**, 285, 37458-66	5.4	65
76	Photochemical studies on the anti-inflammatory drug diclofenac. *Photochemistry and Photobiology*, **1990**, 52, 685-90	3.6	65
75	Altered purinergic receptor-Ca□+ signaling associated with hypoxia-induced epithelial-mesenchymal transition in breast cancer cells. *Molecular Oncology*, **2016**, 10, 166-78	7.9	61
74	Peroxisome proliferator-activated receptors in tumorigenesis: targets of tumour promotion and treatment. *Immunology and Cell Biology*, **2000**, 78, 436-41	5	61
73	TRPC1 is a differential regulator of hypoxia-mediated events and Akt signalling in PTEN-deficient breast cancer cells. *Journal of Cell Science*, **2017**, 130, 2292-2305	5.3	59
72	Plasma membrane calcium ATPase 4 and the remodeling of calcium homeostasis in human colon cancer cells. *Carcinogenesis*, **2009**, 30, 1962-9	4.6	58
71	ORAI-mediated calcium entry: mechanism and roles, diseases and pharmacology. *Pharmacology & Therapeutics*, **2010**, 127, 121-30	13.9	55
70	Plasma membrane Ca2+-ATPase expression during colon cancer cell line differentiation. *Biochemical and Biophysical Research Communications*, **2007**, 355, 932-6	3.4	54
69	The catalytic activity of four expressed human cytochrome P450s towards benzo[a]pyrene and the isomers of its proximate carcinogen. *Biochemical and Biophysical Research Communications*, **1993**, 192, 1373-9	3.4	54
68	Distinct regulation of cytoplasmic calcium signals and cell death pathways by different plasma membrane calcium ATPase isoforms in MDA-MB-231 breast cancer cells. *Journal of Biological Chemistry*, **2012**, 287, 28598-608	5.4	53
67	Phytochemical extraction, characterisation and comparative distribution across four mango (Mangifera indica L.) fruit varieties. *Food Chemistry*, **2014**, 149, 253-63	8.5	51
66	A model of experimental autoimmune encephalomyelitis (EAE) in C57BL/6 mice for the characterisation of intervention therapies. *Journal of Neuroscience Methods*, **2007**, 163, 245-54	3	51
65	Consequences of activating the calcium-permeable ion channel TRPV1 in breast cancer cells with regulated TRPV1 expression. *Cell Calcium*, **2014**, 56, 59-67	4	50
64	Assessment of gene expression of intracellular calcium channels, pumps and exchangers with epidermal growth factor-induced epithelial-mesenchymal transition in a breast cancer cell line. *Cancer Cell International*, **2013**, 13, 76	6.4	50
63	Oncosis and apoptosis induction by activation of an overexpressed ion channel in breast cancer cells. *Oncogene*, **2017**, 36, 6490-6500	9.2	50
62	Ion channels and transporters in cancer. 4. Remodeling of Ca(2+) signaling in tumorigenesis: role of Ca(2+) transport. *American Journal of Physiology - Cell Physiology*, **2011**, 301, C969-76	5.4	47
61	Expression of plasma membrane calcium pump isoform mRNAs in breast cancer cell lines. *Cellular Signalling*, **2002**, 14, 1015-22	4.9	47

60	Remodeling of purinergic receptor-mediated Ca2+ signaling as a consequence of EGF-induced epithelial-mesenchymal transition in breast cancer cells. *PLoS ONE*, **2011**, 6, e23464	3.7	46
59	Mango extracts and the mango component mangiferin promote endothelial cell migration. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 5181-6	5.7	45
58	Mono(2-ethylhexyl)phthalate and mono-n-butyl phthalate activation of peroxisome proliferator activated-receptors alpha and gamma in breast. *Toxicology Letters*, **2006**, 163, 224-34	4.4	45
57	Rapid, opioid-sensitive mechanisms involved in transient receptor potential vanilloid 1 sensitization. *Journal of Biological Chemistry*, **2008**, 283, 19540-50	5.4	43
56	Effects of the mango components mangiferin and quercetin and the putative mangiferin metabolite norathyriol on the transactivation of peroxisome proliferator-activated receptor isoforms. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 3037-42	5.7	41
55	The calcium pump plasma membrane Ca(2+)-ATPase 2 (PMCA2) regulates breast cancer cell proliferation and sensitivity to doxorubicin. *Scientific Reports*, **2016**, 6, 25505	4.9	40
54	Effect of the peroxisome proliferator-activated receptor beta activator GW0742 in rat cultured cerebellar granule neurons. *Journal of Neuroscience Research*, **2004**, 77, 240-9	4.4	38
53	Calcium transport and signaling in the mammary gland: targets for breast cancer. *Biochimica Et Biophysica Acta: Reviews on Cancer*, **2006**, 1765, 235-55	11.2	36
52	Calcium signalling and breast cancer. *Seminars in Cell and Developmental Biology*, **2019**, 94, 74-83	7.5	36
51	Antisense-mediated Inhibition of the plasma membrane calcium-ATPase suppresses proliferation of MCF-7 cells. *Journal of Biological Chemistry*, **2005**, 280, 27076-84	5.4	35
50	The Calcium-Signaling Toolkit in Cancer: Remodeling and Targeting. *Cold Spring Harbor Perspectives in Biology*, **2019**, 11,	10.2	33
49	Isoform specific changes in PPAR alpha and beta in colon and breast cancer with differentiation. *Biochemical and Biophysical Research Communications*, **2006**, 340, 656-60	3.4	31
48	Major Australian tropical fruits biodiversity: bioactive compounds and their bioactivities. *Molecular Nutrition and Food Research*, **2012**, 56, 357-87	5.9	30
47	ORAI1 and ORAI3 in Breast Cancer Molecular Subtypes and the Identification of ORAI3 as a Hypoxia Sensitive Gene and a Regulator of Hypoxia Responses. *Cancers*, **2019**, 11,	6.6	29
46	Peroxisome proliferator-activated receptor beta expression in human breast epithelial cell lines of tumorigenic and non-tumorigenic origin. *International Journal of Biochemistry and Cell Biology*, **2002**, 34, 1051-8	5.6	28
45	Pharmacological inhibition of store-operated calcium entry in MDA-MB-468 basal A breast cancer cells: consequences on calcium signalling, cell migration and proliferation. *Cellular and Molecular Life Sciences*, **2018**, 75, 4525-4537	10.3	27
44	Effects of peroxisome proliferator-activated receptor gamma ligands ciglitazone and 15-deoxy-delta 12,14-prostaglandin J2 on rat cultured cerebellar granule neuronal viability. *Journal of Neuroscience Research*, **2003**, 72, 747-55	4.4	26
43	The voltage gated Ca(2+)-channel Cav3.2 and therapeutic responses in breast cancer. *Cancer Cell International*, **2016**, 16, 24	6.4	24

42	Mango fruit peel and flesh extracts affect adipogenesis in 3T3-L1 cells. *Food and Function*, **2012**, 3, 828-36	6.1	23
41	Effect of dietary fat on codon 12 and 13 Ha-ras gene mutations in 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine-induced rat mammary gland tumors. *Molecular Carcinogenesis*, **1997**, 20, 348-54	5	23
40	Plasma membrane calcium pumps and their emerging roles in cancer. *World Journal of Biological Chemistry*, **2010**, 1, 248-53	3.8	23
39	A role for calcium in the regulation of ATP-binding cassette, sub-family C, member 3 (ABCC3) gene expression in a model of epidermal growth factor-mediated breast cancer epithelial-mesenchymal transition. *Biochemical and Biophysical Research Communications*, **2015**, 458, 509-514	3.4	22
38	Ratiometric and nonratiometric Ca2+ indicators for the assessment of intracellular free Ca2+ in a breast cancer cell line using a fluorescence microplate reader. *Journal of Proteomics*, **2004**, 58, 227-37		22
37	Characterization of peroxisome proliferator-activated receptor alpha in normal rat mammary gland and 2-amino-l-methyl-6-phenylimidazo[4, 5-b]pyridine-induced mammary gland tumors from rats fed high and low fat diets. *Toxicology Letters*, **2000**, 118, 79-86	4.4	21
36	Proliferation, development and DNA adduct levels in the mammary gland of rats given 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine and a high fat diet. *Carcinogenesis*, **1998**, 19, 1209-15	4.6	21
35	Mechanisms involved in potentiation of transient receptor potential vanilloid 1 responses by ethanol. *European Journal of Pain*, **2008**, 12, 441-54	3.7	19
34	Assessment of the TRPM8 inhibitor AMTB in breast cancer cells and its identification as an inhibitor of voltage gated sodium channels. *Life Sciences*, **2018**, 198, 128-135	6.8	18
33	Bioactivity of mango flesh and peel extracts on peroxisome proliferator-activated receptor [PPAR]activation and MCF-7 cell proliferation: fraction and fruit variability. *Journal of Food Science* , **2011**, 76, H11-8	3.4	17
32	Peroxisome proliferator-activated receptor alpha expression is regulated by estrogen receptor alpha and modulates the response of MCF-7 cells to sodium butyrate. *International Journal of Biochemistry and Cell Biology*, **2006**, 38, 255-66	5.6	17
31	Differential effects of two-pore channel protein 1 and 2 silencing in MDA-MB-468 breast cancer cells. *Biochemical and Biophysical Research Communications*, **2016**, 477, 731-736	3.4	17
30	Estrogen modulation properties of mangiferin and quercetin and the mangiferin metabolite norathyriol. *Food and Function*, **2015**, 6, 1847-54	6.1	16
29	Assessment of ORAI1-mediated basal calcium influx in mammary epithelial cells. *BMC Cell Biology*, **2013**, 14, 57		15
28	Polyphenolic contents and the effects of methanol extracts from mango varieties on breast cancer cells. *Food Science and Biotechnology*, **2015**, 24, 265-271	3	15
27	Plasma membrane calcium ATPases and cancer. *BioFactors*, **2011**, 37, 132-8	6.1	14
26	Activation of the peroxisome proliferator-activated receptor-alpha enhances cell death in cultured cerebellar granule cells. *Journal of Neuroscience Research*, **2001**, 66, 236-41	4.4	14
25	PMCA2 silencing potentiates MDA-MB-231 breast cancer cell death initiated with the Bcl-2 inhibitor ABT-263. *Biochemical and Biophysical Research Communications*, **2016**, 478, 1792-7	3.4	14

24	Assessment of cytosolic free calcium changes during ceramide-induced cell death in MDA-MB-231 breast cancer cells expressing the calcium sensor GCaMP6m. *Cell Calcium*, **2018**, 72, 39-50	4	12
23	PMCA1 mRNA expression in rat aortic myocytes: a real-time RT-PCR study. *Biochemical and Biophysical Research Communications*, **2000**, 276, 1024-7	3.4	12
22	Mango Fruit Extracts Differentially Affect Proliferation and Intracellular Calcium Signalling in MCF-7 Human Breast Cancer Cells. *Journal of Chemistry*, **2015**, 2015, 1-10	2.3	10
21	Anti-proliferative effects of novel glyco-lipid-arsenicals (III) on MCF-7 human breast cancer cells. *Medicinal Chemistry*, **2006**, 2, 79-87	1.8	10
20	Stereochemistry of the major rat liver microsomal metabolites of the carcinogen 7-methylbenz[c]acridine. *Chemical Research in Toxicology*, **1991**, 4, 546-55	4	8
19	Activation of the Ion Channel TRPV4 Induces Epithelial to Mesenchymal Transition in Breast Cancer Cells. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	8
18	Janus kinases and Src family kinases in the regulation of EGF-induced vimentin expression in MDA-MB-468 breast cancer cells. *International Journal of Biochemistry and Cell Biology*, **2016**, 76, 64-74	5.6	7
17	Assessment of CXC ligand 12-mediated calcium signalling and its regulators in basal-like breast cancer cells. *Oncology Letters*, **2018**, 15, 4289-4295	2.6	6
16	Mango (Mangifera indica L.) peel extract fractions from different cultivars differentially affect lipid accumulation in 3T3-L1 adipocyte cells. *Food and Function*, **2013**, 4, 481-91	6.1	6
15	PPARalpha and PPARbeta are differentially affected by ethanol and the ethanol metabolite acetaldehyde in the MCF-7 breast cancer cell line. *Toxicological Sciences*, **2008**, 102, 120-8	4.4	6
14	mRNA differential display of 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine-induced rat mammary gland tumors. *Breast Cancer Research and Treatment*, **1998**, 51, 99-107	4.4	5
13	NCS-1 expression is higher in basal breast cancers and regulates calcium influx and cytotoxic responses to doxorubicin. *Molecular Oncology*, **2020**, 14, 87-104	7.9	4
12	An automated epifluorescence microscopy imaging assay for the identification of phospho-AKT level modulators in breast cancer cells. *Journal of Pharmacological and Toxicological Methods*, **2018**, 92, 13-19	1.7	3
11	Development of a real-time RT-PCR assay for plasma membrane calcium ATPase isoform 1 (PMCA1) mRNA levels in a human breast epithelial cell line. *Journal of Pharmacological and Toxicological Methods*, **2000**, 44, 513-7	1.7	3
10	ORAI1 regulates sustained cytosolic free calcium fluctuations during breast cancer cell apoptosis and apoptotic resistance via a STIM1 independent pathway.. *FASEB Journal*, **2022**, 36, e22108	0.9	3
9	Effects of differentiation on purinergic and neurotensin-mediated calcium signaling in human HT-29 colon cancer cells. *Biochemical and Biophysical Research Communications*, **2013**, 439, 35-9	3.4	2
8	Differential engagement of ORAI1 and TRPC1 in the induction of vimentin expression by different stimuli. *Laboratory Investigation*, **2020**, 100, 224-233	5.9	2
7	Increased matrix stiffness suppresses ATP-induced sustained Ca influx in MDA-MB-231 breast cancer cells.. *Cell Calcium*, **2022**, 104, 102569	4	2

6	Peroxisome proliferator-activated receptor subtypes in mammary gland development and breast cancer. *Journal of Cancer Therapeutics & Research*, **2012**, 1, 14		1
5	Assessment of doxorubicin-induced remodeling of Ca signaling and associated Ca regulating proteins in MDA-MB-231 breast cancer cells. *Biochemical and Biophysical Research Communications*, **2020**, 522, 532-538	3.4	1
4	Altered Calcium Influx Pathways in Cancer-Associated Fibroblasts. *Biomedicines*, **2021**, 9,	4.8	1
3	ORAI1-Regulated Gene Expression in Breast Cancer Cells: Roles for STIM1 Binding, Calcium Influx and Transcription Factor Translocation. *International Journal of Molecular Sciences*, **2022**, 23, 5867	6.3	1
2	Novel Glyco-lipid-arsenicals (III) with Anti-proliferative Effects on MCF-7 Human Breast Cancer Cells **2006**, 365-366		
1	Uncoiling the link between STIM1 and metastatic pathways in estrogen receptor negative breast cancer cells.. *Cell Calcium*, **2022**, 103, 102563	4	