

H Llewelyn Roderick

List of Publications by Year in descending order

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102
papers

13,998
citations

61984
43
h-index

39675
94
g-index

108
all docs

108
docs citations

108
times ranked

18356
citing authors

#	ARTICLE	IF	CITATIONS
1	Killing in the name of: Reversing epigenetic silencing of ITPR3 to succumb cancer cellsâ€™ resistance to chemotherapeutics. <i>Cell Calcium</i> , 2022, 102, 102526.	2.4	0
2	MSK-Mediated Phosphorylation of Histone H3 Ser28 Couples MAPK Signalling with Early Gene Induction and Cardiac Hypertrophy. <i>Cells</i> , 2022, 11, 604.	4.1	8
3	The cardiomyocyte firestarterâ€™ RyR clusters ignite their neighbours after augmentation of Ca ²⁺ release by Î²â€™stimulation. <i>Acta Physiologica</i> , 2022, 234, e13798.	3.8	2
4	Epigenetics in atrial fibrillation: A reappraisal. <i>Heart Rhythm</i> , 2021, 18, 824-832.	0.7	4
5	Ca ²⁺ release via InsP3Rs enhances RyR recruitment during Ca ²⁺ transients by increasing dyadic [Ca ²⁺] in cardiomyocytes. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	10
6	Discrete sites of frequent premature ventricular complexes cluster within the infarct border zone and coincide with high frequency of delayed afterdepolarizations under adrenergic stimulation. <i>Heart Rhythm</i> , 2021, 18, 1976-1987.	0.7	16
7	Ventricular Arrhythmias in Ischemic Cardiomyopathyâ€™New Avenues for Mechanism-Guided Treatment. <i>Cells</i> , 2021, 10, 2629.	4.1	21
8	Incomplete Assembly of the Dystrophin-Associated Protein Complex in 2D and 3D-Cultured Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 737840.	3.7	10
9	Calcium Signaling in Cardiomyocyte Function. <i>Cold Spring Harbor Perspectives in Biology</i> , 2020, 12, a035428.	5.5	58
10	Altered adrenergic response in myocytes bordering a chronic myocardial infarction underlies in vivo triggered activity and repolarization instability. <i>Journal of Physiology</i> , 2020, 598, 2875-2895.	2.9	20
11	Inhibition of aquaporin-1 prevents myocardial remodeling by blocking the transmembrane transport of hydrogen peroxide. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	39
12	Ca ²⁺ Release via IP3 Receptors Shapes the Cardiac Ca ²⁺ Transient for Hypertrophic Signaling. <i>Biophysical Journal</i> , 2020, 119, 1178-1192.	0.5	13
13	Genes encoding ACE2, TMPRSS2 and related proteins mediating SARS-CoV-2 viral entry are upregulated with age in human cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2020, 147, 88-91.	1.9	21
14	Mitochondrial Ca ²⁺ laMety directs fibrosis. <i>Cell Calcium</i> , 2020, 86, 102155.	2.4	0
15	ER Ca ²⁺ release and store-operated Ca ²⁺ entry â€™ partners in crime or independent actors in oncogenic transformation?. <i>Cell Calcium</i> , 2019, 82, 102061.	2.4	18
16	Detecting RyR Clusters with CaCLEAN: Validation and Influence of Spatial Heterogeneity. <i>Biophysical Journal</i> , 2019, 116, 42a-43a.	0.5	0
17	Myofibroblast Phenotype and Reversibility of Fibrosis in Patients With End-Stage Heart Failure. <i>Journal of the American College of Cardiology</i> , 2019, 73, 2267-2282.	2.8	119
18	Assessing Cardiomyocyte Excitation-Contraction Coupling Site Detection From Live Cell Imaging Using a Structurally-Realistic Computational Model of Calcium Release. <i>Frontiers in Physiology</i> , 2019, 10, 1263.	2.8	8

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19	Contractile responses to endothelin-1 are regulated by PKC phosphorylation of cardiac myosin binding protein-C in rat ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 117, 1-18.	1.9	19
20	Hyperactive ryanodine receptors in human heart failure and ischaemic cardiomyopathy reside outside of couplons. <i>Cardiovascular Research</i> , 2018, 114, 1512-1524.	3.8	47
21	Oncogenic KRAS suppresses store-operated Ca ²⁺ entry and ICRAC through ERK pathway-dependent remodelling of STIM expression in colorectal cancer cell lines. <i>Cell Calcium</i> , 2018, 72, 70-80.	2.4	20
22	Quantitative proteomics and systems analysis of cultured H9C2 cardiomyoblasts during differentiation over time supports a 'function follows form' model of differentiation. <i>Molecular Omics</i> , 2018, 14, 181-196.	2.8	9
23	LncRNAing Ca ²⁺ , SERCA and cardiac disease. <i>Cell Calcium</i> , 2018, 72, 132-134.	2.4	7
24	Endothelin-1 promotes hypertrophic remodelling of cardiac myocytes by activating sustained signalling and transcription downstream of endothelin type A receptors. <i>Cellular Signalling</i> , 2017, 36, 240-254.	3.6	48
25	Global fibroblast activation throughout the left ventricle but localized fibrosis after myocardial infarction. <i>Scientific Reports</i> , 2017, 7, 10801.	3.3	59
26	Activin A Modulates CRIPTO-1/HNF4 α Cells to Guide Cardiac Differentiation from Human Embryonic Stem Cells. <i>Stem Cells International</i> , 2017, 2017, 1-17.	2.5	11
27	Calcium/calmodulin-dependent kinase II and nitric oxide synthase -dependent modulation of ryanodine receptors during I^2 -adrenergic stimulation is restricted to the dyadic cleft. <i>Journal of Physiology</i> , 2016, 594, 5923-5939.	2.9	33
28	The H3K9 dimethyltransferases EHMT1/2 protect against pathological cardiac hypertrophy. <i>Journal of Clinical Investigation</i> , 2016, 127, 335-348.	8.2	99
29	Oncogenic K-Ras suppresses IP3-dependent Ca ²⁺ release through remodeling of IP3Rs isoform composition and ER luminal Ca ²⁺ levels in colorectal cancer cell lines. <i>Journal of Cell Science</i> , 2014, 127, 1607-19.	2.0	63
30	InsP3R Activation Facilitates Ca ²⁺ Wave Propagation in Ventricular Myocytes. <i>Biophysical Journal</i> , 2014, 106, 532a.	0.5	0
31	The role of the paracrine/autocrine mediator endothelin-1 in regulation of cardiac contractility and growth. <i>British Journal of Pharmacology</i> , 2013, 168, 296-317.	5.4	75
32	Epigenetics in the heart: the role of histone modifications in cardiac remodelling. <i>Biochemical Society Transactions</i> , 2013, 41, 789-796.	3.4	34
33	Inositol 1,4,5-Trisphosphate Receptors. <i>Circulation</i> , 2013, 128, 1273-1275.	1.6	7
34	Alzheimer's disease-associated peptide A β ²⁴² mobilizes ER Ca ²⁺ via InsP3R-dependent and -independent mechanisms. <i>Frontiers in Molecular Neuroscience</i> , 2013, 6, 36.	2.9	37
35	Mutual antagonism between IP3RII and miRNA-133a regulates calcium signals and cardiac hypertrophy. <i>Journal of General Physiology</i> , 2013, 141, i1-i1.	1.9	1
36	Mutual antagonism between IP3RII and miRNA-133a regulates calcium signals and cardiac hypertrophy. <i>Journal of Cell Biology</i> , 2012, 199, 783-798.	5.2	80

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37	Subcellular calcium dynamics in a whole-cell model of an atrial myocyte. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2150-2155.	7.1	60
38	IP3 Receptors in Heart Failure: Arrhythmogenic Troublemakers or SR Calcium Security Valves?. Biophysical Journal, 2012, 102, 101a.	0.5	1
39	Intra-axonal calcium changes after axotomy in wild-type and slow Wallerian degeneration axons. Neuroscience, 2012, 225, 44-54.	2.3	41
40	Atrial cardiomyocyte calcium signalling. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 922-934.	4.1	84
41	Calcium Signaling in Cardiac Myocytes. Cold Spring Harbor Perspectives in Biology, 2011, 3, a004242-a004242.	5.5	206
42	Using Calcium Imaging as a Readout of GPCR Activation. Methods in Molecular Biology, 2011, 746, 277-296.	0.9	8
43	Comparison of the T-tubule system in adult rat ventricular and atrial myocytes, and its role in excitation-contraction coupling and inotropic stimulation. Cell Calcium, 2010, 47, 210-223.	2.4	97
44	CREB-dependent Nur77 induction following depolarization in PC12 cells and neurons is modulated by MEK2 transcription factors. Journal of Neurochemistry, 2010, 112, 1065-1073.	3.9	31
45	Intracellular Calcium Signaling. , 2010, , 937-942.		5
46	Calcium Signalling; Messengers, Transport Pathways, Sensors, and Physiological Outcomes. , 2010, , 885-886.		0
47	Elevated InsP ₃ expression underlies enhanced calcium fluxes and spontaneous extra-systolic calcium release events in hypertrophic cardiac myocytes. Channels, 2010, 4, 67-71.	2.8	33
48	Exposure to GSM RF Fields Does Not Affect Calcium Homeostasis in Human Endothelial Cells, Rat Pheochromocytoma Cells or Rat Hippocampal Neurons. PLoS ONE, 2010, 5, e11828.	2.5	42
49	An update on nuclear calcium signalling. Journal of Cell Science, 2009, 122, 2337-2350.	2.0	180
50	Glucocorticoid-mediated Inhibition of Lck Modulates the Pattern of T Cell Receptor-induced Calcium Signals by Down-regulating Inositol 1,4,5-Trisphosphate Receptors. Journal of Biological Chemistry, 2009, 284, 31860-31871.	3.4	46
51	The BH4 domain of Bcl-2 inhibits ER calcium release and apoptosis by binding the regulatory and coupling domain of the IP3 receptor. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14397-14402.	7.1	258
52	Increased InsP ₃ Rs in the junctional sarcoplasmic reticulum augment Ca ²⁺ transients and arrhythmias associated with cardiac hypertrophy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11406-11411.	7.1	114
53	Endothelin-1-Stimulated InsP3-Induced Ca ²⁺ Release Is a Nexus for Hypertrophic Signaling in Cardiac Myocytes. Molecular Cell, 2009, 33, 472-482.	9.7	130
54	Ca ²⁺ signalling checkpoints in cancer: remodelling Ca ²⁺ for cancer cell proliferation and survival. Nature Reviews Cancer, 2008, 8, 361-375.	28.4	600

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55	The cellular concentration of Bcl-2 determines its pro- or anti-apoptotic effect. Cell Calcium, 2008, 44, 243-258.	2.4	38
56	Bcl-2 suppresses Ca ²⁺ release through inositol 1,4,5-trisphosphate receptors and inhibits Ca ²⁺ uptake by mitochondria without affecting ER calcium store content. Cell Calcium, 2008, 44, 324-338.	2.4	92
57	Targeting Bcl-2-IP3 Receptor Interaction to Reverse Bcl-2's Inhibition of Apoptotic Calcium Signals. Molecular Cell, 2008, 31, 255-265.	9.7	225
58	Emerging roles of inositol 1,4,5-trisphosphate signaling in cardiac myocytes. Journal of Molecular and Cellular Cardiology, 2008, 45, 128-147.	1.9	177
59	Autophagosome formation from membrane compartments enriched in phosphatidylinositol 3-phosphate and dynamically connected to the endoplasmic reticulum. Journal of Cell Biology, 2008, 182, 685-701.	5.2	1,588
60	Calcium Phosphate Crystals Induce Cell Death in Human Vascular Smooth Muscle Cells. Circulation Research, 2008, 103, e28-34.	4.5	280
61	Why, where, and when do cardiac myocytes express inositol 1,4,5-trisphosphate receptors?. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H579-H581.	3.2	12
62	Phosphorylation of inositol 1,4,5-trisphosphate receptors by protein kinase B/Akt inhibits Ca ²⁺ release and apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2427-2432.	7.1	238
63	Methacholine and PDGF activate store-operated calcium entry in neuronal precursor cells via distinct calcium entry channels. Biological Research, 2008, 41, 183-95.	3.4	14
64	Dynamic imaging of calcium and STIM1 in the same cell using wide-field and TIRF microscopy. BioTechniques, 2008, 45, 347-348.	1.8	6
65	Calcium Oscillations. Advances in Experimental Medicine and Biology, 2008, 641, 1-27.	1.6	40
66	Calcium in the heart: when it's good, it's very very good, but when it's bad, it's horrid. Biochemical Society Transactions, 2007, 35, 957-961.	3.4	24
67	The Proapoptotic Factors Bax and Bak Regulate T Cell Proliferation through Control of Endoplasmic Reticulum Ca ²⁺ Homeostasis. Immunity, 2007, 27, 268-280.	14.3	92
68	Synthesis and Biological Action of Novel 4-Position-Modified Derivatives of d-myo-Inositol 1,4,5-Trisphosphate. Journal of Organic Chemistry, 2007, 72, 5647-5659.	3.2	17
69	Pacemaking, arrhythmias, inotropy and hypertrophy: the many possible facets of IP ₃ signalling in cardiac myocytes. Journal of Physiology, 2007, 581, 883-884.	2.9	21
70	Interaction between store-operated and arachidonate-activated calcium entry. Cell Calcium, 2007, 41, 1-12.	2.4	17
71	Defective chemoattractant-induced calcium signalling in S100A9 null neutrophils. Cell Calcium, 2007, 41, 107-121.	2.4	28
72	Temporal changes in atrial EC-coupling during prolonged stimulation with endothelin-1. Cell Calcium, 2007, 42, 489-501.	2.4	28

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73	Calcium signalling during excitation-contraction coupling in mammalian atrial myocytes. <i>Journal of Cell Science</i> , 2006, 119, 3915-3925.	2.0	132
74	The Synthesis of Membrane Permeant Derivatives of myo-Inositol 1,4,5-Trisphosphate. <i>Australian Journal of Chemistry</i> , 2006, 59, 887.	0.9	12
75	The JAK3 inhibitor WHI-P154 prevents PDGF-evoked process outgrowth in human neural precursor cells. <i>Journal of Neurochemistry</i> , 2006, 97, 201-210.	3.9	9
76	New Ca ²⁺ Indicator has Freedom to Express. <i>Chemistry and Biology</i> , 2006, 13, 463-464.	6.0	1
77	Critical Role of Phospholipase C β 1 in the Generation of H ₂ O ₂ -evoked [Ca ²⁺] Oscillations in Cultured Rat Cortical Astrocytes. <i>Journal of Biological Chemistry</i> , 2006, 281, 13057-13067.	3.4	43
78	Inositol 1,4,5-trisphosphate supports the arrhythmogenic action of endothelin-1 on ventricular cardiac myocytes. <i>Journal of Cell Science</i> , 2006, 119, 3363-3375.	2.0	109
79	XTRPC1-dependent chemotropic guidance of neuronal growth cones. <i>Nature Neuroscience</i> , 2005, 8, 730-735.	14.8	151
80	CAPRI and RASAL impose different modes of information processing on Ras due to contrasting temporal filtering of Ca ²⁺ . <i>Journal of Cell Biology</i> , 2005, 170, 183-190.	5.2	74
81	Redoxing Calcium from the ER. <i>Cell</i> , 2005, 120, 4-5.	28.9	13
82	The spatial pattern of atrial cardiomyocyte calcium signalling modulates contraction. <i>Journal of Cell Science</i> , 2004, 117, 6327-6337.	2.0	137
83	Calmidazolium and arachidonate activate a calcium entry pathway that is distinct from store-operated calcium influx in HeLa cells. <i>Biochemical Journal</i> , 2004, 381, 929-939.	3.7	38
84	Bcl-2 functionally interacts with inositol 1,4,5-trisphosphate receptors to regulate calcium release from the ER in response to inositol 1,4,5-trisphosphate. <i>Journal of Cell Biology</i> , 2004, 166, 193-203.	5.2	366
85	The Primary Substrate Binding Site in the β 2 Domain of ERp57 Is Adapted for Endoplasmic Reticulum Lectin Association. <i>Journal of Biological Chemistry</i> , 2004, 279, 18861-18869.	3.4	88
86	Regulation of InsP3 receptor activity by neuronal Ca ²⁺ -binding proteins. <i>EMBO Journal</i> , 2004, 23, 312-321.	7.8	149
87	Cell Signalling: IP3 Receptors Channel Calcium into Cell Death. <i>Current Biology</i> , 2004, 14, R933-R935.	3.9	113
88	Inositol 1,4,5-trisphosphate receptors in the heart. <i>Biological Research</i> , 2004, 37, 553-7.	3.4	24
89	Calcium-induced calcium release. <i>Current Biology</i> , 2003, 13, R425.	3.9	107
90	Calcium Influx: Is Homer the Missing Link?. <i>Current Biology</i> , 2003, 13, R976-R978.	3.9	11

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91	2-Aminoethoxydiphenyl borate (2-APB) antagonises inositol 1,4,5-trisphosphate-induced calcium release, inhibits calcium pumps and has a use-dependent and slowly reversible action on store-operated calcium entry channels. Cell Calcium, 2003, 34, 97-108.	2.4	248
92	Calcium signalling: dynamics, homeostasis and remodelling. Nature Reviews Molecular Cell Biology, 2003, 4, 517-529.	37.0	4,720
93	Intracellular Calcium Signaling. , 2003, , 51-56.		1
94	Calnexin and Calreticulin, ER Associated Modulators of Calcium Transport in the ER. Molecular Biology Intelligence Unit, 2003, , 126-132.	0.2	3
95	Activating calcium release through inositol 1,4,5-trisphosphate receptors without inositol 1,4,5-trisphosphate. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 7320-7322.	7.1	24
96	2-Aminoethoxydiphenyl borate (2-APB) is a reliable blocker of store-operated Ca^{2+} entry but an inconsistent inhibitor of InsP_3 -induced Ca^{2+} release. FASEB Journal, 2002, 16, 1145-1150.	0.5	668
97	Calcium Signalling: More Messengers, More Channels, More Complexity. Current Biology, 2002, 12, R563-R565.	3.9	261
98	Characterization of an N-system Amino Acid Transporter Expressed in Retina and Its Involvement in Glutamine Transport. Journal of Biological Chemistry, 2001, 276, 24137-24144.	3.4	47
99	Cytosolic Phosphorylation of Calnexin Controls Intracellular Ca^{2+} Oscillations via an Interaction with Serca2b. Journal of Cell Biology, 2000, 149, 1235-1248.	5.2	221
100	ERp57 Functions as a Subunit of Specific Complexes Formed with the ER Lectins Calreticulin and Calnexin. Molecular Biology of the Cell, 1999, 10, 2573-2582.	2.1	293
101	Role of calreticulin in regulating intracellular Ca^{2+} storage and capacitative Ca^{2+} entry in HeLa cells. Cell Calcium, 1998, 24, 253-262.	2.4	40
102	The Endoplasmic Reticulum: A Central Player in Cell Signalling and Protein Synthesis. Lecture Notes in Physics, 0, , 17-35.	0.7	0