

# Robin M Shaw

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

4,556

citations

30

h-index

67

g-index

79

ext. papers

5,279

ext. citations

10.5

avg, IF

5.52

L-index

#	Paper	IF	Citations
68	GJA1-20k and Mitochondrial Dynamics.. <i>Frontiers in Physiology</i> , <b>2022</b> , 13, 867358	4.6	0
67	Protective mitochondrial fission induced by stress-responsive protein GJA1-20k. <i>ELife</i> , <b>2021</b> , 10,	8.9	2
66	SARS-CoV-2 as an inflammatory cardiovascular disease: current knowledge and future challenges. <i>Future Cardiology</i> , <b>2021</b> , 17, 1277-1291	1.3	1
65	Association of coronary microvascular dysfunction and cardiac bridge integrator 1, a cardiomyocyte dysfunction biomarker. <i>Clinical Cardiology</i> , <b>2021</b> , 44, 1586-1593	3.3	1
64	In Mice Subjected to Chronic Stress, Exogenous cBIN1 Preserves Calcium-Handling Machinery and Cardiac Function. <i>JACC Basic To Translational Science</i> , <b>2020</b> , 5, 561-578	8.7	8
63	cBIN1 Score (CS) Identifies Ambulatory HFrfEF Patients and Predicts Cardiovascular Events. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 503	4.6	5
62	An Alternatively Translated Connexin 43 Isoform, GJA1-11k, Localizes to the Nucleus and Can Inhibit Cell Cycle Progression. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	7
61	Exogenous Cardiac Bridging Integrator 1 Benefits Mouse Hearts With Pre-existing Pressure Overload-Induced Heart Failure. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 708	4.6	6
60	Auxiliary trafficking subunit GJA1-20k protects connexin-43 from degradation and limits ventricular arrhythmias. <i>Journal of Clinical Investigation</i> , <b>2020</b> , 130, 4858-4870	15.9	16
59	A role for connexin-43 in Duchenne muscular dystrophy cardiomyopathy. <i>Journal of Clinical Investigation</i> , <b>2020</b> , 130, 1608-1610	15.9	3
58	Correlating Cardiac Origin Neurohormonal Stress Levels With Heart Failure Outcomes. <i>JAMA Cardiology</i> , <b>2020</b> , 5, 326-327	16.2	
57	Letter by Nikolova et al Regarding Article, "Heart Failure With Preserved Ejection Fraction in Perspective". <i>Circulation Research</i> , <b>2019</b> , 125, e24-e25	15.7	1
56	Intracellular trafficking pathways of Cx43 gap junction channels. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2018</b> , 1860, 40-47	3.8	55
55	Ion Channel Trafficking in the Heart <b>2018</b> , 160-166		
54	Stress response protein GJA1-20k promotes mitochondrial biogenesis, metabolic quiescence, and cardioprotection against ischemia/reperfusion injury. <i>JCI Insight</i> , <b>2018</b> , 3,	9.9	39
53	Association of a Novel Diagnostic Biomarker, the Plasma Cardiac Bridging Integrator 1 Score, With Heart Failure With Preserved Ejection Fraction and Cardiovascular Hospitalization. <i>JAMA Cardiology</i> , <b>2018</b> , 3, 1206-1210	16.2	21
52	GJA1-20k Arranges Actin to Guide Cx43 Delivery to Cardiac Intercalated Discs. <i>Circulation Research</i> , <b>2017</b> , 121, 1069-1080	15.7	50

51	Cardiac T-Tubule Microanatomy and Function. <i>Physiological Reviews</i> , <b>2017</b> , 97, 227-252	47.9	91
50	Cx43 Isoform GJA1-20k Promotes Microtubule Dependent Mitochondrial Transport. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 905	4.6	40
49	The ESCRT-III pathway facilitates cardiomyocyte release of cBIN1-containing microparticles. <i>PLoS Biology</i> , <b>2017</b> , 15, e2002354	9.7	17
48	Rad-deletion Phenocopies Tonic Sympathetic Stimulation of the Heart. <i>Journal of Cardiovascular Translational Research</i> , <b>2016</b> , 9, 432-444	3.3	10
47	Connexin 43 and CaV1.2 Ion Channel Trafficking in Healthy and Diseased Myocardium. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2016</b> , 9, e001357	6.4	19
46	The "tail" of Connexin43: An unexpected journey from alternative translation to trafficking. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2016</b> , 1863, 1848-56	4.9	18
45	Cardiomyocyte protein trafficking: Relevance to heart disease and opportunities for therapeutic intervention. <i>Trends in Cardiovascular Medicine</i> , <b>2015</b> , 25, 379-89	6.9	11
44	Na <sup>+</sup> channel function, regulation, structure, trafficking and sequestration. <i>Journal of Physiology</i> , <b>2015</b> , 593, 1347-60	3.9	42
43	A micropatterning approach for imaging dynamic Cx43 trafficking to cell-cell borders. <i>FEBS Letters</i> , <b>2014</b> , 588, 1439-45	3.8	14
42	Desmosomal hotspots, microtubule delivery, and cardiac arrhythmogenesis. <i>Developmental Cell</i> , <b>2014</b> , 31, 139-40	10.2	7
41	A 14-3-3 mode-1 binding motif initiates gap junction internalization during acute cardiac ischemia. <i>Traffic</i> , <b>2014</b> , 15, 684-99	5.7	63
40	Cardiac BIN1 folds T-tubule membrane, controlling ion flux and limiting arrhythmia. <i>Nature Medicine</i> , <b>2014</b> , 20, 624-32	50.5	150
39	Trafficking highways to the intercalated disc: new insights unlocking the specificity of connexin 43 localization. <i>Cell Communication and Adhesion</i> , <b>2014</b> , 21, 43-54		18
38	Ion Channel Trafficking in the Heart <b>2014</b> , 171-178		
37	Role for myosin-V motor proteins in the selective delivery of Kv channel isoforms to the membrane surface of cardiac myocytes. <i>Circulation Research</i> , <b>2014</b> , 114, 982-92	15.7	27
36	L-type calcium channel targeting and local signalling in cardiac myocytes. <i>Cardiovascular Research</i> , <b>2013</b> , 98, 177-86	9.9	100
35	Multilayered regulation of cardiac ion channels. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2013</b> , 1833, 876-85	4.9	23
34	Performance of the REVEAL model in WHO Group 2 to 5 pulmonary hypertension: application beyond pulmonary arterial hypertension. <i>Journal of Heart and Lung Transplantation</i> , <b>2013</b> , 32, 293-8	5.8	14

33	Autoregulation of connexin43 gap junction formation by internally translated isoforms. <i>Cell Reports</i> , <b>2013</b> , 5, 611-8	10.6	95
32	3-OST-7 regulates BMP-dependent cardiac contraction. <i>PLoS Biology</i> , <b>2013</b> , 11, e1001727	9.7	17
31	Dynasore protects mitochondria and improves cardiac lusitropy in Langendorff perfused mouse heart. <i>PLoS ONE</i> , <b>2013</b> , 8, e60967	3.7	61
30	The gap junction life cycle. <i>Heart Rhythm</i> , <b>2012</b> , 9, 151-3	6.7	23
29	Plasma BIN1 correlates with heart failure and predicts arrhythmia in patients with arrhythmogenic right ventricular cardiomyopathy. <i>Heart Rhythm</i> , <b>2012</b> , 9, 961-7	6.7	38
28	Validation of the Registry to Evaluate Early and Long-Term Pulmonary Arterial Hypertension Disease Management (REVEAL) pulmonary hypertension prediction model in a unique population and utility in the prediction of long-term survival. <i>Journal of Heart and Lung Transplantation</i> , <b>2012</b> , 31, 1165-70	5.8	22
27	BIN1 is reduced and Cav1.2 trafficking is impaired in human failing cardiomyocytes. <i>Heart Rhythm</i> , <b>2012</b> , 9, 812-20	6.7	103
26	Visualizing cardiac ion channel trafficking pathways. <i>Methods in Enzymology</i> , <b>2012</b> , 505, 187-202	1.7	5
25	Redox-sensitive sulfenic acid modification regulates surface expression of the cardiovascular voltage-gated potassium channel Kv1.5. <i>Circulation Research</i> , <b>2012</b> , 111, 842-53	15.7	60
24	Actin cytoskeleton rest stops regulate anterograde traffic of connexin 43 vesicles to the plasma membrane. <i>Circulation Research</i> , <b>2012</b> , 110, 978-89	15.7	101
23	Iroquois homeobox gene 3 establishes fast conduction in the cardiac His-Purkinje network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 13576-81	11.5	84
22	Cardiac conduction is required to preserve cardiac chamber morphology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 14662-7	11.5	90
21	BIN1 localizes the L-type calcium channel to cardiac T-tubules. <i>PLoS Biology</i> , <b>2010</b> , 8, e1000312	9.7	158
20	Cardiac muscle is not a uniform syncytium. <i>Biophysical Journal</i> , <b>2010</b> , 98, 3102-3; discussion 3104-5	2.9	5
19	Forward trafficking of ion channels: what the clinician needs to know. <i>Heart Rhythm</i> , <b>2010</b> , 7, 1135-40	6.7	26
18	Limited forward trafficking of connexin 43 reduces cell-cell coupling in stressed human and mouse myocardium. <i>Journal of Clinical Investigation</i> , <b>2010</b> , 120, 266-79	15.9	168
17	Cardiac fibroblasts regulate myocardial proliferation through beta1 integrin signaling. <i>Developmental Cell</i> , <b>2009</b> , 16, 233-44	10.2	424
16	Visualizing ion channel dynamics at the plasma membrane. <i>Heart Rhythm</i> , <b>2008</b> , 5, S7-11	6.7	8

15	Foxn4 directly regulates tbx2b expression and atrioventricular canal formation. <i>Genes and Development</i> , <b>2008</b> , 22, 734-9	12.6	258
14	Genetic and physiologic dissection of the vertebrate cardiac conduction system. <i>PLoS Biology</i> , <b>2008</b> , 6, e109	9.7	196
13	Stromal cell-derived factor-1alpha is cardioprotective after myocardial infarction. <i>Circulation</i> , <b>2008</b> , 117, 2224-31	16.7	182
12	Acute vincristine pretreatment protects adult mouse cardiac myocytes from oxidative stress. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2007</b> , 43, 327-36	5.8	15
11	Microtubule plus-end-tracking proteins target gap junctions directly from the cell interior to adherens junctions. <i>Cell</i> , <b>2007</b> , 128, 547-60	56.2	374
10	Mammalian electrophysiology on a microfluidic platform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 9112-7	11.5	145
9	Microfluidic application-specific integrated device for monitoring direct cell-cell communication via gap junctions between individual cell pairs. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 223902	3.4	95
8	Gap Junctions and the Spread of Electrical Excitation. <i>Developments in Cardiovascular Medicine</i> , <b>1998</b> , 125-147		1
7	Electrophysiologic effects of acute myocardial ischemia: a theoretical study of altered cell excitability and action potential duration. <i>Cardiovascular Research</i> , <b>1997</b> , 35, 256-72	9.9	222
6	Electrophysiologic effects of acute myocardial ischemia. A mechanistic investigation of action potential conduction and conduction failure. <i>Circulation Research</i> , <b>1997</b> , 80, 124-38	15.7	149
5	Ionic mechanisms of propagation in cardiac tissue. Roles of the sodium and L-type calcium currents during reduced excitability and decreased gap junction coupling. <i>Circulation Research</i> , <b>1997</b> , 81, 727-41	15.7	452
4	Cardiac excitation: an interactive process of ion channels and gap junctions. <i>Advances in Experimental Medicine and Biology</i> , <b>1997</b> , 430, 269-79	3.6	12
3	The vulnerable window for unidirectional block in cardiac tissue: characterization and dependence on membrane excitability and intercellular coupling. <i>Journal of Cardiovascular Electrophysiology</i> , <b>1995</b> , 6, 115-31	2.7	72
2	GJA1-20k, an internally translated isoform of Connexin 43, is an actin capping protein		1
1	Protective mitochondrial fission induced by stress responsive protein GJA1-20k		2