

# Rebecca A B Burton

## List of Publications by Citations

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39  
papers

1,263  
citations

17  
h-index

35  
g-index

47  
ext. papers

1,593  
ext. citations

5.2  
avg, IF

3.88  
L-index

#	Paper	IF	Citations
39	Axial stretch of rat single ventricular cardiomyocytes causes an acute and transient increase in Ca <sup>2+</sup> spark rate. <i>Circulation Research</i> , <b>2009</b> , 104, 787-95	15.7	154
38	Development of an anatomically detailed MRI-derived rabbit ventricular model and assessment of its impact on simulations of electrophysiological function. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2010</b> , 298, H699-718	5.2	143
37	Generation of histo-anatomically representative models of the individual heart: tools and application. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2009</b> , 367, 2257-92	3	127
36	Hydroxychloroquine reduces heart rate by modulating the hyperpolarization-activated current I <sub>f</sub> : Novel electrophysiological insights and therapeutic potential. <i>Heart Rhythm</i> , <b>2015</b> , 12, 2186-94	6.7	92
35	Optical control of excitation waves in cardiac tissue. <i>Nature Photonics</i> , <b>2015</b> , 9, 813-816	33.9	81
34	Histo-anatomical structure of the living isolated rat heart in two contraction states assessed by diffusion tensor MRI. <i>Progress in Biophysics and Molecular Biology</i> , <b>2012</b> , 110, 319-30	4.7	81
33	Three-dimensional models of individual cardiac histoanatomy: tools and challenges. <i>Annals of the New York Academy of Sciences</i> , <b>2006</b> , 1080, 301-19	6.5	79
32	Measurement and analysis of sarcomere length in rat cardiomyocytes in situ and in vitro. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2010</b> , 298, H1616-25	5.2	57
31	Rearrangement of atrial bundle architecture and consequent changes in anisotropy of conduction constitute the 3-dimensional substrate for atrial fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2013</b> , 6, 967-75	6.4	46
30	Minimum Information about a Cardiac Electrophysiology Experiment (MICEE): standardised reporting for model reproducibility, interoperability, and data sharing. <i>Progress in Biophysics and Molecular Biology</i> , <b>2011</b> , 107, 4-10	4.7	45
29	Two-pore Channels (TPC2s) and Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) at Lysosomal-Sarcoplasmic Reticular Junctions Contribute to Acute and Chronic $\beta$ Adrenoceptor Signaling in the Heart. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 30087-98	5.4	44
28	High resolution structural evidence suggests the Sarcoplasmic Reticulum forms microdomains with Acidic Stores (lysosomes) in the heart. <i>Scientific Reports</i> , <b>2017</b> , 7, 40620	4.9	36
27	Resolving Fine Cardiac Structures in Rats with High-Resolution Diffusion Tensor Imaging. <i>Scientific Reports</i> , <b>2016</b> , 6, 30573	4.9	33
26	Progressive changes in T <sub>1</sub> and left-ventricular histo-architecture in the fixed and embedded rat heart. <i>NMR in Biomedicine</i> , <b>2011</b> , 24, 836-43	4.4	31
25	Caveolae in Rabbit Ventricular Myocytes: Distribution and Dynamic Diminution after Cell Isolation. <i>Biophysical Journal</i> , <b>2017</b> , 113, 1047-1059	2.9	23
24	Fast measurement of sarcomere length and cell orientation in Langendorff-perfused hearts using remote focusing microscopy. <i>Circulation Research</i> , <b>2013</b> , 113, 863-70	15.7	22
23	Mapping cardiac microstructure of rabbit heart in different mechanical states by high resolution diffusion tensor imaging: A proof-of-principle study. <i>Progress in Biophysics and Molecular Biology</i> , <b>2016</b> , 121, 85-96	4.7	17

22	Synaptic Plasticity in Cardiac Innervation and Its Potential Role in Atrial Fibrillation. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 240	4.6	16
21	Three-dimensional histology: tools and application to quantitative assessment of cell-type distribution in rabbit heart. <i>Europace</i> , <b>2014</b> , 16 Suppl 4, iv86-iv95	3.9	12
20	The Role of Blood Vessels in Rabbit Propagation Dynamics and Cardiac Arrhythmias. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 268-276	0.9	10
19	Quantifying distortions in two-photon remote focussing microscope images using a volumetric calibration specimen. <i>Frontiers in Physiology</i> , <b>2014</b> , 5, 384	4.6	8
18	Integrated approach for the study of anatomical variability in the cardiac Purkinje system: from high resolution MRI to electrophysiology simulation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 6793-6	0.9	8
17	Optical Interrogation of Sympathetic Neuronal Effects on Macroscopic Cardiomyocyte Network Dynamics. <i>IScience</i> , <b>2020</b> , 23, 101334	6.1	8
16	Ccoffinn: Automated Wave Tracking in Cultured Cardiac Monolayers. <i>Biophysical Journal</i> , <b>2016</b> , 111, 1595-1599	5.4	96
15	Mechanism of reentry induction by a 9-V battery in rabbit ventricles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2014</b> , 306, H1041-53	5.2	6
14	Microscopic magnetic resonance imaging reveals high prevalence of third coronary artery in human and rabbit heart. <i>Europace</i> , <b>2012</b> , 14 Suppl 5, v73-v81	3.9	6
13	IP-mediated Ca release regulates atrial Ca transients and pacemaker function by stimulation of adenylyl cyclases. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2021</b> , 320, H95-H107	5.2	6
12	COSMAS: a lightweight toolbox for cardiac optical mapping analysis. <i>Scientific Reports</i> , <b>2021</b> , 11, 9147	4.9	5
11	Highly trabeculated structure of the human endocardium underlies asymmetrical response to low-energy monophasic shocks. <i>Chaos</i> , <b>2017</b> , 27, 093913	3.3	4
10	AN ITERATIVE METHOD FOR REGISTRATION OF HIGH-RESOLUTION CARDIAC HISTOANATOMICAL AND MRI IMAGES <b>2007</b> ,		4
9	Cardiac valve annulus manual segmentation using computer assisted visual feedback in three-dimensional image data. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 738-41	0.9	3
8	Cardiac TdP risk stratification modelling of anti-infective compounds including chloroquine and hydroxychloroquine. <i>Royal Society Open Science</i> , <b>2021</b> , 8, 210235	3.3	3
7	Macro-micro imaging of cardiac-neural circuits in co-cultures from normal and diseased hearts. <i>Journal of Physiology</i> , <b>2015</b> , 593, 3047-53	3.9	2
6	Combining tissue engineering and optical imaging approaches to explore interactions along the neuro-cardiac axis. <i>Royal Society Open Science</i> , <b>2020</b> , 7, 200265	3.3	2
5	Emerging Evidence for cAMP-calcium Cross Talk in Heart Atrial Nanodomains Where IP3-Evoked Calcium Release Stimulates Adenylyl Cyclases. <i>Contact (Thousand Oaks (Ventura County, Calif))</i> , <b>2021</b> , 4, 251525642110083	2.6	2

4	Rediscovering the third coronary artery. <i>European Heart Journal</i> , <b>2011</b> , 32, 1435-7	9.5	2
3	Resolving the Three-Dimensional Histology of the Heart. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 2-16	0.9	1
2	Towards High-Resolution Cardiac Atlases: Ventricular Anatomy Descriptors for a Standardized Reference Frame. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 75-84	0.9	1
1	A modified density gradient proteomic-based method to analyze endolysosomal proteins in cardiac tissue. <i>iScience</i> , <b>2021</b> , 24, 102949	6.1	0