

Rebecca A B Burton

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,725
citations

394286

19
h-index

330025

37
g-index

47
all docs

47
docs citations

47
times ranked

2288
citing authors

#	ARTICLE	IF	CITATIONS
1	Axial Stretch of Rat Single Ventricular Cardiomyocytes Causes an Acute and Transient Increase in Ca ²⁺ Spark Rate. <i>Circulation Research</i> , 2009, 104, 787-795.	2.0	199
2	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> , 2010, 298, H699-H718.	1.5	192
3	Generation of histo-anatomically representative models of the individual heart: tools and application. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 2257-2292.	1.6	135
4	Hydroxychloroquine reduces heart rate by modulating the hyperpolarization-activated current I _f : Novel electrophysiological insights and therapeutic potential. <i>Heart Rhythm</i> , 2015, 12, 2186-2194.	0.3	124
5	Optical control of excitation waves in cardiac tissue. <i>Nature Photonics</i> , 2015, 9, 813-816.	15.6	120
6	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> , 2012, 110, 319-330.	1.4	96
7	Three-Dimensional Models of Individual Cardiac Histoanatomy: Tools and Challenges. <i>Annals of the New York Academy of Sciences</i> , 2006, 1080, 301-319.	1.8	89
8	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> , 2011, 107, 4-10.	1.4	75
9	Measurement and analysis of sarcomere length in rat cardiomyocytes in situ and in vitro. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H1616-H1625.	1.5	69
10	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> , 2013, 6, 967-975.	2.1	67
11	Two-pore Channels (TPC2s) and Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) at Lysosomal-Sarcoplasmic Reticular Junctions Contribute to Acute and Chronic I ² -Adrenoceptor Signaling in the Heart. <i>Journal of Biological Chemistry</i> , 2015, 290, 30087-30098.	1.6	63
12	High resolution structural evidence suggests the Sarcoplasmic Reticulum forms microdomains with Acidic Stores (lysosomes) in the heart. <i>Scientific Reports</i> , 2017, 7, 40620.	1.6	59
13	Caveolae in Rabbit Ventricular Myocytes: Distribution and Dynamic Diminution after Cell Isolation. <i>Biophysical Journal</i> , 2017, 113, 1047-1059.	0.2	49
14	Resolving Fine Cardiac Structures in Rats with High-Resolution Diffusion Tensor Imaging. <i>Scientific Reports</i> , 2016, 6, 30573.	1.6	47
15	Progressive changes in T ₁ , T ₂ and left ventricular histoarchitecture in the fixed and embedded rat heart. <i>NMR in Biomedicine</i> , 2011, 24, 836-843.	1.6	31
16	Fast Measurement of Sarcomere Length and Cell Orientation in Langendorff-Perfused Hearts Using Remote Focusing Microscopy. <i>Circulation Research</i> , 2013, 113, 863-870.	2.0	30
17	Synaptic Plasticity in Cardiac Innervation and Its Potential Role in Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2018, 9, 240.	1.3	25
18	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> , 2016, 121, 85-96.	1.4	24

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19	Three-dimensional histology: tools and application to quantitative assessment of cell-type distribution in rabbit heart. <i>Europace</i> , 2014, 16, iv86-iv95.	0.7	22
20	IP ₃ -mediated Ca ²⁺ release regulates atrial Ca ²⁺ transients and pacemaker function by stimulation of adenylyl cyclases. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H95-H107.	1.5	22
21	COSMAS: a lightweight toolbox for cardiac optical mapping analysis. <i>Scientific Reports</i> , 2021, 11, 9147.	1.6	20
22	Quantifying distortions in two-photon remote focussing microscope images using a volumetric calibration specimen. <i>Frontiers in Physiology</i> , 2014, 5, 384.	1.3	15
23	Optical Interrogation of Sympathetic Neuronal Effects on Macroscopic Cardiomyocyte Network Dynamics. <i>IScience</i> , 2020, 23, 101334.	1.9	13
24	Cardiac TdP risk stratification modelling of anti-infective compounds including chloroquine and hydroxychloroquine. <i>Royal Society Open Science</i> , 2021, 8, 210235.	1.1	13
25	Integrated approach for the study of anatomical variability in the cardiac Purkinje system: From high resolution MRI to electrophysiology simulation. , 2010, 2010, 6793-6.		11
26	The Role of Blood Vessels in Rabbit Propagation Dynamics and Cardiac Arrhythmias. <i>Lecture Notes in Computer Science</i> , 2009, , 268-276.	1.0	11
27	Ccoffinn: Automated Wave Tracking in Cultured Cardiac Monolayers. <i>Biophysical Journal</i> , 2016, 111, 1595-1599.	0.2	10
28	Microscopic magnetic resonance imaging reveals high prevalence of third coronary artery in human and rabbit heart. <i>Europace</i> , 2012, 14, v73-v81.	0.7	7
29	Mechanism of reentry induction by a 9-V battery in rabbit ventricles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 306, H1041-H1053.	1.5	7
30	Highly trabeculated structure of the human endocardium underlies asymmetrical response to low-energy monophasic shocks. <i>Chaos</i> , 2017, 27, 093913.	1.0	6
31	AN ITERATIVE METHOD FOR REGISTRATION OF HIGH-RESOLUTION CARDIAC HISTOANATOMICAL AND MRI IMAGES. , 2007, , .		5
32	Emerging Evidence for cAMP-calcium Cross Talk in Heart Atrial Nanodomains Where IP ₃ -Evoked Calcium Release Stimulates Adenylyl Cyclases. <i>Contact (Thousand Oaks)</i> 10 Tf 50.		5
33	Cardiac valve annulus manual segmentation using computer assisted visual feedback in three-dimensional image data. , 2010, 2010, 738-41.		4
34	Macro-εmicro imaging of cardiac-εneural circuits in co-εcultures from normal and diseased hearts. <i>Journal of Physiology</i> , 2015, 593, 3047-3053.	1.3	4
35	Resolving the Three-Dimensional Histology of the Heart. <i>Lecture Notes in Computer Science</i> , 2012, , 2-16.	1.0	3
36	Combining tissue engineering and optical imaging approaches to explore interactions along the neuro-cardiac axis. <i>Royal Society Open Science</i> , 2020, 7, 200265.	1.1	2

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37	Rediscovering the third coronary artery. <i>European Heart Journal</i> , 2011, 32, 1435-7.	1.0	2
38	Spatiotemporal Transitions in Cardiac Neuronal Co-Cultures. <i>Biophysical Journal</i> , 2014, 106, 630a.	0.2	1
39	A modified density gradient proteomic-based method to analyze endolysosomal proteins in cardiac tissue. <i>IScience</i> , 2021, 24, 102949.	1.9	1
40	Towards High-Resolution Cardiac Atlases: Ventricular Anatomy Descriptors for a Standardized Reference Frame. <i>Lecture Notes in Computer Science</i> , 2010, , 75-84.	1.0	1
41	CardioPulse Articles. <i>European Heart Journal</i> , 2011, 32, 1433-1439.	1.0	0
42	Quantitative imaging of intact cardiac tissue using remote focusing microscopy. , 2015, , .		0
43	Uniquely identifying cell orientation and sarcomere length in the intact rodent heart with oblique plane remote focussing microscopy. , 2015, , .		0
44	Imaging cardiomyocytes in intact tissue with a remote focusing microscope. , 2015, , .		0