

# Oliver J Monfredi

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

1,600  
citations

394421

19  
h-index

315739

38  
g-index

50  
all docs

50  
docs citations

50  
times ranked

2183  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biophysical Characterization of the Underappreciated and Important Relationship Between Heart Rate Variability and Heart Rate. <i>Hypertension</i> , 2014, 64, 1334-1343.	2.7	263
2	Exercise training reduces resting heart rate via downregulation of the funny channel HCN4. <i>Nature Communications</i> , 2014, 5, 3775.	12.8	194
3	The Anatomy and Physiology of the Sinoatrial Node-A Contemporary Review. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2010, 33, 1392-1406.	1.2	166
4	Sick sinus syndrome and atrial fibrillation in older persons – A view from the sinoatrial nodal myocyte. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 83, 88-100.	1.9	91
5	A coupled-clock system drives the automaticity of human sinoatrial nodal pacemaker cells. <i>Science Signaling</i> , 2018, 11, .	3.6	85
6	Targeting miR-423-5p Reverses Exercise Training-Induced HCN4 Channel Remodeling and Sinus Bradycardia. <i>Circulation Research</i> , 2017, 121, 1058-1068.	4.5	76
7	Modern Concepts Concerning the Origin of the Heartbeat. <i>Physiology</i> , 2013, 28, 74-92.	3.1	75
8	Viewpoint: Is the resting bradycardia in athletes the result of remodeling of the sinoatrial node rather than high vagal tone?. <i>Journal of Applied Physiology</i> , 2013, 114, 1351-1355.	2.5	64
9	Inverse Correlation between Heart Rate Variability and Heart Rate Demonstrated by Linear and Nonlinear Analysis. <i>PLoS ONE</i> , 2016, 11, e0157557.	2.5	59
10	Impact of Exercise Restriction on Arrhythmic Risk Among Patients With Arrhythmogenic Right Ventricular Cardiomyopathy. <i>Journal of the American Heart Association</i> , 2018, 7, .	3.7	55
11	Beat-to-Beat Variation in Periodicity of Local Calcium Releases Contributes to Intrinsic Variations of Spontaneous Cycle Length in Isolated Single Sinoatrial Node Cells. <i>PLoS ONE</i> , 2013, 8, e67247.	2.5	48
12	Electrophysiological heterogeneity of pacemaker cells in the rabbit intercaval region, including the SA node: insights from recording multiple ion currents in each cell. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 314, H403-H414.	3.2	47
13	Heterogeneity of calcium clock functions in dormant, dysrhythmically and rhythmically firing single pacemaker cells isolated from SA node. <i>Cell Calcium</i> , 2018, 74, 168-179.	2.4	45
14	Overexpression of a Neuronal Type Adenylyl Cyclase (Type 8) in Sinoatrial Node Markedly Impacts Heart Rate and Rhythm. <i>Frontiers in Neuroscience</i> , 2019, 13, 615.	2.8	38
15	Point: Exercise training-induced bradycardia is caused by changes in intrinsic sinus node function. <i>Journal of Applied Physiology</i> , 2017, 123, 684-685.	2.5	30
16	Percutaneous device closure of atrial septal defect results in very early and sustained changes of right and left heart function. <i>International Journal of Cardiology</i> , 2013, 167, 1578-1584.	1.7	26
17	Complexities in cardiovascular rhythmicity: perspectives on circadian normality, ageing and disease. <i>Cardiovascular Research</i> , 2019, 115, 1576-1595.	3.8	26
18	Efficacy and Safety of Bosentan for Pulmonary Arterial Hypertension in Adults With Congenital Heart Disease. <i>American Journal of Cardiology</i> , 2011, 108, 1483-1488.	1.6	24

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19	Atrioventricular Node Dysfunction and Ion Channel Transcriptome in Pulmonary Hypertension. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016, 9, .	4.8	22
20	Changes in the expression of ion channels, connexins and Ca <sup>2+</sup> -handling proteins in the sino-atrial node during postnatal development. <i>Experimental Physiology</i> , 2011, 96, 426-438.	2.0	17
21	cAMP-Dependent Signaling Restores AP Firing in Dormant SA Node Cells via Enhancement of Surface Membrane Currents and Calcium Coupling. <i>Frontiers in Physiology</i> , 2021, 12, 596832.	2.8	17
22	Regulation of sinus node pacemaking and atrioventricular node conduction by HCN channels in health and disease. <i>Progress in Biophysics and Molecular Biology</i> , 2021, 166, 61-85.	2.9	16
23	Cardiac Magnetic Resonance Assessment of Response to Cardiac Resynchronization Therapy and Programming Strategies. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 2369-2383.	5.3	14
24	Arrhythmic outcome of arrhythmogenic right ventricular cardiomyopathy patients without implantable defibrillators. <i>Journal of Cardiovascular Electrophysiology</i> , 2018, 29, 1396-1402.	1.7	12
25	Remodeling of the Purkinje Network in Congestive Heart Failure in the Rabbit. <i>Circulation: Heart Failure</i> , 2021, 14, e007505.	3.9	11
26	β <sup>2</sup> -Adrenergic Stimulation Synchronizes a Broad Spectrum of Action Potential Firing Rates of Cardiac Pacemaker Cells toward a Higher Population Average. <i>Cells</i> , 2021, 10, 2124.	4.1	11
27	Continuous cardiorespiratory monitoring is a dominant source of predictive signal in machine learning for risk stratification and clinical decision support *. <i>Physiological Measurement</i> , 2021, 42, 090301.	2.1	11
28	Computer algorithms for automated detection and analysis of local Ca <sup>2+</sup> releases in spontaneously beating cardiac pacemaker cells. <i>PLoS ONE</i> , 2017, 12, e0179419.	2.5	10
29	Heart rate fragmentation gives novel insights into non-autonomic mechanisms governing beat-to-beat control of the heart's rhythm. <i>JRSM Cardiovascular Disease</i> , 2020, 9, 204800402094873.	0.7	9
30	Effect of dual pulmonary vasodilator therapy in pulmonary arterial hypertension associated with congenital heart disease: a retrospective analysis. <i>Open Heart</i> , 2016, 3, e000399.	2.3	7
31	Predictive Monitoring's Impact in Acute Care Cardiology Trial (PM-IMPACCT): Protocol for a Randomized Controlled Trial. <i>JMIR Research Protocols</i> , 2021, 10, e29631.	1.0	7
32	Stochastic Beat-To-Beat Variation in Periodicity of Local Calcium Releases Predicts Intrinsic Cycle Length Variability in Single Sinoatrial Node Cells. <i>Biophysical Journal</i> , 2011, 100, 558a.	0.5	5
33	Was a mistake made when programmed electrical stimulation was eliminated as a sudden death risk marker in hypertrophic cardiomyopathy?. <i>International Journal of Cardiology</i> , 2018, 254, 238-239.	1.7	4
34	Electrically Dormant Sinoatrial Nodal Cells (SANC) are Awakened by Increased Camp-Dependent Phosphorylation of Coupled-Clock Proteins. <i>Biophysical Journal</i> , 2017, 112, 402a-403a.	0.5	3
35	Letter by Monfredi et al Regarding Article, "Physical Activity and Heart Rate Variability in Older Adults: The Cardiovascular Health Study". <i>Circulation</i> , 2015, 131, e348.	1.6	2
36	Rebuttal from Boyett et al.. <i>Journal of Applied Physiology</i> , 2017, 123, 689-689.	2.5	2

#	ARTICLE	IF	CITATIONS
37	Ultrastructure of primary pacemaking cells in rabbit sinoatrial node cells indicates limited sarcoplasmic reticulum content. <i>FASEB BioAdvances</i> , 2020, 2, 106-115.	2.4	2
38	Beyond prediction: Off-target uses of artificial intelligence-based predictive analytics in a learning health system. <i>Learning Health Systems</i> , 2023, 7, .	2.0	2
39	Exercise in the Genetic Arrhythmia Syndromes – A Review. <i>Clinics in Sports Medicine</i> , 2022, 41, 485-510.	1.8	2
40	No way in & no way out: a case of renal failure due to both pre- and post-renal obstruction. <i>Nephrology Dialysis Transplantation</i> , 2008, 23, 2406-2408.	0.7	1
41	Reply to Matelot, Schnell, Kervio, Thillaye du Boullay, and Carre. <i>Journal of Applied Physiology</i> , 2013, 114, 1757-1757.	2.5	0
42	Autonomic Stimulation Modulates Action Potential Firing Rate in Cardiac Pacemaker Cells via Synchronization of Local Calcium Pumping and Release. <i>Biophysical Journal</i> , 2015, 108, 569a-570a.	0.5	0
43	Heterogeneity in Beating and Response to Beta Adrenergic Receptor Stimulation in Isolated Single Sinoatrial Nodal Cells (SANC). <i>Biophysical Journal</i> , 2016, 110, 274a.	0.5	0
44	Synchronization of Local Calcium Releases (LCRs) in Guinea Pig Single, Isolated SA Node Cells Contributes to Generation of Rhythmic Action Potential-Induced Ca <sup>2+</sup> Transients. <i>Biophysical Journal</i> , 2016, 110, 434a-435a.	0.5	0
45	Lead extraction in patients with cardiac resynchronization therapy devices: are they worse than the others?. <i>Europace</i> , 2019, 21, 842-843.	1.7	0
46	Machine Learning and Super-Resolution Microscopy Reveal Detailed Hierarchy of Ryanodine Receptor Distribution in Cardiac Pacemaker Cells. <i>Biophysical Journal</i> , 2019, 116, 380a.	0.5	0
47	Spontaneous Helix Retraction of the Ingevity+ Pacemaker Lead: A Single-Center Experience. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021, 14, e009958.	4.8	0