Anuradha Kalyanasundaram

List of Publications by Year
in descending order

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36 papers	1,364 citations	430874 18 h-index	501196 28 g-index
36 all docs	36 docs citations	36 times ranked	2062 citing authors

#	Article	IF	Citations
1	Atrial fibrillation driven by micro-anatomic intramural re-entry revealed by simultaneous sub-epicardial and sub-endocardial optical mapping in explanted human hearts. European Heart Journal, 2015, 36, 2390-2401.	2.2	347
2	Calsequestrin 2 deletion causes sinoatrial node dysfunction and atrial arrhythmias associated with altered sarcoplasmic reticulum calcium cycling and degenerative fibrosis within the mouse atrial pacemaker complex1. European Heart Journal, 2015, 36, 686-697.	2.2	110
3	Fibrosis: a structural modulator of sinoatrial node physiology and dysfunction. Frontiers in Physiology, 2015, 6, 37.	2.8	93
4	Adenosine-Induced Atrial Fibrillation. Circulation, 2016, 134, 486-498.	1.6	85
5	Redundant and diverse intranodal pacemakers and conduction pathways protect the human sinoatrial node from failure. Science Translational Medicine, 2017, 9, .	12.4	76
6	Upregulation of Adenosine A1 Receptors Facilitates Sinoatrial Node Dysfunction in Chronic Canine Heart Failure by Exacerbating Nodal Conduction Abnormalities Revealed by Novel Dual-Sided Intramural Optical Mapping. Circulation, 2014, 130, 315-324.	1.6	70
7	Graded Maximal Exercise Testing to Assess Mouse Cardio-Metabolic Phenotypes. PLoS ONE, 2016, 11, e0148010.	2.5	58
8	Expression of SERCA isoform with faster Ca²⁺ transport properties improves postischemic cardiac function and Ca²⁺ handling and decreases myocardial infarction. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H2418-H2428.	3.2	55
9	Is reduced SERCA2a expression detrimental or beneficial to postischemic cardiac function and injury? Evidence from heterozygous SERCA2a knockout mice. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H1426-H1434.	3.2	55
10	A mutation in calsequestrin, CASQ2D307H, impairs Sarcoplasmic Reticulum Ca2+ handling and causes complex ventricular arrhythmias in mice. Cardiovascular Research, 2007, 75, 69-78.	3.8	52
11	Human Atrial Fibrillation Drivers ResolvedÂWith Integrated Functional andÂStructural Imaging to Benefit ClinicalÂMapping. JACC: Clinical Electrophysiology, 2018, 4, 1501-1515.	3.2	51
12	Impaired neuronal sodium channels cause intranodal conduction failure and reentrant arrhythmias in human sinoatrial node. Nature Communications, 2020, 11, 512.	12.8	39
13	Up-regulation of sarcoplasmic reticulum Ca2+ uptake leads to cardiac hypertrophy, contractile dysfunction and early mortality in mice deficient in CASQ2. Cardiovascular Research, 2013, 98, 297-306.	3.8	37
14	The Calsequestrin Mutation CASQ2D307H Does Not Affect Protein Stability and Targeting to the Junctional Sarcoplasmic Reticulum but Compromises Its Dynamic Regulation of Calcium Buffering. Journal of Biological Chemistry, 2010, 285, 3076-3083.	3.4	26
15	Sarcoplasmic reticulum Ca2+ ATPase pump is a major regulator of glucose transport in the healthy and diabetic heart. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 873-881.	3.8	24
16	Alternating membrane potential/calcium interplay underlies repetitive focal activity in a genetic model of calciumâ€dependent atrial arrhythmias. Journal of Physiology, 2015, 593, 1443-1458.	2.9	24
17	Fibroblast-Specific Proteotranscriptomes Reveal Distinct Fibrotic Signatures of Human Sinoatrial Node in Nonfailing and Failing Hearts. Circulation, 2021, 144, 126-143.	1.6	22
18	Reduced SERCA2a converts sub-lethal myocardial injury to infarction and affects postischemic functional recovery. Journal of Molecular and Cellular Cardiology, 2009, 46, 285-287.	1.9	19

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19	Î²IV-Spectrin/STAT3 complex regulates fibroblast phenotype, fibrosis, and cardiac function. JCI Insight, 2019, 4, .	5.0	19
20	Physical activity prevents acute inflammation in a gout model by downregulation of TLR2 on circulating neutrophils as well as inhibition of serum CXCL1 and is associated with decreased pain and inflammation in gout patients. PLoS ONE, 2020, 15, e0237520.	2.5	19
21	Unmasking Arrhythmogenic Hubs of Reentry Driving Persistent Atrial Fibrillation for Patientâ€Specific Treatment. Journal of the American Heart Association, 2020, 9, e017789.	3.7	18
22	Functional consequences of stably expressing a mutant calsequestrin (CASQ2D307H) in the CASQ2 null background. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H253-H261.	3.2	12
23	Altered microRNA and mRNA profiles during heart failure in the human sinoatrial node. Scientific Reports, 2021, 11, 19328.	3.3	12
24	Detrimental effects of thyroid hormone analog DITPA in the mouse heart: increased mortality with in vivo acute myocardial ischemia-reperfusion. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H702-H711.	3.2	11
25	Comprehensive evaluation of electrophysiological and 3D structural features of human atrial myocardium with insights on atrial fibrillation maintenance mechanisms. Journal of Molecular and Cellular Cardiology, 2021, 151, 56-71.	1.9	11
26	Leptin Production by Encapsulated Adipocytes Increases Brown Fat, Decreases Resistin, and Improves Glucose Intolerance in Obese Mice. PLoS ONE, 2016, 11, e0153198.	2.5	11
27	Accentuated vagal antagonism paradoxically increases ryanodine receptor calcium leak in long-term exercised Calsequestrin2 knockout mice. Heart Rhythm, 2018, 15, 430-441.	0.7	5
28	Fibroblast Growth Factor 23. Circulation, 2014, 130, 295-297.	1.6	3
29	KATP vs Purkinje fibers: Which should we shoot first, or should we?. Heart Rhythm, 2013, 10, 1718-1719.	0.7	0
30	Lights on! Can visual light help distinguish fibrotic scars from ablation lesions?. Heart Rhythm, 2018, 15, 576-577.	0.7	0
31	Glutathiolation and Nitration of Sarcoplasmic Reticulum Ca ²⁺ â€ATPase (SERCA) in hearts overexpressing SERCA1aâ€pump. FASEB Journal, 2007, 21, A535.	0.5	0
32	Abstract 17874: Aerobic Exercise Training Improves Exercise Capacity, Reduces Arrhythmia Susceptibility but Does Not Normalize Ryanodine Receptor Mediated Aberrant Calcium Release in Catecholaminergic Polymorphic Ventricular Tachycardia. Circulation, 2015, 132, .	1.6	0
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35	Title is missing!. , 2020, 15, e0237520.		0
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