

# Scot J Matkovich

## List of Publications by Citations

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77  
papers

4,610  
citations

37  
h-index

67  
g-index

86  
ext. papers

5,287  
ext. citations

9.8  
avg, IF

5.32  
L-index

#	Paper	IF	Citations
77	MiR-15 family regulates postnatal mitotic arrest of cardiomyocytes. <i>Circulation Research</i> , <b>2011</b> , 109, 670-9	15.7	335
76	MicroRNA-133a protects against myocardial fibrosis and modulates electrical repolarization without affecting hypertrophy in pressure-overloaded adult hearts. <i>Circulation Research</i> , <b>2010</b> , 106, 166-75	15.7	312
75	Reciprocal regulation of myocardial microRNAs and messenger RNA in human cardiomyopathy and reversal of the microRNA signature by biomechanical support. <i>Circulation</i> , <b>2009</b> , 119, 1263-71	16.7	258
74	A GRK5 polymorphism that inhibits beta-adrenergic receptor signaling is protective in heart failure. <i>Nature Medicine</i> , <b>2008</b> , 14, 510-7	50.5	250
73	Parkin-mediated mitophagy directs perinatal cardiac metabolic maturation in mice. <i>Science</i> , <b>2015</b> , 350, aad2459	33.3	246
72	G protein-coupled receptor kinase 2 ablation in cardiac myocytes before or after myocardial infarction prevents heart failure. <i>Circulation Research</i> , <b>2008</b> , 103, 413-22	15.7	186
71	Cardiac miR-133a overexpression prevents early cardiac fibrosis in diabetes. <i>Journal of Cellular and Molecular Medicine</i> , <b>2014</b> , 18, 415-21	5.6	137
70	Cardiac-specific ablation of G-protein receptor kinase 2 redefines its roles in heart development and beta-adrenergic signaling. <i>Circulation Research</i> , <b>2006</b> , 99, 996-1003	15.7	132
69	Interdependence of Parkin-Mediated Mitophagy and Mitochondrial Fission in Adult Mouse Hearts. <i>Circulation Research</i> , <b>2015</b> , 117, 346-51	15.7	129
68	Nix-mediated apoptosis links myocardial fibrosis, cardiac remodeling, and hypertrophy decompensation. <i>Circulation</i> , <b>2008</b> , 117, 396-404	16.7	127
67	Protein kinase A and two phosphatases are components of the inositol 1,4,5-trisphosphate receptor macromolecular signaling complex. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 39397-400	5.4	110
66	Dual autonomous mitochondrial cell death pathways are activated by Nix/Bnip3L and induce cardiomyopathy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 9035-42	11.5	107
65	Direct and indirect involvement of microRNA-499 in clinical and experimental cardiomyopathy. <i>Circulation Research</i> , <b>2012</b> , 111, 521-31	15.7	105
64	Epigenetic coordination of embryonic heart transcription by dynamically regulated long noncoding RNAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 12264-9	11.5	104
63	Endoplasmic reticulum-mitochondria crosstalk in NIX-mediated murine cell death. <i>Journal of Clinical Investigation</i> , <b>2009</b> , 119, 203-12	15.9	104
62	Common variants in HSPB7 and FRMD4B associated with advanced heart failure. <i>Circulation: Cardiovascular Genetics</i> , <b>2010</b> , 3, 147-54		103
61	Cardiomyocytes structure, function and associated pathologies. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2005</b> , 37, 1746-51	5.6	101

60	MARF and Opa1 control mitochondrial and cardiac function in Drosophila. <i>Circulation Research</i> , <b>2011</b> , 108, 12-7	15.7	89
59	RISC RNA sequencing for context-specific identification of in vivo microRNA targets. <i>Circulation Research</i> , <b>2011</b> , 108, 18-26	15.7	87
58	Loss-of-function DNA sequence variant in the CLCNKA chloride channel implicates the cardio-renal axis in interindividual heart failure risk variation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 2456-61	11.5	78
57	Regulation of cardiac microRNAs by cardiac microRNAs. <i>Circulation Research</i> , <b>2013</b> , 113, 62-71	15.7	74
56	A human 3RmiR-499 mutation alters cardiac mRNA targeting and function. <i>Circulation Research</i> , <b>2012</b> , 110, 958-67	15.7	70
55	Postnatal $\beta$ cell maturation is associated with islet-specific microRNA changes induced by nutrient shifts at weaning. <i>Nature Communications</i> , <b>2015</b> , 6, 8084	17.4	68
54	RhoA protects the mouse heart against ischemia/reperfusion injury. <i>Journal of Clinical Investigation</i> , <b>2011</b> , 121, 3269-76	15.9	67
53	Deep mRNA sequencing for in vivo functional analysis of cardiac transcriptional regulators: application to Galphaq. <i>Circulation Research</i> , <b>2010</b> , 106, 1459-67	15.7	66
52	Ca <sup>2+</sup> sparks and waves in canine purkinje cells: a triple layered system of Ca <sup>2+</sup> activation. <i>Circulation Research</i> , <b>2005</b> , 97, 35-43	15.7	65
51	Regulation of the type 1 inositol 1,4,5-trisphosphate receptor by phosphorylation at tyrosine 353. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 16311-6	5.4	56
50	Cardiac signaling genes exhibit unexpected sequence diversity in sporadic cardiomyopathy, revealing HSPB7 polymorphisms associated with disease. <i>Journal of Clinical Investigation</i> , <b>2010</b> , 120, 280-9	15.9	52
49	MicroRNA-155 tunes both the threshold and extent of NK cell activation via targeting of multiple signaling pathways. <i>Journal of Immunology</i> , <b>2013</b> , 191, 5904-13	5.3	47
48	Epitranscriptional orchestration of genetic reprogramming is an emergent property of stress-regulated cardiac microRNAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 19864-9	11.5	45
47	Widespread Down-Regulation of Cardiac Mitochondrial and Sarcomeric Genes in Patients With Sepsis. <i>Critical Care Medicine</i> , <b>2017</b> , 45, 407-414	1.4	43
46	Cytosolic accumulation of small nucleolar RNAs (snoRNAs) is dynamically regulated by NADPH oxidase. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 11741-8	5.4	43
45	Modulation of subsets of cardiac B lymphocytes improves cardiac function after acute injury. <i>JCI Insight</i> , <b>2018</b> , 3,	9.9	39
44	Genomic Reorganization of Lamin-Associated Domains in Cardiac Myocytes Is Associated With Differential Gene Expression and DNA Methylation in Human Dilated Cardiomyopathy. <i>Circulation Research</i> , <b>2019</b> , 124, 1198-1213	15.7	37
43	Receptor-independent cardiac protein kinase Calpha activation by calpain-mediated truncation of regulatory domains. <i>Circulation Research</i> , <b>2010</b> , 107, 903-12	15.7	37

42	Nuclear effects of G-protein receptor kinase 5 on histone deacetylase 5-regulated gene transcription in heart failure. <i>Circulation: Heart Failure</i> , <b>2011</b> , 4, 659-68	7.6	37
41	Put your chips on transcriptomics. <i>Circulation</i> , <b>2008</b> , 118, 216-8	16.7	37
40	Ins(1,4,5)P3 receptors and inositol phosphates in the heart-evolutionary artefacts or active signal transducers? <b>2005</b> , 107, 240-51		37
39	Evidence for selective coupling of alpha 1-adrenergic receptors to phospholipase C-beta 1 in rat neonatal cardiomyocytes. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 37341-6	5.4	37
38	Mitochondrial reprogramming induced by CaMKII $\beta$ mediates hypertrophy decompensation. <i>Circulation Research</i> , <b>2015</b> , 116, e28-39	15.7	36
37	Receptor-independent protein kinase C alpha (PKC $\alpha$ ) signaling by calpain-generated free catalytic domains induces HDAC5 nuclear export and regulates cardiac transcription. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 26943-51	5.4	34
36	Cardiovascular consequences of KATP overactivity in Cantu syndrome. <i>JCI Insight</i> , <b>2018</b> , 3,	9.9	32
35	A novel strategy to increase the proliferative potential of adult human $\beta$ cells while maintaining their differentiated phenotype. <i>PLoS ONE</i> , <b>2013</b> , 8, e66131	3.7	28
34	Inositol polyphosphate 1-phosphatase is a novel antihypertrophic factor. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 22734-42	5.4	28
33	Load-Dependent Changes in Left Ventricular Structure and Function in a Pathophysiologically Relevant Murine Model of Reversible Heart Failure. <i>Circulation: Heart Failure</i> , <b>2018</b> , 11, e004351	7.6	23
32	Ins(1,4,5)P3 and cardiac dysfunction. <i>Cardiovascular Research</i> , <b>1998</b> , 40, 251-6	9.9	23
31	Inositol 1,4,5-trisphosphate and reperfusion arrhythmias. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2000</b> , 27, 734-7	3	22
30	Loss of lipin 1-mediated phosphatidic acid phosphohydrolase activity in muscle leads to skeletal myopathy in mice. <i>FASEB Journal</i> , <b>2019</b> , 33, 652-667	0.9	19
29	Combined cardiomyocyte PKC $\delta$ and PKC $\zeta$ gene deletion uncovers their central role in restraining developmental and reactive heart growth. <i>Science Signaling</i> , <b>2015</b> , 8, ra39	8.8	18
28	Regional Differences in mRNA and lncRNA Expression Profiles in Non-Failing Human Atria and Ventricles. <i>Scientific Reports</i> , <b>2018</b> , 8, 13919	4.9	18
27	A functional polymorphism of the Galphaq (GNAQ) gene is associated with accelerated mortality in African-American heart failure. <i>Human Molecular Genetics</i> , <b>2007</b> , 16, 2740-50	5.6	17
26	Changes of Ovarian microRNA Profile in Long-Living Ames Dwarf Mice during Aging. <i>PLoS ONE</i> , <b>2017</b> , 12, e0169213	3.7	17
25	Ovarian transcriptome associated with reproductive senescence in the long-living Ames dwarf mice. <i>Molecular and Cellular Endocrinology</i> , <b>2017</b> , 439, 328-336	4.4	16

24	Mitochondrial genome linearization is a causative factor for cardiomyopathy in mice and <i>Drosophila</i> . <i>Antioxidants and Redox Signaling</i> , <b>2014</b> , 21, 1949-59	8.4	16
23	Ca(2+)-activated but not G protein-mediated inositol phosphate responses in rat neonatal cardiomyocytes involve inositol 1,4, 5-trisphosphate generation. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 10845-50	5.4	15
22	TFEB activation in macrophages attenuates postmyocardial infarction ventricular dysfunction independently of ATG5-mediated autophagy. <i>JCI Insight</i> , <b>2019</b> , 4,	9.9	15
21	Nuclear export factor 3 regulates localization of small nucleolar RNAs. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 20228-20239	5.4	13
20	Deep sequencing of cardiac microRNA-mRNA interactomes in clinical and experimental cardiomyopathy. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1299, 27-49	1.4	13
19	Simple nutrients bypass the requirement for HLH-30 in coupling lysosomal nutrient sensing to survival. <i>PLoS Biology</i> , <b>2019</b> , 17, e3000245	9.7	12
18	Epitranscriptional regulation of cardiovascular development and disease. <i>Journal of Physiology</i> , <b>2015</b> , 593, 1799-808	3.9	12
17	BET bromodomain inhibition attenuates cardiac phenotype in myocyte-specific lamin A/C-deficient mice. <i>Journal of Clinical Investigation</i> , <b>2020</b> , 130, 4740-4758	15.9	12
16	Common miR-590 Variant rs6971711 Present Only in African Americans Reduces miR-590 Biogenesis. <i>PLoS ONE</i> , <b>2016</b> , 11, e0156065	3.7	12
15	Immunomodulatory role of non-neuronal cholinergic signaling in myocardial injury. <i>JCI Insight</i> , <b>2019</b> , 5,	9.9	10
14	A nucleus-targeted alternately spliced Nix/Bnip3L protein isoform modifies nuclear factor <b>B</b> (NF $\kappa$ B)-mediated cardiac transcription. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 15455-65	5.4	9
13	TNF receptor-activated factor 2 mediates cardiac protection through noncanonical NF- $\kappa$ B signaling. <i>JCI Insight</i> , <b>2018</b> , 3,	9.9	9
12	The Mechanism of High-Output Cardiac Hypertrophy Arising From Potassium Channel Gain-of-Function in Cantu Syndrome. <i>Function</i> , <b>2020</b> , 1, zqaa004	6.1	9
11	Transcriptome analysis in heart failure. <i>Current Opinion in Cardiology</i> , <b>2016</b> , 31, 242-8	2.1	9
10	MicroRNAs in the Stressed Heart: Sorting the Signal from the Noise. <i>Cells</i> , <b>2014</b> , 3, 778-801	7.9	7
9	Cardiac Disease Status Dictates Functional mRNA Targeting Profiles of Individual MicroRNAs. <i>Circulation: Cardiovascular Genetics</i> , <b>2015</b> , 8, 774-84		6
8	Transcriptomic and Functional Analyses of Mitochondrial Dysfunction in Pressure Overload-Induced Right Ventricular Failure. <i>Journal of the American Heart Association</i> , <b>2021</b> , 10, e017835	6	5
7	Association of an intronic, but not any exonic, FRMD4B sequence variant and heart failure. <i>Clinical and Translational Science</i> , <b>2010</b> , 3, 134-9	4.9	4

6	Multiomic approaches to delineate the pathogenesis of cardiac disease. <i>Current Opinion in Cardiology</i> , <b>2019</b> , 34, 246-253	2.1	4
5	G-protein receptor kinases 2, 5 and 6 redundantly modulate Smoothed-GATA transcriptional crosstalk in fetal mouse hearts. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2018</b> , 121, 60-68	5.8	4
4	Identification of Genes and Pathways Regulated by Lamin A in Heart. <i>Journal of the American Heart Association</i> , <b>2020</b> , 9, e015690	6	3
3	Chronic Contractile Dysfunction without Hypertrophy Does Not Provoke a Compensatory Transcriptional Response in Mouse Hearts. <i>PLoS ONE</i> , <b>2016</b> , 11, e0158317	3.7	2
2	When Knowing "Enough" May Still Not Be Enough. <i>Circulation Research</i> , <b>2018</b> , 123, 412-414	15.7	2
1	Statins Stimulate Hepatic Glucose Production via the miR-183/96/182 Cluster		1