# Scot J Matkovich

List of Publications by Year
in descending order



| 84 | 5,749 | 81743 39 | 76769 74 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 86 | 86 | 86 | 8383 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | miR-15 Family Regulates Postnatal Mitotic Arrest of Cardiomyocytes. Circulation Research, 2011, 109, 670-679. | 2.0 | 406 |
| 2 | MicroRNA-133a Protects Against Myocardial Fibrosis and Modulates Electrical Repolarization Without Affecting Hypertrophy in Pressure-Overloaded Adult Hearts. Circulation Research, 2010, 106, 166-175. | 2.0 | 347 |
| 3 | Parkin-mediated mitophagy directs perinatal cardiac metabolic maturation in mice. Science, 2015, 350, aad2459. | 6.0 | 342 |
| 4 | A GRK5 polymorphism that inhibits Î²-adrenergic receptor signaling is protective in heart failure. Nature Medicine, 2008, 14, 510-517. | 15.2 | 297 |
| 5 | Reciprocal Regulation of Myocardial microRNAs and Messenger RNA in Human Cardiomyopathy and Reversal of the microRNA Signature by Biomechanical Support. Circulation, 2009, 119, 1263-1271. | 1.6 | 292 |
| 6 | G Proteinâ€“Coupled Receptor Kinase 2 Ablation in Cardiac Myocytes Before or After Myocardial Infarction Prevents Heart Failure. Circulation Research, 2008, 103, 413-422. | 2.0 | 210 |
| 7 | Interdependence of Parkin-Mediated Mitophagy and Mitochondrial Fission in Adult Mouse Hearts. Circulation Research, 2015, 117, 346-351. | 2.0 | 172 |
| 8 | Cardiac miRâ€133a overexpression prevents early cardiac fibrosis in diabetes. Journal of Cellular and Molecular Medicine, 2014, 18, 415-421. | 1.6 | 167 |
| 9 | Cardiac-Specific Ablation of G-Protein Receptor Kinase 2 Redefines Its Roles in Heart Development and Î²-Adrenergic Signaling. Circulation Research, 2006, 99, 996-1003. | 2.0 | 152 |
| 10 | Nix-Mediated Apoptosis Links Myocardial Fibrosis, Cardiac Remodeling, and Hypertrophy Decompensation. Circulation, 2008, 117, 396-404. | 1.6 | 147 |
| 11 | Direct and Indirect Involvement of MicroRNA-499 in Clinical and Experimental Cardiomyopathy. Circulation Research, 2012, 111, 521-531. | 2.0 | 133 |
| 12 | Cardiomyocytes structure, function and associated pathologies. International Journal of Biochemistry and Cell Biology, 2005, 37, 1746-1751. | 1.2 | 132 |
| 13 | Epigenetic coordination of embryonic heart transcription by dynamically regulated long noncoding RNAs. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12264-12269. | 3.3 | 128 |
| 14 | MARF and Opa1 Control Mitochondrial and Cardiac Function in Drosophila. Circulation Research, 2011, 108, 12-17. | 2.0 | 124 |
| 15 | Dual autonomous mitochondrial cell death pathways are activated by Nix/BNip3L and induce cardiomyopathy. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9035-9042. | 3.3 | 122 |
| 16 | Protein Kinase A and Two Phosphatases Are Components of the Inositol 1,4,5-Trisphosphate Receptor Macromolecular Signaling Complex. Journal of Biological Chemistry, 2002, 277, 39397-39400. | 1.6 | 121 |
| 17 | Common Variants in HSPB7 and FRMD4B Associated With Advanced Heart Failure. Circulation: Cardiovascular Genetics, 2010, 3, 147-154. | 5.1 | 119 |
| 18 | Endoplasmic reticulumâ€“mitochondria crosstalk in NIX-mediated murine cell death. Journal of Clinical Investigation, 2009, 119, 203-12. | 3.9 | 115 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | RISC RNA Sequencing for Context-Specific Identification of In Vivo MicroRNA Targets. Circulation Research, 2011, 108, 18-26. | 2.0 | 99 |
| 20 | Loss-of-function DNA sequence variant in the CLCNKA chloride channel implicates the cardio-renal axis in interindividual heart failure risk variation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2456-2461. | 3.3 | 95 |
| 21 | Regulation of Cardiac MicroRNAs by Cardiac MicroRNAs. Circulation Research, 2013, 113, 62-71. | 2.0 | 94 |
| 22 | Postnatal Î²-cell maturation is associated with islet-specific microRNA changes induced by nutrient shifts at weaning. Nature Communications, 2015, 6, 8084. | 5.8 | 89 |
| 23 | RhoA protects the mouse heart against ischemia/reperfusion injury. Journal of Clinical Investigation, 2011, 121, 3269-3276. | 3.9 | 83 |
| 24 | A Human 3â€² miR-499 Mutation Alters Cardiac mRNA Targeting and Function. Circulation Research, 2012, 110, 958-967. | 2.0 | 83 |
| 25 | Deep mRNA Sequencing for In Vivo Functional Analysis of Cardiac Transcriptional Regulators. Circulation Research, 2010, 106, 1459-1467. | 2.0 | 76 |
| 26 | Widespread Down-Regulation of Cardiac Mitochondrial and Sarcomeric Genes in Patients With Sepsis*. Critical Care Medicine, 2017, 45, 407-414. | 0.4 | 76 |
| 27 | Genomic Reorganization of Lamin-Associated Domains in Cardiac Myocytes Is Associated With Differential Gene Expression and DNA Methylation in Human Dilated Cardiomyopathy. Circulation Research, 2019, 124, 1198-1213. | 2.0 | 72 |
| 28 | Ca 2+ Sparks and Waves in Canine Purkinje Cells. Circulation Research, 2005, 97, 35-43. | 2.0 | 71 |
| 29 | Cytosolic Accumulation of Small Nucleolar RNAs (snoRNAs) Is Dynamically Regulated by NADPH Oxidase. Journal of Biological Chemistry, 2015, 290, 11741-11748. | 1.6 | 70 |
| 30 | Cardiac signaling genes exhibit unexpected sequence diversity in sporadic cardiomyopathy, revealing HSPB7 polymorphisms associated with disease. Journal of Clinical Investigation, 2010, 120, 280-289. | 3.9 | 64 |
| 31 | Modulation of subsets of cardiac B lymphocytes improves cardiac function after acute injury. JCI Insight, 2018, 3, . | 2.3 | 63 |
| 32 | Regulation of the Type 1 Inositol 1,4,5-Trisphosphate Receptor by Phosphorylation at Tyrosine 353. Journal of Biological Chemistry, 2004, 279, 16311-16316. | 1.6 | 61 |
| 33 | Epitranscriptional orchestration of genetic reprogramming is an emergent property of stress-regulated cardiac microRNAs. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19864-19869. | 3.3 | 57 |
| 34 | MicroRNA-155 Tunes Both the Threshold and Extent of NK Cell Activation via Targeting of Multiple Signaling Pathways. Journal of Immunology, 2013, 191, 5904-5913. | 0.4 | 51 |
| 35 | Evidence for Selective Coupling of Î±1-Adrenergic Receptors to Phospholipase C-Î²1 in Rat Neonatal Cardiomyocytes. Journal of Biological Chemistry, 2001, 276, 37341-37346. | 1.6 | 50 |
| 36 | Nuclear Effects of G-Protein Receptor Kinase 5 on Histone Deacetylase 5â€“Regulated Gene Transcription in Heart Failure. Circulation: Heart Failure, 2011, 4, 659-668. | 1.6 | 48 |

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|---|---|---|---|
| 37 | Mitochondrial Reprogramming Induced by CaMKIIÎ´ Mediates Hypertrophy Decompensation. Circulation Research, 2015, 116, e28-39. | 2.0 | 47 |
| 38 | Receptor-Independent Cardiac Protein Kinase CÎ± Activation by Calpain-Mediated Truncation of Regulatory Domains. Circulation Research, 2010, 107, 903-912. | 2.0 | 45 |
| 39 | Cardiovascular consequences of KATP overactivity in Cantu syndrome. JCI Insight, 2018, 3, . | 2.3 | 44 |
| 40 | BET bromodomain inhibition attenuates cardiac phenotype in myocyte-specific lamin A/Câ€“deficient mice. Journal of Clinical Investigation, 2020, 130, 4740-4758. | 3.9 | 42 |
| 41 | Put Your Chips on Transcriptomics. Circulation, 2008, 118, 216-218. | 1.6 | 41 |
| 42 | Ins(1,4,5)P3 receptors and inositol phosphates in the heartâ€”evolutionary artefacts or active signal transducers?. , 2005, 107, 240-251. | | 39 |
| 43 | TFEB activation in macrophages attenuates postmyocardial infarction ventricular dysfunction independently of ATG5-mediated autophagy. JCI Insight, 2019, 4, . | 2.3 | 39 |
| 44 | Receptor-independent Protein Kinase CÎ± (PKCÎ±) Signaling by Calpain-generated Free Catalytic Domains Induces HDAC5 Nuclear Export and Regulates Cardiac Transcription. Journal of Biological Chemistry, 2011, 286, 26943-26951. | 1.6 | 38 |
| 45 | Load-Dependent Changes in Left Ventricular Structure and Function in a Pathophysiologically Relevant Murine Model of Reversible Heart Failure. Circulation: Heart Failure, 2018, 11, e004351. | 1.6 | 37 |
| 46 | Inositol Polyphosphate 1-Phosphatase Is a Novel Antihypertrophic Factor. Journal of Biological Chemistry, 2002, 277, 22734-22742. | 1.6 | 33 |
| 47 | A Novel Strategy to Increase the Proliferative Potential of Adult Human Î²-Cells While Maintaining Their Differentiated Phenotype. PLoS ONE, 2013, 8, e66131. | 1.1 | 32 |
| 48 | Regional Differences in mRNA and lncRNA Expression Profiles in Non-Failing Human Atria and Ventricles. Scientific Reports, 2018, 8, 13919. | 1.6 | 30 |
| 49 | Loss of lipin 1â€mediated phosphatidic acid phosphohydrolase activity in muscle leads to skeletal myopathy in mice. FASEB Journal, 2019, 33, 652-667. | 0.2 | 30 |
| 50 | Ins(1,4,5)P3 and cardiac dysfunction. Cardiovascular Research, 1998, 40, 251-256. | 1.8 | 26 |
| 51 | Combined cardiomyocyte PKCÎ´ and PKCÎµ gene deletion uncovers their central role in restraining developmental and reactive heart growth. Science Signaling, 2015, 8, ra39. | 1.6 | 24 |
| 52 | Ovarian transcriptome associated with reproductive senescence in the long-living Ames dwarf mice. Molecular and Cellular Endocrinology, 2017, 439, 328-336. | 1.6 | 24 |
| 53 | Changes of Ovarian microRNA Profile in Long-Living Ames Dwarf Mice during Aging. PLoS ONE, 2017, 12, e0169213. | 1.1 | 23 |
| 54 | Inositol 1,4,5-Trisphosphate And Reperfusion Arrhythmias. Clinical and Experimental Pharmacology and Physiology, 2000, 27, 734-737. | 0.9 | 22 |

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|---|---|---|---|
| 55 | MÃ©nage Ã Trois. Circulation Research, 2014, 114, 1362-1365. | 2.0 | 22 |
| 56 | A functional polymorphism of the GÂq (GNAQ) gene is associated with accelerated mortality in African-American heart failure. Human Molecular Genetics, 2007, 16, 2740-2750. | 1.4 | 21 |
| 57 | Mitochondrial Genome Linearization Is a Causative Factor for Cardiomyopathy in Mice and Drosophila. Antioxidants and Redox Signaling, 2014, 21, 1949-1959. | 2.5 | 20 |
| 58 | Nuclear export factor 3 regulates localization of small nucleolar RNAs. Journal of Biological Chemistry, 2017, 292, 20228-20239. | 1.6 | 19 |
| 59 | Immunomodulatory role of nonneuronal cholinergic signaling in myocardial injury. JCI Insight, 2019, 4, . | 2.3 | 19 |
| 60 | Ca2+-activated but Not G Protein-mediated Inositol Phosphate Responses in Rat Neonatal Cardiomyocytes Involve Inositol 1,4,5-Trisphosphate Generation. Journal of Biological Chemistry, 2000, 275, 10845-10850. | 1.6 | 18 |
| 61 | The Mechanism of High-Output Cardiac Hypertrophy Arising From Potassium Channel Gain-of-Function in CantÃº Syndrome. Function, 2020, 1, zqaa004. | 1.1 | 18 |
| 62 | TNF receptorâ€“activated factor 2 mediates cardiac protection through noncanonical NF-ÎºB signaling. JCI Insight, 2018, 3, . | 2.3 | 18 |
| 63 | Simple nutrients bypass the requirement for HLH-30 in coupling lysosomal nutrient sensing to survival. PLoS Biology, 2019, 17, e3000245. | 2.6 | 17 |
| 64 | Epitranscriptional regulation of cardiovascular development and disease. Journal of Physiology, 2015, 593, 1799-1808. | 1.3 | 15 |
| 65 | Deep Sequencing of Cardiac MicroRNA-mRNA Interactomes in Clinical and Experimental Cardiomyopathy. Methods in Molecular Biology, 2015, 1299, 27-49. | 0.4 | 15 |
| 66 | A Nucleus-targeted Alternately Spliced Nix/Bnip3L Protein Isoform Modifies Nuclear Factor ÎºB (NFÎºB)-mediated Cardiac Transcription. Journal of Biological Chemistry, 2013, 288, 15455-15465. | 1.6 | 14 |
| 67 | Common miR-590 Variant rs6971711 Present Only in African Americans Reduces miR-590 Biogenesis. PLoS ONE, 2016, 11, e0156065. | 1.1 | 12 |
| 68 | Transcriptomic and Functional Analyses of Mitochondrial Dysfunction in Pressure Overloadâ€Induced Right Ventricular Failure. Journal of the American Heart Association, 2021, 10, e017835. | 1.6 | 12 |
| 69 | Transcriptome analysis in heart failure. Current Opinion in Cardiology, 2016, 31, 242-248. | 0.8 | 11 |
| 70 | Identification of Genes and Pathways Regulated by Lamin A in Heart. Journal of the American Heart Association, 2020, 9, e015690. | 1.6 | 9 |
| 71 | Cardiac Disease Status Dictates Functional mRNA Targeting Profiles of Individual MicroRNAs. Circulation: Cardiovascular Genetics, 2015, 8, 774-784. | 5.1 | 8 |
| 72 | <scp>Articles</scp>: Association of An Intronic, but Not Any Exonic, FRMD4B Sequence Variant and Heart Failure. Clinical and Translational Science, 2010, 3, 134-139. | 1.5 | 7 |

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|---|---|---|---|
| 73 | MicroRNAs in the Stressed Heart: Sorting the Signal from the Noise. Cells, 2014, 3, 778-801. | 1.8 | 7 |
| 74 | G-protein receptor kinases 2, 5 and 6 redundantly modulate Smoothened-GATA transcriptional crosstalk in fetal mouse hearts. Journal of Molecular and Cellular Cardiology, 2018, 121, 60-68. | 0.9 | 7 |
| 75 | Multiomic approaches to delineate the pathogenesis of cardiac disease. Current Opinion in Cardiology, 2019, 34, 246-253. | 0.8 | 5 |
| 76 | When Knowing â€œEnoughâ€•May Still Not Be Enough. Circulation Research, 2018, 123, 412-414. | 2.0 | 4 |
| 77 | Chronic Contractile Dysfunction without Hypertrophy Does Not Provoke a Compensatory Transcriptional Response in Mouse Hearts. PLoS ONE, 2016, 11, e0158317. | 1.1 | 3 |
| 78 | Feed My Heart or Eat It. Journal of the American College of Cardiology, 2016, 68, 1572-1574. | 1.2 | 1 |
| 79 | A balancing act in cardiac hypertrophy. Cardiovascular Research, 2016, 111, 8-9. | 1.8 | 1 |
| 80 | G-Protein Receptor Kinase-5 Polymorphism Influences Therapeutic Efficacy of Î²-Blockers in Heart Failure. Journal of Cardiac Failure, 2006, 12, S39. | 0.7 | 0 |
| 81 | Reversibility of Signature miRNA Dysregulation in Failing Human Hearts by Mechanical Unloading. Journal of Cardiac Failure, 2008, 14, S40. | 0.7 | 0 |
| 82 | Genetic Diversity and Novel SNP Discovery in Signaling Genes Revealed by Pooled Sequencing of Cardiomyopathy DNAs. Journal of Cardiac Failure, 2009, 15, S40. | 0.7 | 0 |
| 83 | Of Caps and Gaps, Postnatal Hearts, Elusive Facts, and lncs. Circulation: Cardiovascular Genetics, 2016, 9, 389-391. | 5.1 | 0 |
| 84 | Abstract 793: Macrophage Transcription Factor EB Attenuates Left Ventricular Remodeling Via Lysosomal Lipolysis. Circulation Research, 2019, 125, . | 2.0 | 0 |