Mathias Mericskay

List of Publications by Citations

53 papers	3,507 citations	29 h-index	58 g-index
58 ext. papers	3,960 ext. citations	6.8 avg, IF	4.71 L-index

#	Paper	IF	Citations
53	Notch3 is required for arterial identity and maturation of vascular smooth muscle cells. *Genes and Development*, **2004**, 18, 2730-5	12.6	378
52	SDF-1alpha/CXCR4 axis is instrumental in neointimal hyperplasia and recruitment of smooth muscle progenitor cells. *Circulation Research*, **2005**, 96, 784-91	15.7	314
51	Desmin is essential for the tensile strength and integrity of myofibrils but not for myogenic commitment, differentiation, and fusion of skeletal muscle. *Journal of Cell Biology*, **1997**, 139, 129-44	7.3	286
50	Cardiovascular lesions and skeletal myopathy in mice lacking desmin. *Developmental Biology*, **1996**, 175, 362-6	3.1	283
49	Wnt5a is required for proper epithelial-mesenchymal interactions in the uterus. *Development (Cambridge)*, **2004**, 131, 2061-72	6.6	189
48	A crucial role for Pax3 in the development of the hypaxial musculature and the long-range migration of muscle precursors. *Developmental Biology*, **1998**, 203, 49-61	3.1	178
47	Null mutation in the desmin gene gives rise to a cardiomyopathy. *Journal of Molecular and Cellular Cardiology*, **1997**, 29, 2107-24	5.8	165
46	N-terminal stretch Arg2, Arg3, Arg4 and Arg5 of human lactoferrin is essential for binding to heparin, bacterial lipopolysaccharide, human lysozyme and DNA. *Biochemical Journal*, **1997**, 328 (Pt 1), 145-51	3.8	150
45	Temporally controlled onset of dilated cardiomyopathy through disruption of the SRF gene in adult heart. *Circulation*, **2005**, 112, 2930-9	16.7	137
44	Nicotinamide Riboside Preserves Cardiac Function in a Mouse Model of Dilated Cardiomyopathy. *Circulation*, **2018**, 137, 2256-2273	16.7	132
43	Mitochondria: a central target for sex differences in pathologies. *Clinical Science*, **2017**, 131, 803-822	6.5	128
42	Aerobic Exercise and Pharmacological Treatments Counteract Cachexia by Modulating Autophagy in Colon Cancer. *Scientific Reports*, **2016**, 6, 26991	4.9	107
41	Study of regulation of mitochondrial respiration in vivo. An analysis of influence of ADP diffusion and possible role of cytoskeleton. *Biochimica Et Biophysica Acta - Bioenergetics*, **1997**, 1322, 41-59	4.6	103
40	CTIP2 is a negative regulator of P-TEFb. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 12655-60	11.5	66
39	Serum response factor is required for sprouting angiogenesis and vascular integrity. *Developmental Cell*, **2008**, 15, 448-461	10.2	65
38	The receptor tyrosine kinase regulator Sprouty1 is a target of the tumor suppressor WT1 and important for kidney development. *Journal of Biological Chemistry*, **2003**, 278, 41420-30	5.4	59
37	Hearts from mice lacking desmin have a myopathy with impaired active force generation and unaltered wall compliance. *Cardiovascular Research*, **2002**, 53, 439-50	9.9	56

36	Nicotinamide riboside, a form of vitamin B, protects against excitotoxicity-induced axonal degeneration. *FASEB Journal*, **2017**, 31, 5440-5452	0.9	52
35	Muscle creatine kinase deficiency triggers both actin depolymerization and desmin disorganization by advanced glycation end products in dilated cardiomyopathy. *Journal of Biological Chemistry*, **2011**, 286, 35007-19	5.4	49
34	The Oxygen Paradox, the French Paradox, and age-related diseases. *GeroScience*, **2017**, 39, 499-550	8.9	48
33	An overlapping CArG/octamer element is required for regulation of desmin gene transcription in arterial smooth muscle cells. *Developmental Biology*, **2000**, 226, 192-208	3.1	47
32	SRF selectively controls tip cell invasive behavior in angiogenesis. *Development (Cambridge)*, **2013**, 140, 2321-33	6.6	44
31	Nicotinamide adenine dinucleotide homeostasis and signalling in heart disease: Pathophysiological implications and therapeutic potential. *Archives of Cardiovascular Diseases*, **2016**, 109, 207-15	2.7	42
30	An SRF/miR-1 axis regulates NCX1 and annexin A5 protein levels in the normal and failing heart. *Cardiovascular Research*, **2013**, 98, 372-80	9.9	42
29	Inducible mouse model of chronic intestinal pseudo-obstruction by smooth muscle-specific inactivation of the SRF gene. *Gastroenterology*, **2007**, 133, 1960-70	13.3	37
28	Regulation of Connective Tissue Growth Factor and Cardiac Fibrosis by an SRF/MicroRNA-133a Axis. *PLoS ONE*, **2015**, 10, e0139858	3.7	35
27	Posttranslational modifications of desmin and their implication in biological processes and pathologies. *Histochemistry and Cell Biology*, **2014**, 141, 1-16	2.4	33
26	Inactivation of serum response factor contributes to decrease vascular muscular tone and arterial stiffness in mice. *Circulation Research*, **2013**, 112, 1035-45	15.7	33
25	Locally expressed IGF1 propeptide improves mouse heart function in induced dilated cardiomyopathy by blocking myocardial fibrosis and SRF-dependent CTGF induction. *DMM Disease Models and Mechanisms*, **2012**, 5, 481-91	4.1	31
24	Inducible Cardiac-Specific Deletion of Sirt1 in Male Mice Reveals Progressive Cardiac Dysfunction and Sensitization of the Heart to Pressure Overload. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	22
23	Proteome modulation in H9c2 cardiac cells by microRNAs miR-378 and miR-378. *Molecular and Cellular Proteomics*, **2014**, 13, 18-29	7.6	22
22	Rescue of biosynthesis of nicotinamide adenine dinucleotide protects the heart in cardiomyopathy caused by lamin A/C gene mutation. *Human Molecular Genetics*, **2018**, 27, 3870-3880	5.6	21
21	Efficacy of epicardially delivered adipose stroma cell sheets in dilated cardiomyopathy. *Cardiovascular Research*, **2013**, 99, 640-7	9.9	20
20	Diethylstilbestrol exposure in utero: a paradigm for mechanisms leading to adult disease. *Birth Defects Research Part A: Clinical and Molecular Teratology*, **2005**, 73, 133-5		20
19	The importance of intermediate filaments in the adaptation of tissues to mechanical stress: Evidence from gene knockout studies **1997**, 89, 85		19

18	Mosaic inactivation of the serum response factor gene in the myocardium induces focal lesions and heart failure. *European Journal of Heart Failure*, **2008**, 10, 635-45	12.3	15
17	Selective involvement of serum response factor in pressure-induced myogenic tone in resistance arteries. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, 339-46	9.4	11
16	Transplacental injection of somite-derived cells in mdx mouse embryos for the correction of dystrophin deficiency. *Human Molecular Genetics*, **2000**, 9, 1843-52	5.6	11
15	Aged Nicotinamide Riboside Kinase 2 Deficient Mice Present an Altered Response to Endurance Exercise Training. *Frontiers in Physiology*, **2018**, 9, 1290	4.6	11
14	Voluntary Exercise Improves Cardiac Function and Prevents Cardiac Remodeling in a Mouse Model of Dilated Cardiomyopathy. *Frontiers in Physiology*, **2017**, 8, 899	4.6	10
13	Nicotinamide adenine dinucleotide: Biosynthesis, consumption and therapeutic role in cardiac diseases. *Acta Physiologica*, **2021**, 231, e13551	5.6	8
12	Micro-RNAs as promising biomarkers in cardiac diseases. *Annals of Translational Medicine*, **2016**, 4, 551	3.2	6
11	Mechanical and molecular parameters that influence the tendon differentiation potential of C3H10T1/2 cells in 2D- and 3D-culture systems. *Biology Open*, **2020**, 9,	2.2	6
10	Blood NAD levels are reduced in very old patients hospitalized for heart failure. *Experimental Gerontology*, **2020**, 139, 111051	4.5	4
9	NMRK2 Gene Is Upregulated in Dilated Cardiomyopathy and Required for Cardiac Function and NAD Levels during Aging. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
8	Cardioprotective effects of □cardiac actin on oxidative stress in a dilated cardiomyopathy mouse model. *FASEB Journal*, **2020**, 34, 2987-3005	0.9	2
7	Metabolic Therapy of Heart Failure: Is There a Future for B Vitamins?. *International Journal of Molecular Sciences*, **2021**, 23,	6.3	2
6	SRF selectively controls tip cell invasive behavior in angiogenesis. *Journal of Cell Science*, **2013**, 126, e1-e1	5.3	1
5	Impacts of a high fat diet on the metabolic profile and the phenotype of atrial myocardium in mice.. *Cardiovascular Research*, **2021**,	9.9	1
4	CD38-NADase is a new major contributor to Duchenne muscular dystrophic phenotype.. *EMBO Molecular Medicine*, **2022**, e12860	12	0
3	Nitrate consumption preserves HFD-induced skeletal muscle mitochondrial ADP sensitivity and lysine acetylation: A potential role for SIRT1.. *Redox Biology*, **2022**, 52, 102307	11.3	0
2	Desmin Plays Dual Structural and Regulatory Functions Through Its Interaction with Partners in Muscle **2015**, 241-280		
1	Spatiotemporal AMPK□ deletion in mice induces cardiac dysfunction, fibrosis and cardiolipin remodeling associated with mitochondrial dysfunction in males only. *Biology of Sex Differences*, **2021**, 12, 52	9.3	