Zoltan Arany

List of Publications by Year in Descending Order

102 papers	6,824 citations	40 h-index	82 g-index
124 ext. papers	8,820 ext. citations	13.6 avg, IF	6.16 L-index

#	Paper	IF	Citations
102	Folliculin promotes substrate-selective mTORC1 activity by activating RagC to recruit TFE3.. *PLoS Biology*, **2022**, 20, e3001594	9.7	2
101	Endothelium-derived lactate is required for pericyte function and blood-brain barrier maintenance.. *EMBO Journal*, **2022**, e109890	13	2
100	Shear stress switches the association of endothelial enhancers from ETV/ETS to KLF transcription factor binding sites.. *Scientific Reports*, **2022**, 12, 4795	4.9	0
99	Inhibition of nonalcoholic fatty liver disease in mice by selective inhibition of mTORC1.. *Science*, **2022**, 376, eabf8271	33.3	7
98	Direct anabolic metabolism of three carbon propionate to a six carbon metabolite occurs in vivo across tissues and species.. *Journal of Lipid Research*, **2022**, 100224	6.3	0
97	Defects in the Proteome and Metabolome in Human Hypertrophic Cardiomyopathy.. *Circulation: Heart Failure*, **2022**, CIRCHEARTFAILURE121009521	7.6	1
96	Glutaminolysis is Essential for Myofibroblast Persistence and In Vivo Targeting Reverses Fibrosis and Cardiac Dysfunction in Heart Failure. *Circulation*, **2022**, 145, 1625-1628	16.7	1
95	Truncated titin proteins in dilated cardiomyopathy. *Science Translational Medicine*, **2021**, 13, eabd7287	17.5	3
94	AKT controls protein synthesis and oxidative metabolism via combined mTORC1 and FOXO1 signalling to govern muscle physiology. *Journal of Cachexia, Sarcopenia and Muscle*, **2021**,	10.3	4
93	MitoScape: A big-data, machine-learning platform for obtaining mitochondrial DNA from next-generation sequencing data. *PLoS Computational Biology*, **2021**, 17, e1009594	5	3
92	Laminar Flow on Endothelial Cells Suppresses eNOS O-GlcNAcylation to Promote eNOS Activity. *Circulation Research*, **2021**, 129, 1054-1066	15.7	3
91	APOL1 risk variants in individuals of African genetic ancestry drive endothelial cell defects that exacerbate sepsis. *Immunity*, **2021**, 54, 2632-2649.e6	32.3	7
90	Comparison of Exogenous Ketone Administration versus Dietary Carbohydrate Restriction on Myocardial Glucose Suppression: A Crossover Clinical Trial. *Journal of Nuclear Medicine*, **2021**,	8.9	2
89	Soluble Flt1 levels are associated with cardiac dysfunction in Black women with and without severe preeclampsia. *Hypertension in Pregnancy*, **2021**, 40, 44-49	2	
88	Multimodality assessment of heart failure with preserved ejection fraction skeletal muscle reveals differences in the machinery of energy fuel metabolism. *ESC Heart Failure*, **2021**, 8, 2698-2712	3.7	6
87	Genetic and Phenotypic Landscape of Peripartum Cardiomyopathy. *Circulation*, **2021**, 143, 1852-1862	16.7	11
86	Women with peripartum cardiomyopathy have normal ejection fraction, but abnormal systolic strain, during pregnancy. *ESC Heart Failure*, **2021**, 8, 3382-3386	3.7	3

85	Peripartum cardiomyopathy: from genetics to management. *European Heart Journal*, **2021**, 42, 3094-3102	9.5	4
84	Regulation of maternal-fetal metabolic communication. *Cellular and Molecular Life Sciences*, **2021**, 78, 1455-1486	10.3	9
83	Whole-body metabolic fate of branched-chain amino acids. *Biochemical Journal*, **2021**, 478, 765-776	3.8	0
82	Thymic stromal lymphopoietin induces adipose loss through sebum hypersecretion. *Science*, **2021**, 373,	33.3	10
81	Neighborhood education status drives racial disparities in clinical outcomes in PPCM. *American Heart Journal*, **2021**, 238, 27-32	4.9	4
80	Differential Outcomes for African-American Women with Cardiovascular Complications of Pregnancy. *Current Treatment Options in Cardiovascular Medicine*, **2020**, 22, 1	2.1	0
79	Noncanonical WNT Activation in Human Right Ventricular Heart Failure. *Frontiers in Cardiovascular Medicine*, **2020**, 7, 582407	5.4	1
78	Functional effects of muscle PGC-1alpha in aged animals. *Skeletal Muscle*, **2020**, 10, 14	5.1	8
77	The small intestine shields the liver from fructose-induced steatosis. *Nature Metabolism*, **2020**, 2, 586-593	14.6	38
76	Local Mitochondrial ATP Production Regulates Endothelial Fatty Acid Uptake and Transport. *Cell Metabolism*, **2020**, 32, 309-319.e7	24.6	18
75	Peripartum Cardiomyopathy: JACC State-of-the-Art Review. *Journal of the American College of Cardiology*, **2020**, 75, 207-221	15.1	83
74	Cardiac endothelial cells maintain open chromatin and expression of cardiomyocyte myofibrillar genes. *ELife*, **2020**, 9,	8.9	12
73	In peripartum cardiomyopathy plasminogen activator inhibitor-1 is a potential new biomarker with controversial roles. *Cardiovascular Research*, **2020**, 116, 1875-1886	9.9	10
72	Importance of Early Diagnosis in Peripartum Cardiomyopathy. *Hypertension*, **2020**, 75, 91-97	8.5	10
71	Comprehensive quantification of fuel use by the failing and nonfailing human heart. *Science*, **2020**, 370, 364-368	33.3	89
70	Use of Impella heart pump for management of women with peripartum cardiogenic shock. *Clinical Cardiology*, **2019**, 42, 974-981	3.3	13
69	Unlocking the Secrets of Mitochondria in the Cardiovascular System: Path to a Cure in Heart Failure—A Report from the 2018 National Heart, Lung, and Blood Institute Workshop. *Circulation*, **2019**, 140, 1205-1216	16.7	43
68	Mitochondrial calcium exchange links metabolism with the epigenome to control cellular differentiation. *Nature Communications*, **2019**, 10, 4509	17.4	49

67	Persistent cardiac dysfunction on echocardiography in African American women with severe preeclampsia. *Pregnancy Hypertension*, **2019**, 17, 127-132	2.6	9
66	Genomics-First Evaluation of Heart Disease Associated With Titin-Truncating Variants. *Circulation*, **2019**, 140, 42-54	16.7	46
65	Genetic Variants Associated With Cancer Therapy-Induced Cardiomyopathy. *Circulation*, **2019**, 140, 31-41	16.7	110
64	NADPH production by the oxidative pentose-phosphate pathway supports folate metabolism. *Nature Metabolism*, **2019**, 1, 404-415	14.6	92
63	Fat, Obesity, and the Endothelium. *Current Opinion in Physiology*, **2019**, 12, 44-50	2.6	4
62	Myeloid Folliculin balances mTOR activation to maintain innate immunity homeostasis. *JCI Insight*, **2019**, 5,	9.9	10
61	NADPH production by the oxidative pentose-phosphate pathway supports folate metabolism. *Nature Metabolism*, **2019**, 1, 404-415	14.6	63
60	Taking a BAT to the Chains of Diabetes. *New England Journal of Medicine*, **2019**, 381, 2270-2272	59.2	4
59	Effect of Interleukin-15 Receptor Alpha Ablation on the Metabolic Responses to Moderate Exercise Simulated by Isometric Muscle Contractions. *Frontiers in Physiology*, **2019**, 10, 1439	4.6	4
58	Increased Cancer Prevalence in Peripartum Cardiomyopathy. *JACC: CardioOncology*, **2019**, 1, 196-205	3.8	17
57	The ADP/ATP translocase drives mitophagy independent of nucleotide exchange. *Nature*, **2019**, 575, 375-379	50.4	77
56	Quantitative Analysis of the Whole-Body Metabolic Fate of Branched-Chain Amino Acids. *Cell Metabolism*, **2019**, 29, 417-429.e4	24.6	149
55	Branched Chain Amino Acids. *Annual Review of Physiology*, **2019**, 81, 139-164	23.1	129
54	Impairment of an Endothelial NAD-HS Signaling Network Is a Reversible Cause of Vascular Aging. *Cell*, **2018**, 173, 74-89.e20	56.2	205
53	Fructose metabolism, cardiometabolic risk, and the epidemic of coronary artery disease. *European Heart Journal*, **2018**, 39, 2497-2505	9.5	38
52	Bromocriptine for the treatment of peripartum cardiomyopathy: comparison of outcome with a Danish cohort. *European Heart Journal*, **2018**, 39, 3476-3477	9.5	3
51	Peripartum cardiomyopathy: An epidemiologic study of early and late presentations. *Pregnancy Hypertension*, **2018**, 13, 273-278	2.6	7
50	Branched Chain Amino Acids in Metabolic Disease. *Current Diabetes Reports*, **2018**, 18, 76	5.6	64

49	Endothelial pyruvate kinase M2 maintains vascular integrity. *Journal of Clinical Investigation*, **2018**, 128, 4543-4556	15.9	37
48	Understanding Peripartum Cardiomyopathy. *Annual Review of Medicine*, **2018**, 69, 165-176	17.4	17
47	Genomic Risk Stratification Predicts All-Cause Mortality After Cardiac Catheterization. *Circulation Genomic and Precision Medicine*, **2018**, 11, e002352	5.2	9
46	Identifying the Critical Gaps in Research on Sex Differences in Metabolism Across the Life Span. *Endocrinology*, **2018**, 159, 9-19	4.8	17
45	Myocardial performance index in hypertensive disorders of pregnancy: The relationship between blood pressures and angiogenic factors. *Hypertension in Pregnancy*, **2017**, 36, 161-167	2	11
44	Myobolites: muscle-derived metabolites with paracrine and systemic effects. *Current Opinion in Pharmacology*, **2017**, 34, 15-20	5.1	11
43	Metabolic Regulation of Angiogenesis in Diabetes and Aging. *Physiology*, **2017**, 32, 290-307	9.8	21
42	Development of dilated cardiomyopathy and impaired calcium homeostasis with cardiac-specific deletion of ESRR *American Journal of Physiology - Heart and Circulatory Physiology*, **2017**, 312, H662-H671	5.2	12
41	Comparison of Clinical Characteristics and Outcomes of Peripartum Cardiomyopathy Between African American and Non-African American Women. *JAMA Cardiology*, **2017**, 2, 1256-1260	16.2	73
40	PDK4 Inhibits Cardiac Pyruvate Oxidation in Late Pregnancy. *Circulation Research*, **2017**, 121, 1370-1378	15.7	17
39	Glutamine fuels proliferation but not migration of endothelial cells. *EMBO Journal*, **2017**, 36, 2321-2333	13	118
38	Cardiogenic shock in pregnancy: Analysis from the National Inpatient Sample. *Hypertension in Pregnancy*, **2017**, 36, 117-123	2	16
37	Increasing the level of peroxisome proliferator-activated receptor coactivator-1 in podocytes results in collapsing glomerulopathy. *JCI Insight*, **2017**, 2,	9.9	30
36	Transcriptome-wide co-expression analysis identifies LRRC2 as a novel mediator of mitochondrial and cardiac function. *PLoS ONE*, **2017**, 12, e0170458	3.7	8
35	Response by Arany and Elkayam to Letter Regarding Article, "Peripartum Cardiomyopathy". *Circulation*, **2016**, 134, e83-4	16.7	
34	Relaxin-2 and Soluble Flt1 Levels in Peripartum Cardiomyopathy: Results of the Multicenter IPAC Study. *JACC: Heart Failure*, **2016**, 4, 380-8	7.9	42
33	A branched-chain amino acid metabolite drives vascular fatty acid transport and causes insulin resistance. *Nature Medicine*, **2016**, 22, 421-6	50.5	283
32	Shared Genetic Predisposition in Peripartum and Dilated Cardiomyopathies. *New England Journal of Medicine*, **2016**, 374, 233-41	59.2	290

31	Exercise-induced mitochondrial p53 repairs mtDNA mutations in mutator mice. *Skeletal Muscle*, **2016**, 6, 7	5.1	53
30	PGC-1 Induces Human RPE Oxidative Metabolism and Antioxidant Capacity **2016**, 57, 1038-51		54
29	The tumor suppressor FLCN mediates an alternate mTOR pathway to regulate browning of adipose tissue. *Genes and Development*, **2016**, 30, 2551-2564	12.6	71
28	Heme oxygenase and carbon monoxide protect from muscle dystrophy. *Skeletal Muscle*, **2016**, 6, 41	5.1	12
27	Peripartum Cardiomyopathy. *Circulation*, **2016**, 133, 1397-409	16.7	203
26	Circulating Antiangiogenic Factors and Myocardial Dysfunction in Hypertensive Disorders of Pregnancy. *Hypertension*, **2016**, 67, 1273-80	8.5	43
25	Molecular mechanisms of peripartum cardiomyopathy: A vascular/hormonal hypothesis. *Trends in Cardiovascular Medicine*, **2015**, 25, 499-504	6.9	41
24	Mitochondria Cripple without Krüppel. *Trends in Endocrinology and Metabolism*, **2015**, 26, 587-589	8.8	5
23	Transcription Factor Tfe3 Directly Regulates Pgc-1alpha in Muscle. *Journal of Cellular Physiology*, **2015**, 230, 2330-6	7	24
22	SOX15 governs transcription in human stratified epithelia and a subset of esophageal adenocarcinomas. *Cellular and Molecular Gastroenterology and Hepatology*, **2015**, 1, 598-609.e6	7.9	11
21	The many roles of PGC-1 in muscle--recent developments. *Metabolism: Clinical and Experimental*, **2014**, 63, 441-51	12.7	81
20	Post-natal induction of PGC-1 protects against severe muscle dystrophy independently of utrophin. *Skeletal Muscle*, **2014**, 4, 2	5.1	37
19	Case records of the Massachusetts General Hospital. Case 22-2014. A 40-year-old woman with postpartum dyspnea and hypoxemia. *New England Journal of Medicine*, **2014**, 371, 261-9	59.2	4
18	Endothelial PGC-1 mediates vascular dysfunction in diabetes. *Cell Metabolism*, **2014**, 19, 246-58	24.6	110
17	PGC-1 induces SPP1 to activate macrophages and orchestrate functional angiogenesis in skeletal muscle. *Circulation Research*, **2014**, 115, 504-17	15.7	57
16	Maternal cardiac metabolism in pregnancy. *Cardiovascular Research*, **2014**, 101, 545-53	9.9	66
15	The relationship between pre-eclampsia and peripartum cardiomyopathy: a systematic review and meta-analysis. *Journal of the American College of Cardiology*, **2013**, 62, 1715-1723	15.1	175
14	Disconnecting mitochondrial content from respiratory chain capacity in PGC-1-deficient skeletal muscle. *Cell Reports*, **2013**, 3, 1449-56	10.6	78

13	PGC-1 isoforms modulate the antioxidant response of photoreceptors to photo-oxidative stress. *FASEB Journal*, **2013**, 27, 1086.10	0.9	
12	Cardiac angiogenic imbalance leads to peripartum cardiomyopathy. *Nature*, **2012**, 485, 333-8	50.4	348
11	Subclinical left ventricular dysfunction in preeclamptic women with preserved left ventricular ejection fraction: a 2D speckle-tracking imaging study. *Circulation: Cardiovascular Imaging*, **2012**, 5, 734-9	3.9	80
10	PGC-1 regulates angiogenesis in skeletal muscle. *American Journal of Physiology - Endocrinology and Metabolism*, **2011**, 301, E155-63	6	39
9	PGC-1 coactivators in cardiac development and disease. *Circulation Research*, **2010**, 107, 825-38	15.7	241
8	The transcriptional coactivator PGC-1alpha mediates exercise-induced angiogenesis in skeletal muscle. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 21401-6	11.5	272
7	High-throughput real-time PCR for detection of gene-expression levels. *Methods in Molecular Biology*, **2009**, 486, 167-75	1.4	3
6	HIF-independent regulation of VEGF and angiogenesis by the transcriptional coactivator PGC-1alpha. *Nature*, **2008**, 451, 1008-12	50.4	808
5	PGC-1 coactivators and skeletal muscle adaptations in health and disease. *Current Opinion in Genetics and Development*, **2008**, 18, 426-34	4.9	168
4	Gene expression-based screening identifies microtubule inhibitors as inducers of PGC-1alpha and oxidative phosphorylation. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 4721-6	11.5	73
3	The transcriptional coactivator PGC-1beta drives the formation of oxidative type IIX fibers in skeletal muscle. *Cell Metabolism*, **2007**, 5, 35-46	24.6	300
2	Transverse aortic constriction leads to accelerated heart failure in mice lacking PPAR-gamma coactivator 1alpha. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 10086-91	11.5	298
1	Transcriptional coactivator PGC-1 alpha controls the energy state and contractile function of cardiac muscle. *Cell Metabolism*, **2005**, 1, 259-71	24.6	532