Sandor Batkai

List of Publications by Citations

79 papers	6,467 citations	40 h-index	80 g-index
83 ext. papers	7,492 ext. citations	8.5 avg, IF	5.3 L-index

#	Paper	IF	Citations
79	Cardiac fibroblast-derived microRNA passenger strand-enriched exosomes mediate cardiomyocyte hypertrophy. *Journal of Clinical Investigation*, **2014**, 124, 2136-46	15.9	617
78	Measurement of cardiac function using pressure-volume conductance catheter technique in mice and rats. *Nature Protocols*, **2008**, 3, 1422-34	18.8	540
77	The miRNA-212/132 family regulates both cardiac hypertrophy and cardiomyocyte autophagy. *Nature Communications*, **2012**, 3, 1078	17.4	406
76	Hepatic CB1 receptor is required for development of diet-induced steatosis, dyslipidemia, and insulin and leptin resistance in mice. *Journal of Clinical Investigation*, **2008**, 118, 3160-9	15.9	351
75	Peripheral CB1 cannabinoid receptor blockade improves cardiometabolic risk in mouse models of obesity. *Journal of Clinical Investigation*, **2010**, 120, 2953-66	15.9	343
74	Cannabidiol attenuates cardiac dysfunction, oxidative stress, fibrosis, and inflammatory and cell death signaling pathways in diabetic cardiomyopathy. *Journal of the American College of Cardiology*, **2010**, 56, 2115-25	15.1	297
73	Role of superoxide, nitric oxide, and peroxynitrite in doxorubicin-induced cell death in vivo and in vitro. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 296, H1466-83	5.2	261
72	Long noncoding RNA Chast promotes cardiac remodeling. *Science Translational Medicine*, **2016**, 8, 326ra22	17.5	250
71	Paracrine activation of hepatic CB1 receptors by stellate cell-derived endocannabinoids mediates alcoholic fatty liver. *Cell Metabolism*, **2008**, 7, 227-35	24.6	246
70	Inhibition of the Cardiac Fibroblast-Enriched lncRNA Prevents Cardiac Fibrosis and Diastolic Dysfunction. *Circulation Research*, **2017**, 121, 575-583	15.7	190
69	Cannabinoid 1 receptor promotes cardiac dysfunction, oxidative stress, inflammation, and fibrosis in diabetic cardiomyopathy. *Diabetes*, **2012**, 61, 716-27	0.9	178
68	Cannabinoid-2 receptor limits inflammation, oxidative/nitrosative stress, and cell death in nephropathy. *Free Radical Biology and Medicine*, **2010**, 48, 457-67	7.8	160
67	CB1 cannabinoid receptors promote oxidative stress and cell death in murine models of doxorubicin-induced cardiomyopathy and in human cardiomyocytes. *Cardiovascular Research*, **2010**, 85, 773-84	9.9	131
66	Cannabidiol protects against hepatic ischemia/reperfusion injury by attenuating inflammatory signaling and response, oxidative/nitrative stress, and cell death. *Free Radical Biology and Medicine*, **2011**, 50, 1368-81	7.8	128
65	Quantification of endocannabinoids in biological systems by chromatography and mass spectrometry: a comprehensive review from an analytical and biological perspective. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2011**, 1811, 706-23	5	118
64	Should peripheral CB(1) cannabinoid receptors be selectively targeted for therapeutic gain?. *Trends in Pharmacological Sciences*, **2009**, 30, 1-7	13.2	115
63	MicroRNAs in hypertension: mechanisms and therapeutic targets. *Current Hypertension Reports*, **2012**, 14, 79-87	4.7	105

62	CB1 cannabinoid receptors promote oxidative/nitrosative stress, inflammation and cell death in a murine nephropathy model. *British Journal of Pharmacology*, **2010**, 160, 657-68	8.6	97
61	Osteopontin is indispensible for AP1-mediated angiotensin II-related miR-21 transcription during cardiac fibrosis. *European Heart Journal*, **2015**, 36, 2184-96	9.5	95
60	Mitochondrial reactive oxygen species generation triggers inflammatory response and tissue injury associated with hepatic ischemia-reperfusion: therapeutic potential of mitochondrially targeted antioxidants. *Free Radical Biology and Medicine*, **2012**, 53, 1123-38	7.8	95
59	Modulation of the endocannabinoid system in cardiovascular disease: therapeutic potential and limitations. *Hypertension*, **2008**, 52, 601-7	8.5	81
58	A new cannabinoid CB2 receptor agonist HU-910 attenuates oxidative stress, inflammation and cell death associated with hepatic ischaemia/reperfusion injury. *British Journal of Pharmacology*, **2012**, 165, 2462-78	8.6	78
57	Simultaneous UPLC-MS/MS quantification of the endocannabinoids 2-arachidonoyl glycerol (2AG), 1-arachidonoyl glycerol (1AG), and anandamide in human plasma: minimization of matrix-effects, 2AG/1AG isomerization and degradation by toluene solvent extraction. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2012**, 883-884, 161-71	3.2	77
56	Inhibitor of fatty acid amide hydrolase normalizes cardiovascular function in hypertension without adverse metabolic effects. *Chemistry and Biology*, **2010**, 17, 1256-66		77
55	Preclinical Development of a MicroRNA-Based Therapy for Elderly Patients With Myocardial Infarction. *Journal of the American College of Cardiology*, **2016**, 68, 1557-71	15.1	75
54	Endocannabinoids and the control of energy homeostasis. *Journal of Biological Chemistry*, **2008**, 283, 33021-5	5.4	72
53	Fatty acid amide hydrolase is a key regulator of endocannabinoid-induced myocardial tissue injury. *Free Radical Biology and Medicine*, **2011**, 50, 179-95	7.8	66
52	Vascular importance of the miR-212/132 cluster. *European Heart Journal*, **2014**, 35, 3224-31	9.5	64
51	Xanthine oxidase inhibitor allopurinol attenuates the development of diabetic cardiomyopathy. *Journal of Cellular and Molecular Medicine*, **2009**, 13, 2330-2341	5.6	64
50	MicroRNAs play a role in spontaneous recovery from acute liver failure. *Hepatology*, **2014**, 60, 1346-55	11.2	62
49	Preclinical development of a miR-132 inhibitor for heart failure treatment. *Nature Communications*, **2020**, 11, 633	17.4	59
48	Novel antisense therapy targeting microRNA-132 in patients with heart failure: results of a first-in-human Phase 1b randomized, double-blind, placebo-controlled study. *European Heart Journal*, **2021**, 42, 178-188	9.5	57
47	miR-21 promotes fibrosis in an acute cardiac allograft transplantation model. *Cardiovascular Research*, **2016**, 110, 215-26	9.9	49
46	Antiandrogenic therapy with finasteride attenuates cardiac hypertrophy and left ventricular dysfunction. *Circulation*, **2015**, 131, 1071-81	16.7	48
45	Regulation of cardiac and renal ischemia-reperfusion injury by microRNAs. *Free Radical Biology and Medicine*, **2013**, 64, 78-84	7.8	47

44	MicroRNA-mediated epigenetic silencing of sirtuin1 contributes to impaired angiogenic responses. *Circulation Research*, **2013**, 113, 997-1003	15.7	47
43	Activation of the miR-17 family and miR-21 during murine kidney ischemia-reperfusion injury. *Nucleic Acid Therapeutics*, **2013**, 23, 344-54	4.8	44
42	Circulating microRNA-132 levels improve risk prediction for heart failure hospitalization in patients with chronic heart failure. *European Journal of Heart Failure*, **2018**, 20, 78-85	12.3	43
41	CB2 cannabinoid receptors contribute to bacterial invasion and mortality in polymicrobial sepsis. *PLoS ONE*, **2009**, 4, e6409	3.7	43
40	Endocannabinoids and cardiac contractile function: pathophysiological implications. *Pharmacological Research*, **2009**, 60, 99-106	10.2	43
39	Cannabinoids reduce markers of inflammation and fibrosis in pancreatic stellate cells. *PLoS ONE*, **2008**, 3, e1701	3.7	38
38	Targeting muscle-enriched long non-coding RNA H19 reverses pathological cardiac hypertrophy. *European Heart Journal*, **2020**, 41, 3462-3474	9.5	35
37	MicroRNA-Based Therapy of GATA2-Deficient Vascular Disease. *Circulation*, **2016**, 134, 1973-1990	16.7	32
36	Δ8-Tetrahydrocannabivarin prevents hepatic ischaemia/reperfusion injury by decreasing oxidative stress and inflammatory responses through cannabinoid CB2 receptors. *British Journal of Pharmacology*, **2012**, 165, 2450-61	8.6	29
35	Natural Compound Library Screening Identifies New Molecules for the Treatment of Cardiac Fibrosis and Diastolic Dysfunction. *Circulation*, **2020**, 141, 751-767	16.7	27
34	Endocannabinoid-mediated modulation of Gq/11 protein-coupled receptor signaling-induced vasoconstriction and hypertension. *Molecular and Cellular Endocrinology*, **2015**, 403, 46-56	4.4	26
33	Circulating anandamide and blood pressure in patients with obstructive sleep apnea. *Journal of Hypertension*, **2012**, 30, 2345-51	1.9	26
32	CDR132L improves systolic and diastolic function in a large animal model of chronic heart failure. *European Heart Journal*, **2021**, 42, 192-201	9.5	25
31	miR-212/132 Cluster Modulation Prevents Doxorubicin-Mediated Atrophy and Cardiotoxicity. *Molecular Therapy*, **2019**, 27, 17-28	11.7	23
30	Circulating endocannabinoid concentrations during orthostatic stress. *Clinical Autonomic Research*, **2009**, 19, 343-6	4.3	22
29	Zinc-α-Glycoprotein Exerts Antifibrotic Effects in Kidney and Heart. *Journal of the American Society of Nephrology: JASN*, **2015**, 26, 2659-68	12.7	20
28	CB1 cannabinoid receptor inhibition: promising approach for heart failure?. *Congestive Heart Failure* , **2008**, 14, 330-4		20
27	MicroRNAs in right ventricular (dys)function (2013 Grover Conference series). *Pulmonary Circulation* , **2014**, 4, 185-90	2.7	19

26	Chronic kidney disease induces left ventricular overexpression of the pro-hypertrophic microRNA-212. *Scientific Reports*, **2019**, 9, 1302	4.9	18
25	Porcine model of progressive cardiac hypertrophy and fibrosis with secondary postcapillary pulmonary hypertension. *Journal of Translational Medicine*, **2017**, 15, 202	8.5	18
24	MicroRNAs in right ventricular remodelling. *Cardiovascular Research*, **2017**, 113, 1433-1440	9.9	18
23	Plasma and tissue homoarginine concentrations in healthy and obese humans. *Amino Acids*, **2015**, 47, 1847-52	3.5	15
22	Peripheral endocannabinoid system activity in patients treated with sibutramine. *Obesity*, **2008**, 16, 1135-37	8	14
21	Enhanced human tissue microdialysis using hydroxypropyl-□-cyclodextrin as molecular carrier. *PLoS ONE*, **2013**, 8, e60628	3.7	13
20	Telomerase therapy attenuates cardiotoxic effects of doxorubicin. *Molecular Therapy*, **2021**, 29, 1395-1410	11.7	13
19	Selective Heart Irradiation Induces Cardiac Overexpression of the Pro-hypertrophic miR-212. *Frontiers in Oncology*, **2019**, 9, 598	5.3	11
18	Analytical approaches in microRNA therapeutics. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2014**, 964, 146-52	3.2	11
17	AntimiR-132 Attenuates Myocardial Hypertrophy in an Animal Model of Percutaneous Aortic Constriction. *Journal of the American College of Cardiology*, **2021**, 77, 2923-2935	15.1	11
16	Association between Circular RNA CDR1as and Post-Infarction Cardiac Function in Pig Ischemic Heart Failure: Influence of the Anti-Fibrotic Natural Compounds Bufalin and Lycorine. *Biomolecules*, **2020**, 10,	5.9	10
15	TIP30 counteracts cardiac hypertrophy and failure by inhibiting translational elongation. *EMBO Molecular Medicine*, **2019**, 11, e10018	12	8
14	Stable isotope liquid chromatography-tandem mass spectrometry assay for fatty acid amide hydrolase activity. *Analytical Biochemistry*, **2012**, 421, 699-705	3.1	8
13	Measurement and diagnostic use of hepatic cytochrome P450 metabolism of oleic acid in liver disease. *Liver International*, **2010**, 30, 1181-8	7.9	7
12	Peripheral endocannabinoid microdialysis: in vitro characterization and proof-of-concept in human subjects. *Analytical and Bioanalytical Chemistry*, **2012**, 402, 2727-35	4.4	6
11	Clinical evaluation of extracellular ADMA concentrations in human blood and adipose tissue. *International Journal of Molecular Sciences*, **2014**, 15, 1189-200	6.3	6
10	LC-MS/MS and GC-MS/MS measurement of plasma and urine di-paracetamol and 3-nitro-paracetamol: proof-of-concept studies on a novel human model of oxidative stress based on oral paracetamol administration. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2014**, 959, 71-81	3.2	6
9	Trapping of NAPQI, the intermediate toxic paracetamol metabolite, by aqueous sulfide (S□?) and analysis by GC-MS/MS. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2014**, 963, 99-105	3.2	3

8	Animal models and animal-free innovations for cardiovascular research: current status and routes to be explored. Consensus document of the ESC working group on myocardial function and the ESC Working Group on Cellular Biology of the Heart.. *Cardiovascular Research*, **2022**,	9.9	3
7	Skeletal muscle derived Musclin protects the heart during pathological overload.. *Nature Communications*, **2022**, 13, 149	17.4	3
6	Studying Interactions between 2′O-Me-Modified Inhibitors and MicroRNAs Utilizing Microscale Thermophoresis. *Molecular Therapy - Nucleic Acids*, **2019**, 18, 259-268	10.7	2
5	Nitro-oleic acid and epoxy-oleic acid are not altered in obesity and type 2 diabetes. *Cardiovascular Research*, **2014**, 102, 517-8	9.9	1
4	Pharmacokinetic Studies of Antisense Oligonucleotides Using MALDI-TOF Mass Spectrometry. *Frontiers in Pharmacology*, **2020**, 11, 220	5.6	0
3	Novel insight into arrhythmogenic remodeling: a target for reversal. *Hypertension Research*, **2017**, 40, 632-634	4.7	
2	Cannabidiol attenuates cisplatin-induced nephrotoxicity by decreasing oxidative/nitrosative stress, inflammation and cell death. *FASEB Journal*, **2009**, 23, 617.5	0.9	
1	The Role of Endocannabinoids and Their Receptors in the Control of Hepatic Functions1091-1103		