

Sandor Batkai

List of Publications by Year in descending order

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83
papers

8,358
citations

57752

44
h-index

64791

79
g-index

83
all docs

83
docs citations

83
times ranked

11711
citing authors

#	ARTICLE	IF	CITATIONS
1	Cardiac fibroblast-derived microRNA passenger strand-enriched exosomes mediate cardiomyocyte hypertrophy. <i>Journal of Clinical Investigation</i> , 2014, 124, 2136-2146.	8.2	803
2	Measurement of cardiac function using pressure-volume conductance catheter technique in mice and rats. <i>Nature Protocols</i> , 2008, 3, 1422-1434.	12.0	633
3	The miRNA-212/132 family regulates both cardiac hypertrophy and cardiomyocyte autophagy. <i>Nature Communications</i> , 2012, 3, 1078.	12.8	518
4	Hepatic CB1 receptor is required for development of diet-induced steatosis, dyslipidemia, and insulin and leptin resistance in mice. <i>Journal of Clinical Investigation</i> , 2008, 118, 3160-3169.	8.2	399
5	Peripheral CB1 cannabinoid receptor blockade improves cardiometabolic risk in mouse models of obesity. <i>Journal of Clinical Investigation</i> , 2010, 120, 2953-2966.	8.2	393
6	Cannabidiol Attenuates Cardiac Dysfunction, Oxidative Stress, Fibrosis, and Inflammatory and Cell Death Signaling Pathways in Diabetic Cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2010, 56, 2115-2125.	2.8	389
7	Long noncoding RNA <i>Chast</i> promotes cardiac remodeling. <i>Science Translational Medicine</i> , 2016, 8, 326ra22.	12.4	321
8	Role of superoxide, nitric oxide, and peroxynitrite in doxorubicin-induced cell death in vivo and in vitro. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H1466-H1483.	3.2	314
9	Inhibition of the Cardiac Fibroblast-Enriched lncRNA <i>Meg3</i> Prevents Cardiac Fibrosis and Diastolic Dysfunction. <i>Circulation Research</i> , 2017, 121, 575-583.	4.5	281
10	Paracrine Activation of Hepatic CB1 Receptors by Stellate Cell-Derived Endocannabinoids Mediates Alcoholic Fatty Liver. <i>Cell Metabolism</i> , 2008, 7, 227-235.	16.2	280
11	Cannabinoid 1 Receptor Promotes Cardiac Dysfunction, Oxidative Stress, Inflammation, and Fibrosis in Diabetic Cardiomyopathy. <i>Diabetes</i> , 2012, 61, 716-727.	0.6	214
12	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. <i>European Heart Journal</i> , 2021, 42, 178-188.	2.2	190
13	Cannabinoid-2 receptor limits inflammation, oxidative/nitrosative stress, and cell death in nephropathy. <i>Free Radical Biology and Medicine</i> , 2010, 48, 457-467.	2.9	181
14	Cannabidiol protects against hepatic ischemia/reperfusion injury by attenuating inflammatory signaling and response, oxidative/nitrosative stress, and cell death. <i>Free Radical Biology and Medicine</i> , 2011, 50, 1368-1381.	2.9	163
15	CB1 cannabinoid receptors promote oxidative stress and cell death in murine models of doxorubicin-induced cardiomyopathy and in human cardiomyocytes. <i>Cardiovascular Research</i> , 2010, 85, 773-784.	3.8	162
16	Quantification of endocannabinoids in biological systems by chromatography and mass spectrometry: A comprehensive review from an analytical and biological perspective. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 706-723.	2.4	139
17	MicroRNAs in Hypertension: Mechanisms and Therapeutic Targets. <i>Current Hypertension Reports</i> , 2012, 14, 79-87.	3.5	125
18	Preclinical development of a miR-132 inhibitor for heart failure treatment. <i>Nature Communications</i> , 2020, 11, 633.	12.8	123

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19	Should peripheral CB1 cannabinoid receptors be selectively targeted for therapeutic gain?. Trends in Pharmacological Sciences, 2009, 30, 1-7.	8.7	122
20	CB ₁ cannabinoid receptors promote oxidative/nitrosative stress, inflammation and cell death in a murine nephropathy model. British Journal of Pharmacology, 2010, 160, 657-668.	5.4	118
21	Osteopontin is indispensable for AP1-mediated angiotensin II-related miR-21 transcription during cardiac fibrosis. European Heart Journal, 2015, 36, 2184-2196.	2.2	117
22	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, 1123-1138.	2.9	111
23	Modulation of the Endocannabinoid System in Cardiovascular Disease. Hypertension, 2008, 52, 601-607.	2.7	100
24	Preclinical Development of a MicroRNA-Based Therapy for Elderly Patients With Myocardial Infarction. Journal of the American College of Cardiology, 2016, 68, 1557-1571.	2.8	99
25	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, 161-171.	2.3	93
26	A new cannabinoid CB ₂ receptor agonist HU-910 attenuates oxidative stress, inflammation and cell death associated with hepatic ischaemia/reperfusion injury. British Journal of Pharmacology, 2012, 165, 2462-2478.	5.4	90
27	Endocannabinoids and the Control of Energy Homeostasis. Journal of Biological Chemistry, 2008, 283, 33021-33025.	3.4	86
28	Inhibitor of Fatty Acid Amide Hydrolase Normalizes Cardiovascular Function in Hypertension without Adverse Metabolic Effects. Chemistry and Biology, 2010, 17, 1256-1266.	6.0	85
29	MicroRNAs play a role in spontaneous recovery from acute liver failure. Hepatology, 2014, 60, 1346-1355.	7.3	84
30	Targeting muscle-enriched long non-coding RNA <i>H19</i> reverses pathological cardiac hypertrophy. European Heart Journal, 2020, 41, 3462-3474.	2.2	81
31	Xanthine oxidase inhibitor allopurinol attenuates the development of diabetic cardiomyopathy. Journal of Cellular and Molecular Medicine, 2009, 13, 2330-2341.	3.6	75
32	Vascular importance of the miR-212/132 cluster. European Heart Journal, 2014, 35, 3224-3231.	2.2	74
33	Fatty acid amide hydrolase is a key regulator of endocannabinoid-induced myocardial tissue injury. Free Radical Biology and Medicine, 2011, 50, 179-195.	2.9	73
34	CDR132L improves systolic and diastolic function in a large animal model of chronic heart failure. European Heart Journal, 2021, 42, 192-201.	2.2	70
35	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.	7.1	63
36	Antiandrogenic Therapy With Finasteride Attenuates Cardiac Hypertrophy and Left Ventricular Dysfunction. Circulation, 2015, 131, 1071-1081.	1.6	62

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37	miR-21 promotes fibrosis in an acute cardiac allograft transplantation model. <i>Cardiovascular Research</i> , 2016, 110, 215-226.	3.8	61
38	CB2 Cannabinoid Receptors Contribute to Bacterial Invasion and Mortality in Polymicrobial Sepsis. <i>PLoS ONE</i> , 2009, 4, e6409.	2.5	57
39	MicroRNA-Mediated Epigenetic Silencing of Sirtuin1 Contributes to Impaired Angiogenic Responses. <i>Circulation Research</i> , 2013, 113, 997-1003.	4.5	56
40	Regulation of cardiac and renal ischemiaâ€“reperfusion injury by microRNAs. <i>Free Radical Biology and Medicine</i> , 2013, 64, 78-84.	2.9	54
41	Endocannabinoids and cardiac contractile function: Pathophysiological implications. <i>Pharmacological Research</i> , 2009, 60, 99-106.	7.1	52
42	Activation of the miR-17 Family and miR-21 During Murine Kidney Ischemia-Reperfusion Injury. <i>Nucleic Acid Therapeutics</i> , 2013, 23, 344-354.	3.6	52
43	Natural Compound Library Screening Identifies New Molecules for the Treatment of Cardiac Fibrosis and Diastolic Dysfunction. <i>Circulation</i> , 2020, 141, 751-767.	1.6	48
44	Cannabinoids Reduce Markers of Inflammation and Fibrosis in Pancreatic Stellate Cells. <i>PLoS ONE</i> , 2008, 3, e1701.	2.5	47
45	MicroRNA-Based Therapy of GATA2-Deficient Vascular Disease. <i>Circulation</i> , 2016, 134, 1973-1990.	1.6	46
46	AntimiR-132 Attenuates Myocardial Hypertrophy in an Animal Model of Percutaneous Aortic Constriction. <i>Journal of the American College of Cardiology</i> , 2021, 77, 2923-2935.	2.8	41
47	Î” ⁸ -tetrahydrocannabinol prevents hepatic ischaemia/reperfusion injury by decreasing oxidative stress and inflammatory responses through cannabinoid CB ₂ receptors. <i>British Journal of Pharmacology</i> , 2012, 165, 2450-2461.	5.4	38
48	miR-212/132 Cluster Modulation Prevents Doxorubicin-Mediated Atrophy and Cardiotoxicity. <i>Molecular Therapy</i> , 2019, 27, 17-28.	8.2	38
49	Zinc-Î±2-Glycoprotein Exerts Antifibrotic Effects in Kidney and Heart. <i>Journal of the American Society of Nephrology: JASN</i> , 2015, 26, 2659-2668.	6.1	37
50	Circulating anandamide and blood pressure in patients with obstructive sleep apnea. <i>Journal of Hypertension</i> , 2012, 30, 2345-2351.	0.5	33
51	Porcine model of progressive cardiac hypertrophy and fibrosis with secondary postcapillary pulmonary hypertension. <i>Journal of Translational Medicine</i> , 2017, 15, 202.	4.4	33
52	Chronic kidney disease induces left ventricular overexpression of the pro-hypertrophic microRNA-212. <i>Scientific Reports</i> , 2019, 9, 1302.	3.3	32
53	Endocannabinoid-mediated modulation of Gq/11 protein-coupled receptor signaling-induced vasoconstriction and hypertension. <i>Molecular and Cellular Endocrinology</i> , 2015, 403, 46-56.	3.2	31
54	Telomerase therapy attenuates cardiotoxic effects of doxorubicin. <i>Molecular Therapy</i> , 2021, 29, 1395-1410.	8.2	31

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55	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. <i>Cardiovascular Research</i> , 2022, 118, 3016-3051.	3.8	30
56	Skeletal muscle derived Musclin protects the heart during pathological overload. <i>Nature Communications</i> , 2022, 13, 149.	12.8	27
57	MicroRNAs in right ventricular remodelling. <i>Cardiovascular Research</i> , 2017, 113, 1433-1440.	3.8	26
58	Circulating endocannabinoid concentrations during orthostatic stress. <i>Clinical Autonomic Research</i> , 2009, 19, 343-346.	2.5	24
59	CB ₁ Cannabinoid Receptor Inhibition: Promising Approach for Heart Failure?. <i>Congestive Heart Failure</i> , 2008, 14, 330-334.	2.0	23
60	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. <i>Biomolecules</i> , 2020, 10, 1180.	4.0	23
61	MicroRNAs in Right Ventricular (dys)function (2013 Grover Conference Series). <i>Pulmonary Circulation</i> , 2014, 4, 185-190.	1.7	22
62	Plasma and tissue homoarginine concentrations in healthy and obese humans. <i>Amino Acids</i> , 2015, 47, 1847-1852.	2.7	21
63	Selective Heart Irradiation Induces Cardiac Overexpression of the Pro-hypertrophic miR-212. <i>Frontiers in Oncology</i> , 2019, 9, 598.	2.8	21
64	Peripheral Endocannabinoid System Activity in Patients Treated With Sibutramine. <i>Obesity</i> , 2008, 16, 1135-1137.	3.0	17
65	TIP-30 counteracts cardiac hypertrophy and failure by inhibiting translational elongation. <i>EMBO Molecular Medicine</i> , 2019, 11, e10018.	6.9	17
66	Analytical approaches in microRNA therapeutics. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 964, 146-152.	2.3	14
67	Enhanced Human Tissue Microdialysis Using Hydroxypropyl- β -Cyclodextrin as Molecular Carrier. <i>PLoS ONE</i> , 2013, 8, e60628.	2.5	13
68	Measurement and diagnostic use of hepatic cytochrome P450 metabolism of oleic acid in liver disease. <i>Liver International</i> , 2010, 30, 1181-1188.	3.9	9
69	Stable isotope liquid chromatography-tandem mass spectrometry assay for fatty acid amide hydrolase activity. <i>Analytical Biochemistry</i> , 2012, 421, 699-705.	2.4	9
70	Peripheral endocannabinoid microdialysis: in vitro characterization and proof-of-concept in human subjects. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 2727-2735.	3.7	9
71	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. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 959, 71-81.	2.3	8
72	Clinical Evaluation of Extracellular ADMA Concentrations in Human Blood and Adipose Tissue. <i>International Journal of Molecular Sciences</i> , 2014, 15, 1189-1200.	4.1	6

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73	Trapping of NAPQI, the intermediate toxic paracetamol metabolite, by aqueous sulfide (S ²⁻) and analysis by GC-MS/MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 963, 99-105.	2.3	6
74	Studying Interactions between 2 ^â -O-Me-Modified Inhibitors and MicroRNAs Utilizing Microscale Thermophoresis. <i>Molecular Therapy - Nucleic Acids</i> , 2019, 18, 259-268.	5.1	5
75	Nitro-oleic acid and epoxy-oleic acid are not altered in obesity and Type 2 diabetes. <i>Cardiovascular Research</i> , 2014, 102, 517-518.	3.8	4
76	Towards novel theranostic approaches in cardiac transplantation medicine. <i>European Heart Journal</i> , 2014, 35, 3152-3154.	2.2	2
77	Pharmacokinetic Studies of Antisense Oligonucleotides Using MALDI-TOF Mass Spectrometry. <i>Frontiers in Pharmacology</i> , 2020, 11, 220.	3.5	2
78	Mitochondrially Targeted Antioxidants Ameliorate Inflammatory Response and Tissue Injury Associated with Hepatic Ischemia-Reperfusion in Mice. <i>Free Radical Biology and Medicine</i> , 2012, 53, S113.	2.9	1
79	Abstract 251: miRNA Mapping of Cardiac Endothelial and Fibroblast Cells during Hypertrophy Progression. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, .	2.4	1
80	Novel insight into arrhythmogenic remodeling: a target for reversal. <i>Hypertension Research</i> , 2017, 40, 632-634.	2.7	0
81	Cannabidiol attenuates cisplatin-induced nephrotoxicity by decreasing oxidative/nitrosative stress, inflammation and cell death. <i>FASEB Journal</i> , 2009, 23, 617.5.	0.5	0
82	Clinical cell-based cardiac regeneration therapy in patients with ischemic heart failure. <i>Cardiologia Hungarica</i> , 2018, 48, 111-117.	0.1	0
83	The Role of Endocannabinoids and Their Receptors in the Control of Hepatic Functions. , 0, , 1091-1103.		0