Csaba Szabo

List of Publications by Citations

432 papers	36,977 citations	96 h-index	176 g-index
451 ext. papers	40,548 ext. citations	6.6 avg, IF	7.78 L-index

#	Paper	IF	Citations
432	Peroxynitrite: biochemistry, pathophysiology and development of therapeutics. *Nature Reviews Drug Discovery*, **2007**, 6, 662-80	64.1	1453
431	Hydrogen sulphide and its therapeutic potential. *Nature Reviews Drug Discovery*, **2007**, 6, 917-35	64.1	1396
430	The therapeutic potential of poly(ADP-ribose) polymerase inhibitors. *Pharmacological Reviews*, **2002**, 54, 375-429	22.5	1090
429	Hydrogen sulfide attenuates myocardial ischemia-reperfusion injury by preservation of mitochondrial function. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 15560-5	11.5	881
428	Therapeutic effects of xanthine oxidase inhibitors: renaissance half a century after the discovery of allopurinol. *Pharmacological Reviews*, **2006**, 58, 87-114	22.5	819
427	Poly(ADP-ribose) polymerase and the therapeutic effects of its inhibitors. *Nature Reviews Drug Discovery*, **2005**, 4, 421-40	64.1	691
426	Hydrogen sulfide is an endogenous stimulator of angiogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 21972-7	11.5	637
425	Decrease of the inflammatory response and induction of the Akt/protein kinase B pathway by poly-(ADP-ribose) polymerase 1 inhibitor in endotoxin-induced septic shock. *Biochemical Pharmacology*, **2003**, 65, 1373-82	6	599
424	Cardiac and metabolic effects of hypothermia and inhaled hydrogen sulfide in anesthetized and ventilated mice. *Critical Care Medicine*, **2010**, 38, 588-95	1.4	569
423	Diabetic endothelial dysfunction: the role of poly(ADP-ribose) polymerase activation. *Nature Medicine*, **2001**, 7, 108-13	50.5	544
422	Selective pharmacological inhibition of distinct nitric oxide synthase isoforms. *Biochemical Pharmacology*, **1996**, 51, 383-94	6	508
421	Inhibition of GAPDH activity by poly(ADP-ribose) polymerase activates three major pathways of hyperglycemic damage in endothelial cells. *Journal of Clinical Investigation*, **2003**, 112, 1049-57	15.9	488
420	Hydrogen sulfide and nitric oxide are mutually dependent in the regulation of angiogenesis and endothelium-dependent vasorelaxation. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 9161-6	11.5	471
419	Tumor-derived hydrogen sulfide, produced by cystathionine-β-synthase, stimulates bioenergetics, cell proliferation, and angiogenesis in colon cancer. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 12474-9	11.5	441
418	The pathophysiological role of peroxynitrite in shock, inflammation, and ischemia-reperfusion injury. *Shock*, **1996**, 6, 79-88	3.4	398
417	Multiple pathways of peroxynitrite cytotoxicity. *Toxicology Letters*, **2003**, 140-141, 105-12	4.4	372
416	DNA damage induced by peroxynitrite: subsequent biological effects. *Nitric Oxide - Biology and Chemistry*, **1997**, 1, 373-85	5	369

415	Peroxynitrite-induced cytotoxicity: mechanism and opportunities for intervention. *Toxicology Letters*, **2003**, 140-141, 113-24	4.4	327
414	Gasotransmitters in cancer: from pathophysiology to experimental therapy. *Nature Reviews Drug Discovery*, **2016**, 15, 185-203	64.1	323
413	Role of the peroxynitrite-poly(ADP-ribose) polymerase pathway in human disease. *American Journal of Pathology*, **2008**, 173, 2-13	5.8	291
412	Role of nitrosative stress and peroxynitrite in the pathogenesis of diabetic complications. Emerging new therapeutical strategies. *Current Medicinal Chemistry*, **2005**, 12, 267-75	4.3	270
411	Selectivity of commonly used pharmacological inhibitors for cystathionine synthase (CBS) and cystathionine lyase (CSE). *British Journal of Pharmacology*, **2013**, 169, 922-32	8.6	266
410	Therapeutic applications of PARP inhibitors: anticancer therapy and beyond. *Molecular Aspects of Medicine*, **2013**, 34, 1217-56	16.7	265
409	Inhibition of poly (ADP-ribose) synthetase attenuates neutrophil recruitment and exerts antiinflammatory effects. *Journal of Experimental Medicine*, **1997**, 186, 1041-9	16.6	265
408	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
407	The role of poly(ADP-ribose) polymerase activation in the development of myocardial and endothelial dysfunction in diabetes. *Diabetes*, **2002**, 51, 514-21	0.9	261
406	Regulation of mitochondrial bioenergetic function by hydrogen sulfide. Part I. Biochemical and physiological mechanisms. *British Journal of Pharmacology*, **2014**, 171, 2099-122	8.6	257
405	Intra-mitochondrial poly(ADP-ribosylation) contributes to NAD+ depletion and cell death induced by oxidative stress. *Journal of Biological Chemistry*, **2003**, 278, 18426-33	5.4	241
404	Potent metalloporphyrin peroxynitrite decomposition catalyst protects against the development of doxorubicin-induced cardiac dysfunction. *Circulation*, **2003**, 107, 896-904	16.7	240
403	Biology of nitric oxide signaling. *Critical Care Medicine*, **2000**, 28, N37-52	1.4	239
402	Role of poly(ADP-ribose) polymerase 1 (PARP-1) in cardiovascular diseases: the therapeutic potential of PARP inhibitors. *Cardiovascular Drug Reviews*, **2007**, 25, 235-60		238
401	Inosine inhibits inflammatory cytokine production by a posttranscriptional mechanism and protects against endotoxin-induced shock. *Journal of Immunology*, **2000**, 164, 1013-9	5.3	235
400	Protective effect of melatonin in carrageenan-induced models of local inflammation: relationship to its inhibitory effect on nitric oxide production and its peroxynitrite scavenging activity. *Journal of Pineal Research*, **1997**, 23, 106-16	10.4	225
399	Hydrogen sulfide replacement therapy protects the vascular endothelium in hyperglycemia by preserving mitochondrial function. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 13829-34	11.5	223
398	Intranuclear localization of apoptosis-inducing factor (AIF) and large scale DNA fragmentation after traumatic brain injury in rats and in neuronal cultures exposed to peroxynitrite. *Journal of Neurochemistry*, **2002**, 82, 181-91	6	223

397	Melatonin inhibits expression of the inducible isoform of nitric oxide synthase in murine macrophages: role of inhibition of NFkappaB activation. *FASEB Journal*, **1998**, 12, 685-93	0.9	221
396	MD-2 is required for disulfide HMGB1-dependent TLR4 signaling. *Journal of Experimental Medicine*, **2015**, 212, 5-14	16.6	214
395	Intramitochondrial hydrogen sulfide production by 3-mercaptopyruvate sulfurtransferase maintains mitochondrial electron flow and supports cellular bioenergetics. *FASEB Journal*, **2013**, 27, 601-11	4.9	205
394	Poly(ADP-ribose) polymerase is involved in the development of diabetic retinopathy via regulation of nuclear factor-kappaB. *Diabetes*, **2004**, 53, 2960-7	0.9	205
393	Endotoxin triggers the expression of an inducible isoform of nitric oxide synthase and the formation of peroxynitrite in the rat aorta in vivo. *FEBS Letters*, **1995**, 363, 235-8	3.8	202
392	Immunomodulatory and neuroprotective effects of inosine. *Trends in Pharmacological Sciences*, **2004**, 25, 152-7	13.2	198
391	Role of poly(ADP-ribose) polymerase activation in diabetic neuropathy. *Diabetes*, **2004**, 53, 711-20	0.9	195
390	Nitrosative stress and pharmacological modulation of heart failure. *Trends in Pharmacological Sciences*, **2005**, 26, 302-10	13.2	193
389	International Union of Basic and Clinical Pharmacology. CII: Pharmacological Modulation of HS Levels: HS Donors and HS Biosynthesis Inhibitors. *Pharmacological Reviews*, **2017**, 69, 497-564	22.5	191
388	Antiinflammatory effects of mercaptoethylguanidine, a combined inhibitor of nitric oxide synthase and peroxynitrite scavenger, in carrageenan-induced models of inflammation. *Free Radical Biology and Medicine*, **1998**, 24, 450-9	7.8	185
387	The potential role of peroxynitrite in the vascular contractile and cellular energetic failure in endotoxic shock. *British Journal of Pharmacology*, **1997**, 120, 259-67	8.6	184
386	Evaluation of the relative contribution of nitric oxide and peroxynitrite to the suppression of mitochondrial respiration in immunostimulated macrophages using a manganese mesoporphyrin superoxide dismutase mimetic and peroxynitrite scavenger. *FEBS Letters*, **1996**, 381, 82-6	3.8	182
385	Novel phenanthridinone inhibitors of poly (adenosine 5Pdiphosphate-ribose) synthetase: potent cytoprotective and antishock agents. *Critical Care Medicine*, **2002**, 30, 1071-82	1.4	174
384	A monobromobimane-based assay to measure the pharmacokinetic profile of reactive sulphide species in blood. *British Journal of Pharmacology*, **2010**, 160, 941-57	8.6	173
383	Poly(ADP-ribose) polymerase inhibitors. *Current Medicinal Chemistry*, **2003**, 10, 321-40	4.3	171
382	Activation of poly(ADP-Ribose) polymerase-1 is a central mechanism of lipopolysaccharide-induced acute lung inflammation. *American Journal of Respiratory and Critical Care Medicine*, **2002**, 165, 372-7	10.2	171
381	AP39, a novel mitochondria-targeted hydrogen sulfide donor, stimulates cellular bioenergetics, exerts cytoprotective effects and protects against the loss of mitochondrial DNA integrity in oxidatively stressed endothelial cells in vitro. *Nitric Oxide - Biology and Chemistry*, **2014**, 41, 120-30	5	168
380	Poly(ADP-ribose) polymerase-1 inhibition reverses temozolomide resistance in a DNA mismatch repair-deficient malignant glioma xenograft. *Molecular Cancer Therapeutics*, **2005**, 4, 1364-8	6.1	166

379	Potential role of poly(adenosine 5Pdiphosphate-ribose) polymerase activation in the pathogenesis of myocardial contractile dysfunction associated with human septic shock. *Critical Care Medicine*, **2006**, 34, 1073-9	1.4	163
378	Poly(ADP-Ribose) polymerase is activated in subjects at risk of developing type 2 diabetes and is associated with impaired vascular reactivity. *Circulation*, **2002**, 106, 2680-6	16.7	163
377	Hydrogen sulphide and angiogenesis: mechanisms and applications. *British Journal of Pharmacology* , **2011**, 164, 853-65	8.6	152
376	Poly(ADP-Ribose) polymerase inhibition reduces reperfusion injury after heart transplantation. *Circulation Research*, **2002**, 90, 100-6	15.7	152
375	Roles of hydrogen sulfide in the pathogenesis of diabetes mellitus and its complications. *Antioxidants and Redox Signaling*, **2012**, 17, 68-80	8.4	150
374	Suppression of macrophage inflammatory protein (MIP)-1alpha production and collagen-induced arthritis by adenosine receptor agonists. *British Journal of Pharmacology*, **1998**, 125, 379-87	8.6	150
373	Aldose reductase inhibition counteracts oxidative-nitrosative stress and poly(ADP-ribose) polymerase activation in tissue sites for diabetes complications. *Diabetes*, **2005**, 54, 234-42	0.9	147
372	Protective effects of mercaptoethylguanidine, a selective inhibitor of inducible nitric oxide synthase, in ligature-induced periodontitis in the rat. *British Journal of Pharmacology*, **1998**, 123, 353-60	8.6	145
371	The effects of therapeutic sulfide on myocardial apoptosis in response to ischemia-reperfusion injury. *European Journal of Cardio-thoracic Surgery*, **2008**, 33, 906-13	3	145
370	Beneficial effects of 3-aminobenzamide, an inhibitor of poly (ADP-ribose) synthetase in a rat model of splanchnic artery occlusion and reperfusion. *British Journal of Pharmacology*, **1997**, 121, 1065-74	8.6	144
369	The therapeutic potential of cystathionine □synthetase/hydrogen sulfide inhibition in cancer. *Antioxidants and Redox Signaling*, **2015**, 22, 424-48	8.4	142
368	Part I: Pathogenetic Role of Peroxynitrite in the Development of Diabetes and Diabetic Vascular Complications: Studies With FP15, A Novel Potent Peroxynitrite Decomposition Catalyst. *Molecular Medicine*, **2002**, 8, 571-580	6.2	142
367	Role of peroxynitrite in the pathogenesis of cardiovascular complications of diabetes. *Current Opinion in Pharmacology*, **2006**, 6, 136-41	5.1	140
366	Peroxynitrite-mediated oxidation of dihydrorhodamine 123 occurs in early stages of endotoxic and hemorrhagic shock and ischemia-reperfusion injury. *FEBS Letters*, **1995**, 372, 229-32	3.8	139
365	Toxicological and pathophysiological roles of reactive oxygen and nitrogen species. *Toxicology*, **2010**, 276, 85-94	4.4	138
364	Mercaptoethylguanidine and guanidine inhibitors of nitric-oxide synthase react with peroxynitrite and protect against peroxynitrite-induced oxidative damage. *Journal of Biological Chemistry*, **1997**, 272, 9030-6	5.4	138
363	Reduction of cognitive and motor deficits after traumatic brain injury in mice deficient in poly(ADP-ribose) polymerase. *Journal of Cerebral Blood Flow and Metabolism*, **1999**, 19, 835-42	7.3	137
362	Blockade of Poly(ADP-ribose) synthetase inhibits neutrophil recruitment, oxidant generation, and mucosal injury in murine colitis. *Gastroenterology*, **1999**, 116, 335-45	13.3	136

361	Role of poly(ADP-ribose) polymerase-1 activation in the pathogenesis of diabetic complications: endothelial dysfunction, as a common underlying theme. *Antioxidants and Redox Signaling*, **2005**, 7, 1568-80	8.4	133
360	Effect of poly(ADP ribose) synthetase inhibition on burn and smoke inhalation injury in sheep. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2003**, 285, L240-9	5.8	131
359	Role of nitrosative stress in the pathogenesis of diabetic vascular dysfunction. *British Journal of Pharmacology*, **2009**, 156, 713-27	8.6	130
358	Role for nitrosative stress in diabetic neuropathy: evidence from studies with a peroxynitrite decomposition catalyst. *FASEB Journal*, **2005**, 19, 401-3	0.9	127
357	Hydrogen Sulfide and Cancer. *Handbook of Experimental Pharmacology*, **2015**, 230, 233-41	3.2	126
356	Resistance to acute septic peritonitis in poly(ADP-ribose) polymerase-1-deficient mice. *Shock*, **2002**, 17, 286-92	3.4	125
355	Vascular biology of hydrogen sulfide. *American Journal of Physiology - Cell Physiology*, **2017**, 312, C537-C549	3.4	120
354	Opportunities for the repurposing of PARP inhibitors for the therapy of non-oncological diseases. *British Journal of Pharmacology*, **2018**, 175, 192-222	8.6	120
353	Hydrogen sulfide therapy attenuates the inflammatory response in a porcine model of myocardial ischemia/reperfusion injury. *Journal of Thoracic and Cardiovascular Surgery*, **2009**, 138, 977-84	1.5	120
352	Clinical perspectives of PARP inhibitors. *Pharmacological Research*, **2005**, 52, 109-18	10.2	120
351	Role of nitric oxide in vascular permeability after combined burns and smoke inhalation injury. *American Journal of Respiratory and Critical Care Medicine*, **2001**, 163, 745-52	10.2	120
350	A timeline of hydrogen sulfide (HS) research: From environmental toxin to biological mediator. *Biochemical Pharmacology*, **2018**, 149, 5-19	6	116
349	Bench-to-bedside review: Hydrogen sulfide--the third gaseous transmitter: applications for critical care. *Critical Care*, **2009**, 13, 213	10.8	115
348	Poly(ADP-ribose) polymerase inhibitors ameliorate nephropathy of type 2 diabetic Leprdb/db mice. *Diabetes*, **2006**, 55, 3004-12	0.9	114
347	S-Sulfhydration of ATP synthase by hydrogen sulfide stimulates mitochondrial bioenergetics. *Pharmacological Research*, **2016**, 113, 116-124	10.2	109
346	The role of H2S bioavailability in endothelial dysfunction. *Trends in Pharmacological Sciences*, **2015**, 36, 568-78	13.2	106
345	Role of peroxynitrite and neuronal nitric oxide synthase in the activation of poly(ADP-ribose) synthetase in a murine model of cerebral ischemia-reperfusion. *Neuroscience Letters*, **1998**, 248, 41-4	3.3	106
344	Anti-inflammatory effects of a novel, potent inhibitor of poly (ADP-ribose) polymerase. *Inflammation Research*, **2001**, 50, 561-9	7.2	106

343	Purines inhibit poly(ADP-ribose) polymerase activation and modulate oxidant-induced cell death. *FASEB Journal*, **2001**, 15, 99-107	0.9	103
342	Cardioprotective effects of hydrogen sulfide. *Nitric Oxide - Biology and Chemistry*, **2011**, 25, 201-10	5	102
341	Protective effect of hydrogen sulfide in a murine model of acute lung injury induced by combined burn and smoke inhalation. *Clinical Science*, **2008**, 115, 91-7	6.5	100
340	Hydrogen sulfide, an enhancer of vascular nitric oxide signaling: mechanisms and implications. *American Journal of Physiology - Cell Physiology*, **2017**, 312, C3-C15	5.4	98
339	Regulation of mitochondrial bioenergetic function by hydrogen sulfide. Part II. Pathophysiological and therapeutic aspects. *British Journal of Pharmacology*, **2014**, 171, 2123-46	8.6	98
338	Gaseotransmitters: new frontiers for translational science. *Science Translational Medicine*, **2010**, 2, 59ps54	17.5	97
337	Regulation of Vascular Tone, Angiogenesis and Cellular Bioenergetics by the 3-Mercaptopyruvate Sulfurtransferase/H2S Pathway: Functional Impairment by Hyperglycemia and Restoration by DL-□Lipoic Acid. *Molecular Medicine*, **2015**, 21, 1-14	6.2	96
336	Pathophysiological roles of peroxynitrite in circulatory shock. *Shock*, **2010**, 34 Suppl 1, 4-14	3.4	95
335	Left ventricular pressure-volume relationship in a rat model of advanced aging-associated heart failure. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 287, H2132-7	5.2	95
334	Pharmacologic inhibition of poly(adenosine diphosphate-ribose) polymerase may represent a novel therapeutic approach in chronic heart failure. *Journal of the American College of Cardiology*, **2002**, 40, 1006-16	15.1	94
333	Mitochondrial NO and reactive nitrogen species production: does mtNOS exist?. *Nitric Oxide - Biology and Chemistry*, **2006**, 14, 162-8	5	93
332	Identification of poly-ADP-ribosylated mitochondrial proteins after traumatic brain injury. *Journal of Neurochemistry*, **2008**, 104, 1700-11	6	91
331	Regulation of the expression of the inducible isoform of nitric oxide synthase. *Advances in Pharmacology*, **1995**, 34, 113-53	5.7	91
330	Hydrogen sulfide decreases adenosine triphosphate levels in aortic rings and leads to vasorelaxation via metabolic inhibition. *Life Sciences*, **2008**, 83, 589-94	6.8	90
329	Gender differences in the endotoxin-induced inflammatory and vascular responses: potential role of poly(ADP-ribose) polymerase activation. *Journal of Pharmacology and Experimental Therapeutics*, **2005**, 315, 812-20	4.7	89
328	An inhibitor of inducible nitric oxide synthase and scavenger of peroxynitrite prevents diabetes development in NOD mice. *Journal of Autoimmunity*, **2001**, 16, 449-55	15.5	89
327	Poly(ADP-Ribose) polymerase promotes cardiac remodeling, contractile failure, and translocation of apoptosis-inducing factor in a murine experimental model of aortic banding and heart failure. *Journal of Pharmacology and Experimental Therapeutics*, **2005**, 312, 891-8	4.7	88
326	Effect of hydrogen sulfide in a porcine model of myocardial ischemia-reperfusion: comparison of different administration regimens and characterization of the cellular mechanisms of protection. *Journal of Cardiovascular Pharmacology*, **2009**, 54, 287-97	3.1	87

325	A dual role for poly-ADP-ribosylation in spatial memory acquisition after traumatic brain injury in mice involving NAD+ depletion and ribosylation of 14-3-3gamma. *Journal of Neurochemistry*, **2003**, 85, 697-708	6	87
324	Poly (ADP-ribose) polymerase-1 is a key mediator of liver inflammation and fibrosis. *Hepatology*, **2014**, 59, 1998-2009	11.2	85
323	Rapid Rglycaemic swingsPinduce nitrosative stress, activate poly(ADP-ribose) polymerase and impair endothelial function in a rat model of diabetes mellitus. *Diabetologia*, **2009**, 52, 952-61	10.3	85
322	Poly(ADP-ribose) synthetase activation mediates increased permeability induced by peroxynitrite in Caco-2BBe cells. *Gastroenterology*, **1998**, 114, 510-8	13.3	85
321	Hemodynamic and metabolic effects of hydrogen sulfide during porcine ischemia/reperfusion injury. *Shock*, **2008**, 30, 359-64	3.4	85
320	Protective effect of a novel, potent inhibitor of poly(adenosine 5Pdiphosphate-ribose) synthetase in a porcine model of severe bacterial sepsis. *Critical Care Medicine*, **2002**, 30, 974-80	1.4	85
319	Dual role of poly(ADP-ribose) glycohydrolase in the regulation of cell death in oxidatively stressed A549 cells. *FASEB Journal*, **2009**, 23, 3553-63	0.9	84
318	Diabetes-induced overexpression of endothelin-1 and endothelin receptors in the rat renal cortex is mediated via poly(ADP-ribose) polymerase activation. *FASEB Journal*, **2003**, 17, 1514-6	0.9	84
317	Detection of exhaled hydrogen sulphide gas in healthy human volunteers during intravenous administration of sodium sulphide. *British Journal of Clinical Pharmacology*, **2010**, 69, 626-36	3.8	83
316	Role of poly(ADP-ribose)synthetase in inflammation. *European Journal of Pharmacology*, **1998**, 350, 1-19	5.3	82
315	Poly(ADP-ribose) polymerase inhibition: past, present and future. *Nature Reviews Drug Discovery*, **2020**, 19, 711-736	64.1	81
314	Potential role for 8-oxoguanine DNA glycosylase in regulating inflammation. *FASEB Journal*, **2005**, 19, 290-2	0.9	79
313	The synthesis and functional evaluation of a mitochondria-targeted hydrogen sulfide donor, (10-oxo-10-(4-(3-thioxo-3H-1,2-dithiol-5-yl)phenoxy)decyl)triphenylphosphonium bromide (AP39). *MedChemComm*, **2014**, 5, 728-736	5	78
312	Roles of poly(ADP-ribose) polymerase activation in the pathogenesis of diabetes mellitus and its complications. *Pharmacological Research*, **2005**, 52, 60-71	10.2	76
311	Protection by inhibition of poly (ADP-ribose) synthetase against oxidant injury in cardiac myoblasts In vitro. *Journal of Molecular and Cellular Cardiology*, **1997**, 29, 2585-97	5.8	75
310	A new, potent poly(ADP-ribose) polymerase inhibitor improves cardiac and vascular dysfunction associated with advanced aging. *Journal of Pharmacology and Experimental Therapeutics*, **2004**, 311, 485-91	4.7	75
309	Hydrogen sulfide-mediated stimulation of mitochondrial electron transport involves inhibition of the mitochondrial phosphodiesterase 2A, elevation of cAMP and activation of protein kinase A. *Biochemical Pharmacology*, **2013**, 86, 1311-9	6	74
308	Protective effects of 3-aminobenzamide, an inhibitor of poly (ADP-ribose) synthase in a carrageenan-induced model of local inflammation. *European Journal of Pharmacology*, **1998**, 342, 67-76	5.3	73

307	Effect of L-buthionine-(S,R)-sulphoximine, an inhibitor of gamma-glutamylcysteine synthetase on peroxynitrite- and endotoxic shock-induced vascular failure. *British Journal of Pharmacology*, **1998**, 123, 525-37	8.6	72
306	Inosine reduces systemic inflammation and improves survival in septic shock induced by cecal ligation and puncture. *American Journal of Respiratory and Critical Care Medicine*, **2001**, 164, 1213-20	10.2	72
305	Exogenous and endogenous catecholamines inhibit the production of macrophage inflammatory protein (MIP) 1 alpha via a beta adrenoceptor mediated mechanism. *British Journal of Pharmacology* , **1998**, 125, 1297-303	8.6	71
304	Angiotensin II-mediated endothelial dysfunction: role of poly(ADP-ribose) polymerase activation. *Molecular Medicine*, **2004**, 10, 28-35	6.2	71
303	Effect of genetic disruption of poly (ADP-ribose) synthetase on delayed production of inflammatory mediators and delayed necrosis during myocardial ischemia-reperfusion injury. *Shock*, **2000**, 13, 60-6	3.4	71
302	Part I: pathogenetic role of peroxynitrite in the development of diabetes and diabetic vascular complications: studies with FP15, a novel potent peroxynitrite decomposition catalyst. *Molecular Medicine*, **2002**, 8, 571-80	6.2	71
301	Endothelial dysfunction in aging animals: the role of poly(ADP-ribose) polymerase activation. *British Journal of Pharmacology*, **2002**, 135, 1347-50	8.6	70
300	AP39, A Mitochondrially Targeted Hydrogen Sulfide Donor, Exerts Protective Effects in Renal Epithelial Cells Subjected to Oxidative Stress in Vitro and in Acute Renal Injury in Vivo. *Shock*, **2016**, 45, 88-97	3.4	70
299	Poly(ADP-ribose) polymerase activation by reactive nitrogen species--relevance for the pathogenesis of inflammation. *Nitric Oxide - Biology and Chemistry*, **2006**, 14, 169-79	5	69
298	Poly (ADP-ribose) synthetase mediates intestinal mucosal barrier dysfunction after mesenteric ischemia. *Shock*, **2000**, 14, 134-41	3.4	69
297	Effect of S-adenosyl-L-methionine (SAM), an allosteric activator of cystathionine-β-synthase (CBS) on colorectal cancer cell proliferation and bioenergetics in vitro. *Nitric Oxide - Biology and Chemistry* , **2014**, 41, 146-56	5	68
296	Crucial role of apopain in the peroxynitrite-induced apoptotic DNA fragmentation. *Free Radical Biology and Medicine*, **1998**, 25, 1075-82	7.8	68
295	Inosine exerts a broad range of antiinflammatory effects in a murine model of acute lung injury. *Annals of Surgery*, **2002**, 235, 568-78	7.8	68
294	Discovery of potent poly(ADP-ribose) polymerase-1 inhibitors from the modification of indeno[1,2-c]isoquinolinone. *Journal of Medicinal Chemistry*, **2005**, 48, 5100-3	8.3	67
293	The therapeutic effects of PJ34 [N-(6-oxo-5,6-dihydrophenanthridin-2-yl)-N,N-dimethylacetamide.HCl], a selective inhibitor of poly(ADP-ribose) polymerase, in experimental allergic encephalomyelitis are associated with immunomodulation. *Journal of Pharmacology and Experimental Therapeutics*, **2004**, 310, 1053-61	4.7	67
292	Low-dose poly(ADP-ribose) polymerase inhibitor-containing combination therapies reverse early peripheral diabetic neuropathy. *Diabetes*, **2005**, 54, 1514-22	0.9	67
291	Role of endogenous and exogenous nitric oxide, carbon monoxide and hydrogen sulfide in HCT116 colon cancer cell proliferation. *Biochemical Pharmacology*, **2018**, 149, 186-204	6	66
290	Suppression of poly (ADP-ribose) polymerase activation by 3-aminobenzamide in a rat model of myocardial infarction: long-term morphological and functional consequences. *British Journal of Pharmacology*, **2001**, 133, 1424-30	8.6	66

289	Cellular bioenergetics is regulated by PARP1 under resting conditions and during oxidative stress. *Biochemical Pharmacology*, **2012**, 83, 633-43	6	65
288	Inhibition of poly (ADP-ribose) polymerase attenuates acute lung injury in an ovine model of sepsis. *Shock*, **2004**, 21, 126-33	3.4	65
287	Xanthine oxidase inhibitor allopurinol attenuates the development of diabetic cardiomyopathy. *Journal of Cellular and Molecular Medicine*, **2009**, 13, 2330-2341	5.6	64
286	Neuronal nitric oxide synthase inhibition attenuates cardiopulmonary dysfunctions after combined burn and smoke inhalation injury in sheep. *Critical Care Medicine*, **2008**, 36, 1196-204	1.4	64
285	Spontaneous rearrangement of aminoalkylisothioureas into mercaptoalkylguanidines, a novel class of nitric oxide synthase inhibitors with selectivity towards the inducible isoform. *British Journal of Pharmacology*, **1996**, 117, 619-32	8.6	64
284	Mitochondrial-to-nuclear translocation of apoptosis-inducing factor in cardiac myocytes during oxidant stress: potential role of poly(ADP-ribose) polymerase-1. *Cardiovascular Research*, **2004**, 63, 682-8	9.9	63
283	Upregulation of Cystathionine-β-Synthase in Colonic Epithelia Reprograms Metabolism and Promotes Carcinogenesis. *Cancer Research*, **2017**, 77, 5741-5754	10.1	62
282	Opposing roles of mitochondrial and nuclear PARP1 in the regulation of mitochondrial and nuclear DNA integrity: implications for the regulation of mitochondrial function. *Nucleic Acids Research*, **2014**, 42, 13161-73	20.1	62
281	The crucial role of IL-10 in the suppression of the immunological response in mice exposed to staphylococcal enterotoxin B. *European Journal of Immunology*, **1998**, 28, 1417-25	6.1	62
280	Contribution of poly(ADP-ribose) polymerase to postischemic blood-brain barrier damage in rats. *Journal of Cerebral Blood Flow and Metabolism*, **2007**, 27, 1318-26	7.3	62
279	Inhibition of hydrogen sulfide biosynthesis sensitizes lung adenocarcinoma to chemotherapeutic drugs by inhibiting mitochondrial DNA repair and suppressing cellular bioenergetics. *Scientific Reports*, **2016**, 6, 36125	4.9	61
278	Novel modulators of poly(ADP-ribose) polymerase. *Trends in Pharmacological Sciences*, **2006**, 27, 626-30	13.2	61
277	Oxidative stress suppresses the cellular bioenergetic effect of the 3-mercaptopyruvate sulfurtransferase/hydrogen sulfide pathway. *Biochemical and Biophysical Research Communications*, **2013**, 433, 401-7	3.4	60
276	Nitric oxide-peroxynitrite-poly(ADP-ribose) polymerase pathway in the skin. *Experimental Dermatology*, **2002**, 11, 189-202	4	60
275	Regulation of soluble guanylyl cyclase redox state by hydrogen sulfide. *Pharmacological Research*, **2016**, 111, 556-562	10.2	60
274	Mitochondrial DNA damage and subsequent activation of Z-DNA binding protein 1 links oxidative stress to inflammation in epithelial cells. *Scientific Reports*, **2018**, 8, 914	4.9	59
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