Csaba Szabo

List of Publications by Year in Descending Order

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	Overproduction of hydrogen sulfide, generated by cystathionine β-synthase, disrupts brain wave patterns and contributes to neurobehavioral dysfunction in a rat model of down syndrome.. *Redox Biology*, **2022**, 102233	11.3	7
431	Physiological roles of hydrogen sulfide in mammalian cells, tissues and organs.. *Physiological Reviews*, **2022**,	47.9	8
430	Emerging roles of cystathionine β-synthase in various forms of cancer. *Redox Biology*, **2022**, 102331	11.3	6
429	Effects of the PARP Inhibitor Olaparib on the Response of Human Peripheral Blood Leukocytes to Bacterial Challenge or Oxidative Stress. *Biomolecules*, **2022**, 12, 788	5.9	1
428	To the Editor. *Shock*, **2021**, 55, 138-139	3.4	3
427	Meta-analysis of gene expression patterns in Down syndrome highlights significant alterations in mitochondrial and bioenergetic pathways. *Mitochondrion*, **2021**, 57, 163-172	4.9	3
426	Host cystathionine-γ-lyase derived hydrogen sulfide protects against Pseudomonas aeruginosa sepsis. *PLoS Pathogens*, **2021**, 17, e1009473	7.6	2
425	Pharmacological induction of mesenchymal-epithelial transition via inhibition of H2S biosynthesis and consequent suppression of ACLY activity in colon cancer cells. *Pharmacological Research*, **2021**, 165, 105393	10.2	14
424	Novel Aryl-Substituted Pyrimidones as Inhibitors of 3-Mercaptopyruvate Sulfurtransferase with Antiproliferative Efficacy in Colon Cancer. *Journal of Medicinal Chemistry*, **2021**, 64, 6221-6240	8.3	6
423	Physiological concentrations of cyanide stimulate mitochondrial Complex IV and enhance cellular bioenergetics. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	10
422	Repurposing of Clinically Approved Poly-(ADP-Ribose) Polymerase Inhibitors for the Therapy of Sepsis. *Shock*, **2021**, 56, 901-909	3.4	3
421	Efficacy of Novel Aminooxyacetic Acid Prodrugs in Colon Cancer Models: Towards Clinical Translation of the Cystathionine β-Synthase Inhibition Concept. *Biomolecules*, **2021**, 11,	5.9	4
420	Arginine vasopressin receptor 2 activation promotes microvascular permeability in sepsis. *Pharmacological Research*, **2021**, 163, 105272	10.2	1
419	The mitochondria-targeted hydrogen sulfide donor AP39 improves health and mitochondrial function in a C. elegans primary mitochondrial disease model. *Journal of Inherited Metabolic Disease*, **2021**, 44, 367-375	5.4	4
418	H2S as a Therapeutic Adjuvant Against COVID-19: Why and How?. *Shock*, **2021**, 56, 865-867	3.4	3
417	Hydrogen Sulfide, an Endogenous Stimulator of Mitochondrial Function in Cancer Cells. *Cells*, **2021**, 10,	7.9	24
416	MST and the Regulation of Cardiac CSE and OTR Expression in Trauma and Hemorrhage. *Antioxidants*, **2021**, 10,	7.1	3

415	Selenium-Binding Protein 1 (SELENBP1) Supports Hydrogen Sulfide Biosynthesis and Adipogenesis. *Antioxidants*, **2021**, 10,	7.1	12
414	The two faces of cyanide: an environmental toxin and a potential novel mammalian gasotransmitter. *FEBS Journal*, **2021**,	5.7	6
413	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Catalytic receptors. *British Journal of Pharmacology*, **2021**, 178 Suppl 1, S264-S312	8.6	16
412	Effects of cold or warm ischemia and ex-vivo lung perfusion on the release of damage associated molecular patterns and inflammatory cytokines in experimental lung transplantation. *Journal of Heart and Lung Transplantation*, **2021**, 40, 905-916	5.8	3
411	Reply to Giamogante et al.: The effect of low cyanide on O consumption is best observed in physiological, rather than reductionist, systems. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	
410	Cystathionine-β-Synthase: Molecular Regulation and Pharmacological Inhibition. *Biomolecules*, **2020**, 10,	5.9	46
409	Blocking mineralocorticoid receptor with spironolactone may have a wide range of therapeutic actions in severe COVID-19 disease. *Critical Care*, **2020**, 24, 318	10.8	23
408	Role of 3-Mercaptopyruvate Sulfurtransferase in the Regulation of Proliferation, Migration, and Bioenergetics in Murine Colon Cancer Cells. *Biomolecules*, **2020**, 10,	5.9	28
407	Role of Akt Activation in PARP Inhibitor Resistance in Cancer. *Cancers*, **2020**, 12,	6.6	24
406	The re-emerging pathophysiological role of the cystathionine-β-synthase - hydrogen sulfide system in Down syndrome. *FEBS Journal*, **2020**, 287, 3150-3160	5.7	18
405	Role of 3-Mercaptopyruvate Sulfurtransferase in the Regulation of Proliferation and Cellular Bioenergetics in Human Down Syndrome Fibroblasts. *Biomolecules*, **2020**, 10,	5.9	14
404	The Antioxidative Role of Cytoglobin in Podocytes: Implications for a Role in Chronic Kidney Disease. *Antioxidants and Redox Signaling*, **2020**, 32, 1155-1171	8.4	17
403	Effects of the Poly(ADP-Ribose) Polymerase Inhibitor Olaparib in Cerulein-Induced Pancreatitis. *Shock*, **2020**, 53, 653-665	3.4	8
402	Mechanism of cystathionine-β-synthase inhibition by disulfiram: The role of bis(N,N-diethyldithiocarbamate)-copper(II). *Biochemical Pharmacology*, **2020**, 182, 114267	6	10
401	Poly(ADP-Ribose) Polymerase Inhibition in Acute Lung Injury. A Reemerging Concept. *American Journal of Respiratory Cell and Molecular Biology*, **2020**, 63, 571-590	5.7	9
400	Meta-analysis of metabolites involved in bioenergetic pathways reveals a pseudohypoxic state in Down syndrome. *Molecular Medicine*, **2020**, 26, 102	6.2	9
399	Hydrogen sulfide: An endogenous regulator of the immune system. *Pharmacological Research*, **2020**, 161, 105119	10.2	43
398	Poly(ADP-ribose) polymerase inhibition: past, present and future. *Nature Reviews Drug Discovery*, **2020**, 19, 711-736	64.1	81

397	Role of Hydrogen Sulfide and 3-Mercaptopyruvate Sulfurtransferase in the Regulation of the Endoplasmic Reticulum Stress Response in Hepatocytes. *Biomolecules*, **2020**, 10,	5.9	4
396	Potential role of the 3-mercaptopyruvate sulfurtransferase (3-MST)-hydrogen sulfide (HS) pathway in cancer cells. *Pharmacological Research*, **2020**, 154, 104083	10.2	42
395	3-Mercaptopyruvate sulfurtransferase supports endothelial cell angiogenesis and bioenergetics. *British Journal of Pharmacology*, **2020**, 177, 866-883	8.6	26
394	Cystathionine-γlyase (CSE) deficiency increases erythropoiesis and promotes mitochondrial electron transport via the upregulation of coproporphyrinogen III oxidase and consequent stimulation of heme biosynthesis. *Biochemical Pharmacology*, **2019**, 169, 113604	6	7
393	Nicotinamide mononucleotide (NMN) supplementation promotes anti-aging miRNA expression profile in the aorta of aged mice, predicting epigenetic rejuvenation and anti-atherogenic effects. *GeroScience*, **2019**, 41, 419-439	8.9	42
392	Overproduction of HS, generated by CBS, inhibits mitochondrial Complex IV and suppresses oxidative phosphorylation in Down syndrome. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 18769-18771	11.5	48
391	The PARP inhibitor olaparib exerts beneficial effects in mice subjected to cecal ligature and puncture and in cells subjected to oxidative stress without impairing DNA integrity: A potential opportunity for repurposing a clinically used oncological drug for the experimental therapy of sepsis. *Pharmacological Research*, **2019**, 145, 104263	10.2	13
390	Cystathionine γLyase Sulfhydrates the RNA Binding Protein Human Antigen R to Preserve Endothelial Cell Function and Delay Atherogenesis. *Circulation*, **2019**, 139, 101-114	16.7	59
389	Effect of 3-mercaptopyruvate Sulfurtransferase Deficiency on the Development of Multiorgan Failure, Inflammation, and Wound Healing in Mice Subjected to Burn Injury. *Journal of Burn Care and Research*, **2019**, 40, 148-156	0.8	7
388	Oxandrolone protects against the development of multiorgan failure, modulates the systemic inflammatory response and promotes wound healing during burn injury. *Burns*, **2019**, 45, 671-681	2.3	9
387	HS, a Bacterial Defense Mechanism against the Host Immune Response. *Infection and Immunity*, **2019**, 87,	3.7	35
386	PARP inhibition induces Akt-mediated cytoprotective effects through the formation of a mitochondria-targeted phospho-ATM-NEMO-Akt-mTOR signalosome. *Biochemical Pharmacology*, **2019**, 162, 98-108	6	18
385	The Effects of Genetic 3-Mercaptopyruvate Sulfurtransferase Deficiency in Murine Traumatic-Hemorrhagic Shock. *Shock*, **2019**, 51, 472-478	3.4	9
384	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
383	Development of a stretch-induced neurotrauma model for medium-throughput screening in vitro: identification of rifampicin as a neuroprotectant. *British Journal of Pharmacology*, **2018**, 175, 284-300	8.6	13
382	The clinically used PARP inhibitor olaparib improves organ function, suppresses inflammatory responses and accelerates wound healing in a murine model of third-degree burn injury. *British Journal of Pharmacology*, **2018**, 175, 232-245	8.6	19
381	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
380	Drug resistance induces the upregulation of HS-producing enzymes in HCT116 colon cancer cells. *Biochemical Pharmacology*, **2018**, 149, 174-185	6	49

379	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
378	A timeline of hydrogen sulfide (HS) research: From environmental toxin to biological mediator. *Biochemical Pharmacology*, **2018**, 149, 5-19	6	116
377	Potential Pharmacological Chaperones for Cystathionine Beta-Synthase-Deficient Homocystinuria. *Handbook of Experimental Pharmacology*, **2018**, 245, 345-383	3.2	23
376	Reduced adipose tissue HS in obesity. *Pharmacological Research*, **2018**, 128, 190-199	10.2	18
375	Early Inhibition of Fatty Acid Synthesis Reduces Generation of Memory Precursor Effector T Cells in Chronic Infection. *Journal of Immunology*, **2018**, 200, 643-656	5.3	18
374	Olaparib protects cardiomyocytes against oxidative stress and improves graft contractility during the early phase after heart transplantation in rats. *British Journal of Pharmacology*, **2018**, 175, 246-261	8.6	17
373	Cystathionine-□lyase expression is associated with mitochondrial respiration during sepsis-induced acute kidney injury in swine with atherosclerosis. *Intensive Care Medicine Experimental*, **2018**, 6, 43	3.7	9
372	Intravenous hydrogen sulfide does not induce neuroprotection after aortic balloon occlusion-induced spinal cord ischemia/reperfusion injury in a human-like porcine model of ubiquitous arteriosclerosis. *Intensive Care Medicine Experimental*, **2018**, 6, 44	3.7	3
371	Interaction of the hydrogen sulfide system with the oxytocin system in the injured mouse heart. *Intensive Care Medicine Experimental*, **2018**, 6, 41	3.7	13
370	Oxidative-Nitrative Stress and Poly (ADP-Ribose) Polymerase Activation 3 Years after Pregnancy. *Oxidative Medicine and Cellular Longevity*, **2018**, 2018, 1743253	6.7	4
369	Alterations in nitric oxide homeostasis during traumatic brain injury. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2017**, 1863, 2627-2632	6.9	29
368	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
367	HS-induced S-sulfhydration of lactate dehydrogenase a (LDHA) stimulates cellular bioenergetics in HCT116 colon cancer cells. *Biochemical Pharmacology*, **2017**, 136, 86-98	6	49
366	Inhibition of Mitochondrial Bioenergetics by Esterase-Triggered COS/HS Donors. *ACS Chemical Biology*, **2017**, 12, 2117-2123	4.9	54
365	Impact of hyperglycemia on cystathionine-□lyase expression during resuscitated murine septic shock. *Intensive Care Medicine Experimental*, **2017**, 5, 30	3.7	8
364	Cardiovascular disease and resuscitated septic shock lead to the downregulation of the HS-producing enzyme cystathionine-□lyase in the porcine coronary artery. *Intensive Care Medicine Experimental*, **2017**, 5, 17	3.7	21
363	Cystathionine-gamma-lyase deficient mice are protected against the development of multiorgan failure and exhibit reduced inflammatory response during burn. *Burns*, **2017**, 43, 1021-1033	2.3	18
362	Vascular biology of hydrogen sulfide. *American Journal of Physiology - Cell Physiology*, **2017**, 312, C537-C549	3.4	120

361	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
360	Hydrogen Sulfide Preserves Endothelial Nitric Oxide Synthase Function by Inhibiting Proline-Rich Kinase 2: Implications for Cardiomyocyte Survival and Cardioprotection. *Molecular Pharmacology*, **2017**, 92, 718-730	4.3	15
359	Upregulation of Cystathionine-Synthase in Colonic Epithelia Reprograms Metabolism and Promotes Carcinogenesis. *Cancer Research*, **2017**, 77, 5741-5754	10.1	62
358	Prolonging hypothermic ischaemic cardiac and vascular storage by inhibiting the activation of the nuclear enzyme poly(adenosine diphosphate-ribose) polymerase. *European Journal of Cardio-thoracic Surgery*, **2017**, 51, 829-835	3	5
357	Quantification of PARP Activity in Human Tissues: Ex Vivo Assays in Blood Cells and Immunohistochemistry in Human Biopsies. *Methods in Molecular Biology*, **2017**, 1608, 19-26	1.4	2
356	AQX-1125, small molecule SHIP1 activator inhibits bleomycin-induced pulmonary fibrosis. *British Journal of Pharmacology*, **2017**, 174, 3045-3057	8.6	10
355	Cooperative Interactions Between NO and H 2 S: Chemistry, Biology, Physiology, Pathophysiology **2017**, 57-83		7
354	Consensus Molecular Subtypes of Colorectal Cancer and their Clinical Implications **2017**, 3, 105-111		40
353	Tyrosine phosphorylation of eNOS regulates myocardial survival after an ischaemic insult: role of PYK2. *Cardiovascular Research*, **2017**, 113, 926-937	9.9	17
352	Sepsis induces telomere shortening: a potential mechanism responsible for delayed pathophysiological events in sepsis survivors?. *Molecular Medicine*, **2017**, 22, 886-891	6.2	13
351	Regulation and role of endogenously produced hydrogen sulfide in angiogenesis. *Pharmacological Research*, **2016**, 113, 175-185	10.2	59
350	S-Sulfhydration of ATP synthase by hydrogen sulfide stimulates mitochondrial bioenergetics. *Pharmacological Research*, **2016**, 113, 116-124	10.2	109
349	Screening of a composite library of clinically used drugs and well-characterized pharmacological compounds for cystathionine synthase inhibition identifies benserazide as a drug potentially suitable for repurposing for the experimental therapy of colon cancer. *Pharmacological Research*, **2016**, 113, 18-37	10.2	45
348	Effect of endotoxemia in mice genetically deficient in cystathionine-lyase, cystathionine-synthase or 3-mercaptopyruvate sulfurtransferase. *International Journal of Molecular Medicine*, **2016**, 38, 1683-1692	4.4	32
347	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
346	Hydrogen Sulfide Is an Antiviral and Antiinflammatory Endogenous Gasotransmitter in the Airways. Role in Respiratory Syncytial Virus Infection. *American Journal of Respiratory Cell and Molecular Biology*, **2016**, 55, 684-696	5.7	49
345	Hydrogen sulfide modulates chromatin remodeling and inflammatory mediator production in response to endotoxin, but does not play a role in the development of endotoxin tolerance. *Journal of Inflammation*, **2016**, 13, 10	6.7	12
344	Cardioprotection by H2S Donors: Nitric Oxide-Dependent and -Independent Mechanisms. *Journal of Pharmacology and Experimental Therapeutics*, **2016**, 358, 431-40	4.7	54

343	Gasotransmitters in cancer: from pathophysiology to experimental therapy. *Nature Reviews Drug Discovery*, **2016**, 15, 185-203	64.1	323
342	Mitochondrial poly(ADP-ribose) polymerase: The Wizard of Oz at work. *Free Radical Biology and Medicine*, **2016**, 100, 257-270	7.8	49
341	Differential acute and chronic effects of burn trauma on murine skeletal muscle bioenergetics. *Burns*, **2016**, 42, 112-122	2.3	14
340	Hydrogen Sulfide Contributes to Retinal Neovascularization in Ischemia-Induced Retinopathy **2016**, 57, 3002-9		16
339	Cystathionine-beta-synthase inhibition for colon cancer: Enhancement of the efficacy of aminooxyacetic acid via the prodrug approach. *Molecular Medicine*, **2016**, 22, 361-379	6.2	43
338	Glucocorticoids Suppress Mitochondrial Oxidant Production via Upregulation of Uncoupling Protein 2 in Hyperglycemic Endothelial Cells. *PLoS ONE*, **2016**, 11, e0154813	3.7	20
337	Intraluminal Flagellin Differentially Contributes to Gut Dysbiosis and Systemic Inflammation following Burn Injury. *PLoS ONE*, **2016**, 11, e0166770	3.7	11
336	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
335	Regulation of soluble guanylyl cyclase redox state by hydrogen sulfide. *Pharmacological Research*, **2016**, 111, 556-562	10.2	60
334	Delayed Treatment with Sodium Hydrosulfide Improves Regional Blood Flow and Alleviates Cecal Ligation and Puncture (CLP)-Induced Septic Shock. *Shock*, **2016**, 46, 183-93	3.4	29
333	H2S and cancer: Give credit where credit is due. *Urologic Oncology: Seminars and Original Investigations*, **2016**, 34, 334	2.8	3
332	Both the HS biosynthesis inhibitor aminooxyacetic acid and the mitochondrially targeted HS donor AP39 exert protective effects in a mouse model of burn injury. *Pharmacological Research*, **2016**, 113, 348-355	10.2	26
331	Role of hydrogen sulfide in paramyxovirus infections. *Journal of Virology*, **2015**, 89, 5557-68	6.6	45
330	Cardioprotection by H2S engages a cGMP-dependent protein kinase G/phospholamban pathway. *Cardiovascular Research*, **2015**, 106, 432-42	9.9	57
329	Hydrogen Sulfide and Cancer. *Handbook of Experimental Pharmacology*, **2015**, 230, 233-41	3.2	126
328	Biofilm Lysine Decarboxylase, a New Therapeutic Target for Periodontal Inflammation. *Journal of Periodontology*, **2015**, 86, 1176-84	4.6	8
327	The role of H2S bioavailability in endothelial dysfunction. *Trends in Pharmacological Sciences*, **2015**, 36, 568-78	13.2	106
326	The therapeutic potential of cystathionine β-synthetase/hydrogen sulfide inhibition in cancer. *Antioxidants and Redox Signaling*, **2015**, 22, 424-48	8.4	142

325	Salvage of nicotinamide adenine dinucleotide plays a critical role in the bioenergetic recovery of post-hypoxic cardiomyocytes. *British Journal of Pharmacology*, **2015**, 172, 4817-32	8.6	12
324	Regulation of Vascular Tone, Angiogenesis and Cellular Bioenergetics by the 3-Mercaptopyruvate Sulfurtransferase/H2S Pathway: Functional Impairment by Hyperglycemia and Restoration by DL-α-Lipoic Acid. *Molecular Medicine*, **2015**, 21, 1-14	6.2	96
323	Time-Dependent and Organ-Specific Changes in Mitochondrial Function, Mitochondrial DNA Integrity, Oxidative Stress and Mononuclear Cell Infiltration in a Mouse Model of Burn Injury. *PLoS ONE*, **2015**, 10, e0143730	3.7	51
322	Differentiation-Associated Downregulation of Poly(ADP-Ribose) Polymerase-1 Expression in Myoblasts Serves to Increase Their Resistance to Oxidative Stress. *PLoS ONE*, **2015**, 10, e0134227	3.7	37
321	The HIV Protease Inhibitor Saquinavir Inhibits HMGB1-Driven Inflammation by Targeting the Interaction of Cathepsin V with TLR4/MyD88. *Molecular Medicine*, **2015**, 21, 749-757	6.2	13
320	Upregulation and Mitochondrial Sequestration of Hemoglobin Occur in Circulating Leukocytes during Critical Illness, Conferring a Cytoprotective Phenotype. *Molecular Medicine*, **2015**, 21, 666-675	6.2	20
319	Hydrogen sulfide attenuates cytokine production through the modulation of chromatin remodeling. *International Journal of Molecular Medicine*, **2015**, 35, 1741-6	4.4	43
318	MD-2 is required for disulfide HMGB1-dependent TLR4 signaling. *Journal of Experimental Medicine*, **2015**, 212, 5-14	16.6	214
317	Pro-tumorigenic Effects of Hydrogen Sulfide (H2S) on Normal Colonic Fibroblasts (NCF) and Colorectal (CRC) Cancer-Associated Fibroblasts (CAF). *FASEB Journal*, **2015**, 29, 725.26	0.9	
316	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
315	Poly (ADP-ribose) polymerase-1 is a key mediator of liver inflammation and fibrosis. *Hepatology*, **2014**, 59, 1998-2009	11.2	85
314	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
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	Epalrestat induces cell proliferation and migration in endothelial cells via mTOR activation through PI3/Akt signaling. *Diabetology International*, **2014**, 5, 105-111	2.3	1
311	H2S during circulatory shock: some unresolved questions. *Nitric Oxide - Biology and Chemistry*, **2014**, 41, 48-61	5	47
310	Modulation of poly(ADP-ribose) polymerase-1 (PARP-1)-mediated oxidative cell injury by ring finger protein 146 (RNF146) in cardiac myocytes. *Molecular Medicine*, **2014**, 20, 313-28	6.2	21
309	Endothelial dysfunction is a potential contributor to multiple organ failure and mortality in aged mice subjected to septic shock: preclinical studies in a murine model of cecal ligation and puncture. *Critical Care*, **2014**, 18, 511	10.8	59
308	Regulation of mitochondrial poly(ADP-Ribose) polymerase activation by the β-adrenoceptor/cAMP/protein kinase A axis during oxidative stress. *Molecular Pharmacology*, **2014**, 86, 450-62	4.3	29

307	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
306	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
305	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
304	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
303	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
302	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
301	Aging exacerbates microvascular endothelial damage induced by circulating factors present in the serum of septic patients. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2013**, 68, 652-60	6.4	28
300	Cell-based screening identifies paroxetine as an inhibitor of diabetic endothelial dysfunction. *Diabetes*, **2013**, 62, 953-64	0.9	35
299	Characterization of AQX-1125, a small-molecule SHIP1 activator: Part 1. Effects on inflammatory cell activation and chemotaxis in vitro and pharmacokinetic characterization in vivo. *British Journal of Pharmacology*, **2013**, 168, 1506-18	8.6	41
298	Intramitochondrial hydrogen sulfide production by 3-mercaptopyruvate sulfurtransferase maintains mitochondrial electron flow and supports cellular bioenergetics. *FASEB Journal*, **2013**, 27, 601-11	9.9	205
297	Selectivity of commonly used pharmacological inhibitors for cystathionine β-synthase (CBS) and cystathionine γ-lyase (CSE). *British Journal of Pharmacology*, **2013**, 169, 922-32	8.6	266
296	Therapeutic applications of PARP inhibitors: anticancer therapy and beyond. *Molecular Aspects of Medicine*, **2013**, 34, 1217-56	16.7	265
295	Potential Role of Hydrogen Sulfide in the Pathogenesis of Vascular Dysfunction in Septic Shock. *Current Vascular Pharmacology*, **2013**, 11, 208-221	3.3	1
294	Characterization of AQX-1125, a small-molecule SHIP1 activator: Part 2. Efficacy studies in allergic and pulmonary inflammation models in vivo. *British Journal of Pharmacology*, **2013**, 168, 1519-29	8.6	38
293	Adenosine and inosine exert cytoprotective effects in an in vitro model of liver ischemia-reperfusion injury. *International Journal of Molecular Medicine*, **2013**, 31, 437-46	4.4	16
292	Role of poly(ADP-ribosyl)ation in a 'two-hit' model of hypoxia and oxidative stress in human A549 epithelial cells in vitro. *International Journal of Molecular Medicine*, **2013**, 32, 339-46	4.4	8
291	Identification of pharmacological modulators of HMGB1-induced inflammatory response by cell-based screening. *PLoS ONE*, **2013**, 8, e65994	3.7	27
290	Deficiency in repair of the mitochondrial genome sensitizes proliferating myoblasts to oxidative damage. *PLoS ONE*, **2013**, 8, e75201	3.7	29

289	Potential role of hydrogen sulfide in the pathogenesis of vascular dysfunction in septic shock. *Current Vascular Pharmacology*, **2013**, 11, 208-21	3.3	26
288	Cellular bioenergetics is regulated by PARP1 under resting conditions and during oxidative stress. *Biochemical Pharmacology*, **2012**, 83, 633-43	6	65
287	Thioglycine and L-thiovaline: biologically active H□S-donors. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 2675-8	3.4	49
286	Identification of agents that reduce renal hypoxia-reoxygenation injury using cell-based screening: purine nucleosides are alternative energy sources in LLC-PK1 cells during hypoxia. *Archives of Biochemistry and Biophysics*, **2012**, 517, 53-70	4.1	19
285	Roles of hydrogen sulfide in the pathogenesis of diabetes mellitus and its complications. *Antioxidants and Redox Signaling*, **2012**, 17, 68-80	8.4	150
284	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
283	Effects of FP15, a peroxynitrite decomposition catalyst on cardiac and pulmonary function after cardiopulmonary bypass. *European Journal of Cardio-thoracic Surgery*, **2012**, 41, 391-6	3	12
282	The outsiders: emerging roles of ectonucleotidases in inflammation. *Science Translational Medicine*, **2012**, 4, 146ps14	17.5	8
281	Temperature and cell-type dependency of sulfide effects on mitochondrial respiration. *Shock*, **2012**, 38, 367-74	3.4	24
280	Effects of intravenous sulfide during resuscitated porcine hemorrhagic shock*. *Critical Care Medicine*, **2012**, 40, 2157-67	1.4	38
279	Combined recombinant human activated protein C and ceftazidime prevent the onset of acute respiratory distress syndrome in severe sepsis. *Shock*, **2012**, 37, 170-6	3.4	4
278	Time profile of oxidative stress and neutrophil activation in ovine acute lung injury and sepsis. *Shock*, **2012**, 37, 468-72	3.4	30
277	Gamma-tocopherol nebulization attenuates acute lung injury with burn and smoke inhalation in the ovine model. *FASEB Journal*, **2012**, 26, 1137.12	0.9	
276	Aging exacerbates microvascular endothelial damage induced by inflammatory factors present in the circulation during sepsis. *FASEB Journal*, **2012**, 26, 1058.11	0.9	
275	The peroxynitrite catalyst WW-85 improves microcirculation in ovine smoke inhalation injury and septic shock. *Burns*, **2011**, 37, 842-50	2.3	11
274	Cardioprotective effects of hydrogen sulfide. *Nitric Oxide - Biology and Chemistry*, **2011**, 25, 201-10	5	102
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