

Emil Martin

List of Publications by Year in descending order

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56
papers

2,668
citations

257450

24
h-index

214800

47
g-index

58
all docs

58
docs citations

58
times ranked

3290
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 9161-9166.	7.1	572
2	Novel Effects of Nitric Oxide. Annual Review of Pharmacology and Toxicology, 2001, 41, 203-236.	9.4	525
3	Histone H1.2 is a substrate for denitrase, an activity that reduces nitrotyrosine immunoreactivity in proteins. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5634-5639.	7.1	120
4	Histidine-tagged RNA polymerase: dissection of the transcription cycle using immobilized enzyme. Gene, 1993, 130, 9-14.	2.2	117
5	A "Sliding Scale Rule" for Selectivity among NO, CO, and O ₂ by Heme Protein Sensors. Biochemistry, 2012, 51, 172-186.	2.5	91
6	Ligand Selectivity of Soluble Guanylyl Cyclase. Journal of Biological Chemistry, 2006, 281, 27836-27845.	3.4	83
7	Regulation of soluble guanylyl cyclase redox state by hydrogen sulfide. Pharmacological Research, 2016, 111, 556-562.	7.1	79
8	Cytochrome b5 Reductase 3 Modulates Soluble Guanylate Cyclase Redox State and cGMP Signaling. Circulation Research, 2017, 121, 137-148.	4.5	73
9	A Short History of cGMP, Guanylyl Cyclases, and cGMP-Dependent Protein Kinases. Handbook of Experimental Pharmacology, 2009, , 1-14.	1.8	72
10	Soluble Guanylyl Cyclase: The Nitric Oxide Receptor. Methods in Enzymology, 2005, 396, 478-492.	1.0	71
11	Mechanism of Binding of NO to Soluble Guanylyl Cyclase: Implication for the Second NO Binding to the Heme Proximal Site. Biochemistry, 2012, 51, 2737-2746.	2.5	69
12	A constitutively activated mutant of human soluble guanylyl cyclase (sGC): Implication for the mechanism of sGC activation. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9208-9213.	7.1	63
13	Kinetic and Cellular Characterization of Novel Inhibitors of S-Nitrosoglutathione Reductase. Journal of Biological Chemistry, 2009, 284, 24354-24362.	3.4	62
14	Role of soluble guanylyl cyclase "cyclic GMP signaling in tumor cell proliferation. Nitric Oxide - Biology and Chemistry, 2010, 22, 43-50.	2.7	57
15	How Do Heme-Protein Sensors Exclude Oxygen? Lessons Learned from Cytochrome c ₂ , Nostoc punctiforme Heme Nitric Oxide/Oxygen-Binding Domain, and Soluble Guanylyl Cyclase. Antioxidants and Redox Signaling, 2012, 17, 1246-1263.	5.4	57
16	Dynamic Ligand Exchange in Soluble Guanylyl Cyclase (sGC). Journal of Biological Chemistry, 2011, 286, 43182-43192.	3.4	52
17	±1 Soluble Guanylyl Cyclase (sGC) Splice Forms as Potential Regulators of Human sGC Activity. Journal of Biological Chemistry, 2008, 283, 15104-15113.	3.4	44
18	CCT1, a Novel Soluble Guanylyl Cyclase-interacting Protein. Journal of Biological Chemistry, 2004, 279, 46946-46953.	3.4	43

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19	Resonance Raman and Infrared Spectroscopic Studies of High-Output Forms of Human Soluble Guanylyl Cyclase. <i>Journal of the American Chemical Society</i> , 2005, 127, 4625-4631.	13.7	41
20	Stimulation of Inducible Nitric Oxide by Hepatitis B Virus Transactivator Protein HBx Requires MTA1 Coregulator. <i>Journal of Biological Chemistry</i> , 2010, 285, 6980-6986.	3.4	41
21	CCAAT-binding factor regulates expression of the β subunit of soluble guanylyl cyclase gene in the BE2 human neuroblastoma cell line. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11523-11528.	7.1	29
22	Restoring Soluble Guanylyl Cyclase Expression and Function Blocks the Aggressive Course of Glioma. <i>Molecular Pharmacology</i> , 2011, 80, 1076-1084.	2.3	29
23	Dynamic interplay between nitration and phosphorylation of tubulin cofactor B in the control of microtubule dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19470-19475.	7.1	28
24	Cobinamides Are Novel Coactivators of Nitric Oxide Receptor That Target Soluble Guanylyl Cyclase Catalytic Domain. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012, 340, 723-732.	2.5	25
25	The fibrate gemfibrozil is a NO - and haem-independent activator of soluble guanylyl cyclase: <i>in vitro</i> studies. <i>British Journal of Pharmacology</i> , 2015, 172, 2316-2329.	5.4	24
26	Erythrocytes do not activate purified and platelet soluble guanylate cyclases even in conditions favourable for NO synthesis. <i>Cell Communication and Signaling</i> , 2016, 14, 16.	6.5	22
27	Alternative splicing impairs soluble guanylyl cyclase function in aortic aneurysm. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H1565-H1575.	3.2	20
28	Hydrogen Peroxide Alters Splicing of Soluble Guanylyl Cyclase and Selectively Modulates Expression of Splicing Regulators in Human Cancer Cells. <i>PLoS ONE</i> , 2012, 7, e41099.	2.5	19
29	RNA splicing in regulation of nitric oxide receptor soluble guanylyl cyclase. <i>Nitric Oxide - Biology and Chemistry</i> , 2011, 25, 265-274.	2.7	17
30	The G-protein regulator LGN modulates the activity of the NO receptor soluble guanylate cyclase. <i>Biochemical Journal</i> , 2012, 446, 445-453.	3.7	16
31	Nitric Oxide Receptor Soluble Guanylyl Cyclase Undergoes Splicing Regulation in Differentiating Human Embryonic Cells. <i>Stem Cells and Development</i> , 2011, 20, 1287-1293.	2.1	14
32	The Role of Reactive Oxygen and Nitrogen Species in the Expression and Splicing of Nitric Oxide Receptor. <i>Antioxidants and Redox Signaling</i> , 2017, 26, 122-136.	5.4	14
33	A new paradigm for gaseous ligand selectivity of hemoproteins highlighted by soluble guanylate cyclase. <i>Journal of Inorganic Biochemistry</i> , 2021, 214, 111267.	3.5	12
34	Involvement of $5\text{-}\beta$ -cyclic inosine monophosphate in cystathionine β -lyase-dependent regulation of the vascular tone. <i>British Journal of Pharmacology</i> , 2021, 178, 3765-3782.	5.4	12
35	Synthesis of New Hydrophilic and Hydrophobic Cobinamides as NO-Independent sGC Activators. <i>ACS Medicinal Chemistry Letters</i> , 2012, 3, 476-479.	2.8	10
36	Protoporphyrin IX/Cobyrinate Derived Hybrids – Novel Activators of Soluble Guanylyl Cyclase. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 1530-1537.	2.4	8

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37	Vitamin B12 Derivatives as Activators of Soluble Guanylyl Cyclase. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 8943-8947.	6.4	6
38	Synthesis and Evaluation of Bifunctional sGC Regulators: Optimization of a Connecting Linker. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 7260-7277.	6.4	6
39	Small Alterations in Cobinamide Structure Considerably Influence sGC Activation. <i>ChemMedChem</i> , 2014, 9, 2344-2350.	3.2	5
40	Higher susceptibility to heme oxidation and lower protein stability of the rare $\hat{1}C517Y\hat{1}^21$ sGC variant associated with moyamoya syndrome. <i>Biochemical Pharmacology</i> , 2021, 186, 114459.	4.4	5
41	Gemfibrozil derivatives as activators of soluble guanylyl cyclase – A structure-activity study. <i>European Journal of Medicinal Chemistry</i> , 2021, 224, 113729.	5.5	3
42	Towards NO-free Regulation of sGC: Design and Synthesis of <i>trans</i> - $\hat{A}B\hat{A}$ -porphyrins. <i>Israel Journal of Chemistry</i> , 2016, 56, 156-168.	2.3	2
43	Homogeneous single-label cGMP detection platform for the functional study of nitric oxide-sensitive (soluble) guanylyl cyclases and cGMP-specific phosphodiesterases. <i>Scientific Reports</i> , 2020, 10, 17469.	3.3	2
44	ML355 Modulates Platelet Activation and Prevents ABT-737 Induced Apoptosis in Platelets. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2022, 381, 164-175.	2.5	2
45	Stimulation of inducible nitric oxide by hepatitis B virus transactivator protein-HBx requires MTA1 coregulator.. <i>Journal of Biological Chemistry</i> , 2017, 292, 4765.	3.4	1
46	FoxO4 controls sGC $\hat{1}^2$ transcription in vascular smooth muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022, 322, H417-H426.	3.2	1
47	New human $\alpha 1$ soluble guanylyl cyclase splice variants as potential regulators of sGC activity. <i>BMC Pharmacology</i> , 2007, 7, .	0.4	0
48	Hypertension: Basics Concepts and the Evolving Role of Novel Treatments. <i>Current Hypertension Reviews</i> , 2010, 6, 232-237.	0.9	0
49	G-protein regulator LGN inhibits the activity of soluble guanylyl cyclase. <i>BMC Pharmacology</i> , 2011, 11, .	0.4	0
50	Gemfibrozil as a potential heme-independent sGC activator. <i>BMC Pharmacology</i> , 2011, 11, .	0.4	0
51	Synthesis and evaluation of bifunctional sGC regulators. <i>BMC Pharmacology & Toxicology</i> , 2013, 14, .	2.4	0
52	Erythrocytes do not produce biologically active NO. <i>BMC Pharmacology & Toxicology</i> , 2015, 16, .	2.4	0
53	CBF regulates expression of the $\hat{1}^21$ sGC gene in the BE2 human neuroblastoma cells. <i>BMC News and Views</i> , 2003, 3, .	0.0	0
54	A constitutively active heme-deficient mutant of human soluble guanylyl cyclase: implication for the mechanism of sGC activation. <i>BMC News and Views</i> , 2003, 3, .	0.0	0

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55	Ca ²⁺ -protein regulator LGN inhibits the activity of nitric oxide receptor soluble guanylyl cyclase. FASEB Journal, 2011, 25, 958.1.	0.5	0
56	Role of Heme metabolism in the oxidative state of NO ⁺ -receptor soluble guanylyl cyclase (sGC) in aging mouse brain. FASEB Journal, 2020, 34, 1-1.	0.5	0