

# Andreas Friebe

## List of Publications by Year in descending order

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52  
papers

2,951  
citations

201674

27  
h-index

168389

53  
g-index

54  
all docs

54  
docs citations

54  
times ranked

3314  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of Nitric Oxide-Sensitive Guanylyl Cyclase. <i>Circulation Research</i> , 2003, 93, 96-105.	4.5	469
2	Sensitizing soluble guanylyl cyclase to become a highly CO-sensitive enzyme.. <i>EMBO Journal</i> , 1996, 15, 6863-6868.	7.8	321
3	Fatal gastrointestinal obstruction and hypertension in mice lacking nitric oxide-sensitive guanylyl cyclase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7699-7704.	7.1	208
4	Spare guanylyl cyclase NO receptors ensure high NO sensitivity in the vascular system. <i>Journal of Clinical Investigation</i> , 2006, 116, 1731-1737.	8.2	181
5	YC-1 Potentiates Nitric Oxide- and Carbon Monoxide-Induced Cyclic GMP Effects in Human Platelets. <i>Molecular Pharmacology</i> , 1998, 54, 962-967.	2.3	177
6	The function of NO-sensitive guanylyl cyclase: What we can learn from genetic mouse models. <i>Nitric Oxide - Biology and Chemistry</i> , 2009, 21, 149-156.	2.7	103
7	Nitric oxide-sensitive guanylyl cyclase is the only nitric oxide receptor mediating platelet inhibition. <i>Journal of Thrombosis and Haemostasis</i> , 2010, 8, 1343-1352.	3.8	102
8	Stimulation of the soluble guanylate cyclase (sGC) inhibits fibrosis by blocking non-canonical TGF $\beta$ signalling. <i>Annals of the Rheumatic Diseases</i> , 2015, 74, 1408-1416.	0.9	92
9	Smooth Muscle-Specific Deletion of Nitric Oxide-Sensitive Guanylyl Cyclase Is Sufficient to Induce Hypertension in Mice. <i>Circulation</i> , 2010, 121, 401-409.	1.6	89
10	Stimulation of soluble guanylyl cyclase protects against obesity by recruiting brown adipose tissue. <i>Nature Communications</i> , 2015, 6, 7235.	12.8	85
11	cGMP: a unique 2nd messenger molecule – recent developments in cGMP research and development. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2020, 393, 287-302.	3.0	82
12	Soluble guanylate cyclase as an alternative target for bronchodilator therapy in asthma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2355-62.	7.1	57
13	Integrative Control of Gastrointestinal Motility by Nitric Oxide. <i>Current Medicinal Chemistry</i> , 2016, 23, 2715-2735.	2.4	56
14	Nitric Oxide-Sensitive Guanylyl Cyclase Is Dispensable for Nitroergic Signaling and Gut Motility in Mouse Intestinal Smooth Muscle. <i>Gastroenterology</i> , 2011, 140, 1608-1617.	1.3	55
15	Interstitial cells of Cajal mediate nitroergic inhibitory neurotransmission in the murine gastrointestinal tract. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 307, G98-G106.	3.4	50
16	Cell-Specific Deletion of Nitric Oxide-Sensitive Guanylyl Cyclase Reveals a Dual Pathway for Nitroergic Neuromuscular Transmission in the Murine Fundus. <i>Gastroenterology</i> , 2013, 145, 188-196.	1.3	49
17	Cardioprotection by ischemic postconditioning and cyclic guanosine monophosphate-elevating agents involves cardiomyocyte nitric oxide-sensitive guanylyl cyclase. <i>Cardiovascular Research</i> , 2018, 114, 822-829.	3.8	43
18	Differentiation of cGMP-dependent and -independent nitric oxide effects on platelet apoptosis and reactive oxygen species production using platelets lacking soluble guanylyl cyclase. <i>Thrombosis and Haemostasis</i> , 2011, 106, 922-933.	3.4	42

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19	In Vivo Reconstitution of the Negative Feedback in Nitric Oxide/cGMP Signaling: Role of Phosphodiesterase Type 5 Phosphorylation. <i>Molecular Biology of the Cell</i> , 2004, 15, 4023-4030.	2.1	40
20	The enteric nervous system is a potential autoimmune target in multiple sclerosis. <i>Acta Neuropathologica</i> , 2017, 134, 281-295.	7.7	38
21	Desensitization of NO/cGMP Signaling in Smooth Muscle: Blood Vessels Versus Airways. <i>Molecular Pharmacology</i> , 2006, 69, 1969-1974.	2.3	37
22	Nitroergic signalling via interstitial cells of Cajal regulates motor activity in murine colon. <i>Journal of Physiology</i> , 2015, 593, 4589-4601.	2.9	37
23	Soluble Guanylate Cyclase Is Required for Systemic Vasodilation But Not Positive Inotropy Induced by Nitroxy in the Mouse. <i>Hypertension</i> , 2015, 65, 385-392.	2.7	36
24	Protein kinases G are essential downstream mediators of the antifibrotic effects of sGC stimulators. <i>Annals of the Rheumatic Diseases</i> , 2018, 77, 459-459.	0.9	33
25	Gastrointestinal dysfunction in autism displayed by altered motility and achalasia in <i>Foxp1</i> <sup>+/Δ</sup> mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22237-22245.	7.1	31
26	Dominant role of interstitial cells of Cajal in nitroergic relaxation of murine lower oesophageal sphincter. <i>Journal of Physiology</i> , 2015, 593, 403-414.	2.9	29
27	<sup>123</sup> I-Adrenoceptor redistribution impairs NO/cGMP/PDE2 signalling in failing cardiomyocytes. <i>ELife</i> , 2020, 9, .	6.0	28
28	Lack of effect of <i>ODQ</i> does not exclude <i>cGMP</i> signalling via <i>NO</i> -sensitive guanylyl cyclase. <i>British Journal of Pharmacology</i> , 2013, 170, 317-327.	5.4	27
29	Neuronal Nitric Oxide Synthase Modulates Maturation of Human Dendritic Cells. <i>Journal of Immunology</i> , 2010, 184, 6025-6034.	0.8	25
30	The sGC stimulator riociguat inhibits platelet function in washed platelets but not in whole blood. <i>British Journal of Pharmacology</i> , 2015, 172, 5199-5210.	5.4	25
31	NO-Sensitive Guanylate Cyclase Isoforms NO-GC1 and NO-GC2 Contribute to Noise-Induced Inner Hair Cell Synaptopathy. <i>Molecular Pharmacology</i> , 2017, 92, 375-388.	2.3	24
32	Toward a better understanding of gastrointestinal nitroergic neuromuscular transmission. <i>Neurogastroenterology and Motility</i> , 2014, 26, 901-912.	3.0	23
33	Optical control of a receptor-linked guanylyl cyclase using a photoswitchable peptidic hormone. <i>Chemical Science</i> , 2017, 8, 4644-4653.	7.4	23
34	The IgCAM CLMP is required for intestinal and ureteral smooth muscle contraction by regulating Connexin43 and 45 expression in mice. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	2.4	23
35	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
36	Nitroergic signaling via interstitial cells of Cajal and smooth muscle cells influences circular smooth muscle contractility in murine colon. <i>Neurogastroenterology and Motility</i> , 2018, 30, e13300.	3.0	22

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37	NO-GC in cells 'off the beaten track'. Nitric Oxide - Biology and Chemistry, 2018, 77, 12-18.	2.7	18
38	Cell-specific impact of nitric oxide-dependent guanylyl cyclase on arteriogenesis and angiogenesis in mice. Angiogenesis, 2015, 18, 245-254.	7.2	16
39	CrossTalk proposal: Interstitial cells are involved and physiologically important in neuromuscular transmission in the gut. Journal of Physiology, 2016, 594, 1507-1509.	2.9	15
40	Sildenafil Does Not Prevent Heart Hypertrophy and Fibrosis Induced by Cardiomyocyte Angiotensin II Type 1 Receptor Signaling. Journal of Pharmacology and Experimental Therapeutics, 2015, 354, 406-416.	2.5	14
41	Correlation of cellular expression with function of NO-sensitive guanylyl cyclase in the murine lower urinary tract. Journal of Physiology, 2013, 591, 5365-5375.	2.9	13
42	From bedside to bench" meeting report of the 7th International Conference on cGMP & cGMP: generators, effectors and therapeutic implications in Trier, Germany, from June 19th to 21st 2015. Naunyn-Schmiedeberg's Archives of Pharmacology, 2015, 388, 1237-1246.	3.0	13
43	The enhanced NO-induced cGMP response induced by long-term L-NAME treatment is not due to enhanced expression of NO-sensitive guanylyl cyclase. Vascular Pharmacology, 2003, 40, 161-165.	2.1	11
44	Cell-specific effects of nitric oxide on the efficiency and frequency of long distance contractions in murine colon. Neurogastroenterology and Motility, 2019, 31, e13589.	3.0	11
45	Phosphodiesterase 3A expression and activity in the murine vasculature is influenced by NO-sensitive guanylyl cyclase. Pflugers Archiv European Journal of Physiology, 2018, 470, 693-702.	2.8	10
46	Downregulation of the $\beta_1$ - and $\beta_2$ -subunit of sGC in Arterial Smooth Muscle Cells of OPSCC Is HPV-Independent. Journal of Dental Research, 2018, 97, 1214-1221.	5.2	8
47	NO-sensitive guanylyl cyclase in the lung. British Journal of Pharmacology, 2021, , .	5.4	8
48	Preserved fertility despite erectile dysfunction in mice lacking the nitric oxide receptor. Journal of Physiology, 2013, 591, 491-502.	2.9	6
49	Comparison of nitrergic signaling in circular and longitudinal smooth muscle of murine ileum. Neurogastroenterology and Motility, 2018, 30, e13175.	3.0	6
50	Rebuttal from Kenton M. Sanders, Sean M. Ward and Andreas Friebe. Journal of Physiology, 2016, 594, 1515-1515.	2.9	3
51	Inflammation in the Human Periodontium Induces Downregulation of the $\beta_1$ - and $\beta_2$ -Subunits of the sGC in Cementoclasts. International Journal of Molecular Sciences, 2021, 22, 539.	4.1	3
52	Reply. Gastroenterology, 2013, 145, 1161.	1.3	0