Fabiola Zakia MÃ³nica

List of Publications by Year
in descending order

80 papers	1,181 citations	471061 17 h-index	500791 28 g-index
81 all docs	81 docs citations	81 times ranked	1287 citing authors

#	Article	IF	Citations
1	The Endothelium-Dependent Nitric Oxideâ€“cGMP Pathway. Advances in Pharmacology, 2016, 77, 1-27.	1.2	71
2	Mirabegron relaxes urethral smooth muscle by a dual mechanism involving Î²₃â€adrenoceptor activation and Î±₁â€adrenoceptor blockade. British Journal of Pharmacology, 2016, 173, 415-428.	2.7	63
3	Functional, morphological and molecular characterization of bladder dysfunction in streptozotocinâ€induced diabetic mice: evidence of a role for Lâ€type voltageâ€operated Ca²⁺ channels. British Journal of Pharmacology, 2011, 163, 1276-1288.	2.7	49
4	Longâ€term nitric oxide deficiency causes muscarinic supersensitivity and reduces Î²₃â€adrenoceptorâ€mediated relaxation, causing rat detrusor overactivity. British Journal of Pharmacology, 2008, 153, 1659-1668.	2.7	44
5	Superoxide Anion Production by NADPH Oxidase Plays a Major Role in Erectile Dysfunction in Middle-Aged Rats: Prevention by Antioxidant Therapy. Journal of Sexual Medicine, 2013, 10, 960-971.	0.3	43
6	Stimulators and activators of soluble guanylate cyclase for urogenital disorders. Nature Reviews Urology, 2018, 15, 42-54.	1.9	39
7	Effect of Polyphenols From Campomanesia adamantium on Platelet Aggregation and Inhibition of Cyclooxygenases: Molecular Docking and in Vitro Analysis. Frontiers in Pharmacology, 2018, 9, 617.	1.6	38
8	Insulin relaxes bladder via PI3K/AKT/eNOS pathway activation in mucosa: unfolded protein responseâ€dependent insulin resistance as a cause of obesityâ€associated overactive bladder. Journal of Physiology, 2013, 591, 2259-2273.	1.3	35
9	The Soluble Guanylyl Cyclase Activator BAY 60-2770 Ameliorates Overactive Bladder in Obese Mice. Journal of Urology, 2014, 191, 539-547.	0.2	35
10	Soluble Guanylyl Cyclase (sGC) Degradation and Impairment of Nitric Oxide-Mediated Responses in Urethra from Obese Mice: Reversal by the sGC Activator BAY 60-2770. Journal of Pharmacology and Experimental Therapeutics, 2014, 349, 2-9.	1.3	34
11	The beta-3 adrenoceptor agonist, mirabegron relaxes isolated prostate from human and rabbit: New therapeutic indication?. Prostate, 2015, 75, 440-447.	1.2	33
12	Activation of Haem-Oxidized Soluble Guanylyl Cyclase with BAY 60-2770 in Human Platelets Lead to Overstimulation of the Cyclic GMP Signaling Pathway. PLoS ONE, 2012, 7, e47223.	1.1	29
13	Role of PKC and CaV1.2 in Detrusor Overactivity in a Model of Obesity Associated with Insulin Resistance in Mice. PLoS ONE, 2012, 7, e48507.	1.1	29
14	Activation of soluble guanylyl cyclase by BAY 58-2667 improves bladder function in cyclophosphamide-induced cystitis in mice. American Journal of Physiology - Renal Physiology, 2016, 311, F85-F93.	1.3	28
15	Tadalafil for the treatment of benign prostatic hyperplasia. Expert Opinion on Pharmacotherapy, 2019, 20, 929-937.	0.9	25
16	Evaluation of the relaxant effect of the nitric oxide-independent soluble guanylyl cyclase stimulator BAY 41-2272 in isolated detrusor smooth muscle. European Journal of Pharmacology, 2010, 637, 171-177.	1.7	22
17	Pharmacological characterisation of the relaxation induced by the soluble guanylate cyclase activator, BAY 60-2770 in rabbit corpus cavernosum. BJU International, 2015, 116, 657-664.	1.3	22
18	6-Nitrodopamine is released by human umbilical cord vessels and modulates vascular reactivity. Life Sciences, 2021, 276, 119425.	2.0	21

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19	Prolonged Therapy with the Soluble Guanylyl Cyclase Activator BAY 60-2770 Restores the Erectile Function in Obese Mice. Journal of Sexual Medicine, 2014, 11, 2661-2670.	0.3	19
20	The sodium-glucose cotransporter-2 (SGLT2) inhibitors synergize with nitric oxide and prostacyclin to reduce human platelet activation. Biochemical Pharmacology, 2020, 182, 114276.	2.0	19
21	Longâ€term administration of BAY 41â€2272 prevents bladder dysfunction in nitric oxideâ€deficient rats. Neurourology and Urodynamics, 2011, 30, 456-460.	0.8	16
22	Longâ€term treatment with the betaâ€3 adrenoceptor agonist, mirabegron ameliorates detrusor overactivity and restores cyclic adenosine monophosphate (cAMP) levels in obese mice. Neurourology and Urodynamics, 2017, 36, 1511-1518.	0.8	16
23	Deletion or pharmacological blockade of TLR4 confers protection against cyclophosphamide-induced mouse cystitis. American Journal of Physiology - Renal Physiology, 2018, 315, F460-F468.	1.3	16
24	Long-term methylglyoxal intake aggravates murine Th2-mediated airway eosinophil infiltration. International Immunopharmacology, 2020, 81, 106254.	1.7	16
25	Longâ€term oral treatment with BAY 41â€2272 ameliorates impaired corpus cavernosum relaxations in a nitric oxideâ€deficient rat model. BJU International, 2011, 108, 116-122.	1.3	15
26	Increased contractility and impaired relaxation of the left pulmonary artery in a rabbit model of congenital diaphragmatic hernia. Pediatric Surgery International, 2013, 29, 489-494.	0.6	15
27	6-Nitrodopamine is an endogenous mediator of rat isolated epididymal vas deferens contractions induced by electric-field stimulation. European Journal of Pharmacology, 2021, 911, 174544.	1.7	14
28	Mechanisms of relaxant activity of the nitric oxide-independent soluble guanylyl cyclase stimulator BAY 41-2272 in rat tracheal smooth muscle. European Journal of Pharmacology, 2010, 645, 158-164.	1.7	13
29	Characterization of the urinary bladder dysfunction in renovascular hypertensive rats. Neurourology and Urodynamics, 2011, 30, 1392-1402.	0.8	13
30	Role of a Novel Tetrodotoxin-Resistant Sodium Channel in the Nitrergic Relaxation of Corpus Cavernosum from the South American Rattlesnake Crotalus Durissus Terrificus. Journal of Sexual Medicine, 2011, 8, 1616-1625.	0.3	12
31	The reninâ€“angiotensin system plays a major role in voiding dysfunction of ovariectomized rats. Life Sciences, 2013, 93, 820-829.	2.0	12
32	Activation of soluble guanylyl cyclase with inhibition of multidrug resistance protein inhibitor-4 (MRP4) as a new antiplatelet therapy. Biochemical Pharmacology, 2018, 152, 165-173.	2.0	12
33	Autonomic dysregulation at multiple sites is implicated in ageâ€associated underactive bladder in female mice. Neurourology and Urodynamics, 2019, 38, 1212-1221.	0.8	12
34	Urinary Bladder Dysfunction in Transgenic Sickle Cell Disease Mice. PLoS ONE, 2015, 10, e0133996.	1.1	12
35	Epigenetic regulation of soluble guanylate cyclase (sGC) Î²1 in breast cancer cells. FASEB Journal, 2016, 30, 3171-3180.	0.2	11
36	Electrical field stimulation-induced contractions on Pantherophis guttatus corpora cavernosa and aortae. PLoS ONE, 2018, 13, e0196123.	1.1	11

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37	Endotheliumâ€derived dopamine modulates EFSâ€induced contractions of human umbilical vessels. Pharmacology Research and Perspectives, 2020, 8, e00612.	1.1	11
38	Alpha1-adrenergic antagonists block 6-nitrodopamine contractions on the rat isolated epididymal vas deferens. European Journal of Pharmacology, 2022, 915, 174716.	1.7	11
39	Vas deferens smooth muscle responses to the nitric oxide-independent soluble guanylate cyclase stimulator BAY 41â€2272. European Journal of Pharmacology, 2012, 688, 49-55.	1.7	10
40	The Evolutionary Implications of Hemipenial Morphology of Rattlesnake Crotalus durissus terrificus (Laurent, 1768) (Serpentes: Viperidae: Crotalinae). PLoS ONE, 2013, 8, e66903.	1.1	10
41	Increased Rho-kinase-mediated prostate contractions associated with impairment of Î²-adrenergic-cAMP-signaling pathway by chronic nitric oxide deficiency. European Journal of Pharmacology, 2015, 758, 24-30.	1.7	10
42	Inhibition of Multidrug Resistance Proteins by MK 571 Enhances Bladder, Prostate, and Urethra Relaxation through cAMP or cGMP Accumulation. Journal of Pharmacology and Experimental Therapeutics, 2018, 367, 138-146.	1.3	10
43	Electrical field stimulation induces endothelium-dependent contraction of human umbilical cord vessels. Life Sciences, 2020, 243, 117257.	2.0	10
44	6-Nitrodopamine is an endogenous selective dopamine receptor antagonist in Chelonoidis carbonaria aorta. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2022, 260, 109403.	1.3	10
45	Electrical field-induced contractions on Crotalus durissus terrificus and Bothrops jararaca aortae are caused by endothelium-derived catecholamine. PLoS ONE, 2018, 13, e0203573.	1.1	9
46	Influence of the periprostatic adipose tissue in obesity-associated mouse urethral dysfunction and oxidative stress: Effect of resveratrol treatment. European Journal of Pharmacology, 2018, 836, 25-33.	1.7	9
47	Methylglyoxal, a Reactive Glucose Metabolite, Induces Bladder Overactivity in Addition to Inflammation in Mice. Frontiers in Physiology, 2020, 11, 290.	1.3	9
48	Endothelium modulates electrical field stimulation-induced contractions of Chelonoidis carbonaria aortic rings. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2020, 233, 108763.	1.3	9
49	Rutin present in Alibertia edulis extract acts on human platelet aggregation through inhibition of cyclooxygenase/thromboxane. Food and Function, 2021, 12, 802-814.	2.1	9
50	The effects of mirabegron on obesityâ€induced inflammation and insulin resistance are associated with brown adipose tissue activation but not beiging in the subcutaneous white adipose tissue. Clinical and Experimental Pharmacology and Physiology, 2021, 48, 1477-1487.	0.9	9
51	Immunohistochemical and functional characterization of nitric oxide signaling pathway in isolated aorta from Crotalus durissus terrificus. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2012, 155, 433-439.	1.3	8
52	Soluble Guanylate Cyclase Modulators, BAY 41-2272 and BAY 60-2770, Inhibit Human and Rabbit Prostate Contractility. Urology, 2016, 94, 312.e9-312.e15.	0.5	8
53	Mirabegron elicits rat corpus cavernosum relaxation and increases in vivo erectile response. European Journal of Pharmacology, 2019, 858, 172447.	1.7	8
54	Pharmacological and transcriptomic characterization of the nitric oxide pathway in aortic rings isolated from the tortoise Chelonoidis carbonaria. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2019, 222, 82-89.	1.3	8

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55	Methylglyoxal Exacerbates Lipopolysaccharide-Induced Acute Lung Injury via RAGE-Induced ROS Generation: Protective Effects of Metformin. Journal of Inflammation Research, 2021, Volume 14, 6477-6489.	1.6	8
56	Effect of acute administration of sildenafil to rats with detrusor overactivity induced by chronic deficiency of nitric oxide. International Braz J Urol: Official Journal of the Brazilian Society of Urology, 2013, 39, 268-275.	0.7	7
57	Blockade of reninâ€“angiotensin system prevents micturition dysfunction in renovascular hypertensive rats. European Journal of Pharmacology, 2014, 738, 285-292.	1.7	7
58	Tetrodotoxin-insensitive electrical field stimulation-induced contractions on Crotalus durissus terrificus corpus cavernosum. PLoS ONE, 2017, 12, e0183766.	1.1	7
59	Menthol ameliorates voiding dysfunction in types I and II diabetic mouse model. Neurourology and Urodynamics, 2018, 37, 2510-2518.	0.8	7
60	The Role of Periprostatic Adipose Tissue on Prostate Function in Vascular-Related Disorders. Frontiers in Pharmacology, 2021, 12, 626155.	1.6	7
61	Enhanced RAGE Expression and Excess Reactive-Oxygen Species Production Mediates Rho Kinase-Dependent Detrusor Overactivity After Methylglyoxal Exposure. Frontiers in Physiology, 2022, 13, 860342.	1.3	7
62	Î²1- and Î²1/Î²2-adrenergic receptor antagonists block 6-nitrodopamine-induced contractions of the rat isolated epididymal vas deferens. Naunyn-Schmiedeberg's Archives of Pharmacology, 2022, 395, 1257-1268.	1.4	7
63	Effects of nitric oxide inhibitors in mice with bladder outlet obstruction. International Braz J Urol: Official Journal of the Brazilian Society of Urology, 2017, 43, 356-366.	0.7	6
64	Preserved activity of soluble guanylate cyclase (sGC) in iliac artery from middle-aged rats: Role of sGC modulators. Nitric Oxide - Biology and Chemistry, 2021, 106, 9-16.	1.2	6
65	Metformin abrogates the voiding dysfunction induced by prolonged methylglyoxal intake. European Journal of Pharmacology, 2021, 910, 174502.	1.7	6
66	The cholinergic response is increased in isolated ileum from gastroschisis rat model. Pediatric Surgery International, 2011, 27, 1015-1019.	0.6	5
67	Deficiency of ARHGAP21 alters megakaryocytic cell lineage responses and enhances platelet hemostatic function. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 119012.	1.9	4
68	BAY 41-2272, a Soluble Guanylate Cyclase Stimulator, Relaxes Isolated Human Ureter in a Standardized InÂVitro Model. Urology, 2014, 83, 256.e1-256.e7.	0.5	3
69	The basal release of endothelium-derived catecholamines regulates the contractions of Chelonoidis carbonaria aorta caused by electrical-field stimulation. Biology Open, 2020, 10, .	0.6	3
70	Adenosine diphosphateâ€induced aggregation is enhanced in platelets obtained from patients with thrombotic primary antiphospholipid syndrome (tâ€PAPS): Role of P2Y12â€cAMP signaling pathway. Journal of Thrombosis and Haemostasis, 2022, 20, 1699-1711.	1.9	3
71	Hydrochlorothiazide Potentiates Contractile Activity of Mouse Cavernosal Smooth Muscle. Sexual Medicine, 2016, 4, e115-e125.	0.9	2
72	Mirabegron, a Î² 3 -adrenoceptor agonist reduced platelet aggregation through cyclic adenosine monophosphate accumulation. European Journal of Pharmacology, 2018, 829, 79-84.	1.7	2

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73	Administration of BAY 41-2272 prevents bladder dysfunction in nitric-oxide deficient rats. Einstein (Sao) Tj ETQq1 1 0.784314 rgBT /Ove	0.3	1
74	Guanosine, a guanine-based nucleoside relaxed isolated corpus cavernosum from mice through cGMP accumulation. Purinergic Signalling, 2020, 16, 241-249.	1.1	1
75	NEW BASIC PATHOPHYSIOLOGY PARADIGM TO EXPLAIN THE ETIOLOGY OF LOWER URINARY TRACT SYMPTOMS AND THE POTENTIAL OF PDE5 INHIBITORS FOR TREATMENT OF VOID DYSFUNCTION. Journal of Urology, 2008, 179, 702-702.	0.2	0
76	440 LONG-TERM ADMINISTRATION OF THE NITRIC OXIDE-INDEPENDENT SOLUBLE GUANYLATE CYCLASE ACTIVATOR BAY PREVENTS RAT DETRUSOR OVERACTIVITY. Journal of Urology, 2010, 183, .	0.2	0
77	2055 MECHANISMS OF RELAXANT ACTIVITY OF THE NITRIC OXIDE-INDEPENDENT SOLUBLE GUANYLYL CYCLASE STIMULATOR BAY 41-2272 IN ISOLATED HUMAN URETER: AN IN VITRO STUDY. Journal of Urology, 2011, 185, .	0.2	0
78	The soluble guanylyl cyclase activator BAY 60-2770 ameliorates detrusor dysfunction in obese mice. BMC Pharmacology & Toxicology, 2013, 14, .	1.0	0
79	Erectile Dysfunction and the Endothelium. , 2018, , 629-637.		0
80	MK 571, a multidrug resistance protein inhibitor, reduces uterus smooth muscle contractility in rats. , 0, , .		0