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**PDE5 inhibitors: in vitro and in vivo pharmacological profile**

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#	Paper	IF	Citations
58	cGMP-dependent protein kinases and cGMP phosphodiesterases in nitric oxide and cGMP action. <i>Pharmacological Reviews</i> , <b>2010</b> , 62, 525-63	22.5	677
57	Use of udenafil is not associated with a reduction in post-ERCP pancreatitis: results of a randomized, placebo-controlled, multicenter trial. <i>Gastrointestinal Endoscopy</i> , <b>2011</b> , 74, 556-62	5.2	11
56	Different effects of different phosphodiesterase type-5 inhibitors in pre-eclampsia. <i>Pregnancy Hypertension</i> , <b>2011</b> , 1, 231-7	2.6	5
55	Mechanisms of penile erection and basis for pharmacological treatment of erectile dysfunction. <i>Pharmacological Reviews</i> , <b>2011</b> , 63, 811-59	22.5	213
54	Dynamic observation of penile hemodynamic change in patients with vasculogenic erectile dysfunction after prostaglandin E1 treatment. <i>Scientific Research and Essays</i> , <b>2011</b> , 6, 3770-3775	0.7	
53	Long-term efficacy and safety of self-intracavernous injection of prostaglandin E1 for treatment of erectile dysfunction in China. <i>Andrologia</i> , <b>2011</b> , 43, 208-12	2.4	7
52	Phosphodiesterase type 5 (PDE5) inhibitors in erectile dysfunction: the proper drug for the proper patient. <i>Journal of Sexual Medicine</i> , <b>2011</b> , 8, 3418-32	1.1	71
51	Efficacy and safety of once-daily dosing of udenafil in the treatment of erectile dysfunction: results of a multicenter, randomized, double-blind, placebo-controlled trial. <i>European Urology</i> , <b>2011</b> , 60, 380-7	10.2	46
50	High-performance liquid chromatographic method with amperometric detection employing boron-doped diamond electrode for the determination of sildenafil, vardenafil and their main metabolites in plasma. <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 7996-8001	4.5	20
49	Novel phosphodiesterase type 5 modulators: a patent survey (2008 - 2010). <i>Expert Opinion on Therapeutic Patents</i> , <b>2011</b> , 21, 1631-41	6.8	19
48	Design, synthesis, and pharmacological evaluation of monocyclic pyrimidinones as novel inhibitors of PDE5. <i>Journal of Medicinal Chemistry</i> , <b>2012</b> , 55, 10540-50	8.3	24
47	The discovery of UK-369003, a novel PDE5 inhibitor with the potential for oral bioavailability and dose-proportional pharmacokinetics. <i>Bioorganic and Medicinal Chemistry</i> , <b>2012</b> , 20, 498-509	3.4	16
46	ULTIMATE-SHF trial (Udenafil Therapy to Improve symptoMAtology, exercise Tolerance and hEmodynamics in patients with chronic systolic heart failure): study protocol for a randomized, placebo-controlled, double-blind trial. <i>Trials</i> , <b>2013</b> , 14, 188	2.8	7
45	A one-pot, three-component, microwave-promoted synthesis of 2-amino-substituted 7-amino-1,2,4-triazolo[1,5-a][1,3,5]triazines. <i>Tetrahedron Letters</i> , <b>2013</b> , 54, 5537-5540	2	21
44	Efficacy and tolerability of udenafil in Turkish men with erectile dysfunction of psychogenic and organic aetiology: a randomized, double-blind, placebo-controlled study. <i>Andrology</i> , <b>2013</b> , 1, 549-55	4.2	8
43	Tadalafil-induced tonic-clonic seizures in a 23-year-old man. <i>Epilepsy and Behavior</i> , <b>2013</b> , 28, 519-20	3.2	7
42	Inhibition of calpain-regulated p35/cdk5 plays a central role in sildenafil-induced protection against chemical hypoxia produced by malonate. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2013</b> , 1832, 705-17	6.9	17

41	Erectile dysfunction. <i>Lancet, The</i> , <b>2013</b> , 381, 153-65	4.0	545
40	The selectivity and potency of the new PDE5 inhibitor TPN729MA. <i>Journal of Sexual Medicine</i> , <b>2013</b> , 10, 2790-7	1.1	13
39	Udenafil: efficacy and tolerability in the management of erectile dysfunction. <i>Therapeutic Advances in Urology</i> , <b>2013</b> , 5, 101-10	3.2	14
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37	. <b>2013</b> ,		
36	Udenafil for the treatment of erectile dysfunction. <i>Therapeutics and Clinical Risk Management</i> , <b>2014</b> , 10, 341-54	2.9	16
35	Pharmacologic therapy for erectile dysfunction and its interaction with the cardiovascular system. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , <b>2014</b> , 19, 53-64	2.6	17
34	Thermodynamic and structural characterization of halogen bonding in protein-ligand interactions: a case study of PDE5 and its inhibitors. <i>Journal of Medicinal Chemistry</i> , <b>2014</b> , 57, 3588-93	8.3	28
33	PnPP-19, a Synthetic and Nontoxic Peptide Designed from a Phoneutria nigriventer Toxin, Potentiates Erectile Function via NO/cGMP. <i>Journal of Urology</i> , <b>2015</b> , 194, 1481-90	2.5	29
32	PDE 5 inhibition with udenafil improves left ventricular systolic/diastolic functions and exercise capacity in patients with chronic heart failure with reduced ejection fraction; A 12-week, randomized, double-blind, placebo-controlled trial. <i>American Heart Journal</i> , <b>2015</b> , 169, 813-822.e3	4.9	31
31	Erectile Dysfunction Drugs Changed the Protein Expressions and Activities of Drug-Metabolising Enzymes in the Liver of Male Rats. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2016</b> , 2016, 4970906	6.7	5
30	The safety of phosphodiesterase type 5 inhibitors for erectile dysfunction. <i>Expert Opinion on Drug Safety</i> , <b>2016</b> , 15, 141-52	4.1	35
29	The efficacy of udenafil in end-stage renal disease patients undergoing hemodialysis. <i>Renal Failure</i> , <b>2016</b> , 38, 357-61	2.9	2
28	Discovery and Optimization of Chromeno[2,3-c]pyrrol-9(2H)-ones as Novel Selective and Orally Bioavailable Phosphodiesterase 5 Inhibitors for the Treatment of Pulmonary Arterial Hypertension. <i>Journal of Medicinal Chemistry</i> , <b>2017</b> , 60, 6622-6637	8.3	23
27	Medical treatment of erectile dysfunction: too many medical prescriptions?. <i>Urologia</i> , <b>2017</b> , 84, 121-129	1.2	3
26	Evaluation of the colo-protective effects of tadalafil in an experimental model of ulcerative colitis in rats. <i>African Journal of Pharmacy and Pharmacology</i> , <b>2017</b> , 11, 385-393	0.5	3
25	An immunohistochemical and ultrastructural analysis of the retina in tadalafil (Cialis) treated rats. <i>Acta Histochemica</i> , <b>2018</b> , 120, 312-322	2	1
24	Effects of Renal Impairment on the Pharmacokinetics and Safety of Udenafil. <i>Journal of Clinical Pharmacology</i> , <b>2018</b> , 58, 905-912	2.9	5

23	Simultaneous determination of TPN729 and its five metabolites in human plasma and urine by liquid chromatography coupled to tandem mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 151, 91-105	3.5	1
22	The anti-inflammatory and anti-fibrotic effects of tadalafil in thioacetamide-induced liver fibrosis in rats. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2018</b> , 96, 1308-1317	2.4	20
21	Repurposing drugs in oncology (ReDO)-selective PDE5 inhibitors as anti-cancer agents. <i>Ecancermedicalscience</i> , <b>2018</b> , 12, 824	2.7	24
20	Phosphodiesterase Inhibition in the Treatment of Preeclampsia: What Is New?. <i>Current Hypertension Reports</i> , <b>2018</b> , 20, 83	4.7	5
19	A Multi-Biochemical and In Silico Study on Anti-Enzymatic Actions of Pyroglutamic Acid against PDE-5, ACE, and Urease Using Various Analytical Techniques: Unexplored Pharmacological Properties and Cytotoxicity Evaluation. <i>Biomolecules</i> , <b>2019</b> , 9,	5.9	8
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17	Ocular Effects of Sildenafil in Naïve Mice and a Mouse Model of Optic Nerve Crush. <b>2019</b> , 60, 1987-1995		4
16	PnPP-19 Peptide Restores Erectile Function in Hypertensive and Diabetic Animals Through Intravenous and Topical Administration. <i>Journal of Sexual Medicine</i> , <b>2019</b> , 16, 365-374	1.1	5
15	Screening for drugs to reduce zebrafish aggression identifies caffeine and sildenafil. <i>European Neuropsychopharmacology</i> , <b>2020</b> , 30, 17-29	1.2	8
14	Established and emerging therapeutic uses of PDE type 5 inhibitors in cardiovascular disease. <i>British Journal of Pharmacology</i> , <b>2020</b> , 177, 5467-5488	8.6	34
13	Dopamine D1 Receptor in Cancer. <i>Cancers</i> , <b>2020</b> , 12,	6.6	7
12	Monitor recipients of phosphodiesterase type 5 inhibitors for glaucoma, pending more clinical evidence of risk. <i>Drugs and Therapy Perspectives</i> , <b>2020</b> , 36, 152-155	1.5	
11	Medicinal plants as a potential source of Phosphodiesterase-5 inhibitors: A review. <i>Journal of Ethnopharmacology</i> , <b>2021</b> , 267, 113536	5	7
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9	Sildenafil in Combination Therapy against Cancer: A Literature Review. <i>Current Medicinal Chemistry</i> , <b>2021</b> , 28, 2248-2259	4.3	3
8	When "Chems" Meet Sex: A Rising Phenomenon Called "ChemSex". <i>Current Neuropharmacology</i> , <b>2017</b> , 15, 762-770	7.6	85
7	Effect of Udenafil on MUC5B Expression in Human Airway Epithelial Cells. <i>Korean Journal of Otorhinolaryngology-Head and Neck Surgery</i> , <b>2013</b> , 56, 501	0.2	8
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4	A Review on Phosphodiesterase-5 Inhibitors as a Topical Therapy for Erectile Dysfunction.. <i>Sexual Medicine Reviews</i> , <b>2022</b> ,	5.6	1
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2	The mitigating effect of exogenous carbon monoxide on chronic allograft rejection and fibrosis post-lung transplantation. <b>2022</b> ,		0
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