Barbara Rolando

List of Publications by Year in Descending Order

73 papers	1,352 citations	22 h-index	30 g-index
75 ext. papers	1,542 ext. citations	5.5 avg, IF	3.94 L-index

#	Paper	IF	Citations
73	HS donating corticosteroids: Design, synthesis and biological evaluation in a murine model of asthma.. *Journal of Advanced Research*, **2022**, 35, 267-277	13	4
72	New aldo-keto reductase 1C3 (AKR1C3) inhibitors based on the hydroxytriazole scaffold.. *European Journal of Medicinal Chemistry*, **2022**, 237, 114366	6.8	0
71	Galactosylated Prodrugs: A Strategy to Improve the Profile of Nonsteroidal Anti-Inflammatory Drugs. *Pharmaceuticals*, **2022**, 15, 552	5.2	0
70	Ketogal Safety Profile in Human Primary Colonic Epithelial Cells and in Mice. *Pharmaceuticals*, **2021**, 14,	5.2	1
69	Targeting Acute Myelogenous Leukemia Using Potent Human Dihydroorotate Dehydrogenase Inhibitors Based on the 2-Hydroxypyrazolo[1,5-]pyridine Scaffold: SAR of the Biphenyl Moiety. *Journal of Medicinal Chemistry*, **2021**, 64, 5404-5428	8.3	6
68	Tuning NO release of organelle-targeted furoxan derivatives and their cytotoxicity against lung cancer cells. *Bioorganic Chemistry*, **2021**, 111, 104911	5.1	3
67	Coencapsulation of disulfiram and doxorubicin in liposomes strongly reverses multidrug resistance in breast cancer cells. *International Journal of Pharmaceutics*, **2020**, 580, 119191	6.5	21
66	Enhancing doxorubicin anticancer activity with a novel polymeric platform photoreleasing nitric oxide. *Biomaterials Science*, **2020**, 8, 1329-1344	7.4	10
65	One molecule two goals: A selective P-glycoprotein modulator increases drug transport across gastro-intestinal barrier and recovers doxorubicin toxicity in multidrug resistant cancer cells. *European Journal of Medicinal Chemistry*, **2020**, 208, 112843	6.8	4
64	Paracetamol-Galactose Conjugate: A Novel Prodrug for an Old Analgesic Drug. *Molecular Pharmaceutics*, **2019**, 16, 4181-4189	5.6	5
63	Bioisosteres of Indomethacin as Inhibitors of Aldo-Keto Reductase 1C3. *ACS Medicinal Chemistry Letters*, **2019**, 10, 437-443	4.3	23
62	Five-Membered N-Heterocyclic Scaffolds as Novel Amino Bioisosteres at Aminobutyric Acid (GABA) Type A Receptors and GABA Transporters. *Journal of Medicinal Chemistry*, **2019**, 62, 5797-5809	8.3	12
61	Amphiphilic tri- and tetra-block co-polymers combining versatile functionality with facile assembly into cytocompatible nanoparticles. *Biomaterials Science*, **2019**, 7, 3832-3845	7.4	15
60	Validation of Thiosemicarbazone Compounds as P-Glycoprotein Inhibitors in Human Primary Brain-Blood Barrier and Glioblastoma Stem Cells. *Molecular Pharmaceutics*, **2019**, 16, 3361-3373	5.6	8
59	Versatile, Highly Controlled Synthesis of Hybrid (Meth)acrylate Polyester Carbonates and their Exploitation in Tandem Post-Polymerization Functionalization. *Macromolecular Chemistry and Physics*, **2019**, 220, 1900270	2.6	8
58	Design, Biological Evaluation, and Molecular Modeling of Tetrahydroisoquinoline Derivatives: Discovery of A Potent P-Glycoprotein Ligand Overcoming Multidrug Resistance in Cancer Stem Cells. *Journal of Medicinal Chemistry*, **2019**, 62, 974-986	8.3	13
57	Hydroxyazole scaffold-based Plasmodium falciparum dihydroorotate dehydrogenase inhibitors: Synthesis, biological evaluation and X-ray structural studies. *European Journal of Medicinal Chemistry*, **2019**, 163, 266-280	6.8	14

56	New tetrahydroisoquinoline-based P-glycoprotein modulators: decoration of the biphenyl core gives selective ligands. *MedChemComm*, **2018**, 9, 862-869	5	9
55	Tuning the Hydrophobicity of a Mitochondria-Targeted NO Photodonor. *ChemMedChem*, **2018**, 13, 1238-1245	3.7	5
54	Aceclofenac-Galactose Conjugate: Design, Synthesis, Characterization, and Pharmacological and Toxicological Evaluations. *Molecular Pharmaceutics*, **2018**, 15, 3101-3110	5.6	7
53	Folate-targeted liposomal nitrooxy-doxorubicin: An effective tool against P-glycoprotein-positive and folate receptor-positive tumors. *Journal of Controlled Release*, **2018**, 270, 37-52	11.7	47
52	A Molecular Hybrid for Mitochondria-Targeted NO Photodelivery. *ChemMedChem*, **2018**, 13, 87-96	3.7	10
51	Galactosylated Pro-Drug of Ursodeoxycholic Acid: Design, Synthesis, Characterization, and Pharmacological Effects in a Rat Model of Estrogen-Induced Cholestasis. *Molecular Pharmaceutics*, **2018**, 15, 21-30	5.6	8
50	Regioselective N-Alkylation of Ethyl 4-Benzyloxy-1,2,3-triazolecarboxylate: A Useful Tool for the Synthesis of Carboxylic Acid Bioisosteres. *Journal of Heterocyclic Chemistry*, **2018**, 56, 501	1.9	6
49	4-Hydroxy-1,2,3-triazole moiety as bioisostere of the carboxylic acid function: a novel scaffold to probe the orthosteric □aminobutyric acid receptor binding site. *European Journal of Medicinal Chemistry*, **2018**, 158, 311-321	6.8	21
48	Hyperglycemia Promotes Chemoresistance Through the Reduction of the Mitochondrial DNA Damage, the Bax/Bcl-2 and Bax/Bcl-XL Ratio, and the Cells in Sub-G1 Phase Due to Antitumoral Drugs Induced-Cytotoxicity in Human Colon Adenocarcinoma Cells. *Frontiers in Pharmacology*, **2018**, 9, 866	5.6	18
47	Targeting Myeloid Differentiation Using Potent 2-Hydroxypyrazolo[1,5- a]pyridine Scaffold-Based Human Dihydroorotate Dehydrogenase Inhibitors. *Journal of Medicinal Chemistry*, **2018**, 61, 6034-6055	8.3	38
46	Light-Regulated NO Release as a Novel Strategy To Overcome Doxorubicin Multidrug Resistance. *ACS Medicinal Chemistry Letters*, **2017**, 8, 361-365	4.3	35
45	A Nonmetal-Containing Nitric Oxide Donor Activated with Single-Photon Green Light. *Chemistry - A European Journal*, **2017**, 23, 9026-9029	4.8	22
44	Overcoming multidrug resistance by targeting mitochondria with NO-donating doxorubicins. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 967-75	3.4	21
43	In vitro pharmacological evaluation of multitarget agents for thromboxane prostanoid receptor antagonism and COX-2 inhibition. *Pharmacological Research*, **2016**, 103, 132-43	10.2	9
42	H2S-Donating Doxorubicins May Overcome Cardiotoxicity and Multidrug Resistance. *Journal of Medicinal Chemistry*, **2016**, 59, 4881-9	8.3	35
41	NO-donor thiacarbocyanines as multifunctional agents for Alzheimer's disease. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 4688-4698	3.4	16
40	An Autocrine Cytokine/JAK/STAT-Signaling Induces Kynurenine Synthesis in Multidrug Resistant Human Cancer Cells. *PLoS ONE*, **2015**, 10, e0126159	3.7	21
39	A multi-photoresponsive molecular-hybrid for dual-modal photoinactivation of cancer cells. *RSC Advances*, **2014**, 4, 44827-44836	3.7	12

38	New praziquantel derivatives containing NO-donor furoxans and related furazans as active agents against Schistosoma mansoni. *European Journal of Medicinal Chemistry*, **2014**, 84, 135-45	6.8	43
37	Liposomal nitrooxy-doxorubicin: one step over caelyx in drug-resistant human cancer cells. *Molecular Pharmaceutics*, **2014**, 11, 3068-79	5.6	27
36	Novel R-roscovitine NO-donor hybrid compounds as potential pro-resolution of inflammation agents. *Bioorganic and Medicinal Chemistry*, **2013**, 21, 2107-16	3.4	12
35	Doxorubicin-antioxidant co-drugs. *Bioorganic and Medicinal Chemistry Letters*, **2013**, 23, 5307-10	2.9	19
34	Mitochondrial-targeting nitrooxy-doxorubicin: a new approach to overcome drug resistance. *Molecular Pharmaceutics*, **2013**, 10, 161-74	5.6	52
33	Water-soluble nitric-oxide-releasing acetylsalicylic acid (ASA) prodrugs. *ChemMedChem*, **2013**, 8, 1199-209	3.7	18
32	Synthesis physicochemical profile and PAMPA study of new NO-donor edaravone co-drugs. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 841-50	3.4	5
31	Designing multitarget anti-inflammatory agents: chemical modulation of the lumiracoxib structure toward dual thromboxane antagonists-COX-2 inhibitors. *ChemMedChem*, **2012**, 7, 1647-60	3.7	22
30	Carnosine analogues containing NO-donor substructures: synthesis, physico-chemical characterization and preliminary pharmacological profile. *European Journal of Medicinal Chemistry*, **2012**, 54, 103-12	6.8	10
29	Synthesis, physicochemical characterization, and biological activities of new carnosine derivatives stable in human serum as potential neuroprotective agents. *Journal of Medicinal Chemistry*, **2011**, 54, 611-21	8.3	27
28	Searching for new NO-donor aspirin-like molecules: Furoxanylacyl derivatives of salicylic acid and related furazans. *Bioorganic and Medicinal Chemistry*, **2011**, 19, 5852-60	3.4	25
27	New nitric oxide or hydrogen sulfide releasing aspirins. *Journal of Medicinal Chemistry*, **2011**, 54, 5478-84	8.3	28
26	1,2,5-Oxadiazole analogues of leflunomide and related compounds. *European Journal of Medicinal Chemistry*, **2011**, 46, 383-92	6.8	23
25	Amodiaquine analogues containing NO-donor substructures: synthesis and their preliminary evaluation as potential tools in the treatment of cerebral malaria. *European Journal of Medicinal Chemistry*, **2011**, 46, 1757-67	6.8	26
24	Nitric oxide donor doxorubicins accumulate into Doxorubicin-resistant human colon cancer cells inducing cytotoxicity. *ACS Medicinal Chemistry Letters*, **2011**, 2, 494-7	4.3	58
23	4-hydroxy-1,2,5-oxadiazol-3-yl moiety as bioisoster of the carboxy function. Synthesis, ionization constants, and molecular pharmacological characterization at ionotropic glutamate receptors of compounds related to glutamate and its homologues. *Journal of Medicinal Chemistry*, **2010**, 53, 4110-8	8.3	21
22	Physicochemical profile and in vitro permeation behavior of a new class of non-steroidal anti-inflammatory drug candidates. *European Journal of Pharmaceutical Sciences*, **2010**, 40, 217-21	5.1	1
21	Nitrooxymethyl-substituted analogues of rofecoxib: synthesis and pharmacological characterization. *Chemistry and Biodiversity*, **2010**, 7, 1173-82	2.5	15

20	Synthesis and preliminary pharmacological characterisation of a new class of nitrogen-containing bisphosphonates (N-BPs). *Bioorganic and Medicinal Chemistry*, **2010**, 18, 2428-38	3.4	21
19	Unsymmetrically substituted furoxans. Part 19. Methyl and phenylfuroxansulfonic acids and related sulfonamides. *Journal of Heterocyclic Chemistry*, **2009**, 46, 866-872	1.9	10
18	Nitrooxymethyl-substituted analogues of celecoxib: synthesis and pharmacological characterization. *Chemistry and Biodiversity*, **2009**, 6, 369-79	2.5	14
17	A new series of amodiaquine analogues modified in the basic side chain with in vitro antileishmanial and antiplasmodial activity. *European Journal of Medicinal Chemistry*, **2009**, 44, 5071-9	6.8	27
16	Edaravone derivatives containing NO-donor functions. *Journal of Medicinal Chemistry*, **2009**, 52, 574-8	8.3	31
15	(Nitrooxyacyloxy)methyl esters of aspirin as novel nitric oxide releasing aspirins. *Journal of Medicinal Chemistry*, **2009**, 52, 5058-68	8.3	30
14	Searching for new NO-donor aspirin-like molecules: a new class of nitrooxy-acyl derivatives of salicylic acid. *Journal of Medicinal Chemistry*, **2008**, 51, 1894-903	8.3	34
13	Multitarget drugs: Focus on the NO-donor hybrid drugs. *Pure and Applied Chemistry*, **2008**, 80, 1693-1701	2.1	17
12	Structure-antioxidant activity relationships in a series of NO-donor phenols. *ChemMedChem*, **2008**, 3, 1443-8	3.7	4
11	Physicochemical Profiling of Sartans: A Detailed Study of Ionization Constants and Distribution Coefficients. *Helvetica Chimica Acta*, **2008**, 91, 468-482	2	43
10	Novel antioxidant agents deriving from molecular combination of Vitamin C and NO-donor moieties. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 5199-206	3.4	15
9	NO-donor COX-2 inhibitors. New nitrooxy-substituted 1,5-diarylimidazoles endowed with COX-2 inhibitory and vasodilator properties. *Journal of Medicinal Chemistry*, **2007**, 50, 1449-57	8.3	52
8	Amphiphilic NO-donor antioxidants. *ChemMedChem*, **2007**, 2, 234-40	3.7	2
7	NO-donor melatonin derivatives: synthesis and in vitro pharmacological characterization. *Journal of Pineal Research*, **2007**, 42, 371-85	10.4	12
6	The Lipophilicity Behavior of Three Catechol-O-methyltransferase (COMT) Inhibitors and Simple Analogues. *Helvetica Chimica Acta*, **2006**, 89, 144-152	2	11
5	Hydroxy-1,2,5-oxadiazolyl moiety as bioisoster of the carboxy function. Synthesis, ionization constants, and pharmacological characterization of gamma-aminobutyric acid (GABA) related compounds. *Journal of Medicinal Chemistry*, **2006**, 49, 4442-6	8.3	26
4	Synthesis of NO-donor bisphosphonates and their in-vitro action on bone resorption. *Journal of Medicinal Chemistry*, **2005**, 48, 1322-9	8.3	22
3	A new class of NO-donor H3-antagonists. *Il Farmaco*, **2004**, 59, 359-71		11

2	New 1,4-dihydropyridines endowed with NO-donor and calcium channel agonist properties. *Journal of Medicinal Chemistry*, **2004**, 47, 2688-93	8.3	38
1	Searching for balanced hybrid NO-donor 1,4-dihydropyridines with basic properties. *Pharmaceutical Research*, **2001**, 18, 987-91	4.5	13