

Barbara Rolando

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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	Nitric oxide donor doxorubicins accumulate into Doxorubicin-resistant human colon cancer cells inducing cytotoxicity. <i>ACS Medicinal Chemistry Letters</i> , 2011 , 2, 494-7	4.3	58
72	Mitochondrial-targeting nitrooxy-doxorubicin: a new approach to overcome drug resistance. <i>Molecular Pharmaceutics</i> , 2013 , 10, 161-74	5.6	52
71	NO-donor COX-2 inhibitors. New nitrooxy-substituted 1,5-diarylimidazoles endowed with COX-2 inhibitory and vasodilator properties. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 1449-57	8.3	52
70	Folate-targeted liposomal nitrooxy-doxorubicin: An effective tool against P-glycoprotein-positive and folate receptor-positive tumors. <i>Journal of Controlled Release</i> , 2018 , 270, 37-52	11.7	47
69	New praziquantel derivatives containing NO-donor furoxans and related furazans as active agents against <i>Schistosoma mansoni</i> . <i>European Journal of Medicinal Chemistry</i> , 2014 , 84, 135-45	6.8	43
68	Physicochemical Profiling of Sartans: A Detailed Study of Ionization Constants and Distribution Coefficients. <i>Helvetica Chimica Acta</i> , 2008 , 91, 468-482	2	43
67	New 1,4-dihydropyridines endowed with NO-donor and calcium channel agonist properties. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 2688-93	8.3	38
66	Targeting Myeloid Differentiation Using Potent 2-Hydroxypyrazolo[1,5- a]pyridine Scaffold-Based Human Dihydroorotate Dehydrogenase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 6034-6055	8.3	38
65	Light-Regulated NO Release as a Novel Strategy To Overcome Doxorubicin Multidrug Resistance. <i>ACS Medicinal Chemistry Letters</i> , 2017 , 8, 361-365	4.3	35
64	H2S-Donating Doxorubicins May Overcome Cardiotoxicity and Multidrug Resistance. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 4881-9	8.3	35
63	Searching for new NO-donor aspirin-like molecules: a new class of nitrooxy-acyl derivatives of salicylic acid. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 1894-903	8.3	34
62	Edaravone derivatives containing NO-donor functions. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 574-8	8.3	31
61	(Nitrooxyacyloxy)methyl esters of aspirin as novel nitric oxide releasing aspirins. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 5058-68	8.3	30
60	New nitric oxide or hydrogen sulfide releasing aspirins. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 5478-84	8.3	28
59	Liposomal nitrooxy-doxorubicin: one step over caelyx in drug-resistant human cancer cells. <i>Molecular Pharmaceutics</i> , 2014 , 11, 3068-79	5.6	27
58	Synthesis, physicochemical characterization, and biological activities of new carnosine derivatives stable in human serum as potential neuroprotective agents. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 611-21	8.3	27
57	A new series of amodiaquine analogues modified in the basic side chain with in vitro antileishmanial and antiplasmodial activity. <i>European Journal of Medicinal Chemistry</i> , 2009 , 44, 5071-9	6.8	27

56	Amodiaquine analogues containing NO-donor substructures: synthesis and their preliminary evaluation as potential tools in the treatment of cerebral malaria. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 1757-67	6.8	26
55	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. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 4442-6	8.3	26
54	Searching for new NO-donor aspirin-like molecules: Furoxanylacyl derivatives of salicylic acid and related furazans. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 5852-60	3.4	25
53	Bioisosteres of Indomethacin as Inhibitors of Aldo-Keto Reductase 1C3. <i>ACS Medicinal Chemistry Letters</i> , 2019 , 10, 437-443	4.3	23
52	1,2,5-Oxadiazole analogues of leflunomide and related compounds. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 383-92	6.8	23
51	A Nonmetal-Containing Nitric Oxide Donor Activated with Single-Photon Green Light. <i>Chemistry - A European Journal</i> , 2017 , 23, 9026-9029	4.8	22
50	Designing multitarget anti-inflammatory agents: chemical modulation of the lumiracoxib structure toward dual thromboxane antagonists-COX-2 inhibitors. <i>ChemMedChem</i> , 2012 , 7, 1647-60	3.7	22
49	Synthesis of NO-donor bisphosphonates and their in-vitro action on bone resorption. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 1322-9	8.3	22
48	Coencapsulation of disulfiram and doxorubicin in liposomes strongly reverses multidrug resistance in breast cancer cells. <i>International Journal of Pharmaceutics</i> , 2020 , 580, 119191	6.5	21
47	Overcoming multidrug resistance by targeting mitochondria with NO-donating doxorubicins. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 967-75	3.4	21
46	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. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 4110-8	8.3	21
45	Synthesis and preliminary pharmacological characterisation of a new class of nitrogen-containing bisphosphonates (N-BPs). <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 2428-38	3.4	21
44	An Autocrine Cytokine/JAK/STAT-Signaling Induces Kynurenine Synthesis in Multidrug Resistant Human Cancer Cells. <i>PLoS ONE</i> , 2015 , 10, e0126159	3.7	21
43	4-Hydroxy-1,2,3-triazole moiety as bioisostere of the carboxylic acid function: a novel scaffold to probe the orthosteric γ -aminobutyric acid receptor binding site. <i>European Journal of Medicinal Chemistry</i> , 2018 , 158, 311-321	6.8	21
42	Doxorubicin-antioxidant co-drugs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 5307-10	2.9	19
41	Water-soluble nitric-oxide-releasing acetylsalicylic acid (ASA) prodrugs. <i>ChemMedChem</i> , 2013 , 8, 1199-2097	3.7	18
40	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. <i>Frontiers in Pharmacology</i> , 2018 , 9, 866	5.6	18
39	Multitarget drugs: Focus on the NO-donor hybrid drugs. <i>Pure and Applied Chemistry</i> , 2008 , 80, 1693-1701	2.1	17

38	NO-donor thiocarbocyanines as multifunctional agents for Alzheimer's disease. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 4688-4698	3.4	16
37	Amphiphilic tri- and tetra-block co-polymers combining versatile functionality with facile assembly into cytocompatible nanoparticles. <i>Biomaterials Science</i> , 2019 , 7, 3832-3845	7.4	15
36	Nitrooxymethyl-substituted analogues of rofecoxib: synthesis and pharmacological characterization. <i>Chemistry and Biodiversity</i> , 2010 , 7, 1173-82	2.5	15
35	Novel antioxidant agents deriving from molecular combination of Vitamin C and NO-donor moieties. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 5199-206	3.4	15
34	Nitrooxymethyl-substituted analogues of celecoxib: synthesis and pharmacological characterization. <i>Chemistry and Biodiversity</i> , 2009 , 6, 369-79	2.5	14
33	Hydroxyazole scaffold-based Plasmodium falciparum dihydroorotate dehydrogenase inhibitors: Synthesis, biological evaluation and X-ray structural studies. <i>European Journal of Medicinal Chemistry</i> , 2019 , 163, 266-280	6.8	14
32	Searching for balanced hybrid NO-donor 1,4-dihydropyridines with basic properties. <i>Pharmaceutical Research</i> , 2001 , 18, 987-91	4.5	13
31	Design, Biological Evaluation, and Molecular Modeling of Tetrahydroisoquinoline Derivatives: Discovery of A Potent P-Glycoprotein Ligand Overcoming Multidrug Resistance in Cancer Stem Cells. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 974-986	8.3	13
30	Five-Membered N-Heterocyclic Scaffolds as Novel Amino Bioisosteres at γ -Aminobutyric Acid (GABA) Type A Receptors and GABA Transporters. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 5797-5809	8.3	12
29	A multi-photoresponsive molecular-hybrid for dual-modal photoinactivation of cancer cells. <i>RSC Advances</i> , 2014 , 4, 44827-44836	3.7	12
28	Novel R-roscovitine NO-donor hybrid compounds as potential pro-resolution of inflammation agents. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 2107-16	3.4	12
27	NO-donor melatonin derivatives: synthesis and in vitro pharmacological characterization. <i>Journal of Pineal Research</i> , 2007 , 42, 371-85	10.4	12
26	The Lipophilicity Behavior of Three Catechol-O-methyltransferase (COMT) Inhibitors and Simple Analogues. <i>Helvetica Chimica Acta</i> , 2006 , 89, 144-152	2	11
25	A new class of NO-donor H3-antagonists. <i>Il Farmaco</i> , 2004 , 59, 359-71		11
24	Carnosine analogues containing NO-donor substructures: synthesis, physico-chemical characterization and preliminary pharmacological profile. <i>European Journal of Medicinal Chemistry</i> , 2012 , 54, 103-12	6.8	10
23	Unsymmetrically substituted furoxans. Part 19. Methyl and phenylfuroxansulfonic acids and related sulfonamides. <i>Journal of Heterocyclic Chemistry</i> , 2009 , 46, 866-872	1.9	10
22	Enhancing doxorubicin anticancer activity with a novel polymeric platform photoreleasing nitric oxide. <i>Biomaterials Science</i> , 2020 , 8, 1329-1344	7.4	10
21	A Molecular Hybrid for Mitochondria-Targeted NO Photodelivery. <i>ChemMedChem</i> , 2018 , 13, 87-96	3.7	10

20	New tetrahydroisoquinoline-based P-glycoprotein modulators: decoration of the biphenyl core gives selective ligands. <i>MedChemComm</i> , 2018 , 9, 862-869	5	9
19	In vitro pharmacological evaluation of multitarget agents for thromboxane prostanoid receptor antagonism and COX-2 inhibition. <i>Pharmacological Research</i> , 2016 , 103, 132-43	10.2	9
18	Validation of Thiosemicarbazone Compounds as P-Glycoprotein Inhibitors in Human Primary Brain-Blood Barrier and Glioblastoma Stem Cells. <i>Molecular Pharmaceutics</i> , 2019 , 16, 3361-3373	5.6	8
17	Versatile, Highly Controlled Synthesis of Hybrid (Meth)acrylate Polyester Carbonates and their Exploitation in Tandem Post-Polymerization Functionalization. <i>Macromolecular Chemistry and Physics</i> , 2019 , 220, 1900270	2.6	8
16	Galactosylated Pro-Drug of Ursodeoxycholic Acid: Design, Synthesis, Characterization, and Pharmacological Effects in a Rat Model of Estrogen-Induced Cholestasis. <i>Molecular Pharmaceutics</i> , 2018 , 15, 21-30	5.6	8
15	Aceclofenac-Galactose Conjugate: Design, Synthesis, Characterization, and Pharmacological and Toxicological Evaluations. <i>Molecular Pharmaceutics</i> , 2018 , 15, 3101-3110	5.6	7
14	Targeting Acute Myelogenous Leukemia Using Potent Human Dihydroorotate Dehydrogenase Inhibitors Based on the 2-Hydroxypyrazolo[1,5-]pyridine Scaffold: SAR of the Biphenyl Moiety. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 5404-5428	8.3	6
13	Regioselective N-Alkylation of Ethyl 4-Benzoyloxy-1,2,3-triazolecarboxylate: A Useful Tool for the Synthesis of Carboxylic Acid Bioisosteres. <i>Journal of Heterocyclic Chemistry</i> , 2018 , 56, 501	1.9	6
12	Paracetamol-Galactose Conjugate: A Novel Prodrug for an Old Analgesic Drug. <i>Molecular Pharmaceutics</i> , 2019 , 16, 4181-4189	5.6	5
11	Tuning the Hydrophobicity of a Mitochondria-Targeted NO Photodonor. <i>ChemMedChem</i> , 2018 , 13, 1238-1245	3.7	5
10	Synthesis physicochemical profile and PAMPA study of new NO-donor edaravone co-drugs. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 841-50	3.4	5
9	Structure-antioxidant activity relationships in a series of NO-donor phenols. <i>ChemMedChem</i> , 2008 , 3, 1443-8	3.7	4
8	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. <i>European Journal of Medicinal Chemistry</i> , 2020 , 208, 112843	6.8	4
7	HS donating corticosteroids: Design, synthesis and biological evaluation in a murine model of asthma. <i>Journal of Advanced Research</i> , 2022 , 35, 267-277	13	4
6	Tuning NO release of organelle-targeted furoxan derivatives and their cytotoxicity against lung cancer cells. <i>Bioorganic Chemistry</i> , 2021 , 111, 104911	5.1	3
5	Amphiphilic NO-donor antioxidants. <i>ChemMedChem</i> , 2007 , 2, 234-40	3.7	2
4	Physicochemical profile and in vitro permeation behavior of a new class of non-steroidal anti-inflammatory drug candidates. <i>European Journal of Pharmaceutical Sciences</i> , 2010 , 40, 217-21	5.1	1
3	Ketogal Safety Profile in Human Primary Colonic Epithelial Cells and in Mice. <i>Pharmaceutics</i> , 2021 , 14,	5.2	1

- 2 New aldo-keto reductase 1C3 (AKR1C3) inhibitors based on the hydroxytriazole scaffold.. *European Journal of Medicinal Chemistry*, **2022**, 237, 114366 6.8 ○
- 1 Galactosylated Prodrugs: A Strategy to Improve the Profile of Nonsteroidal Anti-Inflammatory Drugs. *Pharmaceuticals*, **2022**, 15, 552 5.2 ○