Maria Novella Romanelli

List of Publications by Year
in descending order

101	2,164	236612	288905
papers	citations	25 h-index	40 g-index

102	102	102	2337
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Central Nicotinic Receptors: Structure, Function, Ligands, and Therapeutic Potential. ChemMedChem, 2007, 2, 746-767.	1.6	168
2	Cholinergic nicotinic receptors: Competitive ligands, allosteric modulators, and their potential applications. Medicinal Research Reviews, 2003, 23, 393-426.	5.0	107
3	Analgesic effects of myrrh. Nature, 1996, 379, 29-29.	13.7	105
4	The Hyperpolarization-Activated Cyclic Nucleotideâ€“Gated Channels: from Biophysics to Pharmacology of a Unique Family of Ion Channels. Pharmacological Reviews, 2017, 69, 354-395.	7.1	103
5	Design and Study of Piracetam-like Nootropics, Controversial Members of the Problematic Class of Cognition-Enhancing Drugs. Current Pharmaceutical Design, 2002, 8, 125-138.	0.9	102
6	HCN Channels Modulators: The Need for Selectivity. Current Topics in Medicinal Chemistry, 2016, 16, 1764-1791.	1.0	54
7	Design, Synthesis, and in Vitro Activity of Catamphiphilic Reverters of Multidrug Resistance:Â Discovery of a Selective, Highly Efficacious Chemosensitizer with Potency in the Nanomolar Range. Journal of Medicinal Chemistry, 1999, 42, 1687-1697.	2.9	51
8	The Hyperpolarization-Activated HCN4 Channel is Important for Proper Maintenance of Oscillatory Activity in the Thalamocortical System. Cerebral Cortex, 2019, 29, 2291-2304.	1.6	49
9	Novel blockers of hyperpolarizationâ€activated current with isoform selectivity in recombinant cells and native tissue. British Journal of Pharmacology, 2012, 166, 602-616.	2.7	44
10	Structureâ^'Affinity Relationships of a Unique Nicotinic Ligand:Â N1-Dimethyl-N4-phenylpiperazinium Iodide (DMPP). Journal of Medicinal Chemistry, 2001, 44, 3946-3955.	2.9	42
11	Selective Blockade of HCN1/HCN2 Channels as a Potential Pharmacological Strategy Against Pain. Frontiers in Pharmacology, 2018, 9, 1252.	1.6	40
12	Exploratory Chemistry toward the Identification of a New Class of Multidrug Resistance Reverters Inspired by Pervilleine and Verapamil Models. Journal of Medicinal Chemistry, 2005, 48, 7426-7436.	2.9	39
13	Design, Synthesis, and Preliminary Biological Evaluation of New Isoform-Selective f-Current Blockers. Journal of Medicinal Chemistry, 2010, 53, 6773-6777.	2.9	35
14	Two types of interneurons in the mouse lateral geniculate nucleus are characterized by different h-current density. Scientific Reports, 2016, 6, 24904.	1.6	35
15	The new HDAC1 inhibitor LG325 ameliorates neuropathic pain in a mouse model. Pharmacology Biochemistry and Behavior, 2017, 160, 70-75.	1.3	35
16	Presynaptic Cholinergic Modulators as Potent Cognition Enhancers and Analgesic Drugs. 2. 2-Phenoxy-, 2-(Phenylthio)-, and 2-(Phenylamino)alkanoic Acid Esters. Journal of Medicinal Chemistry, 1994, 37, 1712-1719.	2.9	33
17	Presynaptic Cholinergic Modulators as Potent Cognition Enhancers and Analgesic Drugs. 1. Tropic and 2-Phenylpropionic Acid Esters. Journal of Medicinal Chemistry, 1994, 37, 1704-1711.	2.9	32
18	Molecular Simplification of 1,4-Diazabicyclo[4.3.0]nonan-9-ones Gives Piperazine Derivatives That Maintain High Nootropic Activity. Journal of Medicinal Chemistry, 2000, 43, 4499-4507.	2.9	30

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19	Design, Synthesis, and Preliminary Pharmacological Evaluation of 1,4-Diazabicyclo[4.3.0]nonan-9-ones as a New Class of Highly Potent Nootropic Agents. Journal of Medicinal Chemistry, 2000, 43, 1969-1974.	2.9	30
20	N,N-bis(Cyclohexanol)amine Aryl Esters: A New Class of Highly Potent Transporter-Dependent Multidrug Resistance Inhibitors. Journal of Medicinal Chemistry, 2009, 52, 807-817.	2.9	30
21	Dual P-Glycoprotein and CA XII Inhibitors: A New Strategy to Reverse the P-gp Mediated Multidrug Resistance (MDR) in Cancer Cells. Molecules, 2020, 25, 1748.	1.7	30
22	2-Benzylpiperazine: A new scaffold for potent human carbonic anhydrase inhibitors. Synthesis, enzyme inhibition, enantioselectivity, computational and crystallographic studies and inÂvivo activity for a new class of intraocular pressure lowering agents. European Journal of Medicinal Chemistry, 2018, 151, 363-375.	2.6	29
23	Design, Synthesis, and Preliminary Pharmacological Evaluation of 4-Aminopiperidine Derivatives as N-Type Calcium Channel Blockers Active on Pain and Neuropathic Pain. Journal of Medicinal Chemistry, 2004, 47, 6070-6081.	2.9	27
24	Design, synthesis and preliminary biological evaluation of new hydroxamate histone deacetylase inhibitors as potential antileukemic agents. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 5071-5074.	1.0	27
25	Modulation of the spacer in N,N-bis(alkanol)amine aryl ester heterodimers led to the discovery of a series of highly potent P-glycoprotein-based multidrug resistance (MDR) modulators. European Journal of Medicinal Chemistry, 2019, 172, 71-94.	2.6	27
26	Hybridized and isosteric analogues of N 1 -acetyl- N 4 -dimethyl-piperazinium iodide (ADMP) and N 1 -phenyl- N 4 -dimethyl-piperazinium iodide (DMPP) with central nicotinic action. Bioorganic and Medicinal Chemistry, 1999, 7, 457-465.	1.4	26
27	Structureâ"Activity Relationships Studies in a Series of N,N-Bis(alkanol)amine Aryl Esters as P-Glycoprotein (Pgp) Dependent Multidrug Resistance (MDR) Inhibitors. Journal of Medicinal Chemistry, 2010, 53, 1755-1762.	2.9	25
28	<scp>HDAC</scp>â€inhibitor (S)â€8 disrupts <scp>HDAC</scp>6â€<scp>PP</scp>1 complex prompting A375 melanoma cell growth arrest and apoptosis. Journal of Cellular and Molecular Medicine, 2015, 19, 143-154.	1.6	25
29	Muscarinic subtype affinity and functional activity profile of 1-methyl-2-(2-methyl-1,3-dioxolan-4-yl)pyrrolidine and 1-methyl-2-(2-methyl-1,3-oxathiolan-5-yl)pyrrolidine derivatives. Biochemical Pharmacology, 2005, 69, 1637-1645.	2.0	24
30	Effectiveness of the Histone Deacetylase Inhibitor (S)-2 against LNCaP and PC3 Human Prostate Cancer Cells. PLoS ONE, 2013, 8, e58267.	1.1	24
31	Updates on HCN Channels in the Heart: Function, Dysfunction and Pharmacology. Current Drug Targets, 2015, 16, 868-876.	1.0	23
32	Design, synthesis and preliminary biological evaluation of zatebradine analogues as potential blockers of the hyperpolarization-activated current. Bioorganic and Medicinal Chemistry, 2005, 13, 1211-1220.	1.4	22
33	Amino Acids as Building Blocks for Carbonic Anhydrase Inhibitors. Metabolites, 2018, 8, 36.	1.3	22
34	Highly Chiral Muscarinic Ligands:â€‰ The Discovery of (2S,2â€˜R,3â€˜S,5â€˜R)-1-Methyl-2-(2-methyl-1,3-oxathiolan-5-yl)pyrrolidine 3-sulfoxide Methyl Iodide, a Potent, Functionally Selective, M2 Partial Agonist. Journal of Medicinal Chemistry, 2006, 49, 1925-1931.	2.9	21
35	Design, synthesis and biological evaluation of stereo- and regioisomers of amino aryl esters as multidrug resistance (MDR) reversers. European Journal of Medicinal Chemistry, 2019, 182, 111655.	2.6	21
36	Multidrug resistance (MDR) reversers: High activity and efficacy in a series of asymmetrical N,N-bis(alkanol)amine aryl esters. European Journal of Medicinal Chemistry, 2014, 87, 398-412.	2.6	20

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37	Hyperpolarization-activated cyclic-nucleotide-gated channels: pathophysiological, developmental, and pharmacological insights into their function in cellular excitability. Canadian Journal of Physiology and Pharmacology, 2018, 96, 977-984.	0.7	20
38	Structureâ€“activity relationship studies on unifiram (DM232) and sunifiram (DM235), two novel and potent cognition enhancing drugs. Bioorganic and Medicinal Chemistry, 2004, 12, 71-85.	1.4	19
39	Structureâ€“Activity Relationship Studies on 6,7â€Dimethoxyâ€2â€phenethylâ€1,2,3,4â€tetrahydroisoquinoline Derivatives as Multidrug Resistance Reversers. ChemMedChem, 2017, 12, 1369-1379.	1.6	19
40	A potentiated cooperation of carbonic anhydrase IX and histone deacetylase inhibitors against cancer. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 391-397.	2.5	19
41	4-Aminopiperidine derivatives as a new class of potent cognition enhancing drugs. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 2303-2306.	1.0	18
42	New structureâ€“activity relationship studies in a series of N,N-bis(cyclohexanol)amine aryl esters as potent reversers of P-glycoprotein-mediated multidrug resistance (MDR). Bioorganic and Medicinal Chemistry, 2013, 21, 456-465.	1.4	17
43	Synthesis and cholinergic affinity of diastereomeric and enantiomeric isomers of 1-methyl-2-(2-methyl-1,3-dioxolan-4-yl)- pyrrolidine, 1-methyl-2-(2-methyl-1,3-oxathiolan-5-yl)pyrrolidine and of Their iodomethylates. Bioorganic and Medicinal Chemistry, 2003, 11, 3153-3164.	1.4	16
44	Isomeric N,N-Bis(cyclohexanol)amine Aryl Esters:â€‰ The Discovery of a New Class of Highly Potent P-Glycoprotein (Pgp)-dependent Multidrug Resistance (MDR) Inhibitors. Journal of Medicinal Chemistry, 2007, 50, 599-602.	2.9	16
45	Design, synthesis and preliminary evaluation of a series of histone deacetylase inhibitors carrying a benzodiazepine ring. European Journal of Medicinal Chemistry, 2013, 66, 56-68.	2.6	16
46	(E)-3-Furan-2-yl-N-p-tolyl-acrylamide and its Derivative DM489 Decrease Neuropathic Pain in Mice Predominantly by Î±7 Nicotinic Acetylcholine Receptor Potentiation. ACS Chemical Neuroscience, 2020, 11, 3603-3614.	1.7	16
47	Pharmacological Characterization of DM232 (Unifiram) and DM235 (Sunifiram), New Potent Cognition Enhancers. CNS Neuroscience & Therapeutics, 2006, 12, 39-52.	4.0	15
48	Design and synthesis of aminoester heterodimers containing flavone or chromone moieties as modulators of P-glycoprotein-based multidrug resistance (MDR). Bioorganic and Medicinal Chemistry, 2018, 26, 50-64.	1.4	15
49	Design of novel nicotinic ligands through 3D database searching. Bioorganic and Medicinal Chemistry, 2005, 13, 799-807.	1.4	14
50	Inhibition of P-glycoprotein-mediated Multidrug Resistance (MDR) by N,N-bis(cyclohexanol)amine aryl esters: Further restriction of molecular flexibility maintains high potency and efficacy. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 106-109.	1.0	14
51	Substituted piperazines as nootropic agents: 2- or 3-phenyl derivatives structurally related to the cognition-enhancer DM235. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 1700-1704.	1.0	14
52	Synthesis, Affinity Profile, and Functional Activity of Muscarinic Antagonists with a 1-Methyl-2-(2,2-alkylaryl-1,3-oxathiolan-5-yl)pyrrolidine Structure. Journal of Medicinal Chemistry, 2007, 50, 1409-1413.	2.9	13
53	Design, synthesis and preliminary pharmacological evaluation of new piperidine and piperazine derivatives as cognition-enhancers. Bioorganic and Medicinal Chemistry, 2008, 16, 1431-1443.	1.4	13
54	Design and synthesis of new potent N,N -bis(arylalkyl)piperazine derivatives as multidrug resistance (MDR) reversing agents. European Journal of Medicinal Chemistry, 2018, 147, 7-20.	2.6	13

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55	Dual BET/HDAC inhibition to relieve neuropathic pain: Recent advances, perspectives, and future opportunities. Pharmacological Research, 2021, 173, 105901.	3.1	13
56	Significance of the nicotinic alpha7 receptor in cognition and antipsychotic-like behavior in the rat. Behavioural Brain Research, 2017, 333, 129-134.	1.2	12
57	Sulfonamides incorporating piperazine bioisosteres as potent human carbonic anhydrase I, II, IV and IX inhibitors. Bioorganic Chemistry, 2019, 91, 103130.	2.0	12
58	EC18 as a Tool To Understand the Role of HCN4 Channels in Mediating Hyperpolarization-Activated Current in Tissues. ACS Medicinal Chemistry Letters, 2019, 10, 584-589.	1.3	12
59	6,7-Dimethoxy-2-phenethyl-1,2,3,4-tetrahydroisoquinoline amides and corresponding ester isosteres as multidrug resistance reversers. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 974-992.	2.5	12
60	Design, Synthesis, and Preliminary Pharmacological Evaluation of New Quinoline Derivatives as Nicotinic Ligands. Journal of Medicinal Chemistry, 2007, 50, 4993-5002.	2.9	11
61	Design, synthesis and preliminary pharmacological evaluation of new analogues of DM232 (unifiram) and DM235 (sunifiram) as cognition modulators. Bioorganic and Medicinal Chemistry, 2008, 16, 10034-10042.	1.4	11
62	Arylamino Esters As Pâ€Glycoprotein Modulators: SAR Studies to Establish Requirements for Potency and Selectivity. ChemMedChem, 2015, 10, 1339-1343.	1.6	11
63	The HCN channel as a pharmacological target: Why, where, and how to block it. Progress in Biophysics and Molecular Biology, 2021, 166, 173-181.	1.4	11
64	Designing selective modulators for the nicotinic receptor subtypes: challenges and opportunities. Future Medicinal Chemistry, 2018, 10, 433-460.	1.1	10
65	N -alkanol- N -cyclohexanol amine aryl esters: Multidrug resistance (MDR) reversing agents with high potency and efficacy. European Journal of Medicinal Chemistry, 2017, 127, 586-598.	2.6	10
66	Design, synthesis and nootropic activity of new analogues of sunifiram and sapunifiram, two potent cognition-enhancers. Bioorganic and Medicinal Chemistry, 2009, 17, 7606-7614.	1.4	9
67	Recent advances in the search of BCRP- and dual P-gp/BCRP-based multidrug resistance modulators. , 2019, 2, 710-743.		9
68	Dual HDAC/BRD4 Inhibitors Relieves Neuropathic Pain by Attenuating Inflammatory Response in Microglia After Spared Nerve Injury. Neurotherapeutics, 2022, 19, 1634-1648.	2.1	9
69	The piperazine scaffold for novel drug discovery efforts: the evidence to date. Expert Opinion on Drug Discovery, 2022, 17, 969-984.	2.5	9
70	Carbachol dimers as homobivalent modulators of muscarinic receptors. Biochemical Pharmacology, 2016, 108, 90-101.	2.0	8
71	Semi-rigid analogues of the calcium antagonist verapamil: A molecular modelling study. Journal of Computer-Aided Molecular Design, 1994, 8, 123-134.	1.3	7
72	Design, Synthesis, and Preliminary Pharmacological Evaluation of a Set of Small Molecules That Directly Activate Gi Proteins. Journal of Medicinal Chemistry, 2005, 48, 6491-6503.	2.9	7

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73	The quest for the treatment of cognitive impairment: Î±₇nicotinic and Î±₅GABA_Areceptor modulators. Expert Opinion on Therapeutic Patents, 2007, 17, 1365-1377.	2.4	7
74	Docking analyses on human muscarinic receptors: Unveiling the subtypes peculiarities in agonists binding. Bioorganic and Medicinal Chemistry, 2008, 16, 3049-3058.	1.4	7
75	Synthesis and Biological Evaluation of 3,7-Diazabicyclo[4.3.0]nonan-8-ones as Potential Nootropic and Analgesic Drugs. Journal of Medicinal Chemistry, 2011, 54, 2512-2516.	2.9	7
76	Influence of ring size on the cognition-enhancing activity of DM235 and MN19, two potent nootropic drugs. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 1936-1939.	1.0	7
77	Piperazines as nootropic agents: New derivatives of the potent cognition-enhancer DM235 carrying hydrophilic substituents. Bioorganic and Medicinal Chemistry, 2017, 25, 1795-1803.	1.4	7
78	Investigation of piperazines as human carbonic anhydrase I, II, IV and VII activators. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 303-308.	2.5	7
79	Type I and type II positive allosteric modulators of Î±7 nicotinic acetylcholine receptors induce antidepressant-like activity in mice by a mechanism involving receptor potentiation but not neurotransmitter reuptake inhibition. Correlation with mTOR intracellular pathway activation. European Neuropsychopharmacology, 2021, 52, 31-47.	0.3	7
80	Enantioselective Synthesis and Preliminary Pharmacological Evaluation of the Enantiomers of Unifiram (DM232), a Potent Cognition-Enhancing Agent. Medicinal Chemistry, 2005, 1, 473-480.	0.7	7
81	Synthesis and binding properties of photoactivable biotin-conjugated verapamil derivatives for the study of P-170 glycoprotein. Bioorganic and Medicinal Chemistry, 1999, 7, 1873-1880.	1.4	6
82	Muscarinic antagonists with multiple stereocenters: Synthesis, affinity profile and functional activity of isomeric 1-methyl-2-(2,2-alkylaryl-1,3-oxathiolan-5-yl)pyrrolidine sulfoxide derivatives. Bioorganic and Medicinal Chemistry, 2008, 16, 5490-5500.	1.4	6
83	Synthesis and Pharmacological Characterization of Chiral Pyrrolidinylfuran Derivatives: The Discovery of New Functionally Selective Muscarinic Agonists. Journal of Medicinal Chemistry, 2008, 51, 3905-3912.	2.9	6
84	New Rigid Nicotine Analogues, Carrying a Norbornane Moiety, Are Potent Agonists of Î±7 and Î±3* Nicotinic Receptors. Journal of Medicinal Chemistry, 2019, 62, 1887-1901.	2.9	6
85	Synthesis and carbonic anhydrase activating properties of a series of 2-amino-imidazolines structurally related to clonidine¹. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1003-1010.	2.5	6
86	Carbachol dimers with primary carbamate groups as homobivalent modulators of muscarinic receptors. European Journal of Pharmacology, 2020, 883, 173183.	1.7	6
87	Overcoming Multidrug Resistance (MDR): Design, Biological Evaluation and Molecular Modelling Studies of 2,4â€Substituted Quinazoline Derivatives. ChemMedChem, 2022, 17, .	1.6	6
88	Chiral synthesis and pharmacological evaluation of the enantiomers of SM32, a new analgesic and cognition-enhancing agent. , 1996, 8, 579-584.		5
89	Reduced Flexibility Analogs of Analgesic and Cognition Enhancing Î±-Tropanyl Esters. Archiv Der Pharmazie, 1996, 329, 105-111.	2.1	5
90	ANTINOCICEPTION INDUCED BY SM 32 DEPENDS ON A CENTRAL CHOLINERGIC MECHANISM. Pharmacological Research, 1997, 35, 141-147.	3.1	4

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91	Synthesis, Affinity Profile and Functional Activity of Potent Chiral Muscarinic Antagonists with a Pyrrolidinylfuran Structure. Journal of Medicinal Chemistry, 2010, 53, 201-207.	2.9	4
92	New quinoline derivatives as nicotinic receptor modulators. European Journal of Medicinal Chemistry, 2016, 110, 246-258.	2.6	4
93	Synthesis and pharmacological evaluation of some (pyridyl)cyclopropylmethyl amines and their methiodides as nicotinic receptor ligands. Il Farmaco, 2002, 57, 487-496.	0.9	3
94	Sigma Receptor Binding Profile of a Series of Analgesic Tropane Derivatives. Archiv Der Pharmazie, 2002, 335, 39-43.	2.1	3
95	Carbonic Anhydrase IV Selective Inhibitors Counteract the Development of Colitis-Associated Visceral Pain in Rats. Cells, 2021, 10, 2540.	1.8	3
96	Evaluating the efficiency of enzyme accelerated CO2 capture: chemical kinetics modelling for interpreting measurement results. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 394-401.	2.5	2
97	New Histamine-Related Five-Membered N-Heterocycle Derivatives as Carbonic Anhydrase I Activators. Molecules, 2022, 27, 545.	1.7	2
98	Dual HDACâ€“BRD4 inhibitors endowed with antitumor and antihyperalgesic activity. Medicinal Chemistry Research, 2022, 31, 960-974.	1.1	2
99	A measurement system for the evaluation of efficiency of enzyme accelerated CO2 capture systems based on modeling. , 2020, , .		1
100	2-(2-Hydroxyethyl)piperazine derivatives as potent human carbonic anhydrase inhibitors: Synthesis, enzyme inhibition, computational studies and antiglaucoma activity. European Journal of Medicinal Chemistry, 2022, 228, 114026.	2.6	1
101	Rigid analogs of DMPP as probes for the nicotinic receptors. Il Farmaco, 2005, 60, 99-104.	0.9	0