Richard B Silverman

List of Publications by Year
in descending order

256 papers	8,790 citations	53794 45 h-index	71685 76 g-index

277 all docs	277 docs citations	277 times ranked	7651 citing authors

#	Article	IF	Citations
1	Inhibition of interferon-gamma-stimulated melanoma progression by targeting neuronal nitric oxide synthase (nNOS). Scientific Reports, 2022, 12, 1701.	3.3	8
2	NU-9 improves health of hSOD1G93A mouse upper motor neurons in vitro, especially in combination with riluzole or edaravone. Scientific Reports, 2022, 12, 5383.	3.3	6
3	Rational Design, Synthesis, and Mechanism of (3S,4R)-3-Amino-4-(difluoromethyl)cyclopent-1-ene-1-carboxylic Acid: Employing a Second-Deprotonation Strategy for Selectivity of Human Ornithine Aminotransferase over GABA Aminotransferase. Journal of the American Chemical Society, 2022, 144, 5629-5642.	13.7	4
4	Inactivators of Ornithine Aminotransferase for the Treatment of Hepatocellular Carcinoma. ACS Medicinal Chemistry Letters, 2022, 13, 38-49.	2.8	7
5	Palladium-Catalyzed Î±-Arylation of Cyclic Î²-Dicarbonyl Compounds for the Synthesis of Ca_V1.3 Inhibitors. ACS Omega, 2022, 7, 14252-14263.	3.5	2
6	A Small Peptide Increases Drug Delivery in Human Melanoma Cells. Pharmaceutics, 2022, 14, 1036.	4.5	2
7	2-Aminopyridines with a shortened amino sidechain as potent, selective, and highly permeable human neuronal nitric oxide synthase inhibitors. Bioorganic and Medicinal Chemistry, 2022, 69, 116878.	3.0	6
8	Structural and Kinetic Analyses Reveal the Dual Inhibition Modes of Ornithine Aminotransferase by (1S,3S)-3-Amino-4-(hexafluoropropan-2-ylidenyl)-cyclopentane-1-carboxylic Acid (BCF₃). ACS Chemical Biology, 2021, 16, 67-75.	3.4	5
9	Improving mitochondria and ER stability helps eliminate upper motor neuron degeneration that occurs due to mSOD1 toxicity and TDPâ€43 pathology. Clinical and Translational Medicine, 2021, 11, e336.	4.0	20
10	Theoretical and Mechanistic Validation of Global Kinetic Parameters of the Inactivation of GABA Aminotransferase by OV329 and CPP-115. ACS Chemical Biology, 2021, 16, 615-630.	3.4	6
11	Remarkable and Unexpected Mechanism for (S)-3-Amino-4-(difluoromethylenyl)cyclohex-1-ene-1-carboxylic Acid as a Selective Inactivator of Human Ornithine Aminotransferase. Journal of the American Chemical Society, 2021, 143, 8193-8207.	13.7	7
12	Turnover and Inactivation Mechanisms for (S)-3-Amino-4,4-difluorocyclopent-1-enecarboxylic Acid, a Selective Mechanism-Based Inactivator of Human Ornithine Aminotransferase. Journal of the American Chemical Society, 2021, 143, 8689-8703.	13.7	6
13	Pregabalin Treatment does not Affect Amyloid Pathology in 5XFAD Mice. Current Alzheimer Research, 2021, 18, 283-297.	1.4	3
14	OV329, a novel highly potent Î³â€aminobutyric acid aminotransferase inactivator, induces pronounced anticonvulsant effects in the pentylenetetrazole seizure threshold test and in amygdalaâ€kindled rats. Epilepsia, 2021, 62, 3091-3104.	5.1	10
15	Inducible nitric oxide synthase: Regulation, structure, and inhibition. Medicinal Research Reviews, 2020, 40, 158-189.	10.5	397
16	(S)â€4â€•Amino â€5â€phenoxypentanoate designed as a potential selective agonist of the bacterial transcription factor GabR. Protein Science, 2020, 29, 1816-1828.	7.6	3
17	A Single Amino Acid Determines the Selectivity and Efficacy of Selective Negative Allosteric Modulators of CaV1.3 L-Type Calcium Channels. ACS Chemical Biology, 2020, 15, 2539-2550.	3.4	13
18	Physiological involvement of presynaptic Lâ€type voltageâ€dependent calcium channels in GABA release of cerebellar molecular layer interneurons. Journal of Neurochemistry, 2020, 155, 390-402.	3.9	12

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19	A Remarkable Difference That One Fluorine Atom Confers on the Mechanisms of Inactivation of Human Ornithine Aminotransferase by Two Cyclohexene Analogues of Î³-Aminobutyric Acid. Journal of the American Chemical Society, 2020, 142, 4892-4903.	13.7	20
20	First Contact: 7-Phenyl-2-Aminoquinolines, Potent and Selective Neuronal Nitric Oxide Synthase Inhibitors That Target an Isoform-Specific Aspartate. Journal of Medicinal Chemistry, 2020, 63, 4528-4554.	6.4	14
21	Mechanism-Based Design of 3-Amino-4-Halocyclopentenecarboxylic Acids as Inactivators of GABA Aminotransferase. ACS Medicinal Chemistry Letters, 2020, 11, 1949-1955.	2.8	6
22	Mechanism of Inactivation of Ornithine Aminotransferase by (1S,3S)-3-Amino-4-(hexafluoropropan-2-ylidenyl)cyclopentane-1-carboxylic Acid. Journal of the American Chemical Society, 2019, 141, 10711-10721.	13.7	15
23	A modulator of wild-type glucocerebrosidase improves pathogenic phenotypes in dopaminergic neuronal models of Parkinsonâ€™s disease. Science Translational Medicine, 2019, 11, .	12.4	77
24	Optimization of Bloodâ€“Brain Barrier Permeability with Potent and Selective Human Neuronal Nitric Oxide Synthase Inhibitors Having a 2-Aminopyridine Scaffold. Journal of Medicinal Chemistry, 2019, 62, 2690-2707.	6.4	29
25	Conversion of Quinazoline Modulators from Inhibitors to Activators of Î²-Glucocerebrosidase. Journal of Medicinal Chemistry, 2019, 62, 1218-1230.	6.4	16
26	Î²-Glucocerebrosidase Modulators Promote Dimerization of Î²-Glucocerebrosidase and Reveal an Allosteric Binding Site. Journal of the American Chemical Society, 2018, 140, 5914-5924.	13.7	29
27	Design and Mechanism of (S)-3-Amino-4-(difluoromethylenyl)cyclopent-1-ene-1-carboxylic Acid, a Highly Potent Î³-Aminobutyric Acid Aminotransferase Inactivator for the Treatment of Addiction. Journal of the American Chemical Society, 2018, 140, 2151-2164.	13.7	53
28	Total Synthesis of Tambromycin Enabled by Indole Câ€“H Functionalization. Organic Letters, 2018, 20, 2369-2373.	4.6	24
29	Design and Mechanism of GABA Aminotransferase Inactivators. Treatments for Epilepsies and Addictions. Chemical Reviews, 2018, 118, 4037-4070.	47.7	50
30	Structural Basis for Isoform Selective Nitric Oxide Synthase Inhibition by Thiophene-2-carboximidamides. Biochemistry, 2018, 57, 6319-6325.	2.5	3
31	Synthesis of (S)-3-Amino-4-(difluoromethylenyl)-cyclopent-1-ene-1-carboxylic Acid (OV329), a Potent Inactivator of Î³-Aminobutyric Acid Aminotransferase. Organic Letters, 2018, 20, 4589-4592.	4.6	11
32	Nitrile in the Hole: Discovery of a Small Auxiliary Pocket in Neuronal Nitric Oxide Synthase Leading to the Development of Potent and Selective 2-Aminoquinoline Inhibitors. Journal of Medicinal Chemistry, 2017, 60, 3958-3978.	6.4	28
33	PLP and GABA trigger GabR-mediated transcription regulation in Bacillus subtilis via external aldimine formation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3891-3896.	7.1	26
34	Improvement of Cell Permeability of Human Neuronal Nitric Oxide Synthase Inhibitors Using Potent and Selective 2-Aminopyridine-Based Scaffolds with a Fluorobenzene Linker. Journal of Medicinal Chemistry, 2017, 60, 9360-9375.	6.4	11
35	Selective Targeting by a Mechanism-Based Inactivator against Pyridoxal 5â€²-Phosphate-Dependent Enzymes: Mechanisms of Inactivation and Alternative Turnover. Biochemistry, 2017, 56, 4951-4961.	2.5	15
36	Hydrophilic, Potent, and Selective 7-Substituted 2-Aminoquinolines as Improved Human Neuronal Nitric Oxide Synthase Inhibitors. Journal of Medicinal Chemistry, 2017, 60, 7146-7165.	6.4	18

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37	Potent and Selective Human Neuronal Nitric Oxide Synthase Inhibition by Optimization of the 2-Aminopyridine-Based Scaffold with a Pyridine Linker. Journal of Medicinal Chemistry, 2016, 59, 4913-4925.	6.4	23
38	Design and Synthesis of Potent Quinazolines as Selective Î²-Glucocerebrosidase Modulators. Journal of Medicinal Chemistry, 2016, 59, 8508-8520.	6.4	16
39	Targeting Bacterial Nitric Oxide Synthase with Aminoquinoline-Based Inhibitors. Biochemistry, 2016, 55, 5587-5594.	2.5	16
40	Regulation of aldosterone secretion by Cav1.3. Scientific Reports, 2016, 6, 24697.	3.3	30
41	Electrostatic Control of Isoform Selective Inhibitor Binding in Nitric Oxide Synthase. Biochemistry, 2016, 55, 3702-3707.	2.5	39
42	The Sirtuin-2 Inhibitor AK7 Is Neuroprotective in Models of Parkinsonâ€™s Disease but Not Amyotrophic Lateral Sclerosis and Cerebral Ischemia. PLoS ONE, 2015, 10, e0116919.	2.5	106
43	Suppression of Hepatocellular Carcinoma by Inhibition of Overexpressed Ornithine Aminotransferase. ACS Medicinal Chemistry Letters, 2015, 6, 840-844.	2.8	38
44	Novel 2,4-Disubstituted Pyrimidines as Potent, Selective, and Cell-Permeable Inhibitors of Neuronal Nitric Oxide Synthase. Journal of Medicinal Chemistry, 2015, 58, 1067-1088.	6.4	27
45	Mechanism of Inactivation of Î³-Aminobutyric Acid Aminotransferase by (1S,3S)-3-Amino-4-difluoromethylene-1-cyclopentanoic Acid (CPP-115). Journal of the American Chemical Society, 2015, 137, 2628-2640.	13.7	29
46	Structure-Based Design of Bacterial Nitric Oxide Synthase Inhibitors. Journal of Medicinal Chemistry, 2015, 58, 994-1004.	6.4	15
47	2-Aminopyridines with a Truncated Side Chain To Improve Human Neuronal Nitric Oxide Synthase Inhibitory Potency and Selectivity. Journal of Medicinal Chemistry, 2015, 58, 5548-5560.	6.4	23
48	Inhibitor Bound Crystal Structures of Bacterial Nitric Oxide Synthase. Biochemistry, 2015, 54, 4075-4082.	2.5	9
49	Nitric Oxide Synthase as a Target for Methicillin-Resistant Staphylococcus aureus. Chemistry and Biology, 2015, 22, 785-792.	6.0	15
50	Tertiary Amine Pyrazolones and Their Salts as Inhibitors of Mutant Superoxide Dismutase 1-Dependent Protein Aggregation for the Treatment of Amyotrophic Lateral Sclerosis. Journal of Medicinal Chemistry, 2015, 58, 5942-5949.	6.4	17
51	Mechanistic Studies of Inactivation of Inducible Nitric Oxide Synthase by Amidines. Biochemistry, 2015, 54, 2530-2538.	2.5	9
52	Mechanism of Inactivation of Neuronal Nitric Oxide Synthase by (S)-2-Amino-5-(2-(methylthio)acetimidamido)pentanoic Acid. Journal of the American Chemical Society, 2015, 137, 5980-5989.	13.7	6
53	Design and Mechanism of Tetrahydrothiophene-Based Î³-Aminobutyric Acid Aminotransferase Inactivators. Journal of the American Chemical Society, 2015, 137, 4525-4533.	13.7	17
54	Design and Evaluation of 3-(Benzylthio)benzamide Derivatives as Potent and Selective SIRT2 Inhibitors. ACS Medicinal Chemistry Letters, 2015, 6, 607-611.	2.8	7

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55	Phenyl Ether- and Aniline-Containing 2-Aminoquinolines as Potent and Selective Inhibitors of Neuronal Nitric Oxide Synthase. Journal of Medicinal Chemistry, 2015, 58, 8694-8712.	6.4	23
56	Mechanism of Inactivation of GABA Aminotransferase by (E)- and (Z)-(1S,3S)-3-Amino-4-fluoromethylenyl-1-cyclopentanoic Acid. ACS Chemical Biology, 2015, 10, 2087-2098.	3.4	12
57	Serotonergic signalling suppresses ataxin 3 aggregation and neurotoxicity in animal models of Machado-Joseph disease. Brain, 2015, 138, 3221-3237.	7.6	74
58	Synthesis of mevalonate- and fluorinated mevalonate prodrugs and their inÂvitro human plasma stability. European Journal of Medicinal Chemistry, 2015, 90, 448-461.	5.5	11
59	Ornithine Aminotransferase versus GABA Aminotransferase: Implications for the Design of New Anticancer Drugs. Medicinal Research Reviews, 2015, 35, 286-305.	10.5	28
60	nNOS inhibition during profound asphyxia reduces seizure burden and improves survival of striatal phenotypic neurons in preterm fetal sheep. Neuropharmacology, 2014, 83, 62-70.	4.1	20
61	Development and characterization of 3-(benzylsulfonamido)benzamides as potent and selective SIRT2 inhibitors. European Journal of Medicinal Chemistry, 2014, 76, 414-426.	5.5	28
62	Accessible Chiral Linker to Enhance Potency and Selectivity of Neuronal Nitric Oxide Synthase Inhibitors. ACS Medicinal Chemistry Letters, 2014, 5, 56-60.	2.8	13
63	Potent and Selective Double-Headed Thiophene-2-carboximidamide Inhibitors of Neuronal Nitric Oxide Synthase for the Treatment of Melanoma. Journal of Medicinal Chemistry, 2014, 57, 686-700.	6.4	37
64	Structures of human constitutive nitric oxide synthases. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 2667-2674.	2.5	33
65	Treatment of Amyotrophic Lateral Sclerosis: Lessons Learned from Many Failures. ACS Medicinal Chemistry Letters, 2014, 5, 1179-1181.	2.8	6
66	Development of nitric oxide synthase inhibitors for neurodegeneration and neuropathic pain. Chemical Society Reviews, 2014, 43, 6814-6838.	38.1	121
67	Combination of chiral linkers with thiophenecarboximidamide heads to improve the selectivity of inhibitors of neuronal nitric oxide synthase. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4504-4510.	2.2	7
68	Deuteration and fluorination of 1,3-bis(2-phenylethyl)pyrimidine-2,4,6(1H,3H,5H)-trione to improve its pharmacokinetic properties. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 5098-5101.	2.2	16
69	Simplified 2-Aminoquinoline-Based Scaffold for Potent and Selective Neuronal Nitric Oxide Synthase Inhibition. Journal of Medicinal Chemistry, 2014, 57, 1513-1530.	6.4	40
70	Nitric Oxide Synthase Inhibitors That Interact with Both Heme Propionate and Tetrahydrobiopterin Show High Isoform Selectivity. Journal of Medicinal Chemistry, 2014, 57, 4382-4396.	6.4	21
71	The Mobility of a Conserved Tyrosine Residue Controls Isoform-Dependent Enzymeâ€“Inhibitor Interactions in Nitric Oxide Synthases. Biochemistry, 2014, 53, 5272-5279.	2.5	19
72	Two continuous coupled assays for ornithine-Î´-aminotransferase. Analytical Biochemistry, 2013, 440, 145-149.	2.4	14

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73	A novel synthesis of 1-aryl-3-piperidone derivatives. Tetrahedron Letters, 2013, 54, 573-575.	1.4	8
74	Cyclopropyl- and methyl-containing inhibitors of neuronal nitric oxide synthase. Bioorganic and Medicinal Chemistry, 2013, 21, 1333-1343.	3.0	14
75	Structural and biological studies on bacterial nitric oxide synthase inhibitors. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18127-18131.	7.1	43
76	Structure-Guided Design of Selective Inhibitors of Neuronal Nitric Oxide Synthase. Journal of Medicinal Chemistry, 2013, 56, 3024-3032.	6.4	25
77	Probing the steric requirements of the Î³-aminobutyric acid aminotransferase active site with fluorinated analogues of vigabatrin. Bioorganic and Medicinal Chemistry, 2013, 21, 903-911.	3.0	15
78	Partial neuroprotection by nNOS inhibition during profound asphyxia in preterm fetal sheep. Experimental Neurology, 2013, 250, 282-292.	4.1	23
79	Chiral linkers to improve selectivity of double-headed neuronal nitric oxide synthase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 5674-5679.	2.2	10
80	In search of potent and selective inhibitors of neuronal nitric oxide synthase with more simple structures. Bioorganic and Medicinal Chemistry, 2013, 21, 5323-5331.	3.0	7
81	Target- and Mechanism-Based Therapeutics for Neurodegenerative Diseases: Strength in Numbers. Journal of Medicinal Chemistry, 2013, 56, 3121-3147.	6.4	121
82	Arylazanylpyrazolone Derivatives as Inhibitors of Mutant Superoxide Dismutase 1 Dependent Protein Aggregation for the Treatment of Amyotrophic Lateral Sclerosis. Journal of Medicinal Chemistry, 2013, 56, 2665-2675.	6.4	17
83	Antagonism of L-type Ca2+ channels CaV1.3 and CaV1.2 by 1,4-dihydropyrimidines and 4H-pyrans as dihydropyridine mimics. Bioorganic and Medicinal Chemistry, 2013, 21, 4365-4373.	3.0	33
84	Structureâ€“Activity Relationship of N,Nâ€²-Disubstituted Pyrimidinetriones as Ca_V1.3 Calcium Channel-Selective Antagonists for Parkinsonâ€™s Disease. Journal of Medicinal Chemistry, 2013, 56, 4786-4797.	6.4	28
85	Targeting Nitric Oxide Signaling with nNOS Inhibitors As a Novel Strategy for the Therapy and Prevention of Human Melanoma. Antioxidants and Redox Signaling, 2013, 19, 433-447.	5.4	51
86	Recent Advances Toward Improving the Bioavailability of Neuronal Nitric Oxide Synthase Inhibitors. Current Topics in Medicinal Chemistry, 2013, 13, 803-812.	2.1	7
87	Direct Amination of Î³-Halo-Î²-ketoesters with Anilines. Journal of Organic Chemistry, 2012, 77, 3462-3467.	3.2	6
88	CaV1.3-selective L-type calcium channel antagonists as potential new therapeutics for Parkinson's disease. Nature Communications, 2012, 3, 1146.	12.8	139
89	Selective Monocationic Inhibitors of Neuronal Nitric Oxide Synthase. Binding Mode Insights from Molecular Dynamics Simulations. Journal of the American Chemical Society, 2012, 134, 11559-11572.	13.7	21
90	(1S, 3S)-3-Amino-4-difluoromethylenyl-1-cyclopentanoic Acid (CPP-115), a Potent Î³-Aminobutyric Acid Aminotransferase Inactivator for the Treatment of Cocaine Addiction. Journal of Medicinal Chemistry, 2012, 55, 357-366.	6.4	43

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91	Synthesis and evaluation of novel heteroaromatic substrates of GABA aminotransferase. Bioorganic and Medicinal Chemistry, 2012, 20, 5763-5773.	3.0	15
92	The Sirtuin 2 Inhibitor AK-7 Is Neuroprotective in Huntingtonâ€™s Disease Mouse Models. Cell Reports, 2012, 2, 1492-1497.	6.4	174
93	The 2011 E. B. Hershberg Award for Important Discoveries in Medicinally Active Substances: (1S,3S)-3-Amino-4-difluoromethylenyl-1-cyclopentanoic Acid (CPP-115), a GABA Aminotransferase Inactivator and New Treatment for Drug Addiction and Infantile Spasms. Journal of Medicinal Chemistry, 2012, 55, 567-575.	6.4	32
94	Chiral Cyclohexane 1,3-Diones as Inhibitors of Mutant SOD1-Dependent Protein Aggregation for the Treatment of ALS. ACS Medicinal Chemistry Letters, 2012, 3, 584-587.	2.8	17
95	ADME-Guided Design and Synthesis of Aryloxanyl Pyrazolone Derivatives To Block Mutant Superoxide Dismutase 1 (SOD1) Cytotoxicity and Protein Aggregation: Potential Application for the Treatment of Amyotrophic Lateral Sclerosis. Journal of Medicinal Chemistry, 2012, 55, 515-527.	6.4	43
96	Cyclohexane 1,3-diones and their inhibition of mutant SOD1-dependent protein aggregation and toxicity in PC12 cells. Bioorganic and Medicinal Chemistry, 2012, 20, 1029-1045.	3.0	22
97	Intramolecular hydrogen bonding: A potential strategy for more bioavailable inhibitors of neuronal nitric oxide synthase. Bioorganic and Medicinal Chemistry, 2012, 20, 2435-2443.	3.0	35
98	Acid-facilitated debenzylation of N-Boc, N-benzyl double protected 2-aminopyridinomethyl pyrrolidine derivatives. Tetrahedron, 2012, 68, 1359-1366.	1.9	14
99	High yielding allylation of a chiral secondary alcohol containing base sensitive functional groups. Tetrahedron Letters, 2012, 53, 1319-1322.	1.4	5
100	Temperature-Dependent Spin Crossover in Neuronal Nitric Oxide Synthase Bound with the Heme-Coordinating Thioether Inhibitors. Journal of the American Chemical Society, 2011, 133, 8326-8334.	13.7	16
101	Identification of compounds protective against G93A-SOD1 toxicity for the treatment of amyotrophic lateral sclerosis. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2011, 12, 87-96.	2.1	34
102	Pyrimidine-2,4,6-trione Derivatives and Their Inhibition of Mutant SOD1-Dependent Protein Aggregation. Toward a Treatment for Amyotrophic Lateral Sclerosis. Journal of Medicinal Chemistry, 2011, 54, 2409-2421.	6.4	40
103	Symmetric Double-Headed Aminopyridines, a Novel Strategy for Potent and Membrane-Permeable Inhibitors of Neuronal Nitric Oxide Synthase. Journal of Medicinal Chemistry, 2011, 54, 2039-2048.	6.4	38
104	Synthesis of (S)-2-Boc-Amino-8-(R)-(tert-butyldimethylsilanyloxy)decanoic acid, a precursor to the unusual amino acid residue of the anticancer agent microsporin B. Tetrahedron Letters, 2011, 52, 5438-5440.	1.4	5
105	Improved Synthesis of Chiral Pyrrolidine Inhibitors and Their Binding Properties to Neuronal Nitric Oxide Synthase. Journal of Medicinal Chemistry, 2011, 54, 6399-6403.	6.4	8
106	Arylsulfanyl pyrazolones block mutant SOD1-G93A aggregation. Potential application for the treatment of amyotrophic lateral sclerosis. Bioorganic and Medicinal Chemistry, 2011, 19, 613-622.	3.0	20
107	Involvement of Neuronal Nitric Oxide Synthase in Ongoing Fetal Brain Injury following Near-Term Rabbit Hypoxia-Ischemia. Developmental Neuroscience, 2011, 33, 288-298.	2.0	20
108	Neuronal Nitric Oxide Synthase Inhibition Prevents Cerebral Palsy following Hypoxia-Ischemia in Fetal Rabbits: Comparison between JI-8 and 7-Nitroindazole. Developmental Neuroscience, 2011, 33, 312-319.	2.0	39

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109	An alkoxide anion-triggered tert-butyloxycarbonyl group migration. Mechanism and application. Tetrahedron Letters, 2010, 51, 2536-2538.	1.4	8
110	Mevalonate analogues as substrates of enzymes in the isoprenoid biosynthetic pathway of Streptococcus pneumoniae. Bioorganic and Medicinal Chemistry, 2010, 18, 1124-1134.	3.0	14
111	Antagonism of 4-substituted 1,4-dihydropyridine-3,5-dicarboxylates toward voltage-dependent L-type Ca2+ channels CaV1.3 and CaV1.2. Bioorganic and Medicinal Chemistry, 2010, 18, 3147-3158.	3.0	41
112	Structure-based design, synthesis, and biological evaluation of lipophilic-tailed monocationic inhibitors of neuronal nitric oxide synthase. Bioorganic and Medicinal Chemistry, 2010, 18, 6526-6537.	3.0	19
113	Potent and selective neuronal nitric oxide synthase inhibitors with improved cellular permeability. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 554-557.	2.2	27
114	Peripheral but crucial: A hydrophobic pocket (Tyr706, Leu337, and Met336) for potent and selective inhibition of neuronal nitric oxide synthase. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 6258-6261.	2.2	18
115	Probing Ligand-binding Pockets of the Mevalonate Pathway Enzymes from Streptococcus pneumoniae. Journal of Biological Chemistry, 2010, 285, 20654-20663.	3.4	12
116	Unexpected Binding Modes of Nitric Oxide Synthase Inhibitors Effective in the Prevention of a Cerebral Palsy Phenotype in an Animal Model. Journal of the American Chemical Society, 2010, 132, 5437-5442.	13.7	50
117	Chiral Discrimination among Aminotransferases: Inactivation by 4-Amino-4,5-dihydrothiophenecarboxylic Acid. Biochemistry, 2010, 49, 3138-3147.	2.5	12
118	Mechanism of Inactivation of Escherichia coli Aspartate Aminotransferase by (S)-4-Amino-4,5-dihydro-2-furancarboxylic Acid,. Biochemistry, 2010, 49, 10507-10515.	2.5	5
119	Potent, Highly Selective, and Orally Bioavailable Gem-Difluorinated Monocationic Inhibitors of Neuronal Nitric Oxide Synthase. Journal of the American Chemical Society, 2010, 132, 14229-14238.	13.7	55
120	Heme-Coordinating Inhibitors of Neuronal Nitric Oxide Synthase. Ironâ^'Thioether Coordination Is Stabilized by Hydrophobic Contacts without Increased Inhibitor Potency. Journal of the American Chemical Society, 2010, 132, 798-806.	13.7	20
121	Role of Zinc in Isoform-Selective Inhibitor Binding to Neuronal Nitric Oxide Synthase,. Biochemistry, 2010, 49, 10803-10810.	2.5	40
122	Exploration of the Active Site of Neuronal Nitric Oxide Synthase by the Design and Synthesis of Pyrrolidinomethyl 2-Aminopyridine Derivatives. Journal of Medicinal Chemistry, 2010, 53, 7804-7824.	6.4	45
123	Synthesis and enzymatic evaluation of 2- and 4-aminothiazole-based inhibitors of neuronal nitric oxide synthase. Beilstein Journal of Organic Chemistry, 2009, 5, 28.	2.2	11
124	Selective neuronal nitric oxide synthase inhibitors and the prevention of cerebral palsy. Annals of Neurology, 2009, 65, 209-217.	5.3	78
125	Effect of potential amine prodrugs of selective neuronal nitric oxide synthase inhibitors on bloodâ€“brain barrier penetration. Bioorganic and Medicinal Chemistry, 2009, 17, 7593-7605.	3.0	16
126	Analogues of 2-aminopyridine-based selective inhibitors of neuronal nitric oxide synthase with increased bioavailability. Bioorganic and Medicinal Chemistry, 2009, 17, 2371-2380.	3.0	38

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127	A cellular model for screening neuronal nitric oxide synthase inhibitors. Analytical Biochemistry, 2009, 390, 74-78.	2.4	16
128	Discovery of Highly Potent and Selective Inhibitors of Neuronal Nitric Oxide Synthase by Fragment Hopping. Journal of Medicinal Chemistry, 2009, 52, 779-797.	6.4	86
129	Design of Selective Neuronal Nitric Oxide Synthase Inhibitors for the Prevention and Treatment of Neurodegenerative Diseases. Accounts of Chemical Research, 2009, 42, 439-451.	15.6	118
130	Concise Route to the Chiral Pyrrolidine Core of Selective Inhibitors of Neuronal Nitric Oxide. Organic Letters, 2009, 11, 5194-5197.	4.6	9
131	Crystal Structures of Constitutive Nitric Oxide Synthases in Complex with De Novo Designed Inhibitors. Journal of Medicinal Chemistry, 2009, 52, 2060-2066.	6.4	19
132	Hypoxiaâ€“ischemia causes persistent movement deficits in a perinatal rabbit model of cerebral palsy: assessed by a new swim test. International Journal of Developmental Neuroscience, 2009, 27, 549-557.	1.6	29
133	L337H Mutant of Rat Neuronal Nitric Oxide Synthase Resembles Human Neuronal Nitric Oxide Synthase toward Inhibitors. Journal of Medicinal Chemistry, 2009, 52, 4533-4537.	6.4	11
134	From Basic Science to Blockbuster Drug: The Discovery of Lyrica. Angewandte Chemie - International Edition, 2008, 47, 3500-3504.	13.8	139
135	Synthesis and evaluation of novel aromatic substrates and competitive inhibitors of GABA aminotransferase. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 3122-3125.	2.2	21
136	Revisiting Heme Mechanisms. A Perspective on the Mechanisms of Nitric Oxide Synthase (NOS), Heme Oxygenase (HO), and Cytochrome P450s (CYP450s). Biochemistry, 2008, 47, 2231-2243.	2.5	105
137	Minimal Pharmacophoric Elements and Fragment Hopping, an Approach Directed at Molecular Diversity and Isozyme Selectivity. Design of Selective Neuronal Nitric Oxide Synthase Inhibitors. Journal of the American Chemical Society, 2008, 130, 3900-3914.	13.7	101
138	Enantiomers of 4-Amino-3-fluorobutanoic Acid as Substrates for Î³-Aminobutyric Acid Aminotransferase. Conformational Probes for GABA Binding. Biochemistry, 2007, 46, 13819-13828.	2.5	37
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