Richard B Silverman

List of Publications by Citations

255 papers	7,315 citations	42 h-index	68 g-index
277 ext. papers	8,030 ext. citations	7.3 avg, IF	6.09 L-index

#	Paper	IF	Citations
255	Mechanism-based enzyme inactivators. *Methods in Enzymology*, **1995**, 249, 240-83	1.7	267
254	Radical Ideas about Monoamine Oxidase. *Accounts of Chemical Research*, **1995**, 28, 335-342	24.3	232
253	Potent and selective inhibition of neuronal nitric oxide synthase by N omega-propyl-L-arginine. *Journal of Medicinal Chemistry*, **1997**, 40, 3869-70	8.3	174
252	Inducible nitric oxide synthase: Regulation, structure, and inhibition. *Medicinal Research Reviews*, **2020**, 40, 158-189	14.4	150
251	The sirtuin 2 inhibitor AK-7 is neuroprotective in Huntington's disease mouse models. *Cell Reports*, **2012**, 2, 1492-7	10.6	137
250	Design, synthesis, and biological activity of a difluoro-substituted, conformationally rigid vigabatrin analogue as a potent gamma-aminobutyric acid aminotransferase inhibitor. *Journal of Medicinal Chemistry*, **2003**, 46, 5292-3	8.3	119
249	CaV1.3-selective L-type calcium channel antagonists as potential new therapeutics for Parkinson's disease. *Nature Communications*, **2012**, 3, 1146	17.4	114
248	Structures of gamma-aminobutyric acid (GABA) aminotransferase, a pyridoxal 5'-phosphate, and [2Fe-2S] cluster-containing enzyme, complexed with gamma-ethynyl-GABA and with the antiepilepsy drug vigabatrin. *Journal of Biological Chemistry*, **2004**, 279, 363-73	5.4	111
247	From basic science to blockbuster drug: the discovery of Lyrica. *Angewandte Chemie - International Edition*, **2008**, 47, 3500-4	16.4	109
246	Syntheses of (S)-5-substituted 4-aminopentanoic acids: a new class of .gamma.-aminobutyric acid transaminase inactivators. *Journal of Organic Chemistry*, **1980**, 45, 815-818	4.2	108
245	Development of nitric oxide synthase inhibitors for neurodegeneration and neuropathic pain. *Chemical Society Reviews*, **2014**, 43, 6814-38	58.5	104
244	Design of selective neuronal nitric oxide synthase inhibitors for the prevention and treatment of neurodegenerative diseases. *Accounts of Chemical Research*, **2009**, 42, 439-51	24.3	104
243	A new class of conformationally rigid analogues of 4-amino-5-halopentanoic acids, potent inactivators of gamma-aminobutyric acid aminotransferase. *Journal of Medicinal Chemistry*, **2000**, 43, 706-20	8.3	104
242	Target- and mechanism-based therapeutics for neurodegenerative diseases: strength in numbers. *Journal of Medicinal Chemistry*, **2013**, 56, 3121-47	8.3	102
241	Revisiting heme mechanisms. A perspective on the mechanisms of nitric oxide synthase (NOS), Heme oxygenase (HO), and cytochrome P450s (CYP450s). *Biochemistry*, **2008**, 47, 2231-43	3.2	93
240	Mechanisms of inactivation of .gamma.-aminobutyric acid aminotransferase by the antiepilepsy drug .gamma.-vinyl GABA (vigabatrin). *Journal of the American Chemical Society*, **1991**, 113, 9341-9349	16.4	90
239	3-Alkyl-4-aminobutyric acids: the first class of anticonvulsant agents that activates L-glutamic acid decarboxylase. *Journal of Medicinal Chemistry*, **1991**, 34, 2295-8	8.3	89

238	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, 3900-14	16.4	88
237	The sirtuin-2 inhibitor AK7 is neuroprotective in models of Parkinson's disease but not amyotrophic lateral sclerosis and cerebral ischemia. *PLoS ONE*, **2015**, 10, e0116919	3.7	82
236	3-alkyl GABA and 3-alkylglutamic acid analogues: two new classes of anticonvulsant agents. *Epilepsy Research*, **1992**, 11, 103-10	3	82
235	Discovery of highly potent and selective inhibitors of neuronal nitric oxide synthase by fragment hopping. *Journal of Medicinal Chemistry*, **2009**, 52, 779-97	8.3	78
234	Mechanism of inactivation of monoamine oxidase by 1-phenylcyclopropylamine. *Biochemistry*, **1985**, 24, 2128-38	3.2	73
233	Structural basis for dipeptide amide isoform-selective inhibition of neuronal nitric oxide synthase. *Nature Structural and Molecular Biology*, **2004**, 11, 54-9	17.6	72
232	N(omega)-Nitroarginine-containing dipeptide amides. Potent and highly selective inhibitors of neuronal nitric oxide synthase. *Journal of Medicinal Chemistry*, **1999**, 42, 3147-53	8.3	72
231	Design of potential anticonvulsant agents: mechanistic classification of GABA aminotransferase inactivators. *Journal of Medicinal Chemistry*, **1989**, 32, 2413-21	8.3	72
230	Selective neuronal nitric oxide synthase inhibitors and the prevention of cerebral palsy. *Annals of Neurology*, **2009**, 65, 209-17	9.4	71
229	Computer modeling of selective regions in the active site of nitric oxide synthases: implication for the design of isoform-selective inhibitors. *Journal of Medicinal Chemistry*, **2003**, 46, 5700-11	8.3	65
228	Reduced amide bond peptidomimetics. (4S)-N-(4-amino-5-[aminoakyl]aminopentyl)-N'-nitroguanidines, potent and highly selective inhibitors of neuronal nitric oxide synthase. *Journal of Medicinal Chemistry*, **2001**, 44, 2667-70	8.3	65
227	Mechanism of inactivation of gamma-aminobutyric acid-alpha-ketoglutaric acid aminotransferase by 4-amino-5-halopentanoic acids. *Biochemistry*, **1981**, 20, 1197-203	3.2	62
226	Microsporins A and B: new histone deacetylase inhibitors from the marine-derived fungus Microsporum cf. gypseum and the solid-phase synthesis of microsporin A. *Tetrahedron*, **2007**, 63, 6535-6541	2.4	61
225	Selective neuronal nitric oxide synthase inhibitors. *Current Topics in Medicinal Chemistry*, **2005**, 5, 603-24	3	60
224	Mechanism of nitric oxide synthase. Evidence that direct hydrogen atom abstraction from the O-H bond of NG-hydroxyarginine is not relevant to the mechanism. *Journal of the American Chemical Society*, **2001**, 123, 2674-6	16.4	58
223	Mechanism-based inactivation of mitochondrial monoamine oxidase by N-(1-methylcyclopropyl)benzylamine. *Biochemistry*, **1984**, 23, 1322-32	3.2	58
222	Solid-phase, Pd-catalyzed silicon-aryl carbon bond formation. Synthesis of sansalvamide A peptide. *Organic Letters*, **2002**, 4, 4171-4	6.2	55
221	Short, highly efficient syntheses of protected 3-azido- and 4-azidoproline and their precursors. *Organic Letters*, **2001**, 3, 2481-4	6.2	54

220	Serotonergic signalling suppresses ataxin 3 aggregation and neurotoxicity in animal models of Machado-Joseph disease. *Brain*, **2015**, 138, 3221-37	11.2	51
219	Potent, highly selective, and orally bioavailable gem-difluorinated monocationic inhibitors of neuronal nitric oxide synthase. *Journal of the American Chemical Society*, **2010**, 132, 14229-38	16.4	47
218	A modulator of wild-type glucocerebrosidase improves pathogenic phenotypes in dopaminergic neuronal models of Parkinson's disease. *Science Translational Medicine*, **2019**, 11,	17.5	46
217	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, 5437-42	16.4	46
216	Fluorinated conformationally restricted gamma-aminobutyric acid aminotransferase inhibitors. *Journal of Medicinal Chemistry*, **2006**, 49, 7404-12	8.3	46
215	Mechanism of inactivation of inducible nitric oxide synthase by amidines. Irreversible enzyme inactivation without inactivator modification. *Journal of the American Chemical Society*, **2005**, 127, 858-68	16.4	43
214	Carbonyl- and sulfur-containing analogs of suberoylanilide hydroxamic acid: Potent inhibition of histone deacetylases. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 3320-9	3.4	42
213	Mechanism of inactivation of gamma-aminobutyrate aminotransferase by 4-amino-5-fluoropentanoic acid. First example of an enamine mechanism for a gamma-amino acid with a partition ratio of 0. *Biochemistry*, **1986**, 25, 6817-20	3.2	42
212	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, 433-47	8.4	41
211	Identification of the Active Site Cysteine in Bovine Liver Monoamine Oxidase B. *Journal of the American Chemical Society*, **1997**, 119, 6690-6691	16.4	41
210	Selective inhibition of neuronal nitric oxide synthase by N omega-nitroarginine-and phenylalanine-containing dipeptides and dipeptide esters. *Journal of Medicinal Chemistry*, **1997**, 40, 2813-7	8.3	41
209	Rapid, high-yield, solid-phase synthesis of the antitumor antibiotic sansalvamide A using a side-chain-tethered phenylalanine building block. *Organic Letters*, **2000**, 2, 3743-6	6.2	41
208	Mechanism of inactivation of gamma-cystathionase by beta,beta,beta-trifluoroalanine. *Biochemistry*, **1977**, 16, 5515-20	3.2	41
207	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, 7804-24	8.3	40
206	Aromatic reduced amide bond peptidomimetics as selective inhibitors of neuronal nitric oxide synthase. *Journal of Medicinal Chemistry*, **2003**, 46, 1661-9	8.3	40
205	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, 18127-31	11.5	38
204	Mild and selective sodium azide mediated cleavage of p-nitrobenzoic esters. *Organic Letters*, **2001**, 3, 2477-9	6.2	37
203	Irreversible inactivation of pig brain gamma-aminobutyric acid-alpha-ketoglutarate transaminase by 4-amino-5-halopentanoic acids. *Biochemical and Biophysical Research Communications*, **1980**, 95, 250-5	3.4	37

202	(1S, 3S)-3-amino-4-difluoromethylenyl-1-cyclopentanoic acid (CPP-115), a potent □aminobutyric acid aminotransferase inactivator for the treatment of cocaine addiction. *Journal of Medicinal Chemistry*, **2012**, 55, 357-66	8.3	36
201	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, 515-27	8.3	36
200	Analogues of 2-aminopyridine-based selective inhibitors of neuronal nitric oxide synthase with increased bioavailability. *Bioorganic and Medicinal Chemistry*, **2009**, 17, 2371-80	3.4	36
199	A Convenient Synthesis of 3-Alkyl-4-aminobutanoic Acids. *Synthesis*, **1989**, 1989, 953-955	2.9	36
198	Antagonism of 4-substituted 1,4-dihydropyridine-3,5-dicarboxylates toward voltage-dependent L-type Ca2+ channels Ca V 1.3 and Ca V 1.2. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 3147-58	3.4	35
197	Enantiomers of 4-amino-3-fluorobutanoic acid as substrates for gamma-aminobutyric acid aminotransferase. Conformational probes for GABA binding. *Biochemistry*, **2007**, 46, 13819-28	3.2	35
196	The potential use of mechanism-based enzyme inactivators in medicine. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **1988**, 2, 73-90		35
195	Simplified 2-aminoquinoline-based scaffold for potent and selective neuronal nitric oxide synthase inhibition. *Journal of Medicinal Chemistry*, **2014**, 57, 1513-30	8.3	34
194	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, 2409-21	8.3	34
193	An Aromatization Mechanism of Inactivation of □Aminobutyric Acid Aminotransferase for the Antibiotic l-Cycloserine. *Journal of the American Chemical Society*, **1998**, 120, 2256-2267	16.4	34
192	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	8.3	33
191	Symmetric double-headed aminopyridines, a novel strategy for potent and membrane-permeable inhibitors of neuronal nitric oxide synthase. *Journal of Medicinal Chemistry*, **2011**, 54, 2039-48	8.3	33
190	Role of zinc in isoform-selective inhibitor binding to neuronal nitric oxide synthase. *Biochemistry*, **2010**, 49, 10803-10	3.2	33
189	New substrates and inhibitors of gamma-aminobutyric acid aminotransferase containing bioisosteres of the carboxylic acid group: design, synthesis, and biological activity. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 1331-8	3.4	33
188	Inhibition and substrate activity of conformationally rigid vigabatrin analogues with gamma-aminobutyric acid aminotransferase. *Journal of Medicinal Chemistry*, **1999**, 42, 4725-8	8.3	33
187	Effect of alpha-methylation on inactivation of monoamine oxidase by N-cyclopropylbenzylamine. *Biochemistry*, **1984**, 23, 5206-13	3.2	33
186	Synthesis and evaluation of peptidomimetics as selective inhibitors and active site probes of nitric oxide synthases. *Journal of Medicinal Chemistry*, **2000**, 43, 2938-45	8.3	32
185	Revised mechanism for inactivation of mitochondrial monoamine oxidase by N-cyclopropylbenzylamine. *Biochemistry*, **1985**, 24, 6538-43	3.2	32

184	Identification of the amino acid bound to the labile adduct formed during inactivation of monoamine oxidase by 1-phenylcyclopropylamine. *Biochemical and Biophysical Research Communications*, **1986**, 135, 154-9	3.4	32
183	Design and Mechanism of (S)-3-Amino-4-(difluoromethylenyl)cyclopent-1-ene-1-carboxylic Acid, a Highly Potent Aminobutyric Acid Aminotransferase Inactivator for the Treatment of Addiction. *Journal of the American Chemical Society*, **2018**, 140, 2151-2164	16.4	31
182	Inactivation and inhibition of gamma-aminobutyric acid aminotransferase by conformationally restricted vigabatrin analogues. *Journal of Medicinal Chemistry*, **2002**, 45, 4531-9	8.3	31
181	Design of a conformationally restricted analogue of the antiepilepsy drug Vigabatrin that directs its mechanism of inactivation of gamma-aminobutyric acid aminotransferase. *Journal of the American Chemical Society*, **2002**, 124, 1620-4	16.4	31
180	Syntheses and evaluation of fluorinated conformationally restricted analogues of GABA as potential inhibitors of GABA aminotransferase. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 2242-52	3.4	30
179	Efficient Solid-Phase Synthesis of Compounds Containing Phenylalanine and Its Derivatives via Side-Chain Attachment to the Polymer Support. *Journal of the American Chemical Society*, **1999**, 121, 8407-8408	16.4	30
178	Design and Mechanism of GABA Aminotransferase Inactivators. Treatments for Epilepsies and Addictions. *Chemical Reviews*, **2018**, 118, 4037-4070	68.1	29
177	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		29
176	Potent and selective conformationally restricted neuronal nitric oxide synthase inhibitors. *Journal of Medicinal Chemistry*, **2004**, 47, 703-10	8.3	29
175	Structures of human constitutive nitric oxide synthases. *Acta Crystallographica Section D: Biological Crystallography*, **2014**, 70, 2667-74		28
174	Intramolecular hydrogen bonding: a potential strategy for more bioavailable inhibitors of neuronal nitric oxide synthase. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 2435-43	3.4	28
173	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, 312-9	2.2	28
172	Structure-based design and synthesis of N(omega)-nitro-L-arginine-containing peptidomimetics as selective inhibitors of neuronal nitric oxide synthase. Displacement of the heme structural water. *Journal of Medicinal Chemistry*, **2007**, 50, 2089-99	8.3	28
171	Structures of the neuronal and endothelial nitric oxide synthase heme domain with D-nitroarginine-containing dipeptide inhibitors bound. *Biochemistry*, **2004**, 43, 5181-7	3.2	28
170	Traceless solid-phase synthesis of chiral 3-aryl beta-amino acid containing peptides using a side-chain-tethered beta-amino acid building block. *Organic Letters*, **2000**, 2, 303-6	6.2	28
169	The organic chemistry of mechanism-based enzyme inhibition: a chemical approach to drug design. *Medicinal Research Reviews*, **1984**, 4, 415-47	14.4	28
168	Suppression of Hepatocellular Carcinoma by Inhibition of Overexpressed Ornithine Aminotransferase. *ACS Medicinal Chemistry Letters*, **2015**, 6, 840-4	4.3	27
167	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, 587-75	8.3	27

166	Hypoxia-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, 549-57	2.7	27
165	Imidazole-containing amino acids as selective inhibitors of nitric oxide synthases. *Bioorganic and Medicinal Chemistry*, **1999**, 7, 1941-51	3.4	27
164	Mechanism of inactivation of monoamine oxidase B by (aminomethyl)trimethylsilane. *Journal of the American Chemical Society*, **1990**, 112, 4499-4507	16.4	27
163	N-(1-Methyl)cyclopropylbenzylamine: a novel inactivator of mitochondrial monoamine oxidase. *Biochemical and Biophysical Research Communications*, **1981**, 101, 1396-401	3.4	27
162	Mechanism of Inactivation of Neuronal Nitric Oxide Synthase by N□Allyl-l-Arginine. *Journal of the American Chemical Society*, **1997**, 119, 10888-10902	16.4	26
161	Mechanistic Studies of the Inactivation of Inducible Nitric Oxide Synthase by N5-(1-Iminoethyl)-l-ornithine (l-NIO). *Journal of the American Chemical Society*, **1999**, 121, 903-916	16.4	26
160	Unusual Mechanistic Difference in the Inactivation of □Aminobutyric Acid Aminotransferase by (E)- and (Z)-4-Amino-6-fluoro-5-hexenoic Acid. *Journal of the American Chemical Society*, **1996**, 118, 1253-1261	16.4	26
159	Mechanisms of Inactivation of □Aminobutyric Acid Aminotransferase by 4-Amino-5-fluoro-5-hexenoic Acid. *Journal of the American Chemical Society*, **1996**, 118, 1241-1252	16.4	26
158	The use of mechanism-based inactivators to probe the mechanism of monoamine oxidase. *Biochemical Society Transactions*, **1991**, 19, 201-6	5.1	26
157	Electrostatic Control of Isoform Selective Inhibitor Binding in Nitric Oxide Synthase. *Biochemistry*, **2016**, 55, 3702-7	3.2	25
156	Development and characterization of 3-(benzylsulfonamido)benzamides as potent and selective SIRT2 inhibitors. *European Journal of Medicinal Chemistry*, **2014**, 76, 414-26	6.8	25
155	Structure-guided design of selective inhibitors of neuronal nitric oxide synthase. *Journal of Medicinal Chemistry*, **2013**, 56, 3024-32	8.3	25
154	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, 4365-73	3.4	25
153	Potent and selective neuronal nitric oxide synthase inhibitors with improved cellular permeability. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 554-7	2.9	25
152	Mechanism of inactivation of .gamma.-aminobutyric acid aminotransferase by 4-amino-5-hexynoic acid (.gamma.-ethynyl GABA). *Journal of the American Chemical Society*, **1991**, 113, 9329-9340	16.4	25
151	Regulation of aldosterone secretion by Cav1.3. *Scientific Reports*, **2016**, 6, 24697	4.9	24
150	Novel 2,4-disubstituted pyrimidines as potent, selective, and cell-permeable inhibitors of neuronal nitric oxide synthase. *Journal of Medicinal Chemistry*, **2015**, 58, 1067-88	8.3	24
149	Structure-activity relationship of N,NRdisubstituted pyrimidinetriones as Ca(V)1.3 calcium channel-selective antagonists for ParkinsonR□s disease. *Journal of Medicinal Chemistry*, **2013**, 56, 4786-97	8.3	24

148	Isolation and characterization of the product of inactivation of gamma-aminobutyric acid aminotransferase by gabaculine. *Bioorganic and Medicinal Chemistry*, **1999**, 7, 1581-90	3.4	24
147	Ornithine aminotransferase versus GABA aminotransferase: implications for the design of new anticancer drugs. *Medicinal Research Reviews*, **2015**, 35, 286-305	14.4	23
146	Mechanism of inactivation of □aminobutyric acid aminotransferase by (1S,3S)-3-amino-4-difluoromethylene-1-cyclopentanoic acid (CPP-115). *Journal of the American Chemical Society*, **2015**, 137, 2628-40	16.4	23
145	Mechanistic crystallography. Mechanism of inactivation of gamma-aminobutyric acid aminotransferase by (1R,3S,4S)-3-amino-4-fluorocyclopentane-1-carboxylic acid as elucidated by crystallography. *Biochemistry*, **2004**, 43, 14057-63	3.2	23
144	Silicon-based aromatic transferring linkers for traceless solid-phase synthesis of aryl-, polyaryl-, and heteroaryl-containing compounds. *Tetrahedron*, **2001**, 57, 5339-5352	2.4	23
143	Inactivation of gamma-aminobutyric acid aminotransferase by (S,E)-4-amino-5-fluoropent-2-enoic acid and effect on the enzyme of (E)-3-(1-aminocyclopropyl)-2-propenoic acid. *Journal of Medicinal Chemistry*, **1986**, 29, 1840-6	8.3	23
142	Conformationally restricted dipeptide amides as potent and selective neuronal nitric oxide synthase inhibitors. *Journal of Medicinal Chemistry*, **2006**, 49, 6254-63	8.3	22
141	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	8.3	20
140	PLP and GABA trigger GabR-mediated transcription regulation in via external aldimine formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 3891-3896	11.5	20
139	□Glucocerebrosidase Modulators Promote Dimerization of □Glucocerebrosidase and Reveal an Allosteric Binding Site. *Journal of the American Chemical Society*, **2018**, 140, 5914-5924	16.4	20
138	Total Synthesis of Tambromycin Enabled by Indole C-H Functionalization. *Organic Letters*, **2018**, 20, 2369-2373	6.2	20
137	Selective monocationic inhibitors of neuronal nitric oxide synthase. Binding mode insights from molecular dynamics simulations. *Journal of the American Chemical Society*, **2012**, 134, 11559-72	16.4	20
136	Selective L-nitroargininylaminopyrrolidine and L-nitroargininylaminopiperidine neuronal nitric oxide synthase inhibitors. *Bioorganic and Medicinal Chemistry*, **2007**, 15, 1928-38	3.4	20
135	Structural modifications of (1S,3S)-3-amino-4-difluoromethylenecyclopentanecarboxylic acid, a potent irreversible inhibitor of GABA aminotransferase. *Bioorganic and Medicinal Chemistry Letters*, **2007**, 17, 1651-4	2.9	19
134	Synthesis and evaluation of novel aromatic substrates and competitive inhibitors of GABA aminotransferase. *Bioorganic and Medicinal Chemistry Letters*, **2008**, 18, 3122-5	2.9	19
133	4-Amino-2-(substituted methyl)-2-butenoic acids: substrates and potent inhibitors of gamma-aminobutyric acid aminotransferase. *Journal of Medicinal Chemistry*, **1986**, 29, 764-70	8.3	19
132	Cyclohexane 1,3-diones and their inhibition of mutant SOD1-dependent protein aggregation and toxicity in PC12 cells. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 1029-45	3.4	18
131	Partial neuroprotection by nNOS inhibition during profound asphyxia in preterm fetal sheep. *Experimental Neurology*, **2013**, 250, 282-92	5.7	18

130	nNOS inhibition during profound asphyxia reduces seizure burden and improves survival of striatal phenotypic neurons in preterm fetal sheep. *Neuropharmacology*, **2014**, 83, 62-70	5.5	18
129	Heme-coordinating inhibitors of neuronal nitric oxide synthase. Iron-thioether coordination is stabilized by hydrophobic contacts without increased inhibitor potency. *Journal of the American Chemical Society*, **2010**, 132, 798-806	16.4	18
128	Crystal structures of constitutive nitric oxide synthases in complex with de novo designed inhibitors. *Journal of Medicinal Chemistry*, **2009**, 52, 2060-6	8.3	18
127	Involvement of neuronal nitric oxide synthase in ongoing fetal brain injury following near-term rabbit hypoxia-ischemia. *Developmental Neuroscience*, **2011**, 33, 288-98	2.2	18
126	Exploring the binding conformations of bulkier dipeptide amide inhibitors in constitutive nitric oxide synthases. *Biochemistry*, **2005**, 44, 15222-9	3.2	18
125	Inactivation of gamma-aminobutyric acid aminotransferase by (Z)-4-amino-2-fluorobut-2-enoic acid. *Biochemistry*, **1988**, 27, 3285-9	3.2	18
124	2-Aminopyridines with a Truncated Side Chain To Improve Human Neuronal Nitric Oxide Synthase Inhibitory Potency and Selectivity. *Journal of Medicinal Chemistry*, **2015**, 58, 5548-60	8.3	17
123	Phenyl Ether- and Aniline-Containing 2-Aminoquinolines as Potent and Selective Inhibitors of Neuronal Nitric Oxide Synthase. *Journal of Medicinal Chemistry*, **2015**, 58, 8694-712	8.3	17
122	Peripheral but crucial: a hydrophobic pocket (Tyr(706), Leu(337), and Met(336)) for potent and selective inhibition of neuronal nitric oxide synthase. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 6258-61	2.9	17
121	Design, synthesis, and biological testing of potential heme-coordinating nitric oxide synthase inhibitors. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 3185-98	3.4	17
120	Mechanism of inactivation of gamma-aminobutyric acid aminotransferase by (S,E)-4-amino-5-fluoropent-2-enoic acid. *Biochemical and Biophysical Research Communications*, **1988**, 150, 942-6	3.4	17
119	Arylsulfanyl pyrazolones block mutant SOD1-G93A aggregation. Potential application for the treatment of amyotrophic lateral sclerosis. *Bioorganic and Medicinal Chemistry*, **2011**, 19, 613-22	3.4	16
118	(+/-)-(1S,2R,5S)-5-Amino-2-fluorocyclohex-3-enecarboxylic acid. A potent GABA aminotransferase inactivator that irreversibly inhibits via an elimination-aromatization pathway. *Biochemistry*, **2006**, 45, 14513-22	3.2	16
117	Inactivation of mitochondrial monoamine oxidase B by methylthio-substituted benzylamines. *Bioorganic and Medicinal Chemistry*, **2003**, 11, 4423-30	3.4	16
116	Mechanism-based enzyme inactivation via a diactivated cyclopropane intermediate. *Journal of the American Chemical Society*, **1993**, 115, 2982-2983	16.4	16
115	Optimization of Blood-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	8.3	15
114	Nitric oxide synthase inhibitors that interact with both heme propionate and tetrahydrobiopterin show high isoform selectivity. *Journal of Medicinal Chemistry*, **2014**, 57, 4382-96	8.3	15
113	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	4.3	15

112	Structure-based design, synthesis, and biological evaluation of lipophilic-tailed monocationic inhibitors of neuronal nitric oxide synthase. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 6526-37	3.4	15
111	Remote protection prevents unwanted cyclizations with 2-aminopyridines. *Tetrahedron Letters*, **2006**, 47, 6113-6115	2	15
110	Mechanism of Inactivation of γ-Aminobutyric Acid Aminotransferase by (S)-4-Amino-4,5-dihydro-2-thiophenecarboxylic Acid. *Journal of the American Chemical Society*, **1999**, 121, 7751-7759	16.4	15
109	Design and mechanism of tetrahydrothiophene-based γ-aminobutyric acid aminotransferase inactivators. *Journal of the American Chemical Society*, **2015**, 137, 4525-33	16.4	14
108	Cyclopropyl- and methyl-containing inhibitors of neuronal nitric oxide synthase. *Bioorganic and Medicinal Chemistry*, **2013**, 21, 1333-43	3.4	14
107	Synthesis and evaluation of novel heteroaromatic substrates of GABA aminotransferase. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 5763-73	3.4	14
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