Citation Report
List of articles citing

d-Amino acid oxidase and serine racemase in human brain: normal distribution and altered expression in schizoph

DOI: 10.1111/j.1460-9568.2007.05769.x
European Journal of Neuroscience, 2007, 26, 1657-69.

Source: https://exaly.com/paper-pdf/42847229/citation-report.pdf
Version: 2024-04-27

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
151	Investigation of G72 (DAOA) expression in the human brain. **2008**, 8, 94		26
150	Serine racemase is predominantly localized in neurons in mouse brain. **2008**, 510, 641-54		202
149	D-amino acid oxidase activity and expression are increased in schizophrenia. *Molecular Psychiatry*, **2008**, 13, 658-60	15.1	84
148	D-serine signalling as a prominent determinant of neuronal-glial dialogue in the healthy and diseased brain. **2008**, 12, 1872-84		33
147	Allosteric modulation of NMDA receptor via elevation of brain glycine and D-serine: the therapeutic potentials for schizophrenia. **2008**, 120, 317-32		102
146	Changes in plasma glycine, L-serine, and D-serine levels in patients with schizophrenia as their clinical symptoms improve: results from the Juntendo University Schizophrenia Projects (JUSP). *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2008**, 32, 1905-12	5.5	60
145	Antipsychotic drugs: comparison in animal models of efficacy, neurotransmitter regulation, and neuroprotection. **2008**, 60, 358-403		190
144	Cerebrospinal fluid: identification of diagnostic markers for schizophrenia. **2008**, 8, 209-16		23
143	The behavioral and neurochemical effects of a novel D-amino acid oxidase inhibitor compound 8 [4H-thieno [3,2-b]pyrrole-5-carboxylic acid] and D-serine. **2009**, 328, 921-30		74
142	Potential pathophysiological role of D-amino acid oxidase in schizophrenia: immunohistochemical and in situ hybridization study of the expression in human and rat brain. **2009**, 116, 1335-47		40
141	Up-regulation of D-serine might induce GABAergic neuronal degeneration in the cerebral cortex and hippocampus in the mouse pilocarpine model of epilepsy. **2009**, 34, 1209-18		22
140	Recombinant human serine racemase: enzymologic characterization and comparison with its mouse ortholog. **2009**, 63, 62-7		33
139	Co-administration of a D-amino acid oxidase inhibitor potentiates the efficacy of D-serine in attenuating prepulse inhibition deficits after administration of dizocilpine. *Biological Psychiatry*, **2009**, 65, 1103-6	7.9	107
138	Discovery, SAR, and pharmacokinetics of a novel 3-hydroxyquinolin-2(1H)-one series of potent D-amino acid oxidase (DAAO) inhibitors. **2009**, 52, 3576-85		91
137	Metabolism of the neuromodulator D-serine. **2010**, 67, 2387-404		82
136	D-Aspartic acid induced oxidative stress and mitochondrial dysfunctions in testis of prepubertal rats. **2010**, 38, 817-27		21
135	Changes in extracellular kynurenic acid concentrations in rat prefrontal cortex after D-kynurenine infusion: an in vivo microdialysis study. **2010**, 35, 559-63		22

134	Site-directed mutagenesis of rice serine racemase: evidence that Glu219 and Asp225 mediate the effects of Mg2+ on the activity. **2010**, 7, 1579-90		6
133	D-Serine metabolism in C6 glioma cells: Involvement of alanine-serine-cysteine transporter (ASCT2) and serine racemase (SRR) but not D-amino acid oxidase (DAO). **2010**, 88, 1829-40		18
132	The involvement of the NMDA receptor D-serine/glycine site in the pathophysiology and treatment of schizophrenia. **2010**, 34, 351-72		104
131	Genetic association studies of glutamate, GABA and related genes in schizophrenia and bipolar disorder: a decade of advance. **2010**, 34, 958-77		124
130	Analysis of strain-dependent prepulse inhibition points to a role for Shmt1 (SHMT1) in mice and in schizophrenia. **2010**, 115, 1374-85		11
129	Genetic loss of D-amino acid oxidase activity reverses schizophrenia-like phenotypes in mice. **2010**, 9, 11-25		44
128	The neurobiology of D-amino acid oxidase and its involvement in schizophrenia. *Molecular Psychiatry*, **2010**, 15, 122-37	15.1	115
127	Advancing a functional genomics for schizophrenia: psychopathological and cognitive phenotypes in mutants with gene disruption. **2010**, 83, 162-76		29
126	Differential effects of DAAO on regional activation and functional connectivity in schizophrenia, bipolar disorder and controls. **2011**, 56, 2283-91		22
125	D-Amino acid metabolism in mammals: biosynthesis, degradation and analytical aspects of the metabolic study. **2011**, 879, 3162-8		62
124	Analysis of free D-serine in mammals and its biological relevance. **2011**, 879, 3169-83		102
123	D-amino acid oxidase knockdown in the mouse cerebellum reduces NR2A mRNA. **2011**, 46, 167-75		15
122	Significance of NMDA receptor-related glutamatergic amino acid levels in peripheral blood of patients with schizophrenia. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2011**, 35, 29-39	5.5	22
121	Modulation of NMDA receptor function by inhibition of D-amino acid oxidase in rodent brain. **2011**, 61, 1001-15		31
120	Biophysical and physicochemical methods differentiate highly ligand-efficient human D-amino acid oxidase inhibitors. **2011**, 46, 4808-19		20
119	Is rat an appropriate animal model to study the involvement of D-serine catabolism in schizophrenia? Insights from characterization of D-amino acid oxidase. **2011**, 278, 4362-73		23
118	Serine racemase deletion disrupts memory for order and alters cortical dendritic morphology. **2011** , 10, 210-22		92
117	The association of schizophrenia risk D-amino acid oxidase polymorphisms with sensorimotor gating, working memory and personality in healthy males. **2011**, 36, 1677-88		29

116	D-serine: the right or wrong isoform?. **2011**, 1401, 104-17	27
115	Addressing the Conformational Flexibility of Serine Racemase by Combining Targeted Molecular Dynamics, Conformational Sampling and Docking Studies. **2011**, 30, 317-28	6
114	A novel pyridoxal 5'-phosphate-dependent amino acid racemase in the Aplysia californica central nervous system. **2011**, 286, 13765-74	27
113	D-amino acid oxidase activity is inhibited by an interaction with bassoon protein at the presynaptic active zone. **2011**, 286, 28867-28875	21
112	Association between SNPs and gene expression in multiple regions of the human brain. **2012**, 2, e113	37
111	Plasma levels of D-serine in Brazilian individuals with schizophrenia. **2012**, 142, 83-7	60
110	Cerebrospinal fluid biomarker candidates of schizophrenia: where do we stand?. **2012**, 262, 375-91	34
109	The cerebellum and neuropsychiatric disorders. **2012**, 198, 527-32	51
108	Contributions of the D-serine pathway to schizophrenia. **2012**, 62, 1484-503	90
107	The role of D-amino acids in amyotrophic lateral sclerosis pathogenesis: a review. **2012**, 43, 1823-31	38
106	D-serine and schizophrenia: an update. **2012**, 12, 801-12	21
105	CHAPTER 4:Glutamatergic Approaches for the Treatment of Schizophrenia. **2012**, 56-98	1
104	Structure-function relationships in human D-amino acid oxidase. **2012**, 43, 1833-50	82
103	D-Amino acids in the brain and mutant rodents lacking D-amino-acid oxidase activity. **2012**, 43, 1811-21	36
102	Glial D-serine gates NMDA receptors at excitatory synapses in prefrontal cortex. **2012**, 22, 595-606	137
101	Enzymatic transamination of D-kynurenine generates kynurenic acid in rat and human brain. **2012**, 120, 1026-35	13
100	Kynurenic acid and 3-hydroxykynurenine production from D-kynurenine in mice. **2012**, 1455, 1-9	22
99	Glutamate signaling in the pathophysiology and therapy of schizophrenia. **2012**, 100, 665-77	106

98	D-Serine metabolism: new insights into the modulation of D-amino acid oxidase activity. **2013**, 41, 1551-6		14
97	A method for the determination of D-kynurenine in biological tissues. **2013**, 405, 9747-54		2
96	NMDA-receptor coagonists in serum, plasma, and cerebrospinal fluid of schizophrenia patients: a meta-analysis of case-control studies. **2013**, 37, 1587-96		27
95	Roles of glial cells in schizophrenia: possible targets for therapeutic approaches. **2013**, 53, 49-60		53
94	Regulation of Extracellular Concentrations of d-Serine in the Central Nervous System Revealed by d-Amino Acid Oxidase Microelectrode Biosensors. *Neuromethods*, **2013**, 201-219	0.4	
93	Reduced D-serine levels in the nucleus accumbens of cocaine-treated rats hinder the induction of NMDA receptor-dependent synaptic plasticity. **2013**, 136, 1216-30		59
92	Neonatal disruption of serine racemase causes schizophrenia-like behavioral abnormalities in adulthood: clinical rescue by d-serine. *PLoS ONE*, **2013**, 8, e62438	3.7	24
91	Biomarker investigations related to pathophysiological pathways in schizophrenia and psychosis. *Frontiers in Cellular Neuroscience*, **2013**, 7, 95	6.1	26
90	D-Serine in Neuropsychiatric Disorders: New Advances. **2014**, 2014, 1-16		14
89	Serine racemase: a key player in apoptosis and necrosis. **2014**, 6, 9		18
88	The role of D-serine and glycine as co-agonists of NMDA receptors in motor neuron degeneration and amyotrophic lateral sclerosis (ALS). **2014**, 6, 10		38
87	D-amino acid oxidase is expressed in the ventral tegmental area and modulates cortical dopamine. **2014**, 6, 11		10
86	Activity of D-amino acid oxidase is widespread in the human central nervous system. **2014**, 6, 14		33
85	The role of D-serine as co-agonist of NMDA receptors in the nucleus accumbens: relevance to cocaine addiction. **2014**, 6, 16		14
84	GlyT-1 Inhibitors: From Hits to Clinical Candidates. **2014**, 51-99		8
83	Increased burst-firing of ventral tegmental area dopaminergic neurons in D-amino acid oxidase knockout mice in vivo. *European Journal of Neuroscience*, **2014**, 40, 2999-3009	3.5	11
82	D-serine and serine racemase are localized to neurons in the adult mouse and human forebrain. **2014**, 34, 419-35		91
81	The degradation (by distinct pathways) of human D-amino acid oxidase and its interacting partner pLG72--two key proteins in D-serine catabolism in the brain. **2014**, 281, 708-23		26

80	Benzoate, a D-amino acid oxidase inhibitor, for the treatment of early-phase Alzheimer disease: a randomized, double-blind, placebo-controlled trial. *Biological Psychiatry*, **2014**, 75, 678-85	7.9	80
79	Molecular dynamics simulation, binding free energy calculation and molecular docking of human D-amino acid oxidase (DAAO) with its inhibitors. **2014**, 40, 1167-1189		6
78	Pathogenic effects of amyotrophic lateral sclerosis-linked mutation in D-amino acid oxidase are mediated by D-serine. **2014**, 35, 876-85		26
77	D-Serine in neurobiology: CNS neurotransmission and neuromodulation. **2014**, 41, 164-76		18
76	d-amino acid oxidase knockout (Dao(-/-)) mice show enhanced short-term memory performance and heightened anxiety, but no sleep or circadian rhythm disruption. *European Journal of Neuroscience*, **2015**, 41, 1167-79	3.5	21
75	Time and space profiling of NMDA receptor co-agonist functions. **2015**, 135, 210-25		63
74	Alternative kynurenic acid synthesis routes studied in the rat cerebellum. *Frontiers in Cellular Neuroscience*, **2015**, 9, 178	6.1	32
73	Effects of sodium benzoate on pre-pulse inhibition deficits and hyperlocomotion in mice after administration of phencyclidine. **2015**, 27, 159-67		32
72	The glutamate hypothesis of schizophrenia: evidence from human brain tissue studies. **2015**, 1338, 38-57		150
71	Schizophrenia drug discovery and development in an evolving era: are new drug targets fulfilling expectations?. **2015**, 29, 230-8		42
70	Structure-function relationships in human d-amino acid oxidase variants corresponding to known SNPs. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2015**, 1854, 1150-9	4	18
69	A role for D-aspartate oxidase in schizophrenia and in schizophrenia-related symptoms induced by phencyclidine in mice. **2015**, 5, e512		34
68	Contributions of spinal D-amino acid oxidase to chronic morphine-induced hyperalgesia. **2015**, 116, 131-8		13
67	The current and potential impact of genetics and genomics on neuropsychopharmacology. **2015**, 25, 671-81		9
66	In vivo magnetic resonance studies reveal neuroanatomical and neurochemical abnormalities in the serine racemase knockout mouse model of schizophrenia. **2015**, 73, 269-74		24
65	Modeling Gene□Gene Interactions in Schizophrenia. **2016**, 23, 327-343		
64	Role of d-amino acid oxidase in the production of kynurenine pathway metabolites from d-tryptophan in mice. **2016**, 136, 804-814		10
63	Supplementation with D-serine prevents the onset of cognitive deficits in adult offspring after maternal immune activation. *Scientific Reports*, **2016**, 6, 37261	4.9	23

62	Presymptomatic Alterations in Amino Acid Metabolism and DNA Methylation in the Cerebellum of a Murine Model of Niemann-Pick Type C Disease. **2016**, 186, 1582-97		18
61	Physiological Roles of d-Serine in the Central Nervous System. **2016**, 27-50		
60	d-Serine Signaling and Schizophrenia. **2016**, 81-99		
59	Oral administration of D-alanine in monkeys robustly increases plasma and cerebrospinal fluid levels but experimental D-amino acid oxidase inhibitors had minimal effect. **2016**, 30, 887-95		4
58	Peroxisomes in brain development and function. **2016**, 1863, 934-55		91
57	D-Amino-Acid Oxidase Inhibition Increases D-Serine Plasma Levels in Mouse But not in Monkey or Dog. **2016**, 41, 1610-9		18
56	Cyclopropane derivatives as potential human serine racemase inhibitors: unveiling novel insights into a difficult target. **2016**, 31, 645-52		11
55	Differential regulation of NMDA receptors by d-serine and glycine in mammalian spinal locomotor networks. **2017**, 117, 1877-1893		7
54	Understanding renal nuclear protein accumulation: an in vitro approach to explain an in vivo phenomenon. **2017**, 91, 3599-3611		5
53	Alteration in plasma and striatal levels of d-serine after d-serine administration with or without nicergoline: An microdialysis study. **2017**, 3, e00399		3
52	Decreased free d-aspartate levels are linked to enhanced d-aspartate oxidase activity in the dorsolateral prefrontal cortex of schizophrenia patients. **2017**, 3, 16		38
51	Prediction Analysis for Transition to Schizophrenia in Individuals at Clinical High Risk for Psychosis: The Relationship of , and Variants with Negative Symptoms and Cognitive Deficits. *Frontiers in Psychiatry*, **2017**, 8, 292	5	11
50	Expression of D-Amino Acid Oxidase (/) and D-Amino Acid Oxidase Activator () during Development and Aging in the Human Post-mortem Brain. *Frontiers in Neuroanatomy*, **2017**, 11, 31	3.6	21
49	Clinical and biochemical study of d-serine metabolism among schizophrenia patients. *Neuropsychiatric Disease and Treatment*, **2017**, 13, 1057-1063	3.1	14
48	Human d-amino acid oxidase: The inactive G183R variant. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2018**, 1866, 822-830	4	6
47	Enhancement of Brain d-Serine Mediates Recovery of Cognitive Function after Traumatic Brain Injury. *Journal of Neurotrauma*, **2018**, 35, 1667-1680	5.4	13
46	Astroglial correlates of neuropsychiatric disease: From astrocytopathy to astrogliosis. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2018**, 87, 126-146	5.5	59
45	Stimulation of N-methyl-D-aspartate receptors by exogenous and endogenous ligands improves outcome of brain injury. *Current Opinion in Neurology*, **2018**, 31, 687-692	7.1	8

44	Changes in Serine Racemase-Dependent Modulation of NMDA Receptor: Impact on Physiological and Pathological Brain Aging. *Frontiers in Molecular Biosciences*, **2018**, 5, 106	5.6	11
43	Human D-Amino Acid Oxidase: Structure, Function, and Regulation. *Frontiers in Molecular Biosciences*, **2018**, 5, 107	5.6	36
42	DNA methylation landscape of the genes regulating D-serine and D-aspartate metabolism in post-mortem brain from controls and subjects with schizophrenia. *Scientific Reports*, **2018**, 8, 10163	4.9	23
41	Relevance of Alternative Routes of Kynurenic Acid Production in the Brain. *Oxidative Medicine and Cellular Longevity*, **2018**, 2018, 5272741	6.7	34
40	Lack of Effect of Sodium Benzoate at Reported Clinical Therapeutic Concentration on d-Alanine Metabolism in Dogs. *ACS Chemical Neuroscience*, **2018**, 9, 2832-2837	5.7	9
39	Biochemical Properties of Human D-amino Acid Oxidase Variants and Their Potential Significance in Pathologies. *Frontiers in Molecular Biosciences*, **2018**, 5, 55	5.6	16
38	Selenoprotein W as a molecular target of d-amino acid oxidase is regulated by d-amino acid in chicken neurons. *Metallomics*, **2018**, 10, 751-758	4.5	8
37	D-Amino Acid Oxidase Inhibition: A New Glutamate Twist for Clozapine Augmentation in Schizophrenia?. *Biological Psychiatry*, **2018**, 84, 396-398	7.9	7
36	Selective demethylation of two CpG sites causes postnatal activation of the Dao gene and consequent removal of D-serine within the mouse cerebellum. *Clinical Epigenetics*, **2019**, 11, 149	7.7	18
35	D-Serine: Potential Therapeutic Agent and/or Biomarker in Schizophrenia and Depression?. *Frontiers in Psychiatry*, **2019**, 10, 25	5	48
34	The levels of the NMDA receptor co-agonist D-serine are reduced in the substantia nigra of MPTP-lesioned macaques and in the cerebrospinal fluid of Parkinson's disease patients. *Scientific Reports*, **2019**, 9, 8898	4.9	18
33	Involvement of d-amino acid oxidase in cerebral ischaemia induced by transient occlusion of the middle cerebral artery in mice. *British Journal of Pharmacology*, **2019**, 176, 3336-3349	8.6	2
32	A Study of D-Amino Acid Oxidase in Blood as an Indicator of Post-stroke Dementia. *Frontiers in Neurology*, **2019**, 10, 402	4.1	8
31	Substitution of Arginine 120 in Human D-Amino Acid Oxidase Favors FAD-Binding and Nuclear Mistargeting. *Frontiers in Molecular Biosciences*, **2019**, 6, 125	5.6	3
30	Intracellular compartment-specific proteasome dysfunction in postmortem cortex in schizophrenia subjects. *Molecular Psychiatry*, **2020**, 25, 776-790	15.1	9
29	Prefrontal cortical alterations of glutamate and GABA neurotransmission in schizophrenia: Insights for rational biomarker development. *Biomarkers in Neuropsychiatry*, **2020**, 3,	3.8	7
28	Synthesis and preliminary evaluation of 4-hydroxy-6-(3-[C]methoxyphenethyl)pyridazin-3(2H)-one, a C-labeled d-amino acid oxidase (DAAO) inhibitor for PET imaging. *Bioorganic and Medicinal Chemistry Letters*, **2020**, 30, 127326	2.9	0
27	Converging Evidence on D-Amino Acid Oxidase-Dependent Enhancement of Hippocampal Firing Activity and Passive Avoidance Learning in Rats. *International Journal of Neuropsychopharmacology*, **2021**, 24, 434-445	5.8	2

26	Yin and Yang in Post-Translational Modifications of Human D-Amino Acid Oxidase. *Frontiers in Molecular Biosciences*, **2021**, 8, 684934	5.6	
25	Human D-aspartate Oxidase: A Key Player in D-aspartate Metabolism. *Frontiers in Molecular Biosciences*, **2021**, 8, 689719	5.6	0
24	NMDARs, Coincidence Detectors of Astrocytic and Neuronal Activities. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
23	D-Serine: A Cross Species Review of Safety. *Frontiers in Psychiatry*, **2021**, 12, 726365	5	1
22	Cystine/Glutamate Antiporter in Schizophrenia: From Molecular Mechanism to Novel Biomarker and Treatment. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
21	Directly and Indirectly Targeting the Glycine Modulatory Site to Modulate NMDA Receptor Function to Address Unmet Medical Needs of Patients With Schizophrenia. *Frontiers in Psychiatry*, **2021**, 12, 742058	5	2
20	Contributions of Glutamate and GABA Systems to the Neurobiology and Treatment of Schizophrenia. 433-461		5
19	Flavins and flavoproteins: applications in medicine. *Methods in Molecular Biology*, **2014**, 1146, 113-57	1.4	7
18	Assay of amino acid racemases. *Methods in Molecular Biology*, **2012**, 794, 367-79	1.4	2
17	Haplotypes of the D-Amino Acid Oxidase Gene Are Significantly Associated with Schizophrenia and Its Neurocognitive Deficits. *PLoS ONE*, **2016**, 11, e0150435	3.7	13
16	[Role of astrocytes in alterations of glutamatergic neurotransmission in schizophrenia]. *Zhurnal Nevrologii I Psikhiatrii Imeni S S Korsakova*, **2015**, 115, 110-117	0.4	1
15	The Therapeutic Potential of D-Amino Acid Oxidase (DAAO) Inhibitors. *Open Medicinal Chemistry Journal*, **2010**, 4, 3-9	1.2	66
14	Glycinergic signaling in the human nervous system: An overview of therapeutic drug targets and clinical effects. *Mental Health Clinician*, **2016**, 6, 266-276	1.6	1
13	d-Amino Acids and pLG72 in Alzheimer's Disease and Schizophrenia. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
12	Mutant and Transgenic Tools in Modeling Schizophrenia. *Neuromethods*, **2010**, 217-239	0.4	
11	Inhibition of Glycine Transporter-1 Improves the Functional Outcome of Schizophrenia. **2010**, 577-610		0
10	Physiopathological Relevance of D-Serine in the Mammalian Cochlea.. *Frontiers in Cellular Neuroscience*, **2021**, 15, 733004	6.1	0
9	D-serine metabolism in the medial prefrontal cortex, but not the hippocampus, is involved in AD/HD-like behaviors in SHRSP/Ezo.. *European Journal of Pharmacology*, **2022**, 923, 174930	5.3	0

8	Data_Sheet_1.doc. **2019**,		
7	Presentation_1.PDF. **2017**,		
6	Astrocytic D -amino acid oxidase degrades D -serine in the hindbrain. *FEBS Letters*,	3.8	0
5	Rational and Translational Implications of D-Amino Acids for Treatment-Resistant Schizophrenia: From Neurobiology to the Clinics. *Biomolecules*, **2022**, 12, 909	5.9	2
4	Beyond NMDA Receptors: Homeostasis at the Glutamate Tripartite Synapse and Its Contributions to Cognitive Dysfunction in Schizophrenia. **2022**, 23, 8617		1
3	Serine racemase expression differentiates aging from Alzheimer's brain. **2022**, 19,		1
2	Targeting d-Amino Acid Oxidase (DAAO) for the Treatment of Schizophrenia: Rationale and Current Status of Research.		2
1	The Role of D-Serine and D-Aspartate in the Pathogenesis and Therapy of Treatment-Resistant Schizophrenia. **2022**, 14, 5142		0