

Silvia Sacchi

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3514980/silvia-sacchi-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. 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.

67
papers

2,837
citations

29
h-index

52
g-index

68
ext. papers

3,245
ext. citations

6.3
avg, IF

4.93
L-index

#	Paper	IF	Citations
67	Synaptic and extrasynaptic NMDA receptors are gated by different endogenous coagonists. <i>Cell</i> , 2012 , 150, 633-46	56.2	483
66	Physiological functions of D-amino acid oxidases: from yeast to humans. <i>Cellular and Molecular Life Sciences</i> , 2007 , 64, 1373-94	10.3	267
65	Glial D-serine gates NMDA receptors at excitatory synapses in prefrontal cortex. <i>Cerebral Cortex</i> , 2012 , 22, 595-606	5.1	137
64	pLG72 modulates intracellular D-serine levels through its interaction with D-amino acid oxidase: effect on schizophrenia susceptibility. <i>Journal of Biological Chemistry</i> , 2008 , 283, 22244-56	5.4	123
63	Characterization of human D-amino acid oxidase. <i>FEBS Letters</i> , 2006 , 580, 2358-64	3.8	107
62	Properties and applications of microbial D-amino acid oxidases: current state and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2008 , 78, 1-16	5.7	101
61	THE FRESHWATER CYANOBACTERIUM PLANKTOTHRIX SP. FP1: MOLECULAR IDENTIFICATION AND DETECTION OF PARALYTIC SHELLFISH POISONING TOXINS. <i>Journal of Phycology</i> , 2000 , 36, 553-562		96
60	Structure-function relationships in human D-amino acid oxidase. <i>Amino Acids</i> , 2012 , 43, 1833-50	3.5	82
59	Metabolism of the neuromodulator D-serine. <i>Cellular and Molecular Life Sciences</i> , 2010 , 67, 2387-404	10.3	82
58	Identity of the NMDA receptor coagonist is synapse specific and developmentally regulated in the hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E204-13	11.5	78
57	D-amino acid oxidase inhibitors as a novel class of drugs for schizophrenia therapy. <i>Current Pharmaceutical Design</i> , 2013 , 19, 2499-511	3.3	70
56	Identity of endogenous NMDAR glycine site agonist in amygdala is determined by synaptic activity level. <i>Nature Communications</i> , 2013 , 4, 1760	17.4	61
55	Optimization of glutaryl-7-aminocephalosporanic acid acylase expression in <i>E. coli</i> . <i>Protein Expression and Purification</i> , 2008 , 61, 131-7	2	60
54	Reduced D-serine levels in the nucleus accumbens of cocaine-treated rats hinder the induction of NMDA receptor-dependent synaptic plasticity. <i>Brain</i> , 2013 , 136, 1216-30	11.2	59
53	Engineering the substrate specificity of D-amino-acid oxidase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 27510-6	5.4	58
52	Catalytic properties of D-amino acid oxidase in cephalosporin C bioconversion: a comparison between proteins from different sources. <i>Biotechnology Progress</i> , 2004 , 20, 467-73	2.8	57
51	Co-agonists differentially tune GluN2B-NMDA receptor trafficking at hippocampal synapses. <i>ELife</i> , 2017 , 6,	8.9	48

50	Evidence for the interaction of D-amino acid oxidase with pLG72 in a glial cell line. <i>Molecular and Cellular Neurosciences</i> , 2011 , 48, 20-8	4.8	46
49	Effect of ligand binding on human D-amino acid oxidase: implications for the development of new drugs for schizophrenia treatment. <i>Protein Science</i> , 2010 , 19, 1500-12	6.3	41
48	A biosensor for all D-amino acids using evolved D-amino acid oxidase. <i>Journal of Biotechnology</i> , 2008 , 135, 377-84	3.7	40
47	Age-Related Changes in D-Aspartate Oxidase Promoter Methylation Control Extracellular D-Aspartate Levels and Prevent Precocious Cell Death during Brain Aging. <i>Journal of Neuroscience</i> , 2016 , 36, 3064-78	6.6	39
46	Decreased free d-aspartate levels are linked to enhanced d-aspartate oxidase activity in the dorsolateral prefrontal cortex of schizophrenia patients. <i>NPJ Schizophrenia</i> , 2017 , 3, 16	5.5	38
45	Human D-Amino Acid Oxidase: Structure, Function, and Regulation. <i>Frontiers in Molecular Biosciences</i> , 2018 , 5, 107	5.6	36
44	Determination of D-amino acids using a D-amino acid oxidase biosensor with spectrophotometric and potentiometric detection. <i>Biotechnology Letters</i> , 1998 , 12, 149-153		35
43	Expression in Escherichia coli and in vitro refolding of the human protein pLG72. <i>Protein Expression and Purification</i> , 2006 , 46, 150-5	2	35
42	Relevance of weak flavin binding in human D-amino acid oxidase. <i>Protein Science</i> , 2009 , 18, 801-10	6.3	33
41	Engineering the properties of D-amino acid oxidases by a rational and a directed evolution approach. <i>Current Protein and Peptide Science</i> , 2007 , 8, 600-18	2.8	31
40	Modulating D-amino acid oxidase substrate specificity: production of an enzyme for analytical determination of all D-amino acids by directed evolution. <i>Protein Engineering, Design and Selection</i> , 2004 , 17, 517-25	1.9	31
39	Olanzapine, but not clozapine, increases glutamate release in the prefrontal cortex of freely moving mice by inhibiting D-aspartate oxidase activity. <i>Scientific Reports</i> , 2017 , 7, 46288	4.9	29
38	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. <i>FEBS Journal</i> , 2014 , 281, 708-23	5.7	26
37	G72 primate-specific gene: a still enigmatic element in psychiatric disorders. <i>Cellular and Molecular Life Sciences</i> , 2016 , 73, 2029-39	10.3	26
36	D-Serine and Glycine Differentially Control Neurotransmission during Visual Cortex Critical Period. <i>PLoS ONE</i> , 2016 , 11, e0151233	3.7	25
35	Characterization of human DAAO variants potentially related to an increased risk of schizophrenia. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013 , 1832, 400-10	6.9	24
34	Is rat an appropriate animal model to study the involvement of D-serine catabolism in schizophrenia? Insights from characterization of D-amino acid oxidase. <i>FEBS Journal</i> , 2011 , 278, 4362-73	5.7	23
33	DNA methylation landscape of the genes regulating D-serine and D-aspartate metabolism in post-mortem brain from controls and subjects with schizophrenia. <i>Scientific Reports</i> , 2018 , 8, 10163	4.9	23

32	Biochemical Properties of Human D-Amino Acid Oxidase. <i>Frontiers in Molecular Biosciences</i> , 2017 , 4, 88	5.6	21
31	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. <i>Scientific Reports</i> , 2019 , 9, 8898	4.9	18
30	Structure-function relationships in human d-amino acid oxidase variants corresponding to known SNPs. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015 , 1854, 1150-9	4	18
29	Free d-aspartate triggers NMDA receptor-dependent cell death in primary cortical neurons and perturbs JNK activation, Tau phosphorylation, and protein SUMOylation in the cerebral cortex of mice lacking d-aspartate oxidase activity. <i>Experimental Neurology</i> , 2019 , 317, 51-65	5.7	17
28	Proline oxidase controls proline, glutamate, and glutamine cellular concentrations in a U87 glioblastoma cell line. <i>PLoS ONE</i> , 2018 , 13, e0196283	3.7	17
27	Biochemical Properties of Human D-amino Acid Oxidase Variants and Their Potential Significance in Pathologies. <i>Frontiers in Molecular Biosciences</i> , 2018 , 5, 55	5.6	16
26	Role of tyrosine 238 in the active site of <i>Rhodotorula gracilis</i> D-amino acid oxidase. A site-directed mutagenesis study. <i>FEBS Journal</i> , 2002 , 269, 4762-71		16
25	Metabolic resistance of the D-peptide RD2 developed for direct elimination of amyloid- β oligomers. <i>Scientific Reports</i> , 2019 , 9, 5715	4.9	15
24	L-serine synthesis via the phosphorylated pathway in humans. <i>Cellular and Molecular Life Sciences</i> , 2020 , 77, 5131-5148	10.3	14
23	D-Serine metabolism: new insights into the modulation of D-amino acid oxidase activity. <i>Biochemical Society Transactions</i> , 2013 , 41, 1551-6	5.1	14
22	Regulating levels of the neuromodulator d-serine in human brain: structural insight into pLG72 and d-amino acid oxidase interaction. <i>FEBS Journal</i> , 2016 , 283, 3353-70	5.7	12
21	High-Throughput Screening Strategy Identifies Allosteric, Covalent Human D-Amino Acid Oxidase Inhibitor. <i>Journal of Biomolecular Screening</i> , 2015 , 20, 1218-31		11
20	Biosensors for D-amino acid detection. <i>Methods in Molecular Biology</i> , 2012 , 794, 313-24	1.4	11
19	Serum D-serine levels are altered in early phases of Alzheimer's disease: towards a precocious biomarker. <i>Translational Psychiatry</i> , 2021 , 11, 77	8.6	11
18	Investigating the role of active site residues of <i>Rhodotorula gracilis</i> D-amino acid oxidase on its substrate specificity. <i>Biochimie</i> , 2007 , 89, 360-8	4.6	10
17	Novel insights into renal D-amino acid oxidase accumulation: propiverine changes DAAO localization and peroxisomal size in vivo. <i>Archives of Toxicology</i> , 2017 , 91, 427-437	5.8	8
16	On the mechanism of <i>Rhodotorula gracilis</i> D-amino acid oxidase: role of the active site serine 335. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2004 , 1702, 19-32	4	8
15	Direct chromatographic methods for enantioresolution of amino acids: recent developments. <i>Amino Acids</i> , 2020 , 52, 849-862	3.5	8

14	Elucidating the role of the pLG72 R30K substitution in schizophrenia susceptibility. <i>FEBS Letters</i> , 2017 , 591, 646-655	3.8	6
13	Human d-amino acid oxidase: The inactive G183R variant. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018 , 1866, 822-830	4	6
12	Glycine oxidase from <i>Bacillus subtilis</i> : role of histidine 244 and methionine 261. <i>Biochimie</i> , 2007 , 89, 1372-80	4.8	6
11	Understanding renal nuclear protein accumulation: an in vitro approach to explain an in vivo phenomenon. <i>Archives of Toxicology</i> , 2017 , 91, 3599-3611	5.8	5
10	Biochemical characterization of mouse d-aspartate oxidase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020 , 1868, 140472	4	4
9	An antibody-based enzymatic therapy for cancer treatment: The selective localization of D-amino acid oxidase to EDA fibronectin. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021 , 36, 102424 ⁶	6	4
8	Dopaminergic neuromodulation of prefrontal cortex activity requires the NMDA receptor coagonist d-serine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
7	Substitution of Arginine 120 in Human D-Amino Acid Oxidase Favors FAD-Binding and Nuclear Mistargeting. <i>Frontiers in Molecular Biosciences</i> , 2019 , 6, 125	5.6	3
6	The role of tyrosines 223 and 238 in <i>Rhodotorula gracilis</i> d-amino acid oxidase catalysis: Interpretation of double mutations. <i>Enzyme and Microbial Technology</i> , 2006 , 38, 795-802	3.8	2
5	Antimicrobial D-amino acid oxidase-derived peptides specify gut microbiota. <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 3607-3620	10.3	2
4	Cellular studies of the two main isoforms of human d-aspartate oxidase. <i>FEBS Journal</i> , 2021 , 288, 4939-4954	9.7	1
3	Is the primate-specific protein pLG72 affecting SOD1 functionality and superoxide formation?. <i>Free Radical Research</i> , 2020 , 54, 419-430	4	0
2	Human D-aspartate Oxidase: A Key Player in D-aspartate Metabolism. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 689719	5.6	0
1	Yin and Yang in Post-Translational Modifications of Human D-Amino Acid Oxidase. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 684934	5.6	