

Silvia Sacchi

List of Publications by Year in Descending Order

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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	Cellular studies of the two main isoforms of human d-aspartate oxidase. <i>FEBS Journal</i> , 2021 , 288, 4939-4954	5.7	1
66	Yin and Yang in Post-Translational Modifications of Human D-Amino Acid Oxidase. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 684934	5.6	
65	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
64	Human D-aspartate Oxidase: A Key Player in D-aspartate Metabolism. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 689719	5.6	0
63	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
62	Antimicrobial D-amino acid oxidase-derived peptides specify gut microbiota. <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 3607-3620	10.3	2
61	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	4
60	L-serine synthesis via the phosphorylated pathway in humans. <i>Cellular and Molecular Life Sciences</i> , 2020 , 77, 5131-5148	10.3	14
59	Is the primate-specific protein pLG72 affecting SOD1 functionality and superoxide formation?. <i>Free Radical Research</i> , 2020 , 54, 419-430	4	0
58	Direct chromatographic methods for enantioresolution of amino acids: recent developments. <i>Amino Acids</i> , 2020 , 52, 849-862	3.5	8
57	Biochemical characterization of mouse d-aspartate oxidase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020 , 1868, 140472	4	4
56	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
55	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
54	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
53	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
52	Human d-amino acid oxidase: The inactive G183R variant. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018 , 1866, 822-830	4	6
51	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

50	Human D-Amino Acid Oxidase: Structure, Function, and Regulation. <i>Frontiers in Molecular Biosciences</i> , 2018 , 5, 107	5.6	36
49	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
48	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
47	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
46	Elucidating the role of the pLG72 R30K substitution in schizophrenia susceptibility. <i>FEBS Letters</i> , 2017 , 591, 646-655	3.8	6
45	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
44	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
43	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
42	Biochemical Properties of Human D-Amino Acid Oxidase. <i>Frontiers in Molecular Biosciences</i> , 2017 , 4, 88	5.6	21
41	Co-agonists differentially tune GluN2B-NMDA receptor trafficking at hippocampal synapses. <i>ELife</i> , 2017 , 6,	8.9	48
40	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
39	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
38	D-Serine and Glycine Differentially Control Neurotransmission during Visual Cortex Critical Period. <i>PLoS ONE</i> , 2016 , 11, e0151233	3.7	25
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	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
35	High-Throughput Screening Strategy Identifies Allosteric, Covalent Human D-Amino Acid Oxidase Inhibitor. <i>Journal of Biomolecular Screening</i> , 2015 , 20, 1218-31		11
34	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
33	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

32	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
31	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
30	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
29	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
28	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
27	Synaptic and extrasynaptic NMDA receptors are gated by different endogenous coagonists. <i>Cell</i> , 2012 , 150, 633-46	56.2	483
26	Structure-function relationships in human D-amino acid oxidase. <i>Amino Acids</i> , 2012 , 43, 1833-50	3.5	82
25	Glial D-serine gates NMDA receptors at excitatory synapses in prefrontal cortex. <i>Cerebral Cortex</i> , 2012 , 22, 595-606	5.1	137
24	Biosensors for D-amino acid detection. <i>Methods in Molecular Biology</i> , 2012 , 794, 313-24	1.4	11
23	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
22	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
21	Metabolism of the neuromodulator D-serine. <i>Cellular and Molecular Life Sciences</i> , 2010 , 67, 2387-404	10.3	82
20	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
19	Relevance of weak flavin binding in human D-amino acid oxidase. <i>Protein Science</i> , 2009 , 18, 801-10	6.3	33
18	Optimization of glutaryl-7-aminocephalosporanic acid acylase expression in E. coli. <i>Protein Expression and Purification</i> , 2008 , 61, 131-7	2	60
17	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
16	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
15	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

14	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
13	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
12	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
11	Glycine oxidase from <i>Bacillus subtilis</i> : role of histidine 244 and methionine 261. <i>Biochimie</i> , 2007 , 89, 1372-80	4.6	6
10	Characterization of human D-amino acid oxidase. <i>FEBS Letters</i> , 2006 , 580, 2358-64	3.8	107
9	Expression in <i>Escherichia coli</i> and in vitro refolding of the human protein pLG72. <i>Protein Expression and Purification</i> , 2006 , 46, 150-5	2	35
8	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
7	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
6	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
5	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
4	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
3	Engineering the substrate specificity of D-amino-acid oxidase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 27510-6	5.4	58
2	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
1	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