

Antonella Del-Corso

List of Publications by Citations

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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.

70
papers

1,384
citations

22
h-index

35
g-index

72
ext. papers

1,529
ext. citations

4.7
avg, IF

3.61
L-index

#	Paper	IF	Citations
70	Gamma-glutamyltransferase activity in human atherosclerotic plaques--biochemical similarities with the circulating enzyme. <i>Atherosclerosis</i> , 2009 , 202, 119-27	3.1	92
69	Synthesis, activity, and molecular modeling of a new series of tricyclic pyridazinones as selective aldose reductase inhibitors. <i>Journal of Medicinal Chemistry</i> , 1996 , 39, 4396-405	8.3	85
68	1-Benzopyran-4-one antioxidants as aldose reductase inhibitors. <i>Journal of Medicinal Chemistry</i> , 1999 , 42, 1881-93	8.3	82
67	Identification of 5-arylidene-4-thiazolidinone derivatives endowed with dual activity as aldose reductase inhibitors and antioxidant agents for the treatment of diabetic complications. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 2797-806	6.8	76
66	Specifically targeted modification of human aldose reductase by physiological disulfides. <i>Journal of Biological Chemistry</i> , 1996 , 271, 33539-44	5.4	58
65	Structure-activity relationships and molecular modelling of new 5-arylidene-4-thiazolidinone derivatives as aldose reductase inhibitors and potential anti-inflammatory agents. <i>European Journal of Medicinal Chemistry</i> , 2014 , 81, 1-14	6.8	53
64	Glutathione dependent modification of bovine lens aldose reductase. <i>Experimental Eye Research</i> , 1994 , 58, 491-501	3.7	52
63	Oxidative modification of aldose reductase induced by copper ion. Definition of the metal-protein interaction mechanism. <i>Journal of Biological Chemistry</i> , 2002 , 277, 42017-27	5.4	51
62	Site-specific inactivation of aldose reductase by 4-hydroxynonenal. <i>Archives of Biochemistry and Biophysics</i> , 1998 , 350, 245-8	4.1	51
61	New role for leucyl aminopeptidase in glutathione turnover. <i>Biochemical Journal</i> , 2004 , 378, 35-44	3.8	49
60	In vitro evaluation of 5-arylidene-2-thioxo-4-thiazolidinones active as aldose reductase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 200-3	2.9	44
59	Bovine lens aldose reductase: tight binding of the pyridine coenzyme. <i>Archives of Biochemistry and Biophysics</i> , 1990 , 283, 512-8	4.1	40
58	A new approach to control the enigmatic activity of aldose reductase. <i>PLoS ONE</i> , 2013 , 8, e74076	3.7	35
57	Identification of new non-carboxylic acid containing inhibitors of aldose reductase. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 4049-55	3.4	30
56	Metal ion substitution in the catalytic site greatly affects the binding of sulfhydryl-containing compounds to leucyl aminopeptidase. <i>Biochemistry</i> , 2006 , 45, 3226-34	3.2	30
55	Aldose reductase does catalyse the reduction of glyceraldehyde through a stoichiometric oxidation of NADPH. <i>Experimental Eye Research</i> , 2000 , 71, 515-21	3.7	30
54	Bovine lens aldose reductase: identification of two enzyme forms. <i>Archives of Biochemistry and Biophysics</i> , 1989 , 270, 604-10	4.1	30

53	A new approach against sugar cataract through aldose reductase inhibitors. <i>Experimental Eye Research</i> , 1999 , 69, 533-8	3.7	29
52	Structure-based design of an inhibitor modeled at the substrate active site of aldose reductase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997 , 7, 1897-1902	2.9	24
51	In vitro modification of bovine lens aldose reductase activity. <i>Biochemical and Biophysical Research Communications</i> , 1987 , 148, 369-75	3.4	24
50	Colorimetric coupled enzyme assay for gamma-glutamyltransferase activity using glutathione as substrate. <i>Journal of Proteomics</i> , 2006 , 67, 123-30		23
49	An investigation on 4-thiazolidinone derivatives as dual inhibitors of aldose reductase and protein tyrosine phosphatase 1B, in the search for potential agents for the treatment of type 2 diabetes mellitus and its complications. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018 , 28, 3712-3720	2.9	22
48	Thiol disulfide exchange modulates the activity of aldose reductase in intact bovine lens as a response to oxidative stress. <i>Experimental Eye Research</i> , 2000 , 70, 795-803	3.7	20
47	Human carbonyl reductase 1 as efficient catalyst for the reduction of glutathionylated aldehydes derived from lipid peroxidation. <i>Free Radical Biology and Medicine</i> , 2016 , 99, 323-332	7.8	20
46	NADP(+)-dependent dehydrogenase activity of carbonyl reductase on glutathionylhydroxynonanal as a new pathway for hydroxynonanal detoxification. <i>Free Radical Biology and Medicine</i> , 2015 , 83, 66-76	7.8	19
45	Physiological thiols as promoters of glutathione oxidation and modifying agents in protein S-thiolation. <i>Archives of Biochemistry and Biophysics</i> , 2002 , 397, 392-8	4.1	19
44	L-Idose: an attractive substrate alternative to D-glucose for measuring aldose reductase activity. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 456, 891-5	3.4	18
43	Oxidative modification of aldose reductase induced by copper ion. Factors and conditions affecting the process. <i>Biochemistry</i> , 1998 , 37, 14167-74	3.2	18
42	7-Hydroxy-2-substituted-4-H-1-benzopyran-4-one derivatives as aldose reductase inhibitors: a SAR study. <i>European Journal of Medicinal Chemistry</i> , 2001 , 36, 697-703	6.8	18
41	The use of dimethylsulfoxide as a solvent in enzyme inhibition studies: the case of aldose reductase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017 , 32, 1152-1158	5.6	17
40	Thiol/disulfide interconversion in bovine lens aldose reductase induced by intermediates of glutathione turnover. <i>Biochemistry</i> , 2001 , 40, 11985-94	3.2	16
39	Rapid colorimetric determination of reduced and oxidized glutathione using an end point coupled enzymatic assay. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 1779-85	4.4	15
38	Deoxyribose 5-phosphate aldolase of <i>Bacillus cereus</i> : purification and properties. <i>BBA - Proteins and Proteomics</i> , 1992 , 1118, 130-3		13
37	Zolfino landrace (<i>Phaseolus vulgaris</i> L.) from Pratomagno: general and specific features of a functional food. <i>Food and Nutrition Research</i> , 2016 , 60, 31792	3.1	13
36	Modulation of aldose reductase activity by aldose hemiacetals. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015 , 1850, 2329-39	4	12

35	Basic models for differential inhibition of enzymes. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 445, 556-60	3.4	12
34	Kinetics of human thrombin inhibition by two novel peptide inhibitors (Hirunorm IV and Hirunorm V). <i>Biochemical Pharmacology</i> , 1996 , 52, 1141-6	6	10
33	Acid Derivatives of Pyrazolo[1,5-a]pyrimidine as Aldose Reductase Differential Inhibitors. <i>Cell Chemical Biology</i> , 2018 , 25, 1414-1418.e3	8.2	9
32	Interaction of arabinogalactan with mucins. <i>International Journal of Biological Macromolecules</i> , 2014 , 67, 446-51	7.9	9
31	Chaperone-like activity of alpha-crystallin toward aldose reductase oxidatively stressed by copper ion. <i>Archives of Biochemistry and Biophysics</i> , 2006 , 453, 13-7	4.1	9
30	Soyasaponins from Zolfino bean as aldose reductase differential inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019 , 34, 350-360	5.6	9
29	Binding of 1-benzopyran-4-one derivatives to aldose reductase: a free energy perturbation study. <i>Bioorganic and Medicinal Chemistry</i> , 2002 , 10, 1427-36	3.4	8
28	Edible vegetables as a source of aldose reductase differential inhibitors. <i>Chemico-Biological Interactions</i> , 2017 , 276, 155-159	5	7
27	Kinetic features of carbonyl reductase 1 acting on glutathionylated aldehydes. <i>Chemico-Biological Interactions</i> , 2017 , 276, 127-132	5	6
26	Aldose Reductase Differential Inhibitors in Green Tea. <i>Biomolecules</i> , 2020 , 10,	5.9	6
25	Chemical profile and nutraceutical features of Salsola soda (agretti): Anti-inflammatory and antidiabetic potential of its flavonoids. <i>Food Bioscience</i> , 2020 , 37, 100713	4.9	6
24	Stereoselectivity of Aldose Reductase in the Reduction of Glutathionyl-Hydroxynonanal Adduct. <i>Antioxidants</i> , 2019 , 8,	7.1	6
23	In Search for Multi-Target Ligands as Potential Agents for Diabetes Mellitus and Its Complications-A Structure-Activity Relationship Study on Inhibitors of Aldose Reductase and Protein Tyrosine Phosphatase 1B. <i>Molecules</i> , 2021 , 26,	4.8	6
22	Purine nucleoside phosphorylase from bovine lens: purification and properties. <i>BBA - Proteins and Proteomics</i> , 1992 , 1160, 163-70		5
21	Spectrophotometric and radioenzymatic determination of ribose-5-phosphate. <i>Journal of Proteomics</i> , 1984 , 10, 163-71		5
20	Pathways of 4-Hydroxy-2-Nonenal Detoxification in a Human Astrocytoma Cell Line. <i>Antioxidants</i> , 2020 , 9,	7.1	4
19	The furanosidic scaffold of d-ribose: a milestone for cell life. <i>Biochemical Society Transactions</i> , 2019 , 47, 1931-1940	5.1	4
18	Dual Targeting of PTP1B and Aldose Reductase with Marine Drug Phosphoeleganin: A Promising Strategy for Treatment of Type 2 Diabetes. <i>Marine Drugs</i> , 2021 , 19,	6	4

17	Intra-site differential inhibition of multi-specific enzymes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020 , 35, 840-846	5.6	3
16	Identification and purification of a calcium-binding protein from <i>Bacillus subtilis</i> . <i>BBA - Proteins and Proteomics</i> , 1991 , 1080, 160-4		3
15	Alpha-5-phosphoribosyl-1-pyrophosphate-independent salvage of purines in cultured Chinese hamster lung fibroblasts. <i>Archives of Biochemistry and Biophysics</i> , 1988 , 265, 234-40	4.1	3
14	How the chemical features of molecules may have addressed the settlement of metabolic steps. <i>Metabolomics</i> , 2017 , 14, 2	4.7	2
13	Impact on enzyme activity as a new quality index of wastewater. <i>Journal of Environmental Management</i> , 2013 , 117, 76-84	7.9	2
12	Thiol oxidase ability of copper ion is specifically retained upon chelation by aldose reductase. <i>Journal of Biological Inorganic Chemistry</i> , 2017 , 22, 559-565	3.7	2
11	Hirunorms, novel hirudin-like direct thrombin inhibitors. <i>General Pharmacology</i> , 1998 , 30, 565-8		2
10	Zofenoprilat-glutathione mixed disulfide as a specific S-thiolating agent of bovine lens aldose reductase. <i>Antioxidants and Redox Signaling</i> , 2005 , 7, 841-8	8.4	2
9	Radioenzymatic determination of adenosine. <i>Analytical Biochemistry</i> , 1987 , 166, 253-6	3.1	2
8	Climate-related environmental stress in intertidal grazers: scaling-up biochemical responses to assemblage-level processes. <i>PeerJ</i> , 2016 , 4, e2533	3.1	2
7	Dehydrogenase/reductase activity of human carbonyl reductase 1 with NADP(H) acting as a prosthetic group. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 522, 259-263	3.4	2
6	Lens aldo-keto reductase of <i>Camelus dromedarius</i> : purification and properties. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1989 , 993, 116-20	4	1
5	Liver purine nucleoside phosphorylase in <i>Camelus dromedarius</i> : purification and properties. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1990 , 97, 177-82		1
4	Apparent cooperativity and apparent hyperbolic behavior of enzyme mixtures acting on the same substrate. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 1556-9	5.6	1
3	Purification and characterization of a Cys-Gly hydrolase from the gastropod mollusk, <i>Patella caerulea</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 1560-5	5.6	0
2	Models of enzyme inhibition and apparent dissociation constants from kinetic analysis to study the differential inhibition of aldose reductase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2022 , 37, 1426-1436	5.6	0
1	Colorimetric Coupled Enzyme Assay for Cystathionine β -Synthase. <i>Analytical Sciences</i> , 2016 , 32, 901-6	1.7	