

Mario Cappiello

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54
papers

961
citations

19
h-index

29
g-index

55
ext. papers

1,075
ext. citations

4.8
avg, IF

3.35
L-index

#	Paper	IF	Citations
54	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
53	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
52	Specifically targeted modification of human aldose reductase by physiological disulfides. <i>Journal of Biological Chemistry</i> , 1996 , 271, 33539-44	5.4	58
51	Glutathione dependent modification of bovine lens aldose reductase. <i>Experimental Eye Research</i> , 1994 , 58, 491-501	3.7	52
50	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
49	Site-specific inactivation of aldose reductase by 4-hydroxynonenal. <i>Archives of Biochemistry and Biophysics</i> , 1998 , 350, 245-8	4.1	51
48	New role for leucyl aminopeptidase in glutathione turnover. <i>Biochemical Journal</i> , 2004 , 378, 35-44	3.8	49
47	A new approach to control the enigmatic activity of aldose reductase. <i>PLoS ONE</i> , 2013 , 8, e74076	3.7	35
46	Identification of new non-carboxylic acid containing inhibitors of aldose reductase. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 4049-55	3.4	30
45	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
44	A new approach against sugar cataract through aldose reductase inhibitors. <i>Experimental Eye Research</i> , 1999 , 69, 533-8	3.7	29
43	Thiol and disulfide determination by free zone capillary electrophoresis. <i>Journal of Proteomics</i> , 1993 , 26, 335-41		26
42	Design, Synthesis and in Combo Antidiabetic Bioevaluation of Multitarget Phenylpropanoic Acids. <i>Molecules</i> , 2018 , 23,	4.8	25
41	Colorimetric coupled enzyme assay for gamma-glutamyltransferase activity using glutathione as substrate. <i>Journal of Proteomics</i> , 2006 , 67, 123-30		23
40	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
39	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
38	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

37	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
36	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
35	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
34	Modulation of aldose reductase activity through S-thiolation by physiological thiols. <i>Chemico-Biological Interactions</i> , 2001 , 130-132, 597-608	5	18
33	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
32	Thiol/disulfide interconversion in bovine lens aldose reductase induced by intermediates of glutathione turnover. <i>Biochemistry</i> , 2001 , 40, 11985-94	3.2	16
31	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
30	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
29	Modulation of aldose reductase activity by aldose hemiacetals. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015 , 1850, 2329-39	4	12
28	Basic models for differential inhibition of enzymes. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 445, 556-60	3.4	12
27	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
26	Interaction of arabinogalactan with mucins. <i>International Journal of Biological Macromolecules</i> , 2014 , 67, 446-51	7.9	9
25	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
24	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
23	Enhancing activity and selectivity in a series of pyrrol-1-yl-1-hydroxypyrazole-based aldose reductase inhibitors: The case of trifluoroacetylation. <i>European Journal of Medicinal Chemistry</i> , 2017 , 130, 328-335	6.8	7
22	Edible vegetables as a source of aldose reductase differential inhibitors. <i>Chemico-Biological Interactions</i> , 2017 , 276, 155-159	5	7
21	Cysteinyl-glycine in the control of glutathione homeostasis in bovine lenses. <i>Molecular Vision</i> , 2010 , 16, 1025-33	2.3	7
20	Kinetic features of carbonyl reductase 1 acting on glutathionylated aldehydes. <i>Chemico-Biological Interactions</i> , 2017 , 276, 127-132	5	6

19	Aldose Reductase Differential Inhibitors in Green Tea. <i>Biomolecules</i> , 2020 , 10,	5.9	6
18	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
17	Stereoselectivity of Aldose Reductase in the Reduction of Glutathionyl-Hydroxynonanal Adduct. <i>Antioxidants</i> , 2019 , 8,	7.1	6
16	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
15	Purine nucleoside phosphorylase from bovine lens: purification and properties. <i>BBA - Proteins and Proteomics</i> , 1992 , 1160, 163-70		5
14	Pathways of 4-Hydroxy-2-Nonenal Detoxification in a Human Astrocytoma Cell Line. <i>Antioxidants</i> , 2020 , 9,	7.1	4
13	The furanosidic scaffold of d-ribose: a milestone for cell life. <i>Biochemical Society Transactions</i> , 2019 , 47, 1931-1940	5.1	4
12	Intra-site differential inhibition of multi-specific enzymes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020 , 35, 840-846	5.6	3
11	How the chemical features of molecules may have addressed the settlement of metabolic steps. <i>Metabolomics</i> , 2017 , 14, 2	4.7	2
10	Impact on enzyme activity as a new quality index of wastewater. <i>Journal of Environmental Management</i> , 2013 , 117, 76-84	7.9	2
9	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
8	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
7	Climate-related environmental stress in intertidal grazers: scaling-up biochemical responses to assemblage-level processes. <i>PeerJ</i> , 2016 , 4, e2533	3.1	2
6	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
5	Interconversion pathways of aldose reductase induced by thiol compounds. <i>Advances in Experimental Medicine and Biology</i> , 1999 , 463, 453-8	3.6	2
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 Synthase. *Analytical Sciences*, **2016**, 32, 901-6 1.7