

# Umberto Mura

## List of Publications by Citations

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63  
papers

1,366  
citations

24  
h-index

34  
g-index

65  
ext. papers

1,477  
ext. citations

4.7  
avg, IF

3.55  
L-index

#	Paper	IF	Citations
63	Synthesis, activity, and molecular modeling of a new series of tricyclic pyridazinones as selective aldose reductase inhibitors. <i>Journal of Medicinal Chemistry</i> , <b>1996</b> , 39, 4396-405	8.3	85
62	1-Benzopyran-4-one antioxidants as aldose reductase inhibitors. <i>Journal of Medicinal Chemistry</i> , <b>1999</b> , 42, 1881-93	8.3	82
61	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> , <b>2011</b> , 46, 2797-806	6.8	76
60	Specifically targeted modification of human aldose reductase by physiological disulfides. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 33539-44	5.4	58
59	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> , <b>2014</b> , 81, 1-14	6.8	53
58	Glutathione dependent modification of bovine lens aldose reductase. <i>Experimental Eye Research</i> , <b>1994</b> , 58, 491-501	3.7	52
57	Oxidative modification of aldose reductase induced by copper ion. Definition of the metal-protein interaction mechanism. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 42017-27	5.4	51
56	Site-specific inactivation of aldose reductase by 4-hydroxynonenal. <i>Archives of Biochemistry and Biophysics</i> , <b>1998</b> , 350, 245-8	4.1	51
55	New role for leucyl aminopeptidase in glutathione turnover. <i>Biochemical Journal</i> , <b>2004</b> , 378, 35-44	3.8	49
54	In vitro evaluation of 5-arylidene-2-thioxo-4-thiazolidinones active as aldose reductase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2011</b> , 21, 200-3	2.9	44
53	Bovine lens aldose reductase: tight binding of the pyridine coenzyme. <i>Archives of Biochemistry and Biophysics</i> , <b>1990</b> , 283, 512-8	4.1	40
52	A new approach to control the enigmatic activity of aldose reductase. <i>PLoS ONE</i> , <b>2013</b> , 8, e74076	3.7	35
51	Identification of new non-carboxylic acid containing inhibitors of aldose reductase. <i>Bioorganic and Medicinal Chemistry</i> , <b>2010</b> , 18, 4049-55	3.4	30
50	Metal ion substitution in the catalytic site greatly affects the binding of sulfhydryl-containing compounds to leucyl aminopeptidase. <i>Biochemistry</i> , <b>2006</b> , 45, 3226-34	3.2	30
49	Aldose reductase does catalyse the reduction of glyceraldehyde through a stoichiometric oxidation of NADPH. <i>Experimental Eye Research</i> , <b>2000</b> , 71, 515-21	3.7	30
48	Bovine lens aldose reductase: identification of two enzyme forms. <i>Archives of Biochemistry and Biophysics</i> , <b>1989</b> , 270, 604-10	4.1	30
47	Complete protection by alpha-crystallin of lens sorbitol dehydrogenase undergoing thermal stress. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 32559-65	5.4	29

46	A new approach against sugar cataract through aldose reductase inhibitors. <i>Experimental Eye Research</i> , <b>1999</b> , 69, 533-8	3.7	29
45	Sorbitol dehydrogenase from bovine lens: purification and properties. <i>Archives of Biochemistry and Biophysics</i> , <b>1997</b> , 340, 383-91	4.1	26
44	Thioltransferase activity of bovine lens glutathione S-transferase. <i>Biochemical Journal</i> , <b>1998</b> , 334 (Pt 1), 57-62	3.8	26
43	Thiol and disulfide determination by free zone capillary electrophoresis. <i>Journal of Proteomics</i> , <b>1993</b> , 26, 335-41		26
42	Design, Synthesis and in Combo Antidiabetic Bioevaluation of Multitarget Phenylpropanoic Acids. <i>Molecules</i> , <b>2018</b> , 23,	4.8	25
41	Structure-based design of an inhibitor modeled at the substrate active site of aldose reductase. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>1997</b> , 7, 1897-1902	2.9	24
40	In vitro modification of bovine lens aldose reductase activity. <i>Biochemical and Biophysical Research Communications</i> , <b>1987</b> , 148, 369-75	3.4	24
39	Colorimetric coupled enzyme assay for gamma-glutamyltransferase activity using glutathione as substrate. <i>Journal of Proteomics</i> , <b>2006</b> , 67, 123-30		23
38	Thiol disulfide exchange modulates the activity of aldose reductase in intact bovine lens as a response to oxidative stress. <i>Experimental Eye Research</i> , <b>2000</b> , 70, 795-803	3.7	20
37	Human carbonyl reductase 1 as efficient catalyst for the reduction of glutathionylated aldehydes derived from lipid peroxidation. <i>Free Radical Biology and Medicine</i> , <b>2016</b> , 99, 323-332	7.8	20
36	NADP(+)-dependent dehydrogenase activity of carbonyl reductase on glutathionylhydroxynonanal as a new pathway for hydroxynonanal detoxification. <i>Free Radical Biology and Medicine</i> , <b>2015</b> , 83, 66-76	7.8	19
35	Physiological thiols as promoters of glutathione oxidation and modifying agents in protein S-thiolation. <i>Archives of Biochemistry and Biophysics</i> , <b>2002</b> , 397, 392-8	4.1	19
34	L-Idose: an attractive substrate alternative to D-glucose for measuring aldose reductase activity. <i>Biochemical and Biophysical Research Communications</i> , <b>2015</b> , 456, 891-5	3.4	18
33	Oxidative modification of aldose reductase induced by copper ion. Factors and conditions affecting the process. <i>Biochemistry</i> , <b>1998</b> , 37, 14167-74	3.2	18
32	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> , <b>2001</b> , 36, 697-703	6.8	18
31	Modulation of aldose reductase activity through S-thiolation by physiological thiols. <i>Chemico-Biological Interactions</i> , <b>2001</b> , 130-132, 597-608	5	18
30	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> , <b>2017</b> , 32, 1152-1158	5.6	17
29	Thiol/disulfide interconversion in bovine lens aldose reductase induced by intermediates of glutathione turnover. <i>Biochemistry</i> , <b>2001</b> , 40, 11985-94	3.2	16

28	Rapid colorimetric determination of reduced and oxidized glutathione using an end point coupled enzymatic assay. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 1779-85	4.4	15
27	Zolfino landrace ( <i>Phaseolus vulgaris</i> L.) from Pratomagno: general and specific features of a functional food. <i>Food and Nutrition Research</i> , <b>2016</b> , 60, 31792	3.1	13
26	Modulation of aldose reductase activity by aldose hemiacetals. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2015</b> , 1850, 2329-39	4	12
25	Basic models for differential inhibition of enzymes. <i>Biochemical and Biophysical Research Communications</i> , <b>2014</b> , 445, 556-60	3.4	12
24	Acid Derivatives of Pyrazolo[1,5-a]pyrimidine as Aldose Reductase Differential Inhibitors. <i>Cell Chemical Biology</i> , <b>2018</b> , 25, 1414-1418.e3	8.2	9
23	Interaction of arabinogalactan with mucins. <i>International Journal of Biological Macromolecules</i> , <b>2014</b> , 67, 446-51	7.9	9
22	Chaperone-like activity of alpha-crystallin toward aldose reductase oxidatively stressed by copper ion. <i>Archives of Biochemistry and Biophysics</i> , <b>2006</b> , 453, 13-7	4.1	9
21	Soyasaponins from Zolfino bean as aldose reductase differential inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , <b>2019</b> , 34, 350-360	5.6	9
20	Binding of 1-benzopyran-4-one derivatives to aldose reductase: a free energy perturbation study. <i>Bioorganic and Medicinal Chemistry</i> , <b>2002</b> , 10, 1427-36	3.4	8
19	Edible vegetables as a source of aldose reductase differential inhibitors. <i>Chemico-Biological Interactions</i> , <b>2017</b> , 276, 155-159	5	7
18	Cysteinyl-glycine in the control of glutathione homeostasis in bovine lenses. <i>Molecular Vision</i> , <b>2010</b> , 16, 1025-33	2.3	7
17	Kinetic features of carbonyl reductase 1 acting on glutathionylated aldehydes. <i>Chemico-Biological Interactions</i> , <b>2017</b> , 276, 127-132	5	6
16	Aldose Reductase Differential Inhibitors in Green Tea. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	6
15	Stereoselectivity of Aldose Reductase in the Reduction of Glutathionyl-Hydroxynonanal Adduct. <i>Antioxidants</i> , <b>2019</b> , 8,	7.1	6
14	Pathways of 4-Hydroxy-2-Nonenal Detoxification in a Human Astrocytoma Cell Line. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	4
13	The furanosidic scaffold of d-ribose: a milestone for cell life. <i>Biochemical Society Transactions</i> , <b>2019</b> , 47, 1931-1940	5.1	4
12	Intra-site differential inhibition of multi-specific enzymes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , <b>2020</b> , 35, 840-846	5.6	3
11	How the chemical features of molecules may have addressed the settlement of metabolic steps. <i>Metabolomics</i> , <b>2017</b> , 14, 2	4.7	2

10	Impact on enzyme activity as a new quality index of wastewater. <i>Journal of Environmental Management</i> , <b>2013</b> , 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> , <b>2017</b> , 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> , <b>2005</b> , 7, 841-8	8.4	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> , <b>2020</b> , 522, 259-263	3.4	2
6	Interconversion pathways of aldose reductase induced by thiol compounds. <i>Advances in Experimental Medicine and Biology</i> , <b>1999</b> , 463, 453-8	3.6	2
5	Apparent cooperativity and apparent hyperbolic behavior of enzyme mixtures acting on the same substrate. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , <b>2016</b> , 31, 1556-9	5.6	1
4	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> , <b>2016</b> , 31, 1560-5	5.6	0
3	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> , <b>2022</b> , 37, 1426-1436	5.6	0
2	Colorimetric Coupled Enzyme Assay for Cystathionine Synthase. <i>Analytical Sciences</i> , <b>2016</b> , 32, 901-6	1.7	
1	Modelling Biochemical Pathways with the Calculus of Looping Sequences. <i>SIMAI Springer Series</i> , <b>2012</b> , 105-125		