

# Umberto Mura

## List of Publications by Year in descending order

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64  
papers

1,597  
citations

236612

25  
h-index

315357

38  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1573  
citing authors

#	ARTICLE	IF	CITATIONS
1	1-Benzopyran-4-one Antioxidants as Aldose Reductase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 1881-1893.	2.9	95
2	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, 2797-2806.	2.6	94
3	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, 4396-4405.	2.9	90
4	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.	2.6	63
5	Specifically Targeted Modification of Human Aldose Reductase by Physiological Disulfides. <i>Journal of Biological Chemistry</i> , 1996, 271, 33539-33544.	1.6	62
6	New role for leucyl aminopeptidase in glutathione turnover. <i>Biochemical Journal</i> , 2004, 378, 35-44.	1.7	58
7	Site-Specific Inactivation of Aldose Reductase by 4-Hydroxynonenal. <i>Archives of Biochemistry and Biophysics</i> , 1998, 350, 245-248.	1.4	57
8	Oxidative Modification of Aldose Reductase Induced by Copper Ion. <i>Journal of Biological Chemistry</i> , 2002, 277, 42017-42027.	1.6	56
9	In vitro evaluation of 5-arylidene-2-thioxo-4-thiazolidinones active as aldose reductase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 200-203.	1.0	56
10	Glutathione Dependent Modification of Bovine Lens Aldose Reductase. <i>Experimental Eye Research</i> , 1994, 58, 491-501.	1.2	54
11	Bovine lens aldose reductase: Tight binding of the pyridine coenzyme. <i>Archives of Biochemistry and Biophysics</i> , 1990, 283, 512-518.	1.4	43
12	A New Approach to Control the Enigmatic Activity of Aldose Reductase. <i>PLoS ONE</i> , 2013, 8, e74076.	1.1	39
13	Metal Ion Substitution in the Catalytic Site Greatly Affects the Binding of Sulfhydryl-Containing Compounds to Leucyl Aminopeptidase. <i>Biochemistry</i> , 2006, 45, 3226-3234.	1.2	34
14	Bovine lens aldose reductase: Identification of two enzyme forms. <i>Archives of Biochemistry and Biophysics</i> , 1989, 270, 604-610.	1.4	33
15	Complete Protection by $\beta$ -Crystallin of Lens Sorbitol Dehydrogenase Undergoing Thermal Stress. <i>Journal of Biological Chemistry</i> , 2000, 275, 32559-32565.	1.6	33
16	Identification of new non-carboxylic acid containing inhibitors of aldose reductase. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 4049-4055.	1.4	33
17	Design, Synthesis and in Combo Antidiabetic Bioevaluation of Multitarget Phenylpropanoic Acids. <i>Molecules</i> , 2018, 23, 340.	1.7	33
18	Aldose Reductase does Catalyse the Reduction of Glyceraldehyde Through a Stoichiometric Oxidation of NADPH. <i>Experimental Eye Research</i> , 2000, 71, 515-521.	1.2	31

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19	A New Approach Against Sugar Cataract Through Aldose Reductase Inhibitors. <i>Experimental Eye Research</i> , 1999, 69, 533-538.	1.2	30
20	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.	2.5	29
21	Thiol and disulfide determination by free zone capillar electrophoresis. <i>Journal of Proteomics</i> , 1993, 26, 335-341.	2.4	28
22	Thioltransferase activity of bovine lens glutathione S-transferase. <i>Biochemical Journal</i> , 1998, 334, 57-62.	1.7	28
23	Colorimetric coupled enzyme assay for $\hat{1}^3$ -glutamyltransferase activity using glutathione as substrate. <i>Journal of Proteomics</i> , 2006, 67, 123-130.	2.4	28
24	Sorbitol Dehydrogenase from Bovine Lens: Purification and Properties. <i>Archives of Biochemistry and Biophysics</i> , 1997, 340, 383-391.	1.4	26
25	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.	1.0	26
26	In vitro modification of bovine lens aldose reductase activity. <i>Biochemical and Biophysical Research Communications</i> , 1987, 148, 369-375.	1.0	25
27	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.	1.2	22
28	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.	2.6	22
29	L-dose: an attractive substrate alternative to d-glucose for measuring aldose reductase activity. <i>Biochemical and Biophysical Research Communications</i> , 2015, 456, 891-895.	1.0	22
30	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.	1.3	22
31	Physiological Thiols as Promoters of Glutathione Oxidation and Modifying Agents in Protein S-Thiolation. <i>Archives of Biochemistry and Biophysics</i> , 2002, 397, 392-398.	1.4	20
32	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.	1.3	20
33	Modulation of aldose reductase activity through S-thiolation by physiological thiols. <i>Chemico-Biological Interactions</i> , 2001, 130-132, 597-608.	1.7	19
34	In Search of Differential Inhibitors of Aldose Reductase. <i>Biomolecules</i> , 2022, 12, 485.	1.8	19
35	Oxidative Modification of Aldose Reductase Induced by Copper Ion. Factors and Conditions Affecting the Process. <i>Biochemistry</i> , 1998, 37, 14167-14174.	1.2	18
36	Rapid colorimetric determination of reduced and oxidized glutathione using an end point coupled enzymatic assay. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1779-1785.	1.9	17

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37	Thiol/Disulfide Interconversion in Bovine Lens Aldose Reductase Induced by Intermediates of Glutathione Turnover. <i>Biochemistry</i> , 2001, 40, 11985-11994.	1.2	16
38	Modulation of aldose reductase activity by aldose hemiacetals. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 2329-2339.	1.1	16
39	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.	1.2	16
40	Acid Derivatives of Pyrazolo[1,5-a]pyrimidine as Aldose Reductase Differential Inhibitors. <i>Cell Chemical Biology</i> , 2018, 25, 1414-1418.e3.	2.5	16
41	Basic models for differential inhibition of enzymes. <i>Biochemical and Biophysical Research Communications</i> , 2014, 445, 556-560.	1.0	13
42	Stereoselectivity of Aldose Reductase in the Reduction of Glutathionyl-Hydroxynonanal Adduct. <i>Antioxidants</i> , 2019, 8, 502.	2.2	12
43	Interaction of arabinogalactan with mucins. <i>International Journal of Biological Macromolecules</i> , 2014, 67, 446-451.	3.6	11
44	Soyasaponins from Zolfino bean as aldose reductase differential inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 350-360.	2.5	11
45	Aldose Reductase Differential Inhibitors in Green Tea. <i>Biomolecules</i> , 2020, 10, 1003.	1.8	11
46	Chaperone-like activity of $\beta$ -crystallin toward aldose reductase oxidatively stressed by copper ion. <i>Archives of Biochemistry and Biophysics</i> , 2006, 453, 13-17.	1.4	10
47	Edible vegetables as a source of aldose reductase differential inhibitors. <i>Chemico-Biological Interactions</i> , 2017, 276, 155-159.	1.7	10
48	Binding of 1-Benzopyran-4-one Derivatives to Aldose Reductase: A Free Energy Perturbation Study. <i>Bioorganic and Medicinal Chemistry</i> , 2002, 10, 1427-1436.	1.4	8
49	Kinetic features of carbonyl reductase 1 acting on glutathionylated aldehydes. <i>Chemico-Biological Interactions</i> , 2017, 276, 127-132.	1.7	8
50	Cysteinyl-glycine in the control of glutathione homeostasis in bovine lenses. <i>Molecular Vision</i> , 2010, 16, 1025-33.	1.1	8
51	Pathways of 4-Hydroxy-2-Nonenal Detoxification in a Human Astrocytoma Cell Line. <i>Antioxidants</i> , 2020, 9, 385.	2.2	7
52	The furanosidic scaffold of $\beta$ -D-ribose: a milestone for cell life. <i>Biochemical Society Transactions</i> , 2019, 47, 1931-1940.	1.6	7
53	Intra-site differential inhibition of multi-specific enzymes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 840-846.	2.5	6
54	How the chemical features of molecules may have addressed the settlement of metabolic steps. <i>Metabolomics</i> , 2018, 14, 2.	1.4	4

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55	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.	2.5	4
56	Impact on enzyme activity as a new quality index of wastewater. <i>Journal of Environmental Management</i> , 2013, 117, 76-84.	3.8	3
57	Zofenoprilat-Glutathione Mixed Disulfide as a Specific S-Thiolating Agent of Bovine Lens Aldose Reductase. <i>Antioxidants and Redox Signaling</i> , 2005, 7, 841-848.	2.5	2
58	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.	1.1	2
59	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.	1.0	2
60	Interconversion Pathways of Aldose Reductase Induced by Thiol Compounds. <i>Advances in Experimental Medicine and Biology</i> , 1999, 463, 453-458.	0.8	2
61	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, 1560-1565.	2.5	1
62	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, 1556-1559.	2.5	1
63	Colorimetric Coupled Enzyme Assay for Cystathionine $\beta$ -Synthase. <i>Analytical Sciences</i> , 2016, 32, 901-906.	0.8	0
64	Modelling Biochemical Pathways with the Calculus of Looping Sequences. <i>SIMAI Springer Series</i> , 2012, , 105-125.	0.4	0