Toshiyuki Matsunaga

List of Publications by Year
in descending order

136 papers	3,358 citations	147726 31 h-index	189801 50 g-index
140 all docs	140 docs citations	140 times ranked	3541 citing authors

#	Article	IF	Citations
1	Supplementation of Endothelial Cells with Mitochondria-targeted Antioxidants Inhibit Peroxide-induced Mitochondrial Iron Uptake, Oxidative Damage, and Apoptosis. Journal of Biological Chemistry, 2004, 279, 37575-37587.	1.6	215
2	Multiplicity of Mammalian Reductases for Xenobiotic Carbonyl Compounds. Drug Metabolism and Pharmacokinetics, 2006, 21, 1-18.	1.1	133
3	Kinetic studies of AKR1B10, human aldose reductase-like protein: Endogenous substrates and inhibition by steroids. Archives of Biochemistry and Biophysics, 2009, 487, 1-9.	1.4	94
4	Ceramide-induced Intracellular Oxidant Formation, Iron Signaling, and Apoptosis in Endothelial Cells. Journal of Biological Chemistry, 2004, 279, 28614-28624.	1.6	89
5	Upregulation of immunoproteasomes by nitric oxide: Potential antioxidative mechanism in endothelial cells. Free Radical Biology and Medicine, 2006, 40, 1034-1044.	1.3	87
6	Pathophysiological roles of aldoâ€"keto reductases (AKR1C1 and AKR1C3) in development of cisplatin resistance in human colon cancers. Chemico-Biological Interactions, 2013, 202, 234-242.	1.7	85
7	Quercetin Decreases Claudin-2 Expression Mediated by Up-Regulation of microRNA miR-16 in Lung Adenocarcinoma A549 Cells. Nutrients, 2015, 7, 4578-4592.	1.7	79
8	NF-Î°B activation in endothelial cells treated with oxidized high-density lipoprotein. Biochemical and Biophysical Research Communications, 2003, 303, 313-319.	1.0	78
9	Aldoâ€"Keto Reductase 1B10 and Its Role in Proliferation Capacity of Drug-Resistant Cancers. Frontiers in Pharmacology, 2012, 3, 5.	1.6	78
10	Nuclear distribution of claudin-2 increases cell proliferation in human lung adenocarcinoma cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 2079-2088.	1.9	70
11	Chromene-3-carboxamide derivatives discovered from virtual screening as potent inhibitors of the tumour maker, AKR1B10. Bioorganic and Medicinal Chemistry, 2010, 18, 2485-2490.	1.4	66
12	Glycated High-Density Lipoprotein Induces Apoptosis of Endothelial Cells via a Mitochondrial Dysfunction. Biochemical and Biophysical Research Communications, 2001, 287, 714-720.	1.0	65
13	Roles of rat and human aldoâ€"keto reductases in metabolism of farnesol and geranylgeraniol. Chemico-Biological Interactions, 2011, 191, 261-268.	1.7	57
14	Kaempherol and Luteolin Decrease Claudin-2 Expression Mediated by Inhibition of STAT3 in Lung Adenocarcinoma A549 Cells. Nutrients, 2017, 9, 597.	1.7	57
15	Growth Suppressing Activity for Endothelial Cells Induced from Macrophages by Carboxymethylated Curdlan. Bioscience, Biotechnology and Biochemistry, 1997, 61, 1924-1925.	0.6	56
16	Selective Inhibition of the Tumor Marker Aldo-keto Reductase Family Member 1B10 by Oleanolic Acid. Journal of Natural Products, 2011, 74, 1201-1206.	1.5	56
17	L-Xylulose reductase is involved in 9,10-phenanthrenequinone-induced apoptosis in human T lymphoma cells. Free Radical Biology and Medicine, 2008, 44, 1191-1202.	1.3	54
18	Potent and selective inhibition of the tumor marker AKR1B10 by bisdemethoxycurcumin: Probing the active site of the enzyme with molecular modeling and site-directed mutagenesis. Biochemical and Biophysical Research Communications, 2009, 389, 128-132.	1.0	54

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19	Design, synthesis and evaluation of caffeic acid phenethyl ester-based inhibitors targeting a selectivity pocket in the active site of human aldoâ€“keto reductase 1B10. European Journal of Medicinal Chemistry, 2012, 48, 321-329.	2.6	51
20	Selective Inhibition of the Tumor Marker AKR1B10 by Antiinflammatory N-Phenylanthranilic Acids and Glycyrrhetic Acid. Biological and Pharmaceutical Bulletin, 2010, 33, 886-890.	0.6	48
21	Characterization of human DHRS4: An inducible short-chain dehydrogenase/reductase enzyme with 3Î²-hydroxysteroid dehydrogenase activity. Archives of Biochemistry and Biophysics, 2008, 477, 339-347.	1.4	46
22	Selective Inhibition of Human Type-5 17Î²-Hydroxysteroid Dehydrogenase (AKR1C3) by Baccharin, a Component of Brazilian Propolis. Journal of Natural Products, 2012, 75, 716-721.	1.5	43
23	Claudin-5, -7, and -18 suppress proliferation mediated by inhibition of phosphorylation of Akt in human lung squamous cell carcinoma. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 293-302.	1.9	43
24	Claudin-18 inhibits cell proliferation and motility mediated by inhibition of phosphorylation of PDK1 and Akt in human lung adenocarcinoma A549 cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 1170-1178.	1.9	41
25	Involvement of an aldo-keto reductase (AKR1C3) in redox cycling of 9,10-phenanthrenequinone leading to apoptosis in human endothelial cells. Chemico-Biological Interactions, 2009, 181, 52-60.	1.7	39
26	Structure-Guided Design, Synthesis, and Evaluation of Salicylic Acid-Based Inhibitors Targeting a Selectivity Pocket in the Active Site of Human 20Î±-Hydroxysteroid Dehydrogenase (AKR1C1). Journal of Medicinal Chemistry, 2009, 52, 3259-3264.	2.9	39
27	Involvement of the aldoâ€“keto reductase, AKR1B10, in mitomycin-c resistance through reactive oxygen species-dependent mechanisms. Anti-Cancer Drugs, 2011, 22, 402-408.	0.7	37
28	Autophagy inhibition enhances anticancer efficacy of artepillin C, a cinnamic acid derivative in Brazilian green propolis. Biochemical and Biophysical Research Communications, 2018, 497, 437-443.	1.0	37
29	Down-regulation of Claudin-2 Expression and Proliferation by Epigenetic Inhibitors in Human Lung Adenocarcinoma A549 Cells. Journal of Biological Chemistry, 2017, 292, 2411-2421.	1.6	36
30	Glycated high-density lipoprotein regulates reactive oxygen species and reactive nitrogen species in endothelial cells. Metabolism: Clinical and Experimental, 2003, 52, 42-49.	1.5	35
31	The Role of AKR1B10 in Physiology and Pathophysiology. Metabolites, 2021, 11, 332.	1.3	35
32	Acquisition of doxorubicin resistance facilitates migrating and invasive potentials of gastric cancer MKN45 cells through up-regulating aldoâ€“keto reductase 1B10. Chemico-Biological Interactions, 2015, 230, 30-39.	1.7	34
33	Structureâ€“activity relationship of flavonoids as potent inhibitors of carbonyl reductase 1 (CBR1). FÃ¬toterapÃ¬Ã¢, 2015, 101, 51-56.	1.1	33
34	Human carbonyl reductase 4 is a mitochondrial NADPH-dependent quinone reductase. Biochemical and Biophysical Research Communications, 2008, 377, 1326-1330.	1.0	32
35	Toxicity against gastric cancer cells by combined treatment with 5-fluorouracil and mitomycin c: implication in oxidative stress. Cancer Chemotherapy and Pharmacology, 2010, 66, 517-526.	1.1	32
36	Development of Novel AKR1C3 Inhibitors as New Potential Treatment for Castration-Resistant Prostate Cancer. Journal of Medicinal Chemistry, 2020, 63, 10396-10411.	2.9	32

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37	Induction of aldo-keto reductases (AKR1C1 and AKR1C3) abolishes the efficacy of daunorubicin chemotherapy for leukemic U937 cells. Anti-Cancer Drugs, 2014, 25, 868-877.	0.7	31
38	Hypotonic Stress-induced Down-regulation of Claudin-1 and -2 Mediated by Dephosphorylation and Clathrin-dependent Endocytosis in Renal Tubular Epithelial Cells. Journal of Biological Chemistry, 2016, 291, 24787-24799.	1.6	31
39	Aldo-keto reductase 1B10 promotes development of cisplatin resistance in gastrointestinal cancer cells through down-regulating peroxisome proliferator-activated receptor-Î³-dependent mechanism. Chemico-Biological Interactions, 2016, 256, 142-153.	1.7	29
40	Î±-Pyrrolidinononanophenone provokes apoptosis of neuronal cells through alterations in antioxidant properties. Toxicology, 2017, 386, 93-102.	2.0	29
41	Synthesis of Potent and Selective Inhibitors of Aldo-Keto Reductase 1B10 and Their Efficacy against Proliferation, Metastasis, and Cisplatin Resistance of Lung Cancer Cells. Journal of Medicinal Chemistry, 2017, 60, 8441-8455.	2.9	27
42	Exposure to 9,10-phenanthrenequinone accelerates malignant progression of lung cancer cells through up-regulation of aldo-keto reductase 1B10. Toxicology and Applied Pharmacology, 2014, 278, 180-189.	1.3	25
43	Chrysin enhances anticancer drug-induced toxicity mediated by the reduction of claudin-1 and 11 expression in a spheroid culture model of lung squamous cell carcinoma cells. Scientific Reports, 2019, 9, 13753.	1.6	24
44	Properties and tissue distribution of a novel aldoâ€“keto reductase encoding in a rat gene (Akr1b10). Archives of Biochemistry and Biophysics, 2010, 503, 230-237.	1.4	23
45	Synthesis and structureâ€“activity relationship of 2-phenyliminochromene derivatives as inhibitors for aldoâ€“keto reductase (AKR) 1B10. Bioorganic and Medicinal Chemistry, 2013, 21, 6378-6384.	1.4	23
46	Human dehydrogenase/reductase (SDR family) member 11 is a novel type of 17Î²-hydroxysteroid dehydrogenase. Biochemical and Biophysical Research Communications, 2016, 472, 231-236.	1.0	23
47	Decrease in paracellular permeability and chemosensitivity to doxorubicin by claudin-1 in spheroid culture models of human lung adenocarcinoma A549 cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 769-780.	1.9	23
48	Enzymatic characteristics of an aldoâ€“keto reductase family protein (AKR1C15) and its localization in rat tissues. Archives of Biochemistry and Biophysics, 2007, 465, 136-147.	1.4	22
49	Characterization of a rat NADPH-dependent aldo-keto reductase (AKR1B13) induced by oxidative stress. Chemico-Biological Interactions, 2009, 178, 151-157.	1.7	21
50	Structure-based optimization and biological evaluation of human 20Î±-hydroxysteroid dehydrogenase (AKR1C1) salicylic acid-based inhibitors. European Journal of Medicinal Chemistry, 2010, 45, 5309-5317.	2.6	21
51	The RING finger- and PDZ domain-containing protein PDZRN3 controls localization of the Mg2+ regulator claudin-16 in renal tube epithelial cells. Journal of Biological Chemistry, 2017, 292, 13034-13044.	1.6	21
52	Caffeic acid phenethyl ester potentiates gastric cancer cell sensitivity to doxorubicin and cisplatin by decreasing proteasome function. Anti-Cancer Drugs, 2019, 30, 251-259.	0.7	21
53	Elevation of sensitivity to anticancer agents of human lung adenocarcinoma A549 cells by knockdown of claudin-2 expression in monolayer and spheroid culture models. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 470-479.	1.9	20
54	Molecular Cloning of a Novel Type of Rat Cytoplasmic 17Î²-Hydroxysteroid Dehydrogenase Distinct from the Type 5 Isozyme. Journal of Biochemistry, 2006, 139, 1053-1063.	0.9	19

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55	Up-Regulation of Carbonyl Reductase 1 Renders Development of Doxorubicin Resistance in Human Gastrointestinal Cancers. Biological and Pharmaceutical Bulletin, 2015, 38, 1309-1319.	0.6	19
56	Caffeic acid phenethyl ester down-regulates claudin-2 expression at the transcriptional and post-translational levels and enhances chemosensitivity to doxorubicin in lung adenocarcinoma A549 cells. Journal of Nutritional Biochemistry, 2018, 56, 205-214.	1.9	19
57	Biochemical and structural characterization of a short-chain dehydrogenase/reductase of Thermus thermophilus HB8. Chemico-Biological Interactions, 2009, 178, 117-126.	1.7	18
58	Synthesis of non-prenyl analogues of baccharin as selective and potent inhibitors for aldo-keto reductase 1C3. Bioorganic and Medicinal Chemistry, 2014, 22, 5220-5233.	1.4	18
59	Apoptosis of Endothelial Cells may be Mediated by Genes of Peroxisome Proliferator-activated Receptor .GAMMA.1(PPAR .GAMMA.1) and PPAR.ALPHA. Genes.. Journal of Atherosclerosis and Thrombosis, 2003, 10, 99-108.	0.9	18
60	Detection of oxidized high-density lipoprotein. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 781, 331-343.	1.2	17
61	Molecular determinants for the stereospecific reduction of 3-ketosteroids and reactivity towards all-trans-retinal of a short-chain dehydrogenase/reductase (DHRS4). Archives of Biochemistry and Biophysics, 2009, 481, 183-190.	1.4	17
62	Kaempferide Enhances Chemosensitivity of Human Lung Adenocarcinoma A549 Cells Mediated by the Decrease in Phosphorylation of Akt and Claudin-2 Expression. Nutrients, 2020, 12, 1190.	1.7	17
63	Expression of Î±-amylase gene in rat liver: Liver-specific amylase has a high affinity to glycogen. Electrophoresis, 2001, 22, 12-17.	1.3	16
64	Brazilian Green Propolis Rescues Oxidative Stress-Induced Mislocalization of Claudin-1 in Human Keratinocyte-Derived HaCaT Cells. International Journal of Molecular Sciences, 2019, 20, 3869.	1.8	16
65	Pathophysiological roles of autophagy and aldo-keto reductases in development of doxorubicin resistance in gastrointestinal cancer cells. Chemico-Biological Interactions, 2019, 314, 108839.	1.7	16
66	Inhibition of Human Aldose Reductase-Like Protein (AKR1B10) by Î±- and Î³-Mangostins, Major Components of Pericarps of Mangosteen. Biological and Pharmaceutical Bulletin, 2012, 35, 2075-2080.	0.6	15
67	Synthesis of 8-hydroxy-2-iminochromene derivatives as selective and potent inhibitors of human carbonyl reductase 1. Organic and Biomolecular Chemistry, 2015, 13, 7487-7499.	1.5	15
68	Characterization of an Oligomeric Carbonyl Reductase of Dog Liver: Its Identity with Peroxisomal Tetrameric Carbonyl Reductase. Biological and Pharmaceutical Bulletin, 2007, 30, 1787-1791.	0.6	14
69	Rat Aldose Reductase-Like Protein (AKR1B14) Efficiently Reduces the Lipid Peroxidation Product 4-Oxo-2-nonenal. Biological and Pharmaceutical Bulletin, 2010, 33, 1886-1890.	0.6	14
70	Nitric oxide mitigates apoptosis in human endothelial cells induced by 9,10-phenanthrenequinone: Role of proteasomal function. Toxicology, 2010, 268, 191-197.	2.0	14
71	9,10-Phenanthrenequinone promotes secretion of pulmonary aldo-keto reductases with surfactant. Cell and Tissue Research, 2012, 347, 407-417.	1.5	14
72	Sibutramine provokes apoptosis of aortic endothelial cells through altered production of reactive oxygen and nitrogen species. Toxicology and Applied Pharmacology, 2017, 314, 1-11.	1.3	14

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73	Chlorpheniramine Increases Paracellular Permeability to Marker Fluorescein Lucifer Yellow Mediated by Internalization of Occludin in Murine Colonic Epithelial Cells. Biological and Pharmaceutical Bulletin, 2017, 40, 1299-1305.	0.6	14
74	Targeting Nrf2-antioxidant signalling reverses acquired cabazitaxel resistance in prostate cancer cells. Journal of Biochemistry, 2021, 170, 89-96.	0.9	14
75	Down-Regulation of Claudin-2 Expression by Cyanidin-3-Glucoside Enhances Sensitivity to Anticancer Drugs in the Spheroid of Human Lung Adenocarcinoma A549 Cells. International Journal of Molecular Sciences, 2021, 22, 499.	1.8	14
76	Reduction of Cytotoxic p-Quinone Metabolites of tert-Butylhydroquinone by Human Aldo-keto Reductase (AKR) 1B10. Drug Metabolism and Pharmacokinetics, 2012, 27, 553-558.	1.1	13
77	Cloning and Characterization of Four Rabbit Aldo-Keto Reductases Featuring Broad Substrate Specificity for Xenobiotic and Endogenous Carbonyl Compounds: Relationship with Multiple Forms of Drug Ketone Reductases. Drug Metabolism and Disposition, 2014, 42, 803-812.	1.7	13
78	Structure-activity relationship for toxicity of Î±-pyrrolidinophenones in human aortic endothelial cells. Forensic Toxicology, 2017, 35, 309-316.	1.4	13
79	Human carbonyl reductase 1 participating in intestinal first-pass drug metabolism is inhibited by fatty acids and acyl-CoAs. Biochemical Pharmacology, 2017, 138, 185-192.	2.0	13
80	Increase in resistance to anticancer drugs involves occludin in spheroid culture model of lung adenocarcinoma A549 cells. Scientific Reports, 2018, 8, 15157.	1.6	13
81	Human dehydrogenase/reductase SDR family member 11 (DHRS11) and aldo-keto reductase 1C isoforms in comparison: Substrate and reaction specificity in the reduction of 11-keto-C19-steroids. Journal of Steroid Biochemistry and Molecular Biology, 2020, 199, 105586.	1.2	13
82	Significance of aldo-keto reductase 1C3 and ATP-binding cassette transporter B1 in gain of irinotecan resistance in colon cancer cells. Chemico-Biological Interactions, 2020, 332, 109295.	1.7	13
83	Hyperosmolarity-Induced Down-Regulation of Claudin-2 Mediated by Decrease in PKCÎ²-Dependent GATA-2 in MDCK Cells. Journal of Cellular Physiology, 2015, 230, 2776-2787.	2.0	12
84	Roles of aldo-keto reductases 1B10 and 1C3 and ATP-binding cassette transporter in docetaxel tolerance. Free Radical Research, 2016, 50, 1296-1308.	1.5	12
85	Up-regulation of claudin-2 expression by aldosterone in colonic epithelial cells of mice fed with NaCl-depleted diets. Scientific Reports, 2017, 7, 12223.	1.6	12
86	Claudin-2 binding peptides, VPDSM and DSMKF, down-regulate claudin-2 expression and anticancer resistance in human lung adenocarcinoma A549 cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2020, 1867, 118642.	1.9	12
87	Long-chain fatty acids inhibit human members of the aldo-keto reductase 1C subfamily. Journal of Biochemistry, 2017, 162, 371-379.	0.9	11
88	Flavonol glycosides of Rosa multiflora regulates intestinal barrier function through inhibiting claudin expression in differentiated Caco-2 cells. Nutrition Research, 2019, 72, 92-104.	1.3	11
89	Substrate Specificity of a Mouse Aldo-Keto Reductase (AKR1C12). Biological and Pharmaceutical Bulletin, 2006, 29, 2488-2492.	0.6	10
90	Rat NAD+-dependent 3Î±-hydroxysteroid dehydrogenase (AKR1C17): A member of the aldo-keto reductase family highly expressed in kidney cytosol. Archives of Biochemistry and Biophysics, 2007, 464, 122-129.	1.4	10

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91	Characterization of rat and mouse NAD+-dependent 3Î±/17Î²/20Î±-hydroxysteroid dehydrogenases and identification of substrate specificity determinants by site-directed mutagenesis. Archives of Biochemistry and Biophysics, 2007, 467, 76-86.	1.4	10
92	Characterization of rabbit aldose reductase-like protein with 3Î²-hydroxysteroid dehydrogenase activity. Archives of Biochemistry and Biophysics, 2012, 527, 23-30.	1.4	10
93	Sibutramine facilitates apoptosis and contraction of aortic smooth muscle cells through elevating production of reactive oxygen species. European Journal of Pharmacology, 2018, 841, 113-121.	1.7	10
94	Characterization of rabbit morphine 6-dehydrogenase and two NAD+-dependent 3Î±(17Î²)-hydroxysteroid dehydrogenases. Archives of Biochemistry and Biophysics, 2013, 529, 131-139.	1.4	9
95	Clathrin-dependent endocytosis of claudin-2 by DFYSP peptide causes lysosomal damage in lung adenocarcinoma A549 cells. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2326-2336.	1.4	9
96	Elevation of Chemosensitivity of Lung Adenocarcinoma A549 Spheroid Cells by Claudin-2 Knockdown through Activation of Glucose Transport and Inhibition of Nrf2 Signal. International Journal of Molecular Sciences, 2021, 22, 6582.	1.8	9
97	Aldo-Keto Reductases as New Therapeutic Targets for Colon Cancer Chemoresistance. Resistance To Targeted Anti-cancer Therapeutics, 2013, , 109-133.	0.1	9
98	Weak Ultraviolet B Enhances the Mislocalization of Claudin-1 Mediated by Nitric Oxide and Peroxynitrite Production in Human Keratinocyte-Derived HaCaT Cells. International Journal of Molecular Sciences, 2020, 21, 7138.	1.8	9
99	Aldo-keto reductase 1C15 as a quinone reductase in rat endothelial cell: Its involvement in redox cycling of 9,10-phenanthrenequinone. Free Radical Research, 2011, 45, 848-857.	1.5	8
100	Facilitation of 9,10-phenanthrenequinone-elicited neuroblastoma cell apoptosis by NAD(P)H:quinone oxidoreductase 1. Chemico-Biological Interactions, 2018, 279, 10-20.	1.7	8
101	Sodium Citrate Increases Expression and Flux of Mg2+ Transport Carriers Mediated by Activation of MEK/ERK/c-Fos Pathway in Renal Tubular Epithelial Cells. Nutrients, 2018, 10, 1345.	1.7	8
102	Protective effect of rat aldo-keto reductase (AKR1C15) on endothelial cell damage elicited by 4-hydroxy-2-nonenal. Chemico-Biological Interactions, 2011, 191, 364-370.	1.7	7
103	9,10-Phenanthrenequinone Induces Monocytic Differentiation of U937 Cells through Regulating Expression of Aldo-Keto Reductase 1C3. Biological and Pharmaceutical Bulletin, 2012, 35, 1598-1602.	0.6	7
104	Rabbit 3-hydroxyhexobarbital dehydrogenase is a NADPH-preferring reductase with broad substrate specificity for ketosteroids, prostaglandin D2, and other endogenous and xenobiotic carbonyl compounds. Biochemical Pharmacology, 2013, 86, 1366-1375.	2.0	7
105	Inhibition of aldo-keto reductase family 1 member B10 by unsaturated fatty acids. Archives of Biochemistry and Biophysics, 2016, 609, 69-76.	1.4	7
106	Instability of C154Y variant of aldo-keto reductase 1C3. Chemico-Biological Interactions, 2017, 276, 194-202.	1.7	7
107	ZO-2 Suppresses Cell Migration Mediated by a Reduction in Matrix Metalloproteinase 2 in Claudin-18-Expressing Lung Adenocarcinoma A549 Cells. Biological and Pharmaceutical Bulletin, 2019, 42, 247-254.	0.6	7
108	Substrate Specificity and Inhibitor Sensitivity of Rabbit 20Î±-Hydroxysteroid Dehydrogenase. Biological and Pharmaceutical Bulletin, 2013, 36, 1514-1518.	0.6	6

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109	Protective roles of aldo-keto reductase 1B10 and autophagy against toxicity induced by p-quinone metabolites of tert-butylhydroquinone in lung cancer A549 cells. Chemico-Biological Interactions, 2015, 234, 282-289.	1.7	6
110	Upâ€Regulation of Transient Receptor Potential Melastatin 6 Channel Expression by Tumor Necrosis Factorâ€Î± in the Presence of Epidermal Growth Factor Receptor Tyrosine Kinase Inhibitor. Journal of Cellular Physiology, 2017, 232, 2841-2850.	2.0	6
111	Rabbit dehydrogenase/reductase SDR family member 11 (DHRS11): Its identity with acetohexamide reductase with broad substrate specificity and inhibitor sensitivity, different from human DHRS11. Chemico-Biological Interactions, 2019, 305, 12-20.	1.7	6
112	Increase in Toxicity of Anticancer Drugs by PMTPV, a Claudin-1-Binding Peptide, Mediated via Down-Regulation of Claudin-1 in Human Lung Adenocarcinoma A549 Cells. International Journal of Molecular Sciences, 2020, 21, 5909.	1.8	6
113	Reactive Oxygen Species Downregulate Transient Receptor Potential Melastatin 6 Expression Mediated by the Elevation of miR-24-3p in Renal Tubular Epithelial Cells. Cells, 2021, 10, 1893.	1.8	6
114	Protective Effects of Ethanol Extract of Brazilian Green Propolis and Apigenin against Weak Ultraviolet Ray-B-Induced Barrier Dysfunction via Suppressing Nitric Oxide Production and Mislocalization of Claudin-1 in HaCaT Cells. International Journal of Molecular Sciences, 2021, 22, 10326.	1.8	6
115	9,10-Phenanthrenequinone provokes dysfunction of brain endothelial barrier through down-regulating expression of claudin-5. Toxicology, 2021, 461, 152896.	2.0	6
116	Rescue of tight junctional localization of a claudin-16 mutant D97S by antimalarial medicine primaquine in Madin-Darby canine kidney cells. Scientific Reports, 2019, 9, 9647.	1.6	5
117	4â€²-Fluoropyrrolidinononanophenone elicits neuronal cell apoptosis through elevating production of reactive oxygen and nitrogen species. Forensic Toxicology, 2021, 39, 123-133.	1.4	5
118	Enhancement of Endothelial Barrier Permeability by Mitragynine. Biological and Pharmaceutical Bulletin, 2017, 40, 1779-1783.	0.6	4
119	Upregulation of transient receptor potential melastatin 6 channel expression by rosiglitazone and allâ€transâ€retinoic acid in erlotinibâ€treated renal tubular epithelial cells. Journal of Cellular Physiology, 2019, 234, 8951-8962.	2.0	4
120	Loxoprofen enhances intestinal barrier function via generation of its active metabolite by carbonyl reductase 1 in differentiated Caco-2Âcells. Chemico-Biological Interactions, 2021, 348, 109634.	1.7	4
121	Development of cisplatin resistance in breast cancer MCF7 cells by up-regulating aldo-keto reductase 1C3 expression, glutathione synthesis and proteasomal proteolysis. Journal of Biochemistry, 2022, 171, 97-108.	0.9	4
122	Discovery and Structure-Based Optimization of Novel Atg4B Inhibitors for the Treatment of Castration-Resistant Prostate Cancer. Journal of Medicinal Chemistry, 2022, 65, 4878-4892.	2.9	4
123	Upregulation of Chemoresistance by Mg2+ Deficiency through Elevation of ATP Binding Cassette Subfamily B Member 1 Expression in Human Lung Adenocarcinoma A549 Cells. Cells, 2021, 10, 1179.	1.8	3
124	Apoptotic mechanism in human brain microvascular endothelial cells triggered by 4â€²-iodo-Î±-pyrrolidinononanophenone: Contribution of decrease in antioxidant properties. Toxicology Letters, 2022, 355, 127-140.	0.4	3
125	Characterization of hamster NAD⁺-dependent 3(17)Î²-hydroxysteroid dehydrogenase belonging to the aldo-keto reductase 1C subfamily. Journal of Biochemistry, 2015, 158, 425-434.	0.9	2
126	Mouse Akr1cl gene product is a prostaglandin D2 11-ketoreductase with strict substrate specificity. Archives of Biochemistry and Biophysics, 2019, 674, 108096.	1.4	2

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127	Protective Effect of Aldoâ€“keto Reductase 1B1 Against Neuronal Cell Damage Elicited by 4â€²-Fluoro-Î±-pyrrolidinononanophenone. Neurotoxicity Research, 2021, 39, 1360-1371.	1.3	2
128	Porcine aldo-keto reductase 1C subfamily members AKR1C1 and AKR1C4: Substrate specificity, inhibitor sensitivity and activators. Journal of Steroid Biochemistry and Molecular Biology, 2022, 221, 106113.	1.2	2
129	Increase in Anticancer Drug-Induced Toxicity by Fisetin in Lung Adenocarcinoma A549 Spheroid Cells Mediated by the Reduction of Claudin-2 Expression. International Journal of Molecular Sciences, 2022, 23, 7536.	1.8	2
130	Expression of Pyrimidine 5â€²-Nucleotidase Subclass I During Erythrocyte Maturation in Rats. Journal of Hematotherapy and Stem Cell Research, 2001, 10, 703-707.	1.8	1
131	Oxidized High-Density Lipoprotein. , 2014, , 247-272.		1
132	Identification of a determinant for strict NADP(H)-specificity and high sensitivity to mixed-type steroid inhibitor of rabbit aldoâ€“keto reductase 1C33 by site-directed mutagenesis. Archives of Biochemistry and Biophysics, 2015, 569, 19-25.	1.4	1
133	Characterization of aldo-keto reductase 1C subfamily members encoded in two rat genes (akr1c19 and) Tj ETQq1 1 0.784314 rgBT /Ov Biophysics, 2021, 700, 108755.	1.4	1
134	Inverse regulation of claudin-2 and -7 expression by p53 and hepatocyte nuclear factor 4Î± in colonic MCE301 cells. Tissue Barriers, 2021, 9, 1860409.	1.6	1
135	4â€²-Iodo-Î±-Pyrrolidinononanophenone Provokes Differentiated SH-SY5Y Cell Apoptosis Through Downregulating Nitric Oxide Production and Bcl-2 Expression. Neurotoxicity Research, 2022, 40, 1322-1336.	1.3	1
136	Formation of oxidized HDL in atherosclerotic foci.. Seibutsu Butsuri Kagaku, 1998, 42, 245-249.	0.1	0