Alan M Diamond

List of Publications by Year
in descending order

85 papers	3,219 citations	136950 32 h-index	155660 55 g-index
86 all docs	86 docs citations	86 times ranked	3700 citing authors

#	Article	IF	Citations
1	Role of glutathione peroxidase 1 in breast cancer: loss of heterozygosity and allelic differences in the response to selenium. Cancer Research, 2003, 63, 3347-51.	0.9	236
2	MnSOD upregulation sustains the Warburg effect via mitochondrial ROS and AMPK-dependent signalling in cancer. Nature Communications, 2015, 6, 6053.	12.8	209
3	Selenoprotein Gene Nomenclature. Journal of Biological Chemistry, 2016, 291, 24036-24040.	3.4	207
4	Structure and properties of a bovine liver UGA suppressor serine tRNA with a tryptophan anticodon. Cell, 1981, 25, 497-506.	28.9	149
5	Structure-Expression Relationships of the 15-kDa Selenoprotein Gene. Journal of Biological Chemistry, 2000, 275, 35540-35547.	3.4	145
6	Selenoprotein deficiency accelerates prostate carcinogenesis in a transgenic model. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8179-8184.	7.1	126
7	Selective Inhibition of Selenocysteine tRNA Maturation and Selenoprotein Synthesis in Transgenic Mice Expressing Isopentenyladenosine-Deficient Selenocysteine tRNA. Molecular and Cellular Biology, 2001, 21, 3840-3852.	2.3	124
8	Selenium induces changes in the selenocysteine tRNA[Ser]Secpopulation in mammalian cells. Nucleic Acids Research, 1991, 19, 939-943.	14.5	89
9	Selenium and GPx-1 overexpression protect mammalian cells against UV-induced DNA damage. Biological Trace Element Research, 2007, 115, 227-241.	3.5	89
10	The Link between Selenium and Chemoprevention: A Case for Selenoproteins. Journal of Nutrition, 2004, 134, 2899-2902.	2.9	88
11	Molecular mechanisms by which selenoproteins affect cancer risk and progression. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 1546-1554.	2.4	85
12	Manganese superoxide dismutase and glutathione peroxidase-1 contribute to the rise and fall of mitochondrial reactive oxygen species which drive oncogenesis. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 628-632.	1.0	77
13	Functional and physical interaction between the selenium-binding protein 1 (SBP1) and the glutathione peroxidase 1 selenoprotein. Carcinogenesis, 2010, 31, 1360-1366.	2.8	75
14	Selenoprotein-Deficient Transgenic Mice Exhibit Enhanced Exercise-Induced Muscle Growth. Journal of Nutrition, 2003, 133, 3091-3097.	2.9	74
15	Does a role for selenium in DNA damage repair explain apparent controversies in its use in chemoprevention?. Mutagenesis, 2013, 28, 127-134.	2.6	74
16	Selenium-Binding Protein 1 in Human Health and Disease. International Journal of Molecular Sciences, 2018, 19, 3437.	4.1	65
17	Allelic Loss of the Gene for the GPX1 Selenium-Containing Protein Is a Common Event in Cancer. Journal of Nutrition, 2005, 135, 3021S-3024S.	2.9	63
18	Antioxidant Defenses Influence HIV-1 Replication and Associated Cytopathic Effects. Free Radical Biology and Medicine, 1998, 24, 1485-1491.	2.9	55

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19	Pharmacological inhibition of LSD1 and mTOR reduces mitochondrial retention and associated ROS levels in the red blood cells of sickle cell disease. Experimental Hematology, 2017, 50, 46-52.	0.4	52
20	Low doses of selenium specifically stimulate the repair of oxidative DNA damage in LNCaP prostate cancer cells. Free Radical Research, 2012, 46, 105-116.	3.3	50
21	Molecular Consequences of Genetic Variations in the Glutathione Peroxidase 1 Selenoenzyme. Cancer Research, 2009, 69, 8183-8190.	0.9	47
22	Selenoprotein deficiency enhances radiationâ€induced micronuclei formation. Molecular Nutrition and Food Research, 2008, 52, 1300-1304.	3.3	46
23	Allelic Loss at the GPx-1 Locus in Cancer of the Head and Neck. Biological Trace Element Research, 2004, 101, 097-106.	3.5	45
24	The inhibition of radiation-induced mutagenesis by the combined effects of selenium and the aminothiol WR-1065. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1996, 356, 147-154.	1.0	42
25	Physical activity reduces prostate carcinogenesis in a transgenic model. Prostate, 2009, 69, 1372-1377.	2.3	41
26	Dietary supplements and human health: For better or for worse?. Molecular Nutrition and Food Research, 2011, 55, 122-135.	3.3	41
27	Effects of 1,2-naphthoquinones on human tumor cell growth and lack of cross-resistance with other anticancer agents. Anti-Cancer Drugs, 1998, 9, 437-448.	1.4	40
28	A regulatory role for Sec tRNA[Ser]Sec in selenoprotein synthesis. Rna, 2004, 10, 1142-1152.	3.5	40
29	Inverse association between glutathione peroxidase activity and both seleniumâ€binding protein 1 levels and gleason score in human prostate tissue. Prostate, 2012, 72, 1006-1012.	2.3	40
30	GPx-1 modulates Akt and P70S6K phosphorylation and Gadd45 levels in MCF-7 cells. Free Radical Biology and Medicine, 2004, 37, 187-195.	2.9	36
31	Tumor suppressor PRSS8 targets Sphk1/S1P/Stat3/Akt signaling in colorectal cancer. Oncotarget, 2016, 7, 26780-26792.	1.8	34
32	Serum Selenium, Genetic Variation in Selenoenzymes, and Risk of Colorectal Cancer: Primary Analysis from the Women's Health Initiative Observational Study and Meta-analysis. Cancer Epidemiology Biomarkers and Prevention, 2011, 20, 1822-1830.	2.5	33
33	Evidence That Selenium Binding Protein 1 Is a Tumor Suppressor in Prostate Cancer. PLoS ONE, 2015, 10, e0127295.	2.5	33
34	Selenium, but Not Lycopene or Vitamin E, Decreases Growth of Transplantable Dunning R3327-H Rat Prostate Tumors. PLoS ONE, 2010, 5, e10423.	2.5	31
35	The Subcellular Location of Selenoproteins and the Impact on Their Function. Nutrients, 2015, 7, 3938-3948.	4.1	31
36	Molecular crossâ€talk between members of distinct families of selenium containing proteins. Molecular Nutrition and Food Research, 2014, 58, 117-123.	3.3	28

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37	Selenium-binding protein 1 as a tumor suppressor and a prognostic indicator of clinical outcome. Biomarker Research, 2013, 1, 15.	6.8	27
38	Natural Allelic Variations in Glutathione Peroxidase-1 Affect Its Subcellular Localization and Function. Cancer Research, 2014, 74, 5118-5126.	0.9	27
39	Glutathione peroxidase and viral replication: Implications for viral evolution and chemoprevention. BioFactors, 2001, 14, 205-210.	5.4	26
40	Genetic and Functional Analysis of Mammalian Sep15 Selenoprotein. Methods in Enzymology, 2002, 347, 187-197.	1.0	25
41	Quantitative Proteomic Analysis Reveals That Anti-Cancer Effects of Selenium-Binding Protein 1 In Vivo Are Associated with Metabolic Pathways. PLoS ONE, 2015, 10, e0126285.	2.5	23
42	Correlations of SELENOF and SELENOP genotypes with serum selenium levels and prostate cancer. Prostate, 2018, 78, 279-288.	2.3	23
43	Overproduction of selenocysteine tRNA in Chinese hamster ovary cells following transfection of the mouse tRNA[Ser]Sec gene. Rna, 1998, 4, 1436-1443.	3.5	20
44	Seleniumâ€binding protein 1 alters energy metabolism in prostate cancer cells. Prostate, 2020, 80, 962-976.	2.3	20
45	Selenium levels in human breast carcinoma tissue are associated with a common polymorphism in the gene for SELENOP (Selenoprotein P). Journal of Trace Elements in Medicine and Biology, 2017, 39, 227-233.	3.0	19
46	Selenoproteins of the Human Prostate: Unusual Properties and Role in Cancer Etiology. Biological Trace Element Research, 2019, 192, 51-59.	3.5	18
47	Selenium Influences the Turnover of Selenocysteine tRNA[Ser]Sec in Chinese Hamster Ovary Cells. Journal of Nutrition, 2002, 132, 1830-1835.	2.9	16
48	The Interaction between Dietary Selenium Intake and Genetics in Determining Cancer Risk and Outcome. Nutrients, 2020, 12, 2424.	4.1	16
49	Translational Regulation of GPx-1 and GPx-4 by the mTOR Pathway. PLoS ONE, 2014, 9, e93472.	2.5	16
50	Enhanced discrimination of single nucleotide polymorphism in genotyping by phosphorothioate proofreading allele-specific amplification. Analytical Biochemistry, 2007, 369, 54-59.	2.4	15
51	Radioresistant derivatives of an X-ray-senstive CHO cell line exhibit distinct patterns of sensitivity to DNA-damaging agents. Carcinogenesis, 1990, 11, 1265-1269.	2.8	14
52	Multiple levels of regulation of selenoprotein biosynthesis revealed from the analysis of human glioma cell lines. Biochemical Pharmacology, 2000, 60, 489-497.	4.4	14
53	Selenium Metabolism in Drosophila. Journal of Biological Chemistry, 1999, 274, 18729-18734.	3.4	12
54	Alterations in transformation efficiency by the ADPRT-inhibitor 3-aminobenzamide are oncogene specific. Carcinogenesis, 1989, 10, 383-385.	2.8	11

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55	A pseudogene for human glutathione peroxidase. Gene, 1992, 122, 377-380.	2.2	11
56	SELENOF is a new tumor suppressor in breast cancer. Oncogene, 2022, 41, 1263-1268.	5.9	11
57	[30] Methods of RNA sequence analysis. Methods in Enzymology, 1983, 100, 431-453.	1.0	10
58	Effects of selenium on glutathione peroxidase activity and radioprotection in mammalian cells. Radiation Oncology Investigations, 1995, 3, 383-386.	0.9	9
59	A Critical Role for Cysteine 57 in the Biological Functions of Selenium Binding Protein-1. International Journal of Molecular Sciences, 2015, 16, 27599-27608.	4.1	9
60	Infratentorial and supratentorial leukoencephalopathy associated with vitamin B12 deficiency. Journal of Stroke and Cerebrovascular Diseases, 2000, 9, 136-138.	1.6	8
61	L-Selenomethionine Does Not Protect Against Testosterone Plus 17Î²-Estradiol-Induced Oxidative Stress and Preneoplastic Lesions in the Prostate of NBL Rats. Nutrition and Cancer, 2014, 66, 825-834.	2.0	8
62	Loss of SELENOF Induces the Transformed Phenotype in Human Immortalized Prostate Epithelial Cells. International Journal of Molecular Sciences, 2021, 22, 12040.	4.1	8
63	On the road to selenocysteine. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13395-13396.	7.1	7
64	GPX1 Localizes to the Nucleus in Prostate Epithelium and its Levels are not Associated with Prostate Cancer Recurrence. Antioxidants, 2018, 7, 167.	5.1	5
65	Interaction of NKX3.1 and SELENOP genotype with prostate cancer recurrence. Prostate, 2019, 79, 462-467.	2.3	5
66	Analysis of selenocysteine (Sec) tRNA[Ser]Sec genes in Chinese hamsters. Gene, 1999, 239, 49-53.	2.2	4
67	Changes in the activity of the GPx-1 anti-oxidant selenoenzyme in mononuclear cells following imatinib treatment. Leukemia Research, 2011, 35, 831-833.	0.8	4
68	Loss of Heterozygosity at the Glutathione Peroxidase 1 Locus Is Not an Early Event in Colon Carcinogenesis. Genes and Cancer, 2011, 2, 910-913.	1.9	4
69	Allele-specific interaction between glutathione peroxidase 1 and manganese superoxide dismutase affects the levels of Bcl-2, Sirt3 and E-cadherin. Free Radical Research, 2017, 51, 582-590.	3.3	4
70	Subcellular compartmentalization of glutathione peroxidase 1 allelic isoforms differentially impact parameters of energy metabolism. Journal of Cellular Biochemistry, 2019, 120, 3393-3400.	2.6	3
71	Selenium and GPx-1 overexpression protect mammalian cells against UV-induced DNA damage. Biological Trace Element Research, 2007, 115, 227-241.	3.5	3
72	Sequence and unusual 3â€² flanking region of the rat tRNA[Ser]Sec gene. Gene, 1995, 164, 375-376.	2.2	2

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73	GPx-1 modulates Akt and P70S6K phosphorylation and Gadd45 levels in MCF-7 cells. Free Radical Biology and Medicine, 2004, 37, 187-187.	2.9	2
74	Exposure of chronic myelogenous leukemia cells to imatinib results in the post-transcriptional induction of manganese superoxide dismutase. Leukemia and Lymphoma, 2015, 56, 1096-1099.	1.3	2
75	It takes 2 antioxidants to tango: the interaction between manganese superoxide dismutase and glutathione peroxidase-1. Turkish Journal of Biology, 2014, 38, 748-753.	0.8	2
76	Differential retention of tumor- and differentiation-suppressor functions in cells derived from a human squamous cell carcinoma. Molecular Carcinogenesis, 1992, 5, 278-285.	2.7	1
77	Polymorphisms in Selenoprotein Genes and Cancer. , 2011, , 345-354.		1
78	Impact of MnSOD and GPx1 Genotype at Different Levels of Enteral Nutrition Exposure on Oxidative Stress and Mortality: A Post hoc Analysis From the FeDOx Trial. Journal of Parenteral and Enteral Nutrition, 2021, 45, 287-294.	2.6	1
79	MnSOD/SOD2 upregulation sustains the Warburg effect via mitochondrial ROS and AMPKâ€dependent signaling in cancer. FASEB Journal, 2015, 29, 884.62.	0.5	1
80	The Impact of Selenium Deficiency on a Sickle Cell Disease Mouse Model. Blood, 2018, 132, 3645-3645.	1.4	1
81	Genetic Variations in the Genes for Selenoproteins Implicate the Encoded Proteins in Cancer Etiology. , 2016, , 343-352.		0
82	Selenium and overâ€expression of GPxâ€1 protect cultured cells against DNA damage. FASEB Journal, 2006, 20, A1069.	0.5	0
83	Selenoprotein deficiency increases prostate carcinogenesis in a transgenic mouse model. FASEB Journal, 2006, 20, .	0.5	0
84	A role for selenoproteins in prostate cancer prevention. FASEB Journal, 2007, 21, A106.	0.5	0
85	Disease Associated Variations in Glutathione Peroxidaseâ€1 Affect Its Subcellular Localization and Function. FASEB Journal, 2015, 29, 759.6.	0.5	0