

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4697303/publications.pdf>

Version: 2024-02-01

188  
papers

17,894  
citations

23567

58  
h-index

14759

127  
g-index

210  
all docs

210  
docs citations

210  
times ranked

17276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thioredoxin Reductase Inhibition for Cancer Therapy. Annual Review of Pharmacology and Toxicology, 2022, 62, 177-196.	9.4	64
2	Expressing recombinant selenoproteins using redefinition of a single UAG codon in an RF1-depleted E. coli host strain. Methods in Enzymology, 2022, 662, 95-118.	1.0	4
3	Cyclic 5-membered disulfides are not selective substrates of thioredoxin reductase, but are opened nonspecifically. Nature Communications, 2022, 13, 1754.	12.8	22
4	Biochemical and structural characterizations of thioredoxin reductase selenoproteins of the parasitic filarial nematodes Brugia malayi and Onchocerca volvulus. Redox Biology, 2022, 51, 102278.	9.0	6
5	Selective cellular probes for mammalian thioredoxin reductase TrxR1: Rational design of RX1, a modular 1,2-thiaselenane redox probe. Chem, 2022, 8, 1493-1517.	11.7	20
6	Redox regulation of PTPN22 affects the severity of T-cell-dependent autoimmune inflammation. ELife, 2022, 11, .	6.0	7
7	Thioredoxin and glutathione reductases. , 2022, , 197-218.		1
8	Targeting of Nrf2 improves antitumoral responses by human NK cells, TIL and CAR T cells during oxidative stress. , 2022, 10, e004458.		18
9	Qualitative Differences in Protection of PTP1B Activity by the Reductive Trx1 or TRP14 Enzyme Systems upon Oxidative Challenges with Polysulfides or H2O2 Together with Bicarbonate. Antioxidants, 2021, 10, 111.	5.1	5
10	System-wide identification and prioritization of enzyme substrates by thermal analysis. Nature Communications, 2021, 12, 1296.	12.8	44
11	Comment on "Evidence that the ProPerDP method is inadequate for protein persulfidation detection due to lack of specificity" Science Advances, 2021, 7, .	10.3	3
12	In Memoriam Arne Holmgren (1940–2020). Free Radical Biology and Medicine, 2021, 167, iii-iv.	2.9	0
13	Selective, Modular Probes for Thioredoxins Enabled by Rational Tuning of a Unique Disulfide Structure Motif. Journal of the American Chemical Society, 2021, 143, 8791-8803.	13.7	27
14	Molecular Basis for the Interactions of Human Thioredoxins with Their Respective Reductases. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-17.	4.0	6
15	Production and purification of homogenous recombinant human selenoproteins reveals a unique codon skipping event in E. coli and GPX4-specific affinity to bromosulphophthalein. Redox Biology, 2021, 46, 102070.	9.0	15
16	Development of therapies for rare genetic disorders of GPX4: roadmap and opportunities. Orphanet Journal of Rare Diseases, 2021, 16, 446.	2.7	11
17	Evaluation of dithiothreitol-oxidizing capacity (DOC) as a serum biomarker for chronic hepatitis B in patients exhibiting normal alanine aminotransferase levels: a pilot study towards better monitoring of disease. EClinicalMedicine, 2021, 42, 101180.	7.1	0
18	Comprehensive chemical proteomics analyses reveal that the new TRi-1 and TRi-2 compounds are more specific thioredoxin reductase 1 inhibitors than auranofin. Redox Biology, 2021, 48, 102184.	9.0	18

#	ARTICLE	IF	CITATIONS
19	Inhibition and crosslinking of the selenoprotein thioredoxin reductase-1 by p-benzoquinone. <i>Redox Biology</i> , 2020, 28, 101335.	9.0	17
20	Perspectives of TrxR1-based cancer therapies. , 2020, , 639-667.		14
21	Control of protein function through oxidation and reduction of persulfidated states. <i>Science Advances</i> , 2020, 6, eaax8358.	10.3	121
22	Identification and targeting of selective vulnerability rendered by tamoxifen resistance. <i>Breast Cancer Research</i> , 2020, 22, 80.	5.0	11
23	To inhibit TrxR1 is to inactivate STAT3“Inhibition of TrxR1 enzymatic function by STAT3 small molecule inhibitors. <i>Redox Biology</i> , 2020, 36, 101646.	9.0	18
24	Effects of Mammalian Thioredoxin Reductase Inhibitors. <i>Handbook of Experimental Pharmacology</i> , 2020, 264, 289-309.	1.8	13
25	Characterization of More Selective Central Nervous System Nrf2-Activating Novel Vinyl Sulfoximine Compounds Compared to Dimethyl Fumarate. <i>Neurotherapeutics</i> , 2020, 17, 1142-1152.	4.4	8
26	Comprehensive chemical proteomics for target deconvolution of the redox active drug auranofin. <i>Redox Biology</i> , 2020, 32, 101491.	9.0	58
27	Direct Observation of Methylmercury and Auranofin Binding to Selenocysteine in Thioredoxin Reductase. <i>Inorganic Chemistry</i> , 2020, 59, 2711-2718.	4.0	43
28	Characterization of Lead Compounds Targeting the Selenoprotein Thioredoxin Glutathione Reductase for Treatment of Schistosomiasis. <i>ACS Infectious Diseases</i> , 2020, 6, 393-405.	3.8	24
29	Irreversible TrxR1 inhibitors block STAT3 activity and induce cancer cell death. <i>Science Advances</i> , 2020, 6, eaax7945.	10.3	43
30	Common modifications of selenocysteine in selenoproteins. <i>Essays in Biochemistry</i> , 2020, 64, 45-53.	4.7	19
31	Thioredoxin-related protein of 14 kDa as a modulator of redox signalling pathways. <i>British Journal of Pharmacology</i> , 2019, 176, 544-553.	5.4	35
32	Cytotoxic unsaturated electrophilic compounds commonly target the ubiquitin proteasome system. <i>Scientific Reports</i> , 2019, 9, 9841.	3.3	19
33	Bicarbonate is essential for protein-tyrosine phosphatase 1B (PTP1B) oxidation and cellular signaling through EGF-triggered phosphorylation cascades. <i>Journal of Biological Chemistry</i> , 2019, 294, 12330-12338.	3.4	51
34	ProPerDP: A Protein Persulfide Detection Protocol. <i>Methods in Molecular Biology</i> , 2019, 2007, 51-77.	0.9	10
35	TrxR1, Gsr, and oxidative stress determine hepatocellular carcinoma malignancy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11408-11417.	7.1	54
36	Which Antioxidant System Shapes Intracellular H <sub>2</sub> O <sub>2</sub> Gradients?. <i>Antioxidants and Redox Signaling</i> , 2019, 31, 664-670.	5.4	42

#	ARTICLE	IF	CITATIONS
37	Repurposing of auranofin: Thioredoxin reductase remains a primary target of the drug. <i>Biochimie</i> , 2019, 162, 46-54.	2.6	113
38	Absence of TXNIP in Humans Leads to Lactic Acidosis and Low Serum Methionine Linked to Deficient Respiration on Pyruvate. <i>Diabetes</i> , 2019, 68, 709-723.	0.6	22
39	Irreversible inhibition of cytosolic thioredoxin reductase 1 as a mechanistic basis for anticancer therapy. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	147
40	The A to Z of modulated cell patterning by mammalian thioredoxin reductases. <i>Free Radical Biology and Medicine</i> , 2018, 115, 484-496.	2.9	66
41	Selenium Utilization by GPX4 Is Required to Prevent Hydroperoxide-Induced Ferroptosis. <i>Cell</i> , 2018, 172, 409-422.e21.	28.9	920
42	NADPH-dependent and -independent disulfide reductase systems. <i>Free Radical Biology and Medicine</i> , 2018, 127, 248-261.	2.9	58
43	Overexpression of Recombinant Selenoproteins in <i>E. coli</i> . <i>Methods in Molecular Biology</i> , 2018, 1661, 231-240.	0.9	13
44	Selective Evaluation of Thioredoxin Reductase Enzymatic Activities. <i>Methods in Molecular Biology</i> , 2018, 1661, 301-309.	0.9	10
45	Selenium and selenoproteins in (redox) signaling, diseases, and animal models - 200 year anniversary issue. <i>Free Radical Biology and Medicine</i> , 2018, 127, 1-2.	2.9	27
46	Fragment-Based Discovery of a Regulatory Site in Thioredoxin Glutathione Reductase Acting as a "Doorstop" for NADPH Entry. <i>ACS Chemical Biology</i> , 2018, 13, 2190-2202.	3.4	25
47	Efficient selenocysteine-dependent reduction of toxoflavin by mammalian thioredoxin reductase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2511-2517.	2.4	15
48	Thioredoxin related protein of 14 kDa (TRP14, TXNDC17) represses Nrf2 and NF- $\kappa$ B activities and augments HIF activation. <i>Free Radical Biology and Medicine</i> , 2018, 120, S46-S47.	2.9	1
49	Selenium research in biochemistry and biophysics - 200 <sup>th</sup> year anniversary issue. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2331-2332.	2.4	0
50	Cross Talk in HEK293 Cells Between Nrf2, HIF, and NF- $\kappa$ B Activities upon Challenges with Redox Therapeutics Characterized with Single-Cell Resolution. <i>Antioxidants and Redox Signaling</i> , 2017, 26, 229-246.	5.4	41
51	Cytosolic thioredoxin reductase 1 is required for correct disulfide formation in the <sc>ER</sc>. <i>EMBO Journal</i> , 2017, 36, 693-702.	7.8	65
52	Selenocysteine Insertion at a Predefined UAG Codon in a Release Factor 1 (RF1)-depleted <i>Escherichia coli</i> Host Strain Bypasses Species Barriers in Recombinant Selenoprotein Translation. <i>Journal of Biological Chemistry</i> , 2017, 292, 5476-5487.	3.4	60
53	Homozygous mutation in TXNRD1 is associated with genetic generalized epilepsy. <i>Free Radical Biology and Medicine</i> , 2017, 106, 270-277.	2.9	31
54	Selenium Metabolism in Herbivores and Higher Trophic Levels Including Mammals. <i>Plant Ecophysiology</i> , 2017, , 123-139.	1.5	3

#	ARTICLE	IF	CITATIONS
55	Rutin protects against H <sub>2</sub> O <sub>2</sub> -triggered impaired relaxation of placental arterioles and induces Nrf2-mediated adaptation in Human Umbilical Vein Endothelial Cells exposed to oxidative stress. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1177-1189.	2.4	38
56	Time- and cell-resolved dynamics of redox-sensitive Nrf2, HIF and NF- $\kappa$ B activities in 3D spheroids enriched for cancer stem cells. <i>Redox Biology</i> , 2017, 12, 403-409.	9.0	31
57	Molecular Mechanisms of Regulated Cell Patterning by the Mammalian Thioredoxin System. <i>Free Radical Biology and Medicine</i> , 2017, 108, S9.	2.9	0
58	Thioredoxin reductase 1 and NADPH directly protect protein tyrosine phosphatase 1B from inactivation during H <sub>2</sub> O <sub>2</sub> exposure. <i>Journal of Biological Chemistry</i> , 2017, 292, 14371-14380.	3.4	36
59	Hepatocyte Hyperproliferation upon Liver-Specific Co-disruption of Thioredoxin-1, Thioredoxin Reductase-1, and Glutathione Reductase. <i>Cell Reports</i> , 2017, 19, 2771-2781.	6.4	57
60	Targeting the Selenoprotein Thioredoxin Reductase 1 for Anticancer Therapy. <i>Advances in Cancer Research</i> , 2017, 136, 139-151.	5.0	57
61	Thioredoxin System. , 2017, , 4508-4511.		0
62	H <sub>2</sub> O <sub>2</sub> , Thioredoxin, and Signaling. , 2017, , 387-402.		0
63	Chemical Reactivity Window Determines Prodrug Efficiency toward Glutathione Transferase Overexpressing Cancer Cells. <i>Molecular Pharmaceutics</i> , 2016, 13, 2010-2025.	4.6	37
64	Serum thioredoxin reductase is highly increased in mice with hepatocellular carcinoma and its activity is restrained by several mechanisms. <i>Free Radical Biology and Medicine</i> , 2016, 99, 426-435.	2.9	17
65	Preclinical PET imaging of EGFR levels: pairing a targeting with a non-targeting Sel-tagged Affibody-based tracer to estimate the specific uptake. <i>EJNMMI Research</i> , 2016, 6, 58.	2.5	13
66	Thioredoxin reductase 1 suppresses adipocyte differentiation and insulin responsiveness. <i>Scientific Reports</i> , 2016, 6, 28080.	3.3	42
67	Thioredoxin Reductase 1 as an Anticancer Drug Target. , 2016, , 199-209.		4
68	Inhibitory nitrosylation of mammalian thioredoxin reductase 1: Molecular characterization and evidence for its functional role in cellular nitroso-redox imbalance. <i>Free Radical Biology and Medicine</i> , 2016, 97, 375-385.	2.9	30
69	Selenoprotein Gene Nomenclature. <i>Journal of Biological Chemistry</i> , 2016, 291, 24036-24040.	3.4	207
70	Entinostat up-regulates the CAMP gene encoding LL-37 via activation of STAT3 and HIF-1 $\alpha$ transcription factors. <i>Scientific Reports</i> , 2016, 6, 33274.	3.3	38
71	A novel persulfide detection method reveals protein persulfide- and polysulfide-reducing functions of thioredoxin and glutathione systems. <i>Science Advances</i> , 2016, 2, e1500968.	10.3	250
72	Details in the catalytic mechanism of mammalian thioredoxin reductase 1 revealed using point mutations and juglone-coupled enzyme activities. <i>Free Radical Biology and Medicine</i> , 2016, 94, 110-120.	2.9	42

#	ARTICLE	IF	CITATIONS
73	Paradoxical Roles of Antioxidant Enzymes: Basic Mechanisms and Health Implications. <i>Physiological Reviews</i> , 2016, 96, 307-364.	28.8	283
74	Indolin-2-one compounds targeting thioredoxin reductase as potential anticancer drug leads. <i>Oncotarget</i> , 2016, 7, 40233-40251.	1.8	23
75	Redox effects and cytotoxic profiles of MJ25 and auranofin towards malignant melanoma cells. <i>Oncotarget</i> , 2015, 6, 16488-16506.	1.8	30
76	Dietary methionine can sustain cytosolic redox homeostasis in the mouse liver. <i>Nature Communications</i> , 2015, 6, 6479.	12.8	82
77	TrxR1 as a Potent Regulator of the Nrf2-Keap1 Response System. <i>Antioxidants and Redox Signaling</i> , 2015, 23, 823-853.	5.4	188
78	The conserved Trp114 residue of thioredoxin reductase 1 has a redox sensor-like function triggering oligomerization and crosslinking upon oxidative stress related to cell death. <i>Cell Death and Disease</i> , 2015, 6, e1616-e1616.	6.3	36
79	Redox active motifs in selenoproteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6976-6981.	7.1	54
80	Thioredoxin-related protein of 14 kDa is an efficient L-cystine reductase and S-denitrosylase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6964-6969.	7.1	125
81	Sec-containing TrxR1 is essential for self-sufficiency of cells by control of glucose-derived H <sub>2</sub> O <sub>2</sub> . <i>Cell Death and Disease</i> , 2014, 5, e1235-e1235.	6.3	25
82	Serum thioredoxin reductase levels increase in response to chemically induced acute liver injury. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2105-2111.	2.4	26
83	Cisplatin and oxaliplatin are toxic to cochlear outer hair cells and both target thioredoxin reductase in organ of Corti cultures. <i>Acta Oto-Laryngologica</i> , 2014, 134, 448-454.	0.9	31
84	ROS-dependent activation of JNK converts p53 into an efficient inhibitor of oncogenes leading to robust apoptosis. <i>Cell Death and Differentiation</i> , 2014, 21, 612-623.	11.2	193
85	The 19S Deubiquitinase Inhibitor b-AP15 Is Enriched in Cells and Elicits Rapid Commitment to Cell Death. <i>Molecular Pharmacology</i> , 2014, 85, 932-945.	2.3	55
86	Sepp1UF forms are N-terminal selenoprotein P truncations that have peroxidase activity when coupled with thioredoxin reductase-1. <i>Free Radical Biology and Medicine</i> , 2014, 69, 67-76.	2.9	37
87	Thioredoxin System. , 2014, , 1-4.		0
88	A Txnrd1-dependent metabolic switch alters hepatic lipogenesis, glycogen storage, and detoxification. <i>Free Radical Biology and Medicine</i> , 2013, 63, 369-380.	2.9	66
89	Redox activation of Fe(III)-thiosemicarbazones and Fe(III)-bleomycin by thioredoxin reductase: specificity of enzymatic redox centers and analysis of reactive species formation by ESR spin trapping. <i>Free Radical Biology and Medicine</i> , 2013, 60, 183-194.	2.9	20
90	Site-specifically <sup>11</sup> C-labeled Sel-tagged annexin A5 and a size-matched control for dynamic in vivo PET imaging of protein distribution in tissues prior to and after induced cell death. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 2562-2573.	2.4	8

#	ARTICLE	IF	CITATIONS
91	Simvastatin inhibits the core promoter of the TXNRD1 gene and lowers cellular TrxR activity in HepG2 cells. <i>Biochemical and Biophysical Research Communications</i> , 2013, 430, 90-94.	2.1	7
92	APR-246/PRIMA-1MET inhibits thioredoxin reductase 1 and converts the enzyme to a dedicated NADPH oxidase. <i>Cell Death and Disease</i> , 2013, 4, e881-e881.	6.3	142
93	Multilevel Regulation of 2-Cys Peroxiredoxin Reaction Cycle by S-Nitrosylation. <i>Journal of Biological Chemistry</i> , 2013, 288, 11312-11324.	3.4	57
94	The Rare TXNRD1_v3 (αv3) Splice Variant of Human Thioredoxin Reductase 1 Protein Is Targeted to Membrane Rafts by N-Acylation and Induces Filopodia Independently of Its Redox Active Site Integrity. <i>Journal of Biological Chemistry</i> , 2013, 288, 10002-10011.	3.4	21
95	Wobble decoding by the Escherichia coli selenocysteine insertion machinery. <i>Nucleic Acids Research</i> , 2013, 41, 9800-9811.	14.5	20
96	Selective activation of oxidized PTP1B by the thioredoxin system modulates PDGF- $\beta$ receptor tyrosine kinase signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13398-13403.	7.1	89
97	Thiophosphate and selenite conversely modulate cell death induced by glutathione depletion or cisplatin: effects related to activity and Sec contents of thioredoxin reductase. <i>Biochemical Journal</i> , 2012, 447, 167-174.	3.7	18
98	HER2-Positive Tumors Imaged Within 1 Hour Using a Site-Specifically <sup>111</sup> C-Labeled Sel-Tagged Affibody Molecule. <i>Journal of Nuclear Medicine</i> , 2012, 53, 1446-1453.	5.0	29
99	Thioredoxin Reductase Inhibition Elicits Nrf2-Mediated Responses in Clara Cells: Implications for Oxidant-Induced Lung Injury. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 1407-1416.	5.4	53
100	Biochemical Discrimination between Selenium and Sulfur 2: Mechanistic Investigation of the Selenium Specificity of Human Selenocysteine Lyase. <i>PLoS ONE</i> , 2012, 7, e30528.	2.5	10
101	Biochemical Discrimination between Selenium and Sulfur 1: A Single Residue Provides Selenium Specificity to Human Selenocysteine Lyase. <i>PLoS ONE</i> , 2012, 7, e30581.	2.5	28
102	Combining [ <sup>11</sup> C]-Anx A5 PET Imaging with Serum Biomarkers for Improved Detection in Live Mice of Modest Cell Death in Human Solid Tumor Xenografts. <i>PLoS ONE</i> , 2012, 7, e42151.	2.5	11
103	Hepatocyte DNA replication in growing liver requires either glutathione or a single allele of txnrd1. <i>Free Radical Biology and Medicine</i> , 2012, 52, 803-810.	2.9	59
104	Pyrrroloquinoline quinone modulates the kinetic parameters of the mammalian selenoprotein thioredoxin reductase 1 and is an inhibitor of glutathione reductase. <i>Biochemical Pharmacology</i> , 2012, 83, 815-820.	4.4	33
105	Human Protein Atlas of redox systems – What can be learnt?. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2011, 1810, 111-138.	2.4	43
106	Substrate and inhibitor specificities differ between human cytosolic and mitochondrial thioredoxin reductases: Implications for development of specific inhibitors. <i>Free Radical Biology and Medicine</i> , 2011, 50, 689-699.	2.9	93
107	Inhibition of thioredoxin reductase 1 by porphyrins and other small molecules identified by a high-throughput screening assay. <i>Free Radical Biology and Medicine</i> , 2011, 50, 1114-1123.	2.9	34
108	History of Selenium Research. , 2011, , 1-19.		0

#	ARTICLE	IF	CITATIONS
109	Effects of selenite and chelating agents on mammalian thioredoxin reductase inhibited by mercury: implications for treatment of mercury poisoning. <i>FASEB Journal</i> , 2011, 25, 370-381.	0.5	104
110	Redox Pioneer: Professor Arne Holmgren. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 845-851.	5.4	2
111	Selenoprotein TRXR-1 and GSR-1 are essential for removal of old cuticle during molting in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1064-1069.	7.1	69
112	Thioredoxin System. , 2011, , 3670-3671.		2
113	Noble metal targeting of thioredoxin reductase covalent complexes with thioredoxin and thioredoxin-related protein of 14 kDa triggered by cisplatin. <i>Free Radical Biology and Medicine</i> , 2010, 49, 1765-1778.	2.9	89
114	The Interactions of Thioredoxin Reductase with Quinones and Acrolein: Covalent Adducts and Stimulation of NADPH Oxidase Activity. <i>Free Radical Biology and Medicine</i> , 2010, 49, S98-S99.	2.9	2
115	Selenoproteins: What unique properties can arise with selenocysteine in place of cysteine?. <i>Experimental Cell Research</i> , 2010, 316, 1296-1303.	2.6	258
116	The Selenium-independent Inherent Pro-oxidant NADPH Oxidase Activity of Mammalian Thioredoxin Reductase and Its Selenium-dependent Direct Peroxidase Activities. <i>Journal of Biological Chemistry</i> , 2010, 285, 21708-21723.	3.4	57
117	p53-dependent inhibition of TrxR1 contributes to the tumor-specific induction of apoptosis by RITA. <i>Cell Cycle</i> , 2009, 8, 3584-3591.	2.6	81
118	Cisplatin and Oxaliplatin Toxicity: Importance of Cochlear Kinetics as a Determinant for Ototoxicity. <i>Journal of the National Cancer Institute</i> , 2009, 101, 37-47.	6.3	93
119	Crystal Structure and Catalysis of the Selenoprotein Thioredoxin Reductase 1. <i>Journal of Biological Chemistry</i> , 2009, 284, 3998-4008.	3.4	168
120	Red wine triggers cell death and thioredoxin reductase inhibition: Effects beyond resveratrol and SIRT1. <i>Experimental Cell Research</i> , 2009, 315, 1360-1371.	2.6	22
121	The human thioredoxin reductase-1 splice variant TXNRD1_v3 is an atypical inducer of cytoplasmic filaments and cell membrane filopodia. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 1588-1596.	4.1	23
122	Highly active dimeric and low-activity tetrameric forms of selenium-containing rat thioredoxin reductase 1. <i>Free Radical Biology and Medicine</i> , 2009, 46, 893-904.	2.9	30
123	High levels of thioredoxin reductase 1 modulate drug-specific cytotoxic efficacy. <i>Free Radical Biology and Medicine</i> , 2009, 47, 1661-1671.	2.9	114
124	Prolonged antigen exposure with carbohydrate particle based vaccination prevents allergic immune responses in sensitized mice. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2009, 64, 919-926.	5.7	38
125	Focus on mammalian thioredoxin reductases: Important selenoproteins with versatile functions. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009, 1790, 495-526.	2.4	546
126	Special issue on selenoprotein expression and function. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009, 1790, 1387-1388.	2.4	2



#	ARTICLE	IF	CITATIONS
127	Structure Mechanism Insights and the Role of Nitric Oxide Donation Guide the Development of Oxadiazole-2-Oxides as Therapeutic Agents against Schistosomiasis. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 6474-6483.	6.4	74
128	Mitochondrial peroxiredoxin 3 is rapidly oxidized in cells treated with isothiocyanates. <i>Free Radical Biology and Medicine</i> , 2008, 45, 494-502.	2.9	59
129	The thioredoxin reductase inhibitor auranofin triggers apoptosis through a Bax/Bak-dependent process that involves peroxiredoxin 3 oxidation. <i>Biochemical Pharmacology</i> , 2008, 76, 1097-1109.	4.4	141
130	Cell Death by SecTRAPs: Thioredoxin Reductase as a Prooxidant Killer of Cells. <i>PLoS ONE</i> , 2008, 3, e1846.	2.5	139
131	Induction of Cell Membrane Protrusions by the N-terminal Glutaredoxin Domain of a Rare Splice Variant of Human Thioredoxin Reductase 1. <i>Journal of Biological Chemistry</i> , 2008, 283, 2814-2821.	3.4	38
132	Thioredoxin System. , 2008, , 2954-2956.		0
133	Thioredoxin Glutathione Reductase from <i>Schistosoma mansoni</i> : An Essential Parasite Enzyme and a Key Drug Target. <i>PLoS Medicine</i> , 2007, 4, e206.	8.4	285
134	Titration and Conditional Knockdown of the prfB Gene in <i>Escherichia coli</i> : Effects on Growth and Overproduction of the Recombinant Mammalian Selenoprotein Thioredoxin Reductase. <i>Applied and Environmental Microbiology</i> , 2007, 73, 432-441.	3.1	16
135	Differential regulation of expression of cytosolic and mitochondrial thioredoxin reductase in rat liver and kidney. <i>Archives of Biochemistry and Biophysics</i> , 2007, 459, 178-188.	3.0	29
136	Tagging recombinant proteins with a Sel-tag for purification, labeling with electrophilic compounds or radiolabeling with <sup>11</sup> C. <i>Nature Protocols</i> , 2006, 1, 604-613.	12.0	35
137	Studies of an active site mutant of the selenoprotein thioredoxin reductase: The Ser-Cys-Cys-Ser motif of the insect orthologue is not sufficient to replace the Cys-Sec dyad in the mammalian enzyme. <i>Free Radical Biology and Medicine</i> , 2006, 41, 649-656.	2.9	22
138	The thioredoxin system in cancer – introduction to a thematic volume of Seminars in Cancer Biology. <i>Seminars in Cancer Biology</i> , 2006, 16, 419.	9.6	20
139	The thioredoxin system in cancer. <i>Seminars in Cancer Biology</i> , 2006, 16, 420-426.	9.6	471
140	Selenolthiol and Dithiol C-Terminal Tetrapeptide Motifs for One-Step Purification and Labeling of Recombinant Proteins Produced in <i>E. coli</i> . <i>ChemBioChem</i> , 2006, 7, 1976-1981.	2.6	18
141	Interactions of Nitroaromatic Compounds with the Mammalian Selenoprotein Thioredoxin Reductase and the Relation to Induction of Apoptosis in Human Cancer Cells. <i>Journal of Biological Chemistry</i> , 2006, 281, 5593-5603.	3.4	102
142	Biotechnology of selenocysteine. , 2006, , 221-230.		0
143	A mouse model for in vivo tracking of the major dust mite allergen Der p 2 after inhalation. <i>FEBS Journal</i> , 2005, 272, 3449-3460.	4.7	13
144	Inhibition of thioredoxin reductase but not of glutathione reductase by the major classes of alkylating and platinum-containing anticancer compounds. <i>Free Radical Biology and Medicine</i> , 2005, 39, 696-703.	2.9	193

#	ARTICLE	IF	CITATIONS
145	Selenocysteine in proteinsâ€”properties and biotechnological use. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1726, 1-13.	2.4	275
146	Measurement of Thioredoxin and Thioredoxin Reductase. <i>Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al ]</i> , 2005, 24, Unit 7.4..	1.1	77
147	Regulation of the Mammalian Selenoprotein Thioredoxin Reductase 1 in Relation to Cellular Phenotype, Growth, and Signaling Events. <i>Antioxidants and Redox Signaling</i> , 2004, 6, 41-52.	5.4	173
148	Overexpression of Enzymatically Active Human Cytosolic and Mitochondrial Thioredoxin Reductase in HEK-293 Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 54510-54517.	3.4	56
149	Exploiting the 21st amino acidâ€”purifying and labeling proteins by selenolate targeting. <i>Nature Methods</i> , 2004, 1, 61-66.	19.0	85
150	Thioredoxin reductase 1 is upregulated in atherosclerotic plaques: specific induction of the promoter in human macrophages by oxidized low-density lipoproteins. <i>Free Radical Biology and Medicine</i> , 2004, 37, 71-85.	2.9	46
151	Assessment of Production Conditions for Efficient Use of Escherichia coli in High-Yield Heterologous Recombinant Selenoprotein Synthesis. <i>Applied and Environmental Microbiology</i> , 2004, 70, 5159-5167.	3.1	78
152	Expression of selenocysteine-containing glutathione S-transferase in Escherichia coli. <i>Biochemical and Biophysical Research Communications</i> , 2004, 321, 94-101.	2.1	32
153	Interactions of Quinones with Thioredoxin Reductase. <i>Journal of Biological Chemistry</i> , 2004, 279, 2583-2592.	3.4	125
154	Evidence for intriguingly complex transcription of human thioredoxin reductase 1. <i>Free Radical Biology and Medicine</i> , 2004, 36, 641-656.	2.9	83
155	Regeneration of the antioxidant ubiquinol by lipoamide dehydrogenase, thioredoxin reductase and glutathione reductase. <i>BioFactors</i> , 2003, 18, 45-50.	5.4	51
156	The Mammalian Cytosolic Selenoenzyme Thioredoxin Reductase Reduces Ubiquinone. <i>Journal of Biological Chemistry</i> , 2003, 278, 2141-2146.	3.4	167
157	Active sites of thioredoxin reductases: Why selenoproteins?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12618-12623.	7.1	193
158	Rapid Induction of Cell Death by Selenium-compromised Thioredoxin Reductase 1 but Not by the Fully Active Enzyme Containing Selenocysteine. <i>Journal of Biological Chemistry</i> , 2003, 278, 15966-15972.	3.4	153
159	Selenocysteine Insertion and Reactivity: Mammalian Thioredoxin Reductases in Relation to Cellular Redox Signaling. , 2003, , 27-45.		1
160	Recombinant Expression of Mammalian Selenocysteine-Containing Thioredoxin Reductase and Other Selenoproteins in Escherichia coli. <i>Methods in Enzymology</i> , 2002, 347, 226-235.	1.0	42
161	Analysis of the inhibition of mammalian thioredoxin, thioredoxin reductase, and glutaredoxin by cis-diamminedichloroplatinum (II) and its major metabolite, the glutathione-platinum complex. <i>Free Radical Biology and Medicine</i> , 2001, 31, 1170-1178.	2.9	150
162	Reactive oxygen species, antioxidants, and the mammalian thioredoxin system1 1This review is based on the licentiate thesis â€œThioredoxin reductaseâ€”interactions with the redox active compounds 1-chloro-2,4-dinitrobenzene and lipoic acidâ€”by Jonas Nordberg, 2001, Karolinska Institute, Stockholm, ISBN 91-631-1064-4.. <i>Free Radical Biology and Medicine</i> , 2001, 31, 1287-1312.	2.9	2,223

#	ARTICLE	IF	CITATIONS
163	The Core Promoter of Human Thioredoxin Reductase 1. <i>Journal of Biological Chemistry</i> , 2001, 276, 30542-30551.	3.4	79
164	Prominent expression of the selenoprotein thioredoxin reductase in the medullary rays of the rat kidney and thioredoxin reductase mRNA variants differing at the 5' untranslated region. <i>Biochemical Journal</i> , 2000, 347, 661.	3.7	19
165	Prominent expression of the selenoprotein thioredoxin reductase in the medullary rays of the rat kidney and thioredoxin reductase mRNA variants differing at the 5' untranslated region. <i>Biochemical Journal</i> , 2000, 347, 661-668.	3.7	30
166	Physiological functions of thioredoxin and thioredoxin reductase. <i>FEBS Journal</i> , 2000, 267, 6102-6109.	0.2	2,091
167	Structure and mechanism of mammalian thioredoxin reductase: The active site is a redox-active selenolthiol/selenenylsulfide formed from the conserved cysteine-selenocysteine sequence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 5854-5859.	7.1	442
168	Truncated Thioredoxin Is a Mitogenic Cytokine for Resting Human Peripheral Blood Mononuclear Cells and Is Present in Human Plasma. <i>Journal of Biological Chemistry</i> , 2000, 275, 37474-37480.	3.4	95
169	Superoxide production by dinitrophenyl-derivatized thioredoxin reductase - a model for the mechanism and correlation to immunostimulation by dinitrohalobenzenes. <i>BioFactors</i> , 1999, 10, 219-226.	5.4	28
170	Preparation and assay of mammalian thioredoxin and thioredoxin reductase. <i>Methods in Enzymology</i> , 1999, 300, 226-239.	1.0	283
171	High-level expression in <i>Escherichia coli</i> of selenocysteine-containing rat thioredoxin reductase utilizing gene fusions with engineered bacterial-type SECIS elements and co-expression with the selA, selB and selC genes 1 Edited by M. Gottesman. <i>Journal of Molecular Biology</i> , 1999, 292, 1003-1016.	4.2	226
172	Mammalian Thioredoxin Reductase Is Irreversibly Inhibited by Dinitrohalobenzenes by Alkylation of Both the Redox Active Selenocysteine and Its Neighboring Cysteine Residue. <i>Journal of Biological Chemistry</i> , 1998, 273, 10835-10842.	3.4	185
173	Rat and Calf Thioredoxin Reductase Are Homologous to Glutathione Reductase with a Carboxyl-terminal Elongation Containing a Conserved Catalytically Active Penultimate Selenocysteine Residue. <i>Journal of Biological Chemistry</i> , 1998, 273, 8581-8591.	3.4	236
174	Efficient Reduction of Lipoamide and Lipoic Acid by Mammalian Thioredoxin Reductase. <i>Biochemical and Biophysical Research Communications</i> , 1996, 225, 268-274.	2.1	178
175	On the Phosphorylation of 2-chlorodeoxy-adenosine (CdA) and Its Correlation with Clinical Response in Leukemia Treatment. <i>Leukemia and Lymphoma</i> , 1996, 21, 225-231.	1.3	29
176	1-Chloro-2,4-dinitrobenzene Is an Irreversible Inhibitor of Human Thioredoxin Reductase. <i>Journal of Biological Chemistry</i> , 1995, 270, 3479-3482.	3.4	172
177	Mammalian deoxyribonucleoside kinases. , 1995, 67, 155-186.		508
178	Expression of deoxycytidine kinase and phosphorylation of 2-chlorodeoxyadenosine in human normal and tumour cells and tissues. <i>European Journal of Cancer</i> , 1995, 31, 202-208.	2.8	91
179	Mitochondrial Versus Cytosolic Activities of Deoxyribonucleoside Salvage Enzymes. <i>Advances in Experimental Medicine and Biology</i> , 1995, 370, 201-204.	1.6	17
180	Phosphorylation of 2-chlorodeoxyadenosine (CdA) in extracts of peripheral blood mononuclear cells of leukaemic patients. <i>British Journal of Haematology</i> , 1994, 87, 715-718.	2.5	24

#	ARTICLE	IF	CITATIONS
181	Properties and levels of deoxynucleoside kinases in normal and tumor cells; implications for chemotherapy. <i>Advances in Enzyme Regulation</i> , 1994, 34, 13-25.	2.6	67
182	Catabolism of Deoxycytidine in Human Peripheral Blood Mononuclear Cells and Its Interference with the Determination of in Situ Thymidylate Synthase Activity. <i>Analytical Biochemistry</i> , 1993, 210, 102-105.	2.4	2
183	Deoxycytidine and 2,3-Dideoxycytidine Metabolism in Human Monocyte-Derived Macrophages: A Study of Both Anabolic and Catabolic Pathways. <i>Biochemical and Biophysical Research Communications</i> , 1993, 197, 1499-1504.	2.1	12
184	Selective assays for thymidine kinase 1 and 2 and deoxycytidine kinase and their activities in extracts from human cells and tissues. <i>Biochemical and Biophysical Research Communications</i> , 1992, 188, 712-718.	2.1	136
185	Expression and Substrate Specificities of Human Thymidine Kinase 1, Thymidine Kinase 2 and Deoxycytidine Kinase. <i>Advances in Experimental Medicine and Biology</i> , 1991, 309B, 239-243.	1.6	16
186	Deoxycytidine kinase is constitutively expressed in human lymphocytes: Consequences for compartmentation effects, unscheduled dna synthesis, and viral replication in resting cells. <i>Experimental Cell Research</i> , 1988, 178, 335-342.	2.6	58
187	Maximal flux responses after multiple challenges with vasopressin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1984, 774, 26-34.	2.6	4
188	Thioredoxin reductase 1. <i>The AFCS-nature Molecule Pages</i> , 0, , .	0.2	1