

Antonio Miranda-Vizuet

List of Publications by Year in descending order

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96
papers

9,554
citations

81900

39
h-index

38395

95
g-index

101
all docs

101
docs citations

101
times ranked

18647
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Cloning and Expression of a Novel Mammalian Thioredoxin. <i>Journal of Biological Chemistry</i> , 1997, 272, 2936-2941.	3.4	335
3	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). <i>Redox Biology</i> , 2017, 13, 94-162.	9.0	242
4	Identification and Functional Characterization of a Novel Mitochondrial Thioredoxin System in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 1999, 274, 6366-6373.	3.4	187
5	Two additional glutaredoxins exist in <i>Escherichia coli</i> : glutaredoxin 3 is a hydrogen donor for ribonucleotide reductase in a thioredoxin/glutaredoxin 1 double mutant.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 9813-9817.	7.1	181
6	ERdj5, an Endoplasmic Reticulum (ER)-resident Protein Containing DnaJ and Thioredoxin Domains, Is Expressed in Secretory Cells or following ER Stress. <i>Journal of Biological Chemistry</i> , 2003, 278, 1059-1066.	3.4	175
7	Mitochondria of <i>Saccharomyces cerevisiae</i> Contain One-conserved Cysteine Type Peroxiredoxin with Thioredoxin Peroxidase Activity. <i>Journal of Biological Chemistry</i> , 2000, 275, 16296-16301.	3.4	171
8	Human Mitochondrial Thioredoxin. <i>Journal of Biological Chemistry</i> , 2002, 277, 33249-33257.	3.4	169
9	Involvement of glutaredoxin-1 and thioredoxin-1 in β -amyloid toxicity and Alzheimer's disease. <i>Cell Death and Differentiation</i> , 2006, 13, 1454-1465.	11.2	159
10	Human mitochondrial thioredoxin reductase. cDNA cloning, expression and genomic organization. <i>FEBS Journal</i> , 1999, 261, 405-412.	0.2	156
11	The Mitochondrial Thioredoxin System. <i>Antioxidants and Redox Signaling</i> , 2000, 2, 801-810.	5.4	134
12	Cloning, Expression, and Characterization of a Novel <i>Escherichia coli</i> Thioredoxin. <i>Journal of Biological Chemistry</i> , 1997, 272, 30841-30847.	3.4	130
13	Characterization of Sptrx, a Novel Member of the Thioredoxin Family Specifically Expressed in Human Spermatozoa. <i>Journal of Biological Chemistry</i> , 2001, 276, 31567-31574.	3.4	130
14	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
15	Diversity of chemical mechanisms in thioredoxin catalysis revealed by single-molecule force spectroscopy. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 890-896.	8.2	91
16	Tyrosol, a main phenol present in extra virgin olive oil, increases lifespan and stress resistance in <i>Caenorhabditis elegans</i> . <i>Mechanisms of Ageing and Development</i> , 2012, 133, 563-574.	4.6	89
17	Biallelic Variants in UBA5 Reveal that Disruption of the UFM1 Cascade Can Result in Early-Onset Encephalopathy. <i>American Journal of Human Genetics</i> , 2016, 99, 695-703.	6.2	87
18	Evidence for intriguingly complex transcription of human thioredoxin reductase 1. <i>Free Radical Biology and Medicine</i> , 2004, 36, 641-656.	2.9	83

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19	The Mammalian Testis-Specific Thioredoxin System. <i>Antioxidants and Redox Signaling</i> , 2004, 6, 25-40.	5.4	81
20	Characterization of Human Thioredoxin-like 2. <i>Journal of Biological Chemistry</i> , 2003, 278, 13133-13142.	3.4	80
21	<i>Caenorhabditis elegans</i> as a model for understanding ROS function in physiology and disease. <i>Redox Biology</i> , 2017, 11, 708-714.	9.0	80
22	Lifespan decrease in a <i>Caenorhabditis elegans</i> mutant lacking TRX-1, a thioredoxin expressed in ASJ sensory neurons. <i>FEBS Letters</i> , 2006, 580, 484-490.	2.8	78
23	Sptrx-2, a fusion protein composed of one thioredoxin and three tandemly repeated NDP-kinase domains is expressed in human testis germ cells. <i>Genes To Cells</i> , 2001, 6, 1077-1090.	1.2	77
24	Selenium induces cholinergic motor neuron degeneration in <i>Caenorhabditis elegans</i> . <i>NeuroToxicology</i> , 2012, 33, 1021-1032.	3.0	70
25	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
26	Spermatocyte/Spermatid-specific Thioredoxin-3, a Novel Golgi Apparatus-associated Thioredoxin, Is a Specific Marker of Aberrant Spermatogenesis. <i>Journal of Biological Chemistry</i> , 2004, 279, 34971-34982.	3.4	63
27	Two isoforms of <i>Saccharomyces cerevisiae</i> glutaredoxin 2 are expressed in vivo and localize to different subcellular compartments. <i>Biochemical Journal</i> , 2002, 364, 617-623.	3.7	61
28	The Levels of Ribonucleotide Reductase, Thioredoxin, Glutaredoxin 1, and GSH Are Balanced in <i>Escherichia coli</i> K12. <i>Journal of Biological Chemistry</i> , 1996, 271, 19099-19103.	3.4	60
29	Protective Role of DNJ-27/ERdj5 in <i>Caenorhabditis elegans</i> Models of Human Neurodegenerative Diseases. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 217-235.	5.4	57
30	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
31	The Glutaredoxin GLRX-21 Functions to Prevent Selenium-Induced Oxidative Stress in <i>Caenorhabditis elegans</i> . <i>Toxicological Sciences</i> , 2010, 118, 530-543.	3.1	52
32	An Alternative Splicing Variant of the Selenoprotein Thioredoxin Reductase Is a Modulator of Estrogen Signaling. <i>Journal of Biological Chemistry</i> , 2004, 279, 38721-38729.	3.4	51
33	Molecular Cloning and Expression of a cDNA Encoding a Human Thioredoxin-like Protein. <i>Biochemical and Biophysical Research Communications</i> , 1998, 243, 284-288.	2.1	49
34	Negative biomarker based male fertility evaluation: Sperm phenotypes associated with molecular-level anomalies. <i>Asian Journal of Andrology</i> , 2015, 17, 554.	1.6	49
35	The Characterization of the <i>Caenorhabditis elegans</i> Mitochondrial Thioredoxin System Uncovers an Unexpected Protective Role of Thioredoxin Reductase 2 in $\text{A}\beta$ -Amyloid Peptide Toxicity. <i>Antioxidants and Redox Signaling</i> , 2012, 16, 1384-1400.	5.4	46
36	Cloning and Developmental Analysis of Murid Spermatid-specific Thioredoxin-2 (SPTRX-2), a Novel Sperm Fibrous Sheath Protein and Autoantigen. <i>Journal of Biological Chemistry</i> , 2003, 278, 44874-44885.	3.4	44

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37	Characterization of human thioredoxin-like-1: Potential involvement in the cellular response against glucose deprivation. <i>FEBS Letters</i> , 2006, 580, 960-967.	2.8	44
38	Epicatechin modulates stress-resistance in <i>C. elegans</i> via insulin/IGF-1 signaling pathway. <i>PLoS ONE</i> , 2019, 14, e0199483.	2.5	44
39	Peroxiredoxin 2 and Peroxidase Enzymatic Activity of Mammalian Spermatozoa1. <i>Biology of Reproduction</i> , 2009, 80, 1168-1177.	2.7	41
40	Protective effects of the thioredoxin and glutaredoxin systems in dopamine-induced cell death. <i>Free Radical Biology and Medicine</i> , 2014, 73, 328-336.	2.9	41
41	The Small GTPase RAC1/CED-10 Is Essential in Maintaining Dopaminergic Neuron Function and Survival Against I \pm -Synuclein-Induced Toxicity. <i>Molecular Neurobiology</i> , 2018, 55, 7533-7552.	4.0	40
42	Insights into the differential toxicological and antioxidant effects of 4-phenylchalcogenil-7-chloroquinolines in <i>Caenorhabditis elegans</i> . <i>Free Radical Biology and Medicine</i> , 2017, 110, 133-141.	2.9	39
43	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
44	cDNA cloning, expression and chromosomal localization of the mouse mitochondrial thioredoxin reductase gene. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1999, 1447, 113-118.	2.4	36
45	The thioredoxin TRX-1 regulates adult lifespan extension induced by dietary restriction in <i>Caenorhabditis elegans</i> . <i>Biochemical and Biophysical Research Communications</i> , 2011, 406, 478-482.	2.1	36
46	Glutathione Is the Resolving Thiol for Thioredoxin Peroxidase Activity of 1-Cys Peroxiredoxin Without Being Consumed During the Catalytic Cycle. <i>Antioxidants and Redox Signaling</i> , 2016, 24, 115-128.	5.4	36
47	Developmental Expression of Spermatid-Specific Thioredoxin-1 Protein: Transient Association to the Longitudinal Columns of the Fibrous Sheath During Sperm Tail Formation1. <i>Biology of Reproduction</i> , 2002, 67, 1546-1554.	2.7	34
48	Intracellular Trafficking and Persistence of <i>Acinetobacter baumannii</i> Requires Transcription Factor EB. <i>MSphere</i> , 2018, 3, .	2.9	33
49	Sex-Specific Differences in Redox Homeostasis in Brain Norm and Disease. <i>Journal of Molecular Neuroscience</i> , 2019, 67, 312-342.	2.3	32
50	Loss of glutathione redox homeostasis impairs proteostasis by inhibiting autophagy-dependent protein degradation. <i>Cell Death and Differentiation</i> , 2019, 26, 1545-1565.	11.2	30
51	High Throughput, Parallel Imaging and Biomarker Quantification of Human Spermatozoa by ImageStream Flow Cytometry. <i>Systems Biology in Reproductive Medicine</i> , 2009, 55, 244-251.	2.1	29
52	Cleavage of Disulfide Bonds in Mouse Spermatogenic Cell-Specific Type 1 Hexokinase Isozyme Is Associated with Increased Hexokinase Activity and Initiation of Sperm Motility1. <i>Biology of Reproduction</i> , 2008, 79, 537-545.	2.7	28
53	Thioredoxin-Like Protein 2 Is Overexpressed in Colon Cancer and Promotes Cancer Cell Metastasis by Interaction with Ran. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 899-911.	5.4	24
54	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

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55	Cloning, expression and characterization of mouse spermatid specific thioredoxin-1 gene and protein. <i>Molecular Human Reproduction</i> , 2002, 8, 710-718.	2.8	22
56	A conserved cysteine-based redox mechanism sustains TFEB/HLH-30 activity under persistent stress. <i>EMBO Journal</i> , 2021, 40, e105793.	7.8	22
57	Human spermatid-specific thioredoxin-1 (Sptrx-1) is a two-domain protein with oxidizing activity. <i>FEBS Letters</i> , 2002, 530, 79-84.	2.8	21
58	Divergence in enzyme regulation between <i>Caenorhabditis elegans</i> and human tyrosine hydroxylase, the key enzyme in the synthesis of dopamine. <i>Biochemical Journal</i> , 2011, 434, 133-141.	3.7	20
59	Adjustments, extinction, and remains of selenocysteine incorporation machinery in the nematode lineage. <i>Rna</i> , 2014, 20, 1023-1034.	3.5	20
60	Exploring Target Genes Involved in the Effect of Quercetin on the Response to Oxidative Stress in <i>Caenorhabditis elegans</i> . <i>Antioxidants</i> , 2019, 8, 585.	5.1	20
61	Functional characterization of thioredoxin 3 (TRX-3), a <i>Caenorhabditis elegans</i> intestine-specific thioredoxin. <i>Free Radical Biology and Medicine</i> , 2014, 68, 205-219.	2.9	19
62	The peroxisomal fatty acid transporter ABCD1/PMP-4 is required in the <i>C. elegans</i> hypodermis for axonal maintenance: A worm model for adrenoleukodystrophy. <i>Free Radical Biology and Medicine</i> , 2020, 152, 797-809.	2.9	19
63	A network of insulin peptides regulate glucose uptake by astrocytes: Potential new druggable targets for brain hypometabolism. <i>Neuropharmacology</i> , 2018, 136, 216-222.	4.1	19
64	Identification and distribution of thioredoxin-like 2 as the antigen for the monoclonal antibody MC3 specific to colorectal cancer. <i>Proteomics</i> , 2008, 8, 2220-2229.	2.2	18
65	The Thioredoxin TRX-1 Modulates the Function of the Insulin-Like Neuropeptide DAF-28 during Dauer Formation in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2011, 6, e16561.	2.5	18
66	TRX-1 Regulates SKN-1 Nuclear Localization Cell Non-autonomously in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2016, 203, 387-402.	2.9	18
67	A <i>Caenorhabditis elegans</i> ortholog of human selenium-binding protein 1 is a pro-aging factor protecting against selenite toxicity. <i>Redox Biology</i> , 2020, 28, 101323.	9.0	17
68	Genomic organization and identification of a novel alternative splicing variant of mouse mitochondrial thioredoxin reductase (TrxR2) gene. <i>Molecules and Cells</i> , 2002, 13, 488-92.	2.6	17
69	The <i>txl1</i> gene from <i>Schizosaccharomyces pombe</i> encodes a new thioredoxin-like 1 protein that participates in the antioxidant defence against tert-butyl hydroperoxide. <i>Yeast</i> , 2007, 24, 481-490.	1.7	16
70	Glutathione reductase <i>gsr-1</i> is an essential gene required for <i>Caenorhabditis elegans</i> early embryonic development. <i>Free Radical Biology and Medicine</i> , 2016, 96, 446-461.	2.9	16
71	The neuroprotective transcription factor ATF5 is decreased and sequestered into polyglutamine inclusions in Huntington's disease. <i>Acta Neuropathologica</i> , 2017, 134, 839-850.	7.7	16
72	Downregulation of thioredoxin-1-dependent CD95 S-nitrosation by Sorafenib reduces liver cancer. <i>Redox Biology</i> , 2020, 34, 101528.	9.0	16

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73	Semen Levels of Spermatid-Specific Thioredoxin-3 Correlate with Pregnancy Rates in ART Couples. <i>PLoS ONE</i> , 2013, 8, e61000.	2.5	14
74	<i>Cis</i> - and <i>Trans</i> -Regulatory Mechanisms of Gene Expression in the ASJ Sensory Neuron of <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2015, 200, 123-134.	2.9	14
75	Sex-Specific Response of <i>Caenorhabditis elegans</i> to Methylmercury Toxicity. <i>Neurotoxicity Research</i> , 2019, 35, 208-216.	2.7	14
76	Genetic and cellular sensitivity of <i>Caenorhabditis elegans</i> to the chemotherapeutic agent cisplatin. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	2.4	13
77	The novel oxidoreductase KDRF (KM-102-derived reductase-like factor) is identical with human thioredoxin reductase. <i>Biochemical Journal</i> , 1997, 325, 287-288.	3.7	12
78	Absolute mRNA levels and transcriptional regulation of the mouse testis-specific thioredoxins. <i>Biochemical and Biophysical Research Communications</i> , 2005, 330, 65-74.	2.1	12
79	Implications of the mitochondrial interactome of mammalian thioredoxin 2 for normal cellular function and disease. <i>Free Radical Biology and Medicine</i> , 2019, 137, 59-73.	2.9	10
80	Redox-dependent and redox-independent functions of <i>Caenorhabditis elegans</i> thioredoxin 1. <i>Redox Biology</i> , 2019, 24, 101178.	9.0	9
81	A genome-wide survey of human thioredoxin and glutaredoxin family pseudogenes. <i>Human Genetics</i> , 2001, 109, 429-439.	3.8	7
82	Selenoprotein T is required for pathogenic bacteria avoidance in <i>Caenorhabditis elegans</i> . <i>Free Radical Biology and Medicine</i> , 2017, 108, 174-182.	2.9	7
83	Genomic Structure and Chromosomal Localization of Human Thioredoxin-Like Protein Gene (<i>txl</i>). <i>DNA Sequence</i> , 2000, 10, 419-424.	0.7	5
84	The cytoplasmic thioredoxin system in <i>Caenorhabditis elegans</i> affords protection from methylmercury in an age-specific manner. <i>NeuroToxicology</i> , 2018, 68, 189-202.	3.0	5
85	Targeting EDEM protects against ER stress and improves development and survival in <i>C. elegans</i> . <i>PLoS Genetics</i> , 2022, 18, e1010069.	3.5	5
86	Purification and characterization of \hat{I}^{3} Trx-1, a splicing variant of human thioredoxin-1 lacking exon 3. <i>Protein Expression and Purification</i> , 2003, 27, 319-324.	1.3	4
87	Cloning and Sequencing of Mouse Glutaredoxin (<i>grx</i>) cDNA. <i>DNA Sequence</i> , 1999, 10, 179-182.	0.7	3
88	<i>Caenorhabditis elegans</i> AGXT-1 is a mitochondrial and temperature-adapted ortholog of peroxisomal human AGT1: New insights into between-species divergence in glyoxylate metabolism. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 1195-1205.	2.3	3
89	Reduction of mRNA export unmasks different tissue sensitivities to low mRNA levels during <i>Caenorhabditis elegans</i> development. <i>PLoS Genetics</i> , 2019, 15, e1008338.	3.5	3
90	Selenite-induced Expression of a <i>Caenorhabditis elegans</i> Pro-aging Factor and Ortholog of Human Selenium-binding Protein 1. <i>Current Nutraceuticals</i> , 2020, 1, 73-79.	0.1	3

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91	Sperm Redox System Equilibrium: Implications for Fertilization and Male Fertility. <i>Advances in Experimental Medicine and Biology</i> , 2022, , 345-367.	1.6	3
92	Cautionary note on the use of <i>Caenorhabditis elegans</i> to study muscle phenotypes caused by mutations in the human <i>MYH7</i> gene. <i>BioTechniques</i> , 2020, 68, 296-299.	1.8	2
93	Identification of a Novel Thioredoxin-1 Pseudogene on Human Chromosome 10. <i>DNA Sequence</i> , 2000, 10, 411-414.	0.7	1
94	Identification of the First Human Glutaredoxin Pseudogene Localized to Human Chromosome 20qll.2. <i>DNA Sequence</i> , 2001, 11, 535-539.	0.7	1
95	Thioredoxin-related protein-1 induced by prostaglandin E2. <i>International Journal of Cancer</i> , 2006, 119, 2499-2501.	5.1	0
96	4D Microscopy: Unraveling <i>Caenorhabditis elegans</i> Embryonic Development using Nomarski Microscopy. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	0