

# J Antonio BÃ¡rcena

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5089385/publications.pdf>

Version: 2024-02-01

51  
papers

1,631  
citations

304743

22  
h-index

302126

39  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2294  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Redox regulation of c-Jun DNA binding by reversible S-glutathiolation. <i>FASEB Journal</i> , 1999, 13, 1481-1490.   | 0.5 | 270       |
| 2  | General Statistical Framework for Quantitative Proteomics by Stable Isotope Labeling. <i>Journal of Proteome Research</i> , 2014, 13, 1234-1247.   | 3.7 | 165       |
| 3  | Structural Aspects of the Distinct Biochemical Properties of Glutaredoxin 1 and Glutaredoxin 2 from <i>Saccharomyces cerevisiae</i> . <i>Journal of Molecular Biology</i> , 2009, 385, 889-901.                    | 4.2 | 79        |
| 4  | Purification from Placenta, Amino Acid Sequence, Structure Comparisons and cDNA Cloning of Human Glutaredoxin. <i>FEBS Journal</i> , 1995, 227, 27-34.   | 0.2 | 71        |
| 5  | Shotgun redox proteomics identifies specifically modified cysteines in key metabolic enzymes under oxidative stress in <i>Saccharomyces cerevisiae</i> . <i>Journal of Proteomics</i> , 2009, 72, 677-689.         | 2.4 | 70        |
| 6  | 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        |
| 7  | Glutaredoxins catalyze the reduction of glutathione by dihydrolipoamide with high efficiency. <i>Biochemical and Biophysical Research Communications</i> , 2002, 295, 1046-1051.                                   | 2.1 | 52        |
| 8  | Direct assay of glutathione peroxidase activity using high-performance capillary electrophoresis. <i>Biomedical Applications</i> , 1992, 581, 49-56.   | 1.7 | 50        |
| 9  | One Single In-frame AUG Codon Is Responsible for a Diversity of Subcellular Localizations of Glutaredoxin 2 in <i>Saccharomyces cerevisiae</i> *. <i>Journal of Biological Chemistry</i> , 2006, 281, 16551-16562. | 3.4 | 50        |
| 10 | Integrated molecular signaling involving mitochondrial dysfunction and alteration of cell metabolism induced by tyrosine kinase inhibitors in cancer. <i>Redox Biology</i> , 2020, 36, 101510.                     | 9.0 | 45        |
| 11 | Purification and properties of bovine thioredoxin system. <i>Biochimie</i> , 1993, 75, 803-809.  | 2.6 | 44        |
| 12 | Glutaredoxin Participates in the Reduction of Peroxides by the Mitochondrial 1-CYS Peroxiredoxin in <i>Saccharomyces cerevisiae</i> . <i>Antioxidants and Redox Signaling</i> , 2010, 13, 249-258.                 | 5.4 | 44        |
| 13 | Role of glutaredoxin 2 and cytosolic thioredoxins in cysteine-based redox modification of the 20S proteasome. <i>FEBS Journal</i> , 2008, 275, 2942-2955.  | 4.7 | 40        |
| 14 | Redox proteomics. <i>Expert Review of Proteomics</i> , 2010, 7, 1-4.   | 3.0 | 40        |
| 15 | 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        |
| 16 | Knockout of PRDX6 induces mitochondrial dysfunction and cell cycle arrest at G2/M in HepG2 hepatocarcinoma cells. <i>Redox Biology</i> , 2020, 37, 101737.   | 9.0 | 34        |
| 17 | A surface protein of <i>Streptococcus suis</i> serotype 2 identified by proteomics protects mice against infection. <i>Journal of Proteomics</i> , 2010, 73, 2365-2369.  | 2.4 | 28        |
| 18 | Regulation of Cell Survival, Apoptosis, and Epithelial-to-Mesenchymal Transition by Nitric Oxide-Dependent Post-Translational Modifications. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 1312-1332.        | 5.4 | 28        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Thioredoxin and glutaredoxin regulate metabolism through different multiplex thiol switches. <i>Redox Biology</i> , 2019, 21, 101049.   | 9.0 | 28        |
| 20 | Selection of thiol- and disulfide-containing proteins of <i>Escherichia coli</i> on activated thiol-Sepharose. <i>Analytical Biochemistry</i> , 2010, 398, 245-253.   | 2.4 | 26        |
| 21 | Nitrogen starvation induces extensive changes in the redox proteome of <i>Prochlorococcus</i> sp. strain SS120. <i>Environmental Microbiology Reports</i> , 2012, 4, 257-267.   | 2.4 | 25        |
| 22 | Redox regulation of metabolic and signaling pathways by thioredoxin and glutaredoxin in NOS-3 overexpressing hepatoblastoma cells. <i>Redox Biology</i> , 2015, 6, 122-134.   | 9.0 | 23        |
| 23 | A conserved cysteine-based redox mechanism sustains TFEB/HLH30 activity under persistent stress. <i>EMBO Journal</i> , 2021, 40, e105793.   | 7.8 | 22        |
| 24 | Targeting Hepatoma Using Nitric Oxide Donor Strategies. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 491-506.  | 5.4 | 20        |
| 25 | Regulation of cell death receptor S-nitrosylation and apoptotic signaling by Sorafenib in hepatoblastoma cells. <i>Redox Biology</i> , 2015, 6, 174-182.  | 9.0 | 20        |
| 26 | Changes in the Proteome of Functional and Regressing Corpus Luteum During Pregnancy and Lactation in the Rat1. <i>Biology of Reproduction</i> , 2008, 79, 100-114.  | 2.7 | 19        |
| 27 | Immunolocalization of thioredoxin and glutaredoxin in mammalian hypophysis. <i>Molecular and Cellular Endocrinology</i> , 1992, 85, 1-12.   | 3.2 | 18        |
| 28 | Horse-liver glutathione reductase: Purification and characterization. <i>International Journal of Biochemistry &amp; Cell Biology</i> , 1993, 25, 61-68.  | 0.5 | 17        |
| 29 | Application of iTRAQ Reagents to Relatively Quantify the Reversible Redox State of Cysteine Residues. <i>International Journal of Proteomics</i> , 2012, 2012, 1-9.   | 2.0 | 17        |
| 30 | Peroxiredoxin 6 Down-Regulation Induces Metabolic Remodeling and Cell Cycle Arrest in HepG2 Cells. <i>Antioxidants</i> , 2019, 8, 505.  | 5.1 | 16        |
| 31 | Downregulation of thioredoxin-1-dependent CD95 S-nitrosation by Sorafenib reduces liver cancer. <i>Redox Biology</i> , 2020, 34, 101528.  | 9.0 | 16        |
| 32 | Immunolocalization of glutaredoxin in the human corpus luteum. <i>Molecular Human Reproduction</i> , 1999, 5, 914-919.  | 2.8 | 15        |
| 33 | Purification and characterization of multiple glutathione transferase isoenzymes from grey mullet liver. <i>Cellular and Molecular Life Sciences</i> , 1997, 53, 759-768.   | 5.4 | 14        |
| 34 | Structure and function of yeast glutaredoxin 2 depend on posttranslational processing and are related to subcellular distribution. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 839-845.                    | 2.3 | 14        |
| 35 | Improved integrative analysis of the thiol redox proteome using filter-aided sample preparation. <i>Journal of Proteomics</i> , 2020, 214, 103624.  | 2.4 | 14        |
| 36 | Biosynthetic and Iron Metabolism Is Regulated by Thiol Proteome Changes Dependent on Glutaredoxin-2 and Mitochondrial Peroxiredoxin-1 in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 15565-15576. | 3.4 | 13        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Thiol Redox Sensitivity of Two Key Enzymes of Heme Biosynthesis and Pentose Phosphate Pathways: Uroporphyrinogen Decarboxylase and Transketolase. <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-13.   | 4.0 | 13        |
| 38 | Thioredoxin Downregulation Enhances Sorafenib Effects in Hepatocarcinoma Cells. <i>Antioxidants</i> , 2019, 8, 501.  | 5.1 | 11        |
| 39 | HPLC ISOENZYME PATTERNS OF GLUTATHIONE TRANSFERASE FROM MARINE FISHES WITH DIFFERENT LEVELS OF POLLUTION. <i>Biochemical Society Transactions</i> , 1991, 19, 302S-302S.   | 3.4 | 8         |
| 40 | NADPH and oxidized thioredoxin mediate redox interconversion of calf-liver and <i>Escherichia coli</i> thioredoxin reductase. <i>Molecular and Cellular Biochemistry</i> , 1992, 109, 61-9.  | 3.1 | 8         |
| 41 | Expression of glutaredoxin (thioltransferase) in the rat ovary during the oestrous cycle and postnatal development. <i>Journal of Molecular Endocrinology</i> , 2005, 34, 625-635.   | 2.5 | 7         |
| 42 | Thiol redox proteomics identifies differential targets of cytosolic and mitochondrial glutaredoxin-2 isoforms in <i>Saccharomyces cerevisiae</i> . Reversible S-glutathionylation of DHBP synthase (RIB3). <i>Journal of Proteomics</i> , 2011, 74, 2487-2497. | 2.4 | 7         |
| 43 | Characterization of a membrane-bound nitrate reductase from <i>Azotobacter chroococcum</i> . <i>Biochemical and Biophysical Research Communications</i> , 1977, 75, 682-688.   | 2.1 | 6         |
| 44 | Peroxiredoxins: Types, Characteristics and Functions in Higher Plants. , 2018, , 95-121.   |     | 6         |
| 45 | Deficiency of Parkinson's Related Protein DJ-1 Alters Cdk5 Signalling and Induces Neuronal Death by Aberrant Cell Cycle Re-entry. <i>Cellular and Molecular Neurobiology</i> , 2023, 43, 757-769.  | 3.3 | 5         |
| 46 | Nitrate reductase from <i>Azotobacter chroococcum</i> . Inactivation by oxidizing agents and reactivation with dithioerythritol. <i>Biochemical and Biophysical Research Communications</i> , 1978, 84, 943-949.   | 2.1 | 4         |
| 47 | Crystallization and preliminary X-ray crystallographic studies of glutaredoxin 2 from <i>Saccharomyces cerevisiae</i> in different oxidation states. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 445-447.           | 0.7 | 4         |
| 48 | Flavin-Mediated Photoreduction of Nitrate by Nitrate Reductase from <i>Azotobacter chroococcum</i> . <i>Zeitschrift für Pflanzenphysiologie</i> , 1980, 98, 271-276.   | 1.4 | 2         |
| 49 | Topological relationships between porcine anterior pituitary hormones and the thioredoxin and glutaredoxin systems. <i>Tissue and Cell</i> , 1993, 25, 937-946.  | 2.2 | 2         |
| 50 | OUT OF CÄRDOBA. <i>Proteomics</i> , 2006, 6, S1-S3.  | 2.2 | 2         |
| 51 | Redoxin Connection of Lipoic Acid. <i>Oxidative Stress and Disease</i> , 2008, , .   | 0.3 | 0         |