

Paolo Tortora

List of Publications by Year in descending order

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95
papers

3,610
citations

117571

34
h-index

149623

56
g-index

101
all docs

101
docs citations

101
times ranked

4638
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Direct activation of cardiac pacemaker channels by intracellular cyclic AMP. <i>Nature</i> , 1991, 351, 145-147. | 13.7 | 744 |
| 2 | Negatively charged silver nanoparticles with potent antibacterial activity and reduced toxicity for pharmaceutical preparations. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 2517-2530. | 3.3 | 108 |
| 3 | Biotechnological approaches toward nanoparticle biofunctionalization. <i>Trends in Biotechnology</i> , 2014, 32, 11-20. | 4.9 | 107 |
| 4 | Targeting Amyloid Aggregation: An Overview of Strategies and Mechanisms. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2677. | 1.8 | 103 |
| 5 | Protein nanocages for self-triggered nuclear delivery of DNA-targeted chemotherapeutics in Cancer Cells. <i>Journal of Controlled Release</i> , 2014, 196, 184-196. | 4.8 | 99 |
| 6 | Transcriptional and post-transcriptional control of polynucleotide phosphorylase during cold acclimation in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2002, 36, 1470-1480. | 1.2 | 79 |
| 7 | Single-Domain Protein A-Engineered Magnetic Nanoparticles: Toward a Universal Strategy to Site-Specific Labeling of Antibodies for Targeted Detection of Tumor Cells. <i>ACS Nano</i> , 2010, 4, 5693-5702. | 7.3 | 77 |
| 8 | The Role of Phenylalanine 31 in Maintaining the Conformational Stability of Ribonuclease P2 from <i>Sulfolobus solfataricus</i> under Extreme Conditions of Temperature and Pressure. <i>Biochemistry</i> , 1997, 36, 8733-8742. | 1.2 | 73 |
| 9 | Analysis of the <i>Escherichia coli</i> RNA degradosome composition by a proteomic approach. <i>Biochimie</i> , 2006, 88, 151-161. | 1.3 | 73 |
| 10 | Properties of Recombinant Human Cytosolic Sialidase HsNEU2. <i>Journal of Biological Chemistry</i> , 2004, 279, 3169-3179. | 1.6 | 72 |
| 11 | Glucose-dependent metabolic interconversion of fructose-1,6-bisphosphatase in yeast. <i>Biochemical and Biophysical Research Communications</i> , 1981, 100, 688-695. | 1.0 | 68 |
| 12 | Site-Specific Conjugation of ScFvs Antibodies to Nanoparticles by Bioorthogonal Strain-Promoted Alkyne-Nitrone Cycloaddition. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 496-499. | 7.2 | 66 |
| 13 | Hsp70 Oligomerization Is Mediated by an Interaction between the Interdomain Linker and the Substrate-Binding Domain. <i>PLoS ONE</i> , 2013, 8, e67961. | 1.1 | 66 |
| 14 | Structural Instability and Fibrillar Aggregation of Non-expanded Human Ataxin-3 Revealed under High Pressure and Temperature. <i>Journal of Biological Chemistry</i> , 2003, 278, 31554-31563. | 1.6 | 62 |
| 15 | A Major Role for Side-Chain Polyglutamine Hydrogen Bonding in Irreversible Ataxin-3 Aggregation. <i>PLoS ONE</i> , 2011, 6, e18789. | 1.1 | 57 |
| 16 | A High Sensitivity Biosensor to detect the presence of perfluorinated compounds in environment. <i>Talanta</i> , 2018, 178, 955-961. | 2.9 | 57 |
| 17 | Glucose-stimulated cAMP increase may be mediated by intracellular acidification in <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , 1985, 186, 75-79. | 1.3 | 52 |
| 18 | Genetic analysis of polynucleotide phosphorylase structure and functions. <i>Biochimie</i> , 2007, 89, 145-157. | 1.3 | 47 |

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|----|---|-----|-----------|
| 19 | Inhibition of α -Synuclein Fibril Elongation by Hsp70 Is Governed by a Kinetic Binding Competition between α -Synuclein Species. <i>Biochemistry</i> , 2017, 56, 1177-1180. | 1.2 | 47 |
| 20 | Effect of Caffeine on Glucose-Induced Inactivation of Gluconeogenic Enzymes in <i>Saccharomyces cerevisiae</i> . A Possible Role of Cyclic AMP. <i>FEBS Journal</i> , 1982, 126, 617-622. | 0.2 | 46 |
| 21 | Polynucleotide Phosphorylase and Mitochondrial ATP Synthase Mediate Reduction of Arsenate to the More Toxic Arsenite by Forming Arsenylated Analogues of ADP and ATP. <i>Toxicological Sciences</i> , 2010, 117, 270-281. | 1.4 | 45 |
| 22 | Uniform Lipopolysaccharide (LPS)-Loaded Magnetic Nanoparticles for the Investigation of LPS- α TLR4 Signaling. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 622-626. | 7.2 | 44 |
| 23 | Purification and characterization of a thermostable carboxypeptidase from the extreme thermophilic archaeobacterium <i>Sulfolobus solfataricus</i> . <i>FEBS Journal</i> , 1992, 206, 349-357. | 0.2 | 43 |
| 24 | Investigating the structural biofunctionality of antibodies conjugated to magnetic nanoparticles. <i>Nanoscale</i> , 2011, 3, 387-390. | 2.8 | 41 |
| 25 | Purification of phosphoenolpyruvate carboxykinase from <i>Saccharomyces cerevisiae</i> and its use for bicarbonate assay. <i>Analytical Biochemistry</i> , 1985, 144, 179-185. | 1.1 | 40 |
| 26 | Extreme heat- and pressure-resistant 7-kDa protein P2 from the archaeon <i>Sulfolobus solfataricus</i> is dramatically destabilized by a single-point amino acid substitution. <i>Proteins: Structure, Function and Bioinformatics</i> , 1997, 29, 381-390. | 1.5 | 39 |
| 27 | Temperature-Dependent, Irreversible Formation of Amyloid Fibrils by a Soluble Human Ataxin-3 Carrying a Moderately Expanded Polyglutamine Stretch (Q36)- α . <i>Biochemistry</i> , 2003, 42, 14626-14632. | 1.2 | 39 |
| 28 | Orientation- α Controlled Conjugation of Haloalkane Dehalogenase Fused Homing Peptides to Multifunctional Nanoparticles for the Specific Recognition of Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3121-3125. | 7.2 | 39 |
| 29 | Ribonucleases from the extreme thermophilic archaeobacterium <i>S. solfataricus</i> . <i>FEBS Journal</i> , 1993, 211, 305-310. | 0.2 | 37 |
| 30 | Fourteen novel mucopolysaccharidosis IVA producing mutations in GALNS gene. <i>Human Mutation</i> , 1997, 10, 368-375. | 1.1 | 37 |
| 31 | A Single-Point Mutation in the Extreme Heat- and Pressure-Resistant Sso7d Protein from <i>Sulfolobus solfataricus</i> Leads to a Major Rearrangement of the Hydrophobic Core- α - β . <i>Biochemistry</i> , 1999, 38, 12709-12717. | 1.2 | 37 |
| 32 | Epigallocatechin-3-gallate and tetracycline differently affect ataxin-3 fibrillogenesis and reduce toxicity in spinocerebellar ataxia type 3 model. <i>Human Molecular Genetics</i> , 2014, 23, 6542-6552. | 1.4 | 37 |
| 33 | Highly efficient production of anti-HER2 scFv antibody variant for targeting breast cancer cells. <i>Applied Microbiology and Biotechnology</i> , 2011, 91, 613-621. | 1.7 | 36 |
| 34 | Site-Specific Mutation of <i>Staphylococcus aureus</i> VraS Reveals a Crucial Role for the VraR-VraS Sensor in the Emergence of Glycopeptide Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 1008-1020. | 1.4 | 36 |
| 35 | The KH and S1 domains of <i>Escherichia coli</i> polynucleotide phosphorylase are necessary for autoregulation and growth at low temperature. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2007, 1769, 194-203. | 2.4 | 34 |
| 36 | A mutation in polynucleotide phosphorylase from <i>Escherichia coli</i> impairing RNA binding and degradosome stability. <i>Nucleic Acids Research</i> , 2004, 32, 1006-1017. | 6.5 | 32 |

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|----|---|-----|-----------|
| 37 | Exploring hyperthermophilic proteins under pressure: theoretical aspects and experimental findings. <i>BBA - Proteins and Proteomics</i> , 2002, 1595, 392-396. | 2.1 | 30 |
| 38 | Regulation of Escherichia coli Polynucleotide Phosphorylase by ATP. <i>Journal of Biological Chemistry</i> , 2008, 283, 27355-27359. | 1.6 | 30 |
| 39 | Differential Scanning Calorimetry Study of the Thermodynamic Stability of Some Mutants of Sso7d from <i>Sulfolobus solfataricus</i> . <i>Biochemistry</i> , 1998, 37, 10493-10498. | 1.2 | 29 |
| 40 | Various Cells Retrovirally Transduced with N-Acetylgalactosamine-6-Sulfate Sulfatase Correct Morquio Skin Fibroblasts In Vitro. <i>Human Gene Therapy</i> , 2001, 12, 2007-2016. | 1.4 | 29 |
| 41 | Ataxin-3 is subject to autolytic cleavage. <i>FEBS Journal</i> , 2006, 273, 4277-4286. | 2.2 | 27 |
| 42 | Dependence on cyclic AMP of glucose-induced inactivation of yeast gluconeogenic enzymes. <i>FEBS Letters</i> , 1983, 155, 39-42. | 1.3 | 26 |
| 43 | Studies on glucose-induced inactivation of gluconeogenic enzymes in adenylate cyclase and cAMP-dependent protein kinase yeast mutants. <i>FEBS Journal</i> , 1984, 145, 543-548. | 0.2 | 24 |
| 44 | A Hydrophobic Gold Surface Triggers Misfolding and Aggregation of the Amyloidogenic Josephin Domain in Monomeric Form, While Leaving the Oligomers Unaffected. <i>PLoS ONE</i> , 2013, 8, e58794. | 1.1 | 24 |
| 45 | Photometric Assay for Polynucleotide Phosphorylase. <i>Analytical Biochemistry</i> , 1999, 269, 353-358. | 1.1 | 23 |
| 46 | The Sso7d DNA-binding protein from <i>Sulfolobus solfataricus</i> has ribonuclease activity. <i>FEBS Letters</i> , 2001, 497, 131-136. | 1.3 | 22 |
| 47 | Thermal Stability and DNA Binding Activity of a Variant Form of the Sso7d Protein from the Archeon <i>Sulfolobus solfataricus</i> Truncated at Leucine 54. <i>Biochemistry</i> , 2003, 42, 8362-8368. | 1.2 | 22 |
| 48 | Different ataxin-3 amyloid aggregates induce intracellular Ca ²⁺ deregulation by different mechanisms in cerebellar granule cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 3155-3165. | 1.9 | 22 |
| 49 | The Vault Nanoparticle: A Gigantic Ribonucleoprotein Assembly Involved in Diverse Physiological and Pathological Phenomena and an Ideal Nanovector for Drug Delivery and Therapy. <i>Cancers</i> , 2021, 13, 707. | 1.7 | 22 |
| 50 | Expression of a synthetic gene encoding P2 ribonuclease from the extreme thermoacidophilic archaeobacterium <i>Sulfolobus solfataricus</i> in mesophilic hosts. <i>Gene</i> , 1995, 154, 99-103. | 1.0 | 21 |
| 51 | Proteomic and biochemical analyses unveil tight interaction of ataxin-3 with tubulin. <i>International Journal of Biochemistry and Cell Biology</i> , 2009, 41, 2485-2492. | 1.2 | 21 |
| 52 | Dependence of nanoparticle-cell recognition efficiency on the surface orientation of scFv targeting ligands. <i>Biomaterials Science</i> , 2013, 1, 728. | 2.6 | 21 |
| 53 | Epigallocatechin-3-gallate and related phenol compounds redirect the amyloidogenic aggregation pathway of ataxin-3 towards non-toxic aggregates and prevent toxicity in neural cells and <i>Caenorhabditis elegans</i> animal model. <i>Human Molecular Genetics</i> , 2017, 26, 3271-3284. | 1.4 | 21 |
| 54 | Destabilization of non-pathological variants of ataxin-3 by metal ions results in aggregation/fibrillogenesis. <i>International Journal of Biochemistry and Cell Biology</i> , 2007, 39, 966-977. | 1.2 | 20 |

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|----|---|-----|-----------|
| 55 | The Relationship between Aggregation and Toxicity of Polyglutamine-Containing Ataxin-3 in the Intracellular Environment of <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2012, 7, e51890. | 1.1 | 20 |
| 56 | Molecular cloning, nucleotide sequence and expression of a <i>Sulfolobus solfataricus</i> gene encoding a class II fumarase. <i>FEBS Letters</i> , 1994, 337, 93-98. | 1.3 | 19 |
| 57 | 3D Structure of <i>Sulfolobus solfataricus</i> Carboxypeptidase Developed by Molecular Modeling is Confirmed by Site-Directed Mutagenesis and Small Angle X-Ray Scattering. <i>Biophysical Journal</i> , 2003, 85, 1165-1175. | 0.2 | 19 |
| 58 | Avidin Decorated Core-Shell Nanoparticles for Biorecognition Studies by Elastic Light Scattering. <i>ChemBioChem</i> , 2007, 8, 1021-1028. | 1.3 | 19 |
| 59 | Interaction of selected divalent metal ions with human ataxin-3 Q36. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 1175-1185. | 1.1 | 19 |
| 60 | The role of the central flexible region on the aggregation and conformational properties of human ataxin-3. <i>FEBS Journal</i> , 2012, 279, 451-463. | 2.2 | 19 |
| 61 | Enhanced stability of carboxypeptidase from <i>Sulfolobus solfataricus</i> at high pressure. <i>Biotechnology Letters</i> , 1996, 18, 483-488. | 1.1 | 18 |
| 62 | Interactions of ataxin-3 with its molecular partners in the protein machinery that sorts protein aggregates to the aggresome. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 51, 58-64. | 1.2 | 18 |
| 63 | Glucose-induced degradation of yeast fructose-1,6-bisphosphatase requires additional triggering events besides protein phosphorylation. <i>FEBS Letters</i> , 1987, 216, 265-269. | 1.3 | 17 |
| 64 | How Epigallocatechin gallate and Tetracycline Interact with the Josephin Domain of Ataxin-3 and Alter Its Aggregation Mode. <i>Chemistry - A European Journal</i> , 2015, 21, 18383-18393. | 1.7 | 17 |
| 65 | Metabolic effects of benzoate and sorbate in the yeast <i>Saccharomyces cerevisiae</i> at neutral pH. <i>Archives of Microbiology</i> , 1993, 159, 220-224. | 1.0 | 16 |
| 66 | Peptide-Nanoparticle Ligation Mediated by <i>Cutinase</i> Fusion for the Development of Cancer Cell-Targeted Nanoconjugates. <i>Bioconjugate Chemistry</i> , 2015, 26, 680-689. | 1.8 | 16 |
| 67 | Regulation of maltose utilization in <i>Saccharomyces cerevisiae</i> by genes of the RAS/protein kinase A pathway 1. <i>FEBS Letters</i> , 1997, 402, 251-255. | 1.3 | 15 |
| 68 | Structure prediction and functional analysis of KdsD, an enzyme involved in lipopolysaccharide biosynthesis. <i>Biochemical and Biophysical Research Communications</i> , 2009, 388, 222-227. | 1.0 | 15 |
| 69 | Polynucleotide phosphorylase-based photometric assay for inorganic phosphate. <i>Analytical Biochemistry</i> , 2004, 327, 209-214. | 1.1 | 14 |
| 70 | The conformational ensemble of the disordered and aggregation-protective 182-291 region of ataxin-3. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 5236-5247. | 1.1 | 14 |
| 71 | Studies on the degradative mechanism of phosphoenolpyruvate carboxykinase from the yeast <i>Saccharomyces cerevisiae</i> . <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1989, 1014, 153-161. | 1.9 | 13 |
| 72 | Immobilization of carboxypeptidase from <i>Sulfolobus solfataricus</i> on magnetic nanoparticles improves enzyme stability and functionality in organic media. <i>BMC Biotechnology</i> , 2014, 14, 82. | 1.7 | 12 |

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|----|---|-----|-----------|
| 73 | A conserved loop in polynucleotide phosphorylase (PNPase) essential for both RNA and ADP/phosphate binding. <i>Biochimie</i> , 2014, 97, 49-59. | 1.3 | 12 |
| 74 | Pressure and temperature as tools for investigating the role of individual non-covalent interactions in enzymatic reactions. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 563-572. | 1.1 | 11 |
| 75 | Multiple Presentation of Scfv800E6 on Silica Nanospheres Enhances Targeting Efficiency Toward HER-2 Receptor in Breast Cancer Cells. <i>Bioconjugate Chemistry</i> , 2011, 22, 2296-2303. | 1.8 | 11 |
| 76 | Guanidine-induced unfolding of the Sso7d protein from the hyperthermophilic archaeon <i>Sulfolobus solfataricus</i> . <i>International Journal of Biological Macromolecules</i> , 2004, 34, 195-201. | 3.6 | 10 |
| 77 | An 8.5-kDa ribonuclease from the extreme thermophilic archaeobacterium <i>Sulfolobus solfataricus</i> . <i>FEBS Letters</i> , 1995, 360, 187-190. | 1.3 | 9 |
| 78 | The Toxic Effects of Pathogenic Ataxin-3 Variants in a Yeast Cellular Model. <i>PLoS ONE</i> , 2015, 10, e0129727. | 1.1 | 9 |
| 79 | Temperature profoundly affects ataxin-3 fibrillogenesis. <i>Biochimie</i> , 2012, 94, 1026-1031. | 1.3 | 8 |
| 80 | A fast and straightforward procedure for vault nanoparticle purification and the characterization of its endocytic uptake. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2254-2260. | 1.1 | 8 |
| 81 | ¹ H-NMR and photo-CIDNP spectroscopies show a possible role for Trp23 and Phe31 in nucleic acid binding by P2 ribonuclease from the archaeon <i>Sulfolobus solfataricus</i> . <i>FEBS Letters</i> , 1995, 372, 135-139. | 1.3 | 7 |
| 82 | The mechanism of the polynucleotide phosphorylase-catalyzed arsenolysis of ADP. <i>Biochimie</i> , 2011, 93, 624-627. | 1.3 | 7 |
| 83 | Impact of Tuning the Surface Charge Distribution on Colloidal Iron Oxide Nanoparticle Toxicity Investigated in <i>Caenorhabditis elegans</i> . <i>Nanomaterials</i> , 2021, 11, 1551. | 1.9 | 7 |
| 84 | A combined approach of mass spectrometry, molecular modeling, and site-directed mutagenesis highlights key structural features responsible for the thermostability of <i>Sulfolobus solfataricus</i> carboxypeptidase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 71, 1843-1852. | 1.5 | 6 |
| 85 | Pathological ATX3 Expression Induces Cell Perturbations in <i>E. coli</i> as Revealed by Biochemical and Biophysical Investigations. <i>International Journal of Molecular Sciences</i> , 2021, 22, 943. | 1.8 | 6 |
| 86 | Fourteen novel mucopolysaccharidosis IVA producing mutations in GALNS gene. <i>Human Mutation</i> , 1997, 10, 368-375. | 1.1 | 4 |
| 87 | Identification of a phosphorylated form of phosphoenolpyruvate carboxykinase from the yeast <i>Saccharomyces cerevisiae</i> . <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1987, 930, 220-229. | 1.9 | 3 |
| 88 | Protein Environment: A Crucial Triggering Factor in Josephin Domain Aggregation: The Role of 2,2,2-Trifluoroethanol. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2151. | 1.8 | 3 |
| 89 | Methacycline displays a strong efficacy in reducing toxicity in a SCA3 <i>Caenorhabditis elegans</i> model. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 279-290. | 1.1 | 3 |
| 90 | <i>Sulfolobus</i> carboxypeptidase. , 2004, , 953-955. | | 3 |

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|----|---|-----|-----------|
| 91 | Occurrence of two phosphorylated forms of yeast fructose-1,6-bisphosphatase with different isoelectric points. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1988, 972, 353-356. | 1.9 | 2 |
| 92 | Occurrence of two phosphorylated forms of yeast fructose-1,6-bisphosphatase with different isoelectric points. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1988, 972, 353-356. | 0.5 | 2 |
| 93 | Structural prerequisites for the stability of Sso7d from the archaeon <i>Sulfolobus solfataricus</i> versus high pressure and temperature. <i>High Pressure Research</i> , 2000, 19, 311-316. | 0.4 | 0 |
| 94 | The polyglutamine protein ataxin-3 enables normal growth under heat shock conditions in the methylotrophic yeast <i>Pichia pastoris</i> . <i>Scientific Reports</i> , 2017, 7, 13417. | 1.6 | 0 |
| 95 | Carboxypeptidase Ss1. , 2013, , 1608-1611. | | 0 |