

Paolo Tortora

List of Publications by Year in descending order

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95
papers

3,610
citations

117625

34
h-index

149698

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.	27.8	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.	6.7	108
3	Biotechnological approaches toward nanoparticle biofunctionalization. <i>Trends in Biotechnology</i> , 2014, 32, 11-20.	9.3	107
4	Targeting Amyloid Aggregation: An Overview of Strategies and Mechanisms. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2677.	4.1	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.	9.9	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.	2.5	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.	14.6	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.	2.5	73
9	Analysis of the <i>Escherichia coli</i> RNA degradosome composition by a proteomic approach. <i>Biochimie</i> , 2006, 88, 151-161.	2.6	73
10	Properties of Recombinant Human Cytosolic Sialidase HsNEU2. <i>Journal of Biological Chemistry</i> , 2004, 279, 3169-3179.	3.4	72
11	Glucose-dependent metabolic interconversion of fructose-1,6-bisphosphatase in yeast. <i>Biochemical and Biophysical Research Communications</i> , 1981, 100, 688-695.	2.1	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.	13.8	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.	2.5	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.	3.4	62
15	A Major Role for Side-Chain Polyglutamine Hydrogen Bonding in Irreversible Ataxin-3 Aggregation. <i>PLoS ONE</i> , 2011, 6, e18789.	2.5	57
16	A High Sensitivity Biosensor to detect the presence of perfluorinated compounds in environment. <i>Talanta</i> , 2018, 178, 955-961.	5.5	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.	2.8	52
18	Genetic analysis of polynucleotide phosphorylase structure and functions. <i>Biochimie</i> , 2007, 89, 145-157.	2.6	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.	2.5	47
20	Effect of Caffeine on Glucose-Induced Inactivation of Gluconeogenetic 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.	3.1	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.	13.8	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.	5.6	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.	2.4	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.	2.6	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.	2.5	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.	13.8	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.	2.5	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.	2.5	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.	2.9	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.	3.6	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.	3.2	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.	14.5	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.	3.4	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.	2.5	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.	2.7	29
41	Ataxin-3 is subject to autolytic cleavage. <i>FEBS Journal</i> , 2006, 273, 4277-4286.	4.7	27
42	Dependence on cyclic AMP of glucose-induced inactivation of yeast gluconeogenic enzymes. <i>FEBS Letters</i> , 1983, 155, 39-42.	2.8	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.	2.5	24
45	Photometric Assay for Polynucleotide Phosphorylase. <i>Analytical Biochemistry</i> , 1999, 269, 353-358.	2.4	23
46	The Sso7d DNA-binding protein from <i>Sulfolobus solfataricus</i> has ribonuclease activity. <i>FEBS Letters</i> , 2001, 497, 131-136.	2.8	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.	2.5	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.	4.1	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.	3.7	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.	2.2	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.	2.8	21
52	Dependence of nanoparticle-cell recognition efficiency on the surface orientation of scFv targeting ligands. <i>Biomaterials Science</i> , 2013, 1, 728.	5.4	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.	2.9	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.	2.8	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.	2.5	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.	2.8	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.	0.5	19
58	Avidin Decorated Core-Shell Nanoparticles for Biorecognition Studies by Elastic Light Scattering. <i>ChemBioChem</i> , 2007, 8, 1021-1028.	2.6	19
59	Interaction of selected divalent metal ions with human ataxin-3 Q36. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 1175-1185.	2.6	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.	4.7	19
61	Enhanced stability of carboxypeptidase from <i>Sulfolobus solfataricus</i> at high pressure. <i>Biotechnology Letters</i> , 1996, 18, 483-488.	2.2	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.	2.8	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.	2.8	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.	3.3	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.	2.2	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.	3.6	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.	2.8	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.	2.1	15
69	Polynucleotide phosphorylase-based photometric assay for inorganic phosphate. <i>Analytical Biochemistry</i> , 2004, 327, 209-214.	2.4	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.	2.4	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.	4.1	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.	3.3	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.	2.6	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.	2.3	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.	3.6	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.	7.5	10
77	An 8.5-kDa ribonuclease from the extreme thermophilic archaeobacterium <i>Sulfolobus solfataricus</i> . <i>FEBS Letters</i> , 1995, 360, 187-190.	2.8	9
78	The Toxic Effects of Pathogenic Ataxin-3 Variants in a Yeast Cellular Model. <i>PLoS ONE</i> , 2015, 10, e0129727.	2.5	9
79	Temperature profoundly affects ataxin-3 fibrillogenesis. <i>Biochimie</i> , 2012, 94, 1026-1031.	2.6	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.	2.4	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.	2.8	7
82	The mechanism of the polynucleotide phosphorylase-catalyzed arsenolysis of ADP. <i>Biochimie</i> , 2011, 93, 624-627.	2.6	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.	4.1	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.	2.6	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.	4.1	6
86	Fourteen novel mucopolysaccharidosis IVA producing mutations in GALNS gene. <i>Human Mutation</i> , 1997, 10, 368-375.	2.5	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.	4.1	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.	4.1	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.	2.4	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.	4.1	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.	1.0	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.	1.2	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.	3.3	0
95	Carboxypeptidase Ss1. , 2013, , 1608-1611.		0