Rodolfo Berni

List of Publications by Year
in descending order

64 papers	2,157 citations	218592 26 h-index	233338 45 g-index
64 all docs	64 docs citations	64 times ranked	2236 citing authors

#	Article	IF	Citations
1	Completing the uric acid degradation pathway through phylogenetic comparison of whole genomes. Nature Chemical Biology, 2006, 2, 144-148.	3.9	197
2	Retinol-binding protein is in the molten globule state at low pH. Biochemistry, 1992, 31, 7566-7571.	1.2	148
3	Plasma Retinol-Binding Protein: Structure and Interactions with Retinol, Retinoids, and Transthyretin. Vitamins and Hormones, 2004, 69, 271-295.	0.7	130
4	Crystal Structure of Peach Pru p 3, the Prototypic Member of the Family of Plant Non-specific Lipid Transfer Protein Pan-allergens. Journal of Molecular Biology, 2006, 356, 684-694.	2.0	122
5	In vitro interaction of fenretinide with plasma retinol-binding protein and its functional consequences. FEBS Letters, 1992, 308, 43-45.	1.3	89
6	Crystal Structure of the Trigonal Form of Human Plasma Retinol-binding Protein at 2Â·5 Ã... Resolution. Journal of Molecular Biology, 1993, 230, 613-624.	2.0	82
7	Ligand Binding and Structural Analysis of a Human Putative Cellular Retinol-binding Protein. Journal of Biological Chemistry, 2002, 277, 41970-41977.	1.6	80
8	Retinoids: in vitro interaction with retinolâ€binding protein and influence on plasma retinol. FASEB Journal, 1993, 7, 1179-1184.	0.2	64
9	Logical Identification of an Allantoinase Analog (puuE) Recruited from Polysaccharide Deacetylases. Journal of Biological Chemistry, 2008, 283, 23295-23304.	1.6	62
10	Retinoid binding to retinol-binding protein and the interference with the interaction with transthyretin. BBA - Proteins and Proteomics, 1996, 1294, 48-54.	2.1	57
11	Structure of Zebra fish HIUase: Insights into Evolution of an Enzyme to a Hormone Transporter. Journal of Molecular Biology, 2006, 363, 1-9.	2.0	52
12	Active Site Structural Features for Chemically Modified Forms of Rhodanese. Journal of Biological Chemistry, 1996, 271, 21054-21061.	1.6	47
13	The Structure of 2-Oxo-4-hydroxy-4-carboxy-5-ureidoimidazoline Decarboxylase Provides Insights into the Mechanism of Uric Acid Degradation. Journal of Biological Chemistry, 2007, 282, 18182-18189.	1.6	46
14	Amyloidogenic Potential of Transthyretin Variants. Journal of Biological Chemistry, 2009, 284, 25832-25841.	1.6	44
15	Transthyretin Binding Heterogeneity and Anti-amyloidogenic Activity of Natural Polyphenols and Their Metabolites. Journal of Biological Chemistry, 2015, 290, 29769-29780.	1.6	42
16	Structure of the trigonal crystal form of bovine annexin IV. Biochemical Journal, 1998, 329, 101-106.	1.7	41
17	The piscine plasma retinol-binding protein. Purification, partial amino acid sequence and interaction with mammalian transthyretin of rainbow trout (Oncorhynchus mykiss) retinol-binding protein. FEBS Journal, 1992, 204, 99-106.	0.2	40
18	Acidic pH-induced Conformational Changes in Amyloidogenic Mutant Transthyretin. Journal of Molecular Biology, 2007, 366, 711-719.	2.0	38

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19	The bovine plasma retinol-binding protein. Amino acid sequence, interaction with transthyretin, crystallization and preliminary X-ray data. FEBS Journal, 1990, 192, 507-513.	0.2	35
20	Crystal Structure of the Transthyretin-Retinoic-Acid Complex. FEBS Journal, 1995, 234, 563-569.	0.2	35
21	Distinctive binding and structural properties of piscine transthyretin. FEBS Letters, 2003, 555, 279-284.	1.3	34
22	Structural and mutational analyses of proteinâ€“protein interactions between transthyretin and retinolâ€binding protein. FEBS Journal, 2008, 275, 5841-5854.	2.2	34
23	Purification of human plasma retinol-binding protein by hydrophobic interaction chromatography. Analytical Biochemistry, 1985, 150, 273-277.	1.1	31
24	Active site modifications quench intrinsic fluorescence of rhodanese by different mechanisms. Biochemistry, 1986, 25, 7319-7323.	1.2	31
25	High-resolution Structures of Retinol-binding Protein in Complex with Retinol: pH-induced Protein Structural Changes in the Crystal State. Journal of Molecular Biology, 2003, 329, 841-850.	2.0	30
26	Interaction of rhodanese with intermediates of oxygen reduction. FEBS Letters, 1983, 162, 180-184.	1.3	26
27	Interactions with Retinol and Retinoids of Bovine Cellular Retinol-Binding Protein. FEBS Journal, 1995, 229, 486-493.	0.2	26
28	An aminotransferase branch point connects purine catabolism to amino acid recycling. Nature Chemical Biology, 2010, 6, 801-806.	3.9	26
29	NH2-terminal Sequence Truncation Decreases the Stability of Bovine Rhodanese, Minimally Perturbs Its Crystal Structure, and Enhances Interaction with GroEL under Native Conditions. Journal of Biological Chemistry, 1999, 274, 13938-13947.	1.6	25
30	First trimester concentrations of the TTR-RBP4-retinol complex components as early markers of insulin-treated gestational diabetes mellitus. Clinical Chemistry and Laboratory Medicine, 2015, 53, 1643-51.	1.4	24
31	Catalytic and regulatory properties of d-glyceraldehyde-3-phosphate dehydrogenase in the crystal. Journal of Molecular Biology, 1977, 110, 405-415.	2.0	23
32	Structure of Sulfur-Substituted Rhodanese at 1.36â€…Ã… Resolution. Acta Crystallographica Section D: Biological Crystallography, 1998, 54, 481-486.	2.5	23
33	Biochemical basis for retinol deficiency induced by the I41N and G75D mutations in human plasma retinol-binding protein. Biochemical and Biophysical Research Communications, 2005, 336, 1017-1022.	1.0	23
34	Structure of chicken plasma retinol-binding protein. BBA - Proteins and Proteomics, 2001, 1550, 64-69.	2.1	21
35	Structural evidence for native state stabilization of a conformationally labile amyloidogenic transthyretin variant by fibrillogenesis inhibitors. FEBS Letters, 2013, 587, 2325-2331.	1.3	21
36	Structural evidence for asymmetric ligand binding to transthyretin. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 1582-1592.	2.5	21

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37	Catalysis and Structure of Zebrafish Urate Oxidase Provide Insights into the Origin of Hyperuricemia in Hominoids. Scientific Reports, 2016, 6, 38302.	1.6	21
38	The primary structure of piscine (Oncorhynchus mykiss) retinol-binding protein and a comparison with the three-dimensional structure of mammalian retinol-binding protein. FEBS Journal, 1992, 210, 937-943.	0.2	18
39	Structure at 1.44 Ã... resolution of an N-terminally truncated form of the rat serum complement C3d fragment. BBA - Proteins and Proteomics, 2000, 1478, 232-238.	2.1	18
40	Identification and Structural Analysis of a Zebrafish Apo and Holo Cellular Retinol-binding Protein. Journal of Molecular Biology, 2002, 321, 527-535.	2.0	17
41	Specific interaction of lipoate at the active site of rhodanese. BBA - Proteins and Proteomics, 2000, 1481, 103-108.	2.1	16
42	Structural characterization of recombinant crustacyanin subunits from the lobsterHomarus americanus. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 846-853.	0.7	16
43	Purification of bacteriocin AS-48 from anEnterococcus faeciumstrain and analysis of the gene cluster involved in its production. FEMS Microbiology Letters, 2003, 221, 143-149.	0.7	15
44	Ligand-binding specificity of an invertebrate (Manduca sexta) putative cellular retinoic acid binding protein. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1747, 229-237.	1.1	15
45	Probing the Evolution of Hydroxyisourate Hydrolase into Transthyretin through Active-Site Redesign. Journal of Molecular Biology, 2011, 409, 504-512.	2.0	15
46	Specificity of the TraAâ€“DNA Interaction in the Regulation of the pPD1-Encoded Sex Pheromone Response in Enterococcus faecalis. Journal of Molecular Biology, 2008, 380, 932-945.	2.0	14
47	Structural and molecular determinants affecting the interaction of retinol with human CRBP1. Journal of Structural Biology, 2017, 197, 330-339.	1.3	14
48	A structural comparison of ligand-saturated hemoglobin with protoporphyrin globin. Journal of Molecular Biology, 1972, 70, 689-696.	2.0	11
49	Spinach chloroplast glyceraldehyde-3-phosphate dehydrogenase (NADP). BBA - Proteins and Proteomics, 1983, 744, 260-264.	2.1	11
50	Structure-activity relationships of flurbiprofen analogues as stabilizers of the amyloidogenic protein transthyretin. Journal of Structural Biology, 2019, 208, 165-173.	1.3	11
51	Isoform identification, recombinant production and characterization of the allergen lipid transfer protein 1 from pear (Pyr c 3). Gene, 2012, 491, 173-181.	1.0	10
52	Determination of rhodanese activity by tetrazolium reduction. Analytical Biochemistry, 1984, 142, 159-162.	1.1	9
53	Crystallization of human plasma apo-retinol-binding protein. Journal of Molecular Biology, 1984, 178, 477-479.	2.0	9
54	Chemical Modification of Rhodanese with Sulphite. Free Radical Research Communications, 1991, 15, 203-209.	1.8	9

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55	Dynamics and Thermodynamics of Transthyretin Association from Molecular Dynamics Simulations. BioMed Research International, 2018, 2018, 1-14.	0.9	9
56	Structural and dynamics evidence for scaffold asymmetric flexibility of the human transthyretin tetramer. PLoS ONE, 2017, 12, e0187716.	1.1	7
57	The Interaction Between Retinol-Binding Protein and Transthyretin Analyzed by Fluorescence Anisotropy. Methods in Molecular Biology, 2010, 652, 189-207.	0.4	6
58	Deciphering protein dynamics changes along the pathway of retinol uptake by cellular retinol-binding proteins 1 and 2. Archives of Biochemistry and Biophysics, 2018, 645, 107-116.	1.4	5
59	Interactions of tolcapone analogues as stabilizers of the amyloidogenic protein transthyretin. Bioorganic Chemistry, 2020, 103, 104144.	2.0	4
60	Crystallization and preliminary X-ray data for the human transthyretinâ€“retinol-binding protein (RBP) complex bound to an anti-RBP Fab. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 276-278.	2.5	3
61	Vertebrate 5-Hydroxyisourate Hydrolase Identification, Function, Structure, and Evolutionary Relationship with Transthyretin. , 2009, , 95-108.		2
62	Kinetic evidence for a reversible isomerization of pig muscle glyceraldehyde-3-phosphate dehydrogenase in its crystallization medium. Archives of Biochemistry and Biophysics, 1988, 263, 121-129.	1.4	1
63	Cloning, E. coli overexpression, purification and binding properties of TraA and TraC, two proteins involved in the pheromone-dependent conjugation process in enterococci. Protein Expression and Purification, 2008, 60, 198-204.	0.6	1
64	Effects on Intrinsic Fluorescence Induced by Active Site Modifications of Rhodanese. , 1989, , 87-90.		0