

Attila Ambrus

List of Publications by Citations

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39
papers

2,673
citations

17
h-index

42
g-index

42
ext. papers

2,978
ext. citations

5.5
avg, IF

4.69
L-index

#	Paper	IF	Citations
39	Human telomeric sequence forms a hybrid-type intramolecular G-quadruplex structure with mixed parallel/antiparallel strands in potassium solution. <i>Nucleic Acids Research</i> , 2006 , 34, 2723-35	20.1	891
38	Solution structure of the biologically relevant G-quadruplex element in the human c-MYC promoter. Implications for G-quadruplex stabilization. <i>Biochemistry</i> , 2005 , 44, 2048-58	3.2	472
37	An intramolecular G-quadruplex structure with mixed parallel/antiparallel G-strands formed in the human BCL-2 promoter region in solution. <i>Journal of the American Chemical Society</i> , 2006 , 128, 1096-8	16.4	340
36	Structure of the intramolecular human telomeric G-quadruplex in potassium solution: a novel adenine triple formation. <i>Nucleic Acids Research</i> , 2007 , 35, 2440-50	20.1	296
35	A labile regulatory copper ion lies near the T1 copper site in the multicopper oxidase CueO. <i>Journal of Biological Chemistry</i> , 2003 , 278, 31958-63	5.4	122
34	Inhibition of the alpha-ketoglutarate dehydrogenase-mediated reactive oxygen species generation by lipoic acid. <i>Journal of Neurochemistry</i> , 2009 , 109 Suppl 1, 222-9	6	45
33	Stimulation of reactive oxygen species generation by disease-causing mutations of lipoamide dehydrogenase. <i>Human Molecular Genetics</i> , 2011 , 20, 2984-95	5.6	40
32	Formation of reactive oxygen species by human and bacterial pyruvate and 2-oxoglutarate dehydrogenase multienzyme complexes reconstituted from recombinant components. <i>Free Radical Biology and Medicine</i> , 2015 , 89, 642-50	7.8	38
31	Human 2-oxoglutarate dehydrogenase complex E1 component forms a thiamin-derived radical by aerobic oxidation of the enamine intermediate. <i>Journal of Biological Chemistry</i> , 2014 , 289, 29859-73	5.4	36
30	A direct and nondestructive approach to determine the folding structure of the I-motif DNA secondary structure by NMR. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6102-4	16.4	36
29	TP53 mutation hits energy metabolism and increases glycolysis in breast cancer. <i>Oncotarget</i> , 2016 , 7, 67183-67195	3.3	34
28	Calcium binding of transglutaminases: a ⁴³ Ca NMR study combined with surface polarity analysis. <i>Journal of Biomolecular Structure and Dynamics</i> , 2001 , 19, 59-74	3.6	28
27	Diffusion-ordered nuclear magnetic resonance spectroscopy for analysis of DNA secondary structural elements. <i>Analytical Biochemistry</i> , 2007 , 367, 56-67	3.1	27
26	Molecular dynamics study of the structural basis of dysfunction and the modulation of reactive oxygen species generation by pathogenic mutants of human dihydrolipoamide dehydrogenase. <i>Archives of Biochemistry and Biophysics</i> , 2013 , 538, 145-55	4.1	22
25	Structural and biochemical characterization of neuronal calretinin domain I-II (residues 1-100). Comparison to homologous calbindin D28k domain I-II (residues 1-93). <i>FEBS Journal</i> , 2001 , 268, 6229-37		19
24	Human dihydrolipoamide dehydrogenase (E3) deficiency: Novel insights into the structural basis and molecular pathomechanism. <i>Neurochemistry International</i> , 2018 , 117, 5-14	4.4	17
23	Oligomerization of nitrophorins. <i>Analytical Biochemistry</i> , 2006 , 352, 286-95	3.1	17

22	A multipronged approach unravels unprecedented protein-protein interactions in the human 2-oxoglutarate dehydrogenase multienzyme complex. <i>Journal of Biological Chemistry</i> , 2018 , 293, 19213-19227	5.4	16
21	Structural alterations induced by ten disease-causing mutations of human dihydrolipoamide dehydrogenase analyzed by hydrogen/deuterium-exchange mass spectrometry: Implications for the structural basis of E3 deficiency. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016 , 1828, 2000-2100	6.9	15
20	Membrane potential and delta pH dependency of reverse electron transport-associated hydrogen peroxide production in brain and heart mitochondria. <i>Journal of Bioenergetics and Biomembranes</i> , 2018 , 50, 355-365	3.7	15
19	Periplasmic cold expression and one-step purification of human dihydrolipoamide dehydrogenase. <i>Protein Expression and Purification</i> , 2009 , 63, 50-7	2	15
18	Total and semisynthesis and in vitro studies of both enantiomers of 20-fluorocamptothecin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 4736-40	2.9	15
17	Measurement of ROS homeostasis in isolated mitochondria. <i>Methods in Enzymology</i> , 2014 , 547, 199-223	1.7	14
16	A re-evaluation of the role of matrix acidification in uncoupler-induced Ca ²⁺ release from mitochondria. <i>FEBS Journal</i> , 2009 , 276, 2713-24	5.7	13
15	Underlying molecular alterations in human dihydrolipoamide dehydrogenase deficiency revealed by structural analyses of disease-causing enzyme variants. <i>Human Molecular Genetics</i> , 2019 , 28, 3339-3354	5.6	10
14	Refolding of the human dihydrolipoamide dehydrogenase. <i>Biochemical Engineering Journal</i> , 2009 , 45, 120-125	4.2	9
13	DNA binding of sunitinib: Spectroscopic evidence via circular dichroism and nuclear magnetic resonance. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 150, 355-361	3.5	9
12	Triethylene glycol dimethacrylate impairs bioenergetic functions and induces oxidative stress in mitochondria via inhibiting respiratory Complex I. <i>Dental Materials</i> , 2018 , 34, e166-e181	5.7	8
11	Crystal structures of the disease-causing D444V mutant and the relevant wild type human dihydrolipoamide dehydrogenase. <i>Free Radical Biology and Medicine</i> , 2018 , 124, 214-220	7.8	8
10	An Updated View on the Molecular Pathomechanisms of Human Dihydrolipoamide Dehydrogenase Deficiency in Light of Novel Crystallographic Evidence. <i>Neurochemical Research</i> , 2019 , 44, 2307-2313	4.6	7
9	Structural alterations by five disease-causing mutations in the low-pH conformation of human dihydrolipoamide dehydrogenase (hLADH) analyzed by molecular dynamics - Implications in functional loss and modulation of reactive oxygen species generation by pathogenic hLADH forms. <i>Biochemistry and Biophysics Reports</i> , 2015 , 2, 50-56	2.2	7
8	Polyethylene glycol enhanced refolding of the recombinant human tissue transglutaminase. <i>Preparative Biochemistry and Biotechnology</i> , 2001 , 31, 59-70	2.4	7
7	Hydrogen-Deuterium Exchange Mass Spectrometry: A Novel Structural Biology Approach to Structure, Dynamics and Interactions of Proteins and Their Complexes. <i>Life</i> , 2020 , 10,	3	5
6	Structure of the dihydrolipoamide succinyltransferase (E2) component of the human alpha-ketoglutarate dehydrogenase complex (hKGDHc) revealed by cryo-EM and cross-linking mass spectrometry: Implications for the overall hKGDHc structure. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021 , 1865, 129889	4	5
5	Exclusive neuronal detection of KGDHC-specific subunits in the adult human brain cortex despite pancellular protein lysine succinylation. <i>Brain Structure and Function</i> , 2020 , 225, 639-667	4	4

4	The Mitochondrial Targets of Neuroprotective Drug Vinpocetine on Primary Neuron Cultures, Brain Capillary Endothelial Cells, Synaptosomes, and Brain Mitochondria. <i>Neurochemical Research</i> , 2019 , 44, 2435-2447	4.6	3
3	Structure-function analyses of the G729R 2-oxoadipate dehydrogenase genetic variant associated with a disorder of l-lysine metabolism. <i>Journal of Biological Chemistry</i> , 2020 , 295, 8078-8095	5.4	3
2	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry protocol for monitoring the progress of enzymatic (13)C/(15)N-labeled DNA syntheses. <i>Analytical Biochemistry</i> , 2005 , 342, 246-53	3.1	3
1	Methylene Blue Bridges the Inhibition and Produces Unusual Respiratory Changes in Complex III-Inhibited Mitochondria. Studies on Rats, Mice and Guinea Pigs. <i>Antioxidants</i> , 2021 , 10,	7.1	2