

# Attila Ambrus

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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> , <b>2021</b> , 1865-129889	4	5
38	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> , <b>2021</b> , 10,	7.1	2
37	Exclusive neuronal detection of KGDHC-specific subunits in the adult human brain cortex despite pancellular protein lysine succinylation. <i>Brain Structure and Function</i> , <b>2020</b> , 225, 639-667	4	4
36	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> , <b>2020</b> , 295, 8078-8095	5.4	3
35	Hydrogen-Deuterium Exchange Mass Spectrometry: A Novel Structural Biology Approach to Structure, Dynamics and Interactions of Proteins and Their Complexes. <i>Life</i> , <b>2020</b> , 10,	3	5
34	The Mitochondrial Targets of Neuroprotective Drug Vinpocetine on Primary Neuron Cultures, Brain Capillary Endothelial Cells, Synaptosomes, and Brain Mitochondria. <i>Neurochemical Research</i> , <b>2019</b> , 44, 2435-2447	4.6	3
33	An Updated View on the Molecular Pathomechanisms of Human Dihydrolipoamide Dehydrogenase Deficiency in Light of Novel Crystallographic Evidence. <i>Neurochemical Research</i> , <b>2019</b> , 44, 2307-2313	4.6	7
32	Underlying molecular alterations in human dihydrolipoamide dehydrogenase deficiency revealed by structural analyses of disease-causing enzyme variants. <i>Human Molecular Genetics</i> , <b>2019</b> , 28, 3339-3354	5.6	10
31	Triethylene glycol dimethacrylate impairs bioenergetic functions and induces oxidative stress in mitochondria via inhibiting respiratory Complex I. <i>Dental Materials</i> , <b>2018</b> , 34, e166-e181	5.7	8
30	Human dihydrolipoamide dehydrogenase (E3) deficiency: Novel insights into the structural basis and molecular pathomechanism. <i>Neurochemistry International</i> , <b>2018</b> , 117, 5-14	4.4	17
29	Crystal structures of the disease-causing D444V mutant and the relevant wild type human dihydrolipoamide dehydrogenase. <i>Free Radical Biology and Medicine</i> , <b>2018</b> , 124, 214-220	7.8	8
28	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> , <b>2018</b> , 50, 355-365	3.7	15
27	DNA binding of sunitinib: Spectroscopic evidence via circular dichroism and nuclear magnetic resonance. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 150, 355-361	3.5	9
26	A multipronged approach unravels unprecedented protein-protein interactions in the human 2-oxoglutarate dehydrogenase multienzyme complex. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 19213-19227	5.4	16
25	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> , <b>2016</b> , 1868-2000-2100	6.9	15
24	TP53 mutation hits energy metabolism and increases glycolysis in breast cancer. <i>Oncotarget</i> , <b>2016</b> , 7, 67183-67195	3.3	34
23	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> , <b>2015</b> , 89, 642-50	7.8	38

22	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> , <b>2015</b> , 2, 50-56	2.2	7
21	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> , <b>2014</b> , 289, 29859-73	5.4	36
20	Measurement of ROS homeostasis in isolated mitochondria. <i>Methods in Enzymology</i> , <b>2014</b> , 547, 199-223	1.7	14
19	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> , <b>2013</b> , 538, 145-55	4.1	22
18	Stimulation of reactive oxygen species generation by disease-causing mutations of lipoamide dehydrogenase. <i>Human Molecular Genetics</i> , <b>2011</b> , 20, 2984-95	5.6	40
17	A re-evaluation of the role of matrix acidification in uncoupler-induced Ca <sup>2+</sup> release from mitochondria. <i>FEBS Journal</i> , <b>2009</b> , 276, 2713-24	5.7	13
16	Inhibition of the alpha-ketoglutarate dehydrogenase-mediated reactive oxygen species generation by lipoic acid. <i>Journal of Neurochemistry</i> , <b>2009</b> , 109 Suppl 1, 222-9	6	45
15	Refolding of the human dihydrolipoamide dehydrogenase. <i>Biochemical Engineering Journal</i> , <b>2009</b> , 45, 120-125	4.2	9
14	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> , <b>2009</b> , 131, 6102-4	16.4	36
13	Periplasmic cold expression and one-step purification of human dihydrolipoamide dehydrogenase. <i>Protein Expression and Purification</i> , <b>2009</b> , 63, 50-7	2	15
12	Diffusion-ordered nuclear magnetic resonance spectroscopy for analysis of DNA secondary structural elements. <i>Analytical Biochemistry</i> , <b>2007</b> , 367, 56-67	3.1	27
11	Structure of the intramolecular human telomeric G-quadruplex in potassium solution: a novel adenine triple formation. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, 2440-50	20.1	296
10	Human telomeric sequence forms a hybrid-type intramolecular G-quadruplex structure with mixed parallel/antiparallel strands in potassium solution. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, 2723-35	20.1	891
9	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> , <b>2006</b> , 128, 1096-8	16.4	340
8	Oligomerization of nitrophorins. <i>Analytical Biochemistry</i> , <b>2006</b> , 352, 286-95	3.1	17
7	Solution structure of the biologically relevant G-quadruplex element in the human c-MYC promoter. Implications for G-quadruplex stabilization. <i>Biochemistry</i> , <b>2005</b> , 44, 2048-58	3.2	472
6	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> , <b>2005</b> , 342, 246-53	3.1	3
5	Total and semisynthesis and in vitro studies of both enantiomers of 20-fluorocamptothecin. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2005</b> , 15, 4736-40	2.9	15

4	A labile regulatory copper ion lies near the T1 copper site in the multicopper oxidase CueO. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 31958-63	5.4	122
3	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> , <b>2001</b> , 268, 6229-37		19
2	Calcium binding of transglutaminases: a <sup>43</sup> Ca NMR study combined with surface polarity analysis. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2001</b> , 19, 59-74	3.6	28
1	Polyethylene glycol enhanced refolding of the recombinant human tissue transglutaminase. <i>Preparative Biochemistry and Biotechnology</i> , <b>2001</b> , 31, 59-70	2.4	7