

Vitalia V Kulikova

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Structures of Apo- and Holo-Tyrosine Phenol-lyase Reveal a Catalytically Critical Closed Conformation and Suggest a Mechanism for Activation by K ⁺ Ions. <i>Biochemistry</i> , 2006, 45, 7544-7552.	2.5	28
2	Engineered <i>Citrobacter freundii</i> methionine S-lyase effectively produces antimicrobial thiosulfonates. <i>Biochimie</i> , 2016, 128-129, 92-98.	2.6	23
3	Tryptophan indole-lyase from <i>Proteus vulgaris</i> : kinetic and spectral properties. <i>Biochemistry (Moscow)</i> , 2002, 67, 1189-1196.	1.5	19
4	Role of Aspartate-133 and Histidine-458 in the Mechanism of Tryptophan Indole-Lyase from <i>Proteus vulgaris</i> . <i>Biochemistry</i> , 2003, 42, 11161-11169.	2.5	19
5	Alliin is a suicide substrate of <i>Citrobacter freundii</i> methionine S-lyase: structural bases of inactivation of the enzyme. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 3034-3042.	2.5	16
6	Non-stereoselective decomposition of (R/S)-S-alk(en)yl-L-cysteine sulfoxides to antibacterial thiosulfonates catalyzed by C115H mutant methionine S-lyase from <i>Citrobacter freundii</i> . <i>Biochimie</i> , 2018, 151, 42-44.	2.6	14
7	Gene cloning, characterization, and cytotoxic activity of methionine S-lyase from <i>Clostridium novyi</i> . <i>IUBMB Life</i> , 2017, 69, 668-676.	3.4	12
8	Mutant form C115H of <i>Clostridium sporogenes</i> methionine S-lyase efficiently cleaves S-alk(en)yl-L-cysteine sulfoxides to antibacterial thiosulfonates. <i>IUBMB Life</i> , 2016, 68, 830-835.	3.4	11
9	Engineering methionine S-lyase from <i>Citrobacter freundii</i> for anticancer activity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 1260-1270.	2.3	11
10	Aspartic acid 214 in <i>Citrobacter freundii</i> tyrosine phenol-lyase ensures sufficient C ^α -H-acidity of the external aldimine intermediate and proper orientation of the cofactor at the active site. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 1268-1276.	2.3	10
11	Methionine S-lyase in enzyme prodrug therapy: An improvement of pharmacokinetic parameters of the enzyme. <i>International Journal of Biological Macromolecules</i> , 2019, 140, 1277-1283.	7.5	10
12	Role of Arginine 226 in the Mechanism of Tryptophan Indole-Lyase from <i>Proteus vulgaris</i> . <i>Biochemistry (Moscow)</i> , 2003, 68, 1181-1188.	1.5	9
13	Structure of methionine S-lyase from <i>Clostridium sporogenes</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2016, 72, 65-71.	0.8	9
14	Tryptophanase from <i>Proteus vulgaris</i> : The conformational rearrangement in the active site, induced by the mutation of Tyrosine 72 to Phenylalanine, and its mechanistic consequences. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 750-757.	2.3	8
15	Soluble and Nanoporous Silica Gel-Entrapped <i>C. freundii</i> Methionine S-Lyase. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 2210-2219.	0.9	8
16	Identification of O ⁶ -acetylhomoserine sulfhydrylase, a putative enzyme responsible for methionine biosynthesis in <i>Clostridioides difficile</i> : Gene cloning and biochemical characterizations. <i>IUBMB Life</i> , 2019, 71, 1815-1823.	3.4	8
17	Stereospecificity of isotopic exchange of C ^α -protons of glycine catalyzed by three PLP-dependent lyases: the unusual case of tyrosine phenol-lyase. <i>Amino Acids</i> , 2011, 41, 1247-1256.	2.7	7
18	Encapsulated Methionine S-Lyase: Application in Enzyme Prodrug Therapy of <i>Pseudomonas aeruginosa</i> Infection. <i>ACS Omega</i> , 2020, 5, 7782-7786.	3.5	6

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19	Serine 51 residue of <i>Citrobacter freundii</i> tyrosine phenol-lyase assists in C-H α -proton abstraction and transfer in the reaction with substrate. <i>Biochimie</i> , 2018, 147, 63-69.	2.6	5
20	Crystal structure of mutant form Cys115His of <i>Citrobacter freundii</i> methionine $\hat{\text{I}}^3$ -lyase complexed with l-norleucine. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 1123-1128.	2.3	4
21	O-acetylhomoserine sulfhydrylase from <i>Clostridium novyi</i> . Cloning, expression of the gene and characterization of the enzyme. <i>Protein Expression and Purification</i> , 2021, 180, 105810.	1.3	4
22	Kinetic and pharmacokinetic characteristics of therapeutic methionine $\hat{\text{I}}^3$ -lyase encapsulated in polyion complex vesicles. <i>Biochimie</i> , 2022, 194, 13-18.	2.6	4
23	Characteristics and Stability Assessment of Therapeutic Methionine $\hat{\text{I}}^3$ -lyase-Loaded Polyionic Vesicles. <i>ACS Omega</i> , 2022, 7, 959-967.	3.5	4
24	Sulfoxides of sulfur-containing amino acids are suicide substrates of <i>Citrobacter freundii</i> methionine $\hat{\text{I}}^3$ -lyase. Structural bases of the enzyme inactivation. <i>Biochimie</i> , 2020, 168, 190-197.	2.6	1