

Natalya V Anufrieva

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Kinetic and spectral parameters of interaction of <i>Citrobacter freundii</i> methionine \hat{I}^3 -lyase with amino acids. <i>Biochemistry (Moscow)</i> , 2010, 75, 1272-1280.	1.5	31
2	Engineered <i>Citrobacter freundii</i> methionine \hat{I}^3 -lyase effectively produces antimicrobial thiosulfonates. <i>Biochimie</i> , 2016, 128-129, 92-98.	2.6	23
3	Crystal structure of the external aldimine of <i>Citrobacter freundii</i> methionine \hat{I}^3 -lyase with glycine provides insight in mechanisms of two stages of physiological reaction and isotope exchange of \hat{I}^{\pm} - and \hat{I}^2 -protons of competitive inhibitors. <i>Biochimie</i> , 2014, 101, 161-167.	2.6	19
4	Pre-steady-state Kinetic and Structural Analysis of Interaction of Methionine \hat{I}^3 -Lyase from <i>Citrobacter freundii</i> with Inhibitors. <i>Journal of Biological Chemistry</i> , 2015, 290, 671-681.	3.4	19
5	Alliin is a suicide substrate of <i>Citrobacter freundii</i> methionine \hat{I}^3 -lyase: structural bases of inactivation of the enzyme. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 3034-3042.	2.5	16
6	Identification of methionine \hat{I}^3 -lyase in genomes of some pathogenic bacteria. <i>Doklady Biochemistry and Biophysics</i> , 2012, 445, 187-193.	0.9	15
7	Non-stereoselective decomposition of (\hat{A}^{\pm})-S-alk(en)yl-L-cysteine sulfoxides to antibacterial thiosulfonates catalyzed by C115H mutant methionine \hat{I}^3 -lyase from <i>Citrobacter freundii</i> . <i>Biochimie</i> , 2018, 151, 42-44.	2.6	14
8	The role of active site tyrosine 58 in <i>Citrobacter freundii</i> methionine \hat{I}^3 -lyase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1220-1228.	2.3	13
9	Plasma methionine depletion and pharmacokinetic properties in mice of methionine \hat{I}^3 -lyase from <i>Citrobacter freundii</i> , <i>Clostridium tetani</i> and <i>Clostridium sporogenes</i> . <i>Biomedicine and Pharmacotherapy</i> , 2017, 88, 978-984.	5.6	13
10	Gene cloning, characterization, and cytotoxic activity of methionine \hat{I}^3 -lyase from <i>Clostridium novyi</i> . <i>IUBMB Life</i> , 2017, 69, 668-676.	3.4	12
11	Mutant form C115H of <i>Clostridium sporogenes</i> methionine \hat{I}^3 -lyase efficiently cleaves S-Alk(en)yl-L-cysteine sulfoxides to antibacterial thiosulfonates. <i>IUBMB Life</i> , 2016, 68, 830-835.	3.4	11
12	Methionine \hat{I}^3 -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
13	Structure of methionine \hat{I}^3 -lyase from <i>Clostridium sporogenes</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2016, 72, 65-71.	0.8	9
14	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
15	Encapsulated Methionine \hat{I}^3 -Lyase: Application in Enzyme Prodrug Therapy of <i>Pseudomonas aeruginosa</i> Infection. <i>ACS Omega</i> , 2020, 5, 7782-7786.	3.5	6
16	Serine 51 residue of <i>Citrobacter freundii</i> tyrosine phenol-lyase assists in C- \hat{I}^{\pm} -proton abstraction and transfer in the reaction with substrate. <i>Biochimie</i> , 2018, 147, 63-69.	2.6	5
17	NMR screening of potential inhibitors of methionine \hat{I}^3 -lyase from <i>Citrobacter freundii</i> . <i>Molecular Biology</i> , 2014, 48, 896-905.	1.3	4
18	Crystal structure of mutant form Cys115His of <i>Citrobacter freundii</i> methionine \hat{I}^3 -lyase complexed with L-norleucine. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 1123-1128.	2.3	4

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19	O-acetylhomoserine sulphydrylase 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
20	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
21	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
22	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
23	Analyses of pre-steady-state kinetics and isotope effects of the $\hat{\text{I}}^3$ -elimination reaction catalyzed by <i>Citrobacter freundii</i> methionine $\hat{\text{I}}^3$ -lyase. <i>Biochimie</i> , 2022, 201, 157-167.	2.6	1
24	USE OF PYRIDOXINE TO INCREASE ANTICACNER ACTIVITY OF METHIONINE-GAMMA-LYASE IN MURINE CANCER MODELS. <i>Siberian Journal of Oncology</i> , 2017, 16, 27-35.	0.3	0