

# Mamoru Yamanishi

## List of Publications by Year in descending order

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papers

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430874

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526287

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times ranked

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#	ARTICLE	IF	CITATIONS
1	A Genome-Wide Activity Assessment of Terminator Regions in <i>Saccharomyces cerevisiae</i> Provides a <sup>3</sup> Terminatome <sup>3</sup> Toolbox. ACS Synthetic Biology, 2013, 2, 337-347.	3.8	117
2	The crystal structure of coenzyme B <sub>12</sub> -dependent glycerol dehydratase in complex with cobalamin and propane-1,2-diol. FEBS Journal, 2002, 269, 4484-4494.	0.2	98
3	Spectroscopic Evidence for the Formation of a Four-Coordinate Co <sup>2+</sup> Cobalamin Species upon Binding to the Human ATP:Cobalamin Adenosyltransferase. Journal of the American Chemical Society, 2005, 127, 7660-7661.	13.7	94
4	Evidence for Axial Coordination of 5,6-Dimethylbenzimidazole to the Cobalt Atom of Adenosylcobalamin Bound to Diol Dehydratase. Biochemistry, 1998, 37, 4799-4803.	2.5	71
5	Mirror $\alpha$ -Base-off $\alpha$ -Conformation of Coenzyme B <sub>12</sub> in Human Adenosyltransferase and Its Downstream Target, Methylmalonyl-CoA Mutase. Journal of the American Chemical Society, 2005, 127, 526-527.	13.7	53
6	Adenosyltransferase: an enzyme and an escort for coenzyme B <sub>12</sub> ?. Trends in Biochemical Sciences, 2005, 30, 304-308.	7.5	39
7	Structural Rationalization for the Lack of Stereospecificity in Coenzyme B <sub>12</sub> -dependent Diol Dehydratase. Journal of Biological Chemistry, 2003, 278, 22717-22725.	3.4	38
8	Redesign of coenzyme B <sub>12</sub> dependent diol dehydratase to be resistant to the mechanism-based inactivation by glycerol and act on longer chain 1,2-diols. FEBS Journal, 2012, 279, 793-804.	4.7	35
9	Characterization of five terminator regions that increase the protein yield of a transgene in <i>Saccharomyces cerevisiae</i> . Journal of Biotechnology, 2013, 168, 486-492.	3.8	35
10	Enhancement of protein production via the strong DIT1 terminator and two RNA-binding proteins in <i>Saccharomyces cerevisiae</i> . Scientific Reports, 2016, 6, 36997.	3.3	33
11	Release of a Damaged Cofactor from a Coenzyme B <sub>12</sub> -Dependent Enzyme: X-Ray Structures of Diol Dehydratase-Reactivating Factor. Structure, 2005, 13, 1745-1754.	3.3	31
12	Identification of the 1,2-Propanediol-1-yl Radical as an Intermediate in Adenosylcobalamin-Dependent Diol Dehydratase Reaction. Biochemistry, 2005, 44, 2113-2118.	2.5	28
13	A Modified Cre- <i>lox</i> Genetic Switch To Dynamically Control Metabolic Flow in <i>Saccharomyces cerevisiae</i> . ACS Synthetic Biology, 2012, 1, 172-180.	3.8	26
14	<i>TPS1</i> Terminator Increases mRNA and Protein Yield in a <i>Saccharomyces cerevisiae</i> Expression System. Bioscience, Biotechnology and Biochemistry, 2011, 75, 2234-2236.	1.3	25
15	Histidine-143 Assists 1,2-Hydroxyl Group Migration and Protects Radical Intermediates in Coenzyme B <sub>12</sub> -Dependent Diol Dehydratase. Biochemistry, 2008, 47, 3162-3173.	2.5	22
16	Structural insights into pathogenic mutations in heme-dependent cystathionine- $\beta$ -synthase. Journal of Inorganic Biochemistry, 2006, 100, 1988-1995.	3.5	21
17	A Highly Tunable System for the Simultaneous Expression of Multiple Enzymes in <i>Saccharomyces cerevisiae</i> . ACS Synthetic Biology, 2015, 4, 12-16.	3.8	20
18	Survey of Catalytic Residues and Essential Roles of Glutamate-170 and Aspartate-335 in Coenzyme B <sub>12</sub> -dependent Diol Dehydratase. Journal of Biological Chemistry, 2006, 281, 18327-18334.	3.4	19

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19	Mapping Peptides Correlated with Transmission of Intrasteric Inhibition and Allosteric Activation in Human Cystathionine Î²-Synthase. <i>Biochemistry</i> , 2005, 44, 14210-14216.	2.5	16
20	Purification and some properties of wild-type and N-terminal-truncated ethanolamine ammonia-lyase of <i>Escherichia coli</i> . <i>Journal of Biochemistry</i> , 2010, 147, 83-93.	1.7	16
21	Mechanism-based Inactivation of Coenzyme B12-dependent Diol Dehydratase by 3-Unsaturated 1,2-Diols and Thioglycerol. <i>Journal of Biochemistry</i> , 2008, 144, 437-446.	1.7	15
22	Functions of the D-Ribosyl Moiety and the Lower Axial Ligand of the Nucleotide Loop of Coenzyme B12 in Diol Dehydratase and Ethanolamine Ammonia-lyase Reactions. <i>Journal of Biochemistry</i> , 2002, 132, 935-943.	1.7	12
23	Improvement of galactose induction system in <i>Saccharomyces cerevisiae</i> . <i>Journal of Bioscience and Bioengineering</i> , 2011, 111, 175-177.	2.2	11
24	An electron paramagnetic resonance study on the mechanism-based inactivation of adenosylcobalamin-dependent diol dehydrase by glycerol and other substrates. <i>BBA - Proteins and Proteomics</i> , 1997, 1337, 11-16.	2.1	6
25	Combinatorial Screening for Transgenic Yeasts with High Cellulase Activities in Combination with a Tunable Expression System. <i>PLoS ONE</i> , 2015, 10, e0144870.	2.5	6
26	Crystallization and preliminary X-ray analysis of molecular chaperone-like diol dehydratase-reactivating factor in ADP-bound and nucleotide-free forms. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 603-605.	0.7	4
27	Coenzyme B12-dependent eliminases: Diol and glycerol dehydratases and ethanolamine ammonia-lyase. <i>Methods in Enzymology</i> , 2022, 668, 181-242.	1.0	1