

# Michiko E Taga

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

4,301  
citations

279798

23  
h-index

276875

41  
g-index

49  
all docs

49  
docs citations

49  
times ranked

4483  
citing authors

#	ARTICLE	IF	CITATIONS
1	Purification and detection of vitamin B12 analogs. <i>Methods in Enzymology</i> , 2022, 668, 61-85.	1.0	8
2	Naturally occurring cobalamin (B12) analogs can function as cofactors for human methylmalonyl-CoA mutase. <i>Biochimie</i> , 2021, 183, 35-43.	2.6	14
3	Soil Candidate Phyla Radiation Bacteria Encode Components of Aerobic Metabolism and Co-occur with Nanoarchaea in the Rare Biosphere of Rhizosphere Grassland Communities. <i>MSystems</i> , 2021, 6, e0120520.	3.8	24
4	Multi-faceted approaches to discovering and predicting microbial nutritional interactions. <i>Current Opinion in Biotechnology</i> , 2020, 62, 58-64.	6.6	14
5	Emergence of Metabolite Provisioning as a By-Product of Evolved Biological Functions. <i>MSystems</i> , 2020, 5, .	3.8	15
6	Taking the "Meat" out of meat: A new demethylation pathway dismantles a toxin's precursor. <i>Journal of Biological Chemistry</i> , 2020, 295, 11982-11983.	3.4	1
7	Identification of a Novel Cobamide Remodeling Enzyme in the Beneficial Human Gut Bacterium <i>Akkermansia muciniphila</i> . <i>MBio</i> , 2020, 11, .	4.1	18
8	Sharing vitamins: Cobamides unveil microbial interactions. <i>Science</i> , 2020, 369, .	12.6	112
9	Cobamides. <i>Current Biology</i> , 2020, 30, R55-R56.	3.9	9
10	Flexible Cobamide Metabolism in <i>Clostridioides</i> ( <i>Clostridium</i> ) <i>difficile</i> 630 <sup>†</sup> <i>erm</i> . <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	13
11	Cofactor Selectivity in Methylmalonyl Coenzyme A Mutase, a Model Cobamide-Dependent Enzyme. <i>MBio</i> , 2019, 10, .	4.1	27
12	Uneven distribution of cobamide biosynthesis and dependence in bacteria predicted by comparative genomics. <i>ISME Journal</i> , 2019, 13, 789-804.	9.8	162
13	Unique Biochemical and Sequence Features Enable BluB To Destroy Flavin and Distinguish BluB from the Flavin Monooxygenase Superfamily. <i>Biochemistry</i> , 2018, 57, 1748-1757.	2.5	5
14	HM2-phage resistant solventogenic <i>Clostridium saccharoperbutylacetonicum</i> N1-4 shows increased exopolysaccharide production. <i>FEMS Microbiology Letters</i> , 2017, 364, .	1.8	4
15	<i>S. inorhizobium fredii</i> HH103 bacteroids are not terminally differentiated and show altered O-antigen in nodules of the Inverted Repeat-Lacking Clade legume <i>Glycyrrhiza uralensis</i> . <i>Environmental Microbiology</i> , 2016, 18, 2392-2404.	3.8	34
16	Decoding molecular interactions in microbial communities. <i>FEMS Microbiology Reviews</i> , 2016, 40, 648-663.	8.6	71
17	Identification of specific corrinoids reveals corrinoid modification in dechlorinating microbial communities. <i>Environmental Microbiology</i> , 2015, 17, 4873-4884.	3.8	57
18	Anaerobic 5-Hydroxybenzimidazole Formation from Aminoimidazole Ribotide: An Unanticipated Intersection of Thiamin and Vitamin B <sub>12</sub> Biosynthesis. <i>Journal of the American Chemical Society</i> , 2015, 137, 10444-10447.	13.7	27

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19	Anaerobic biosynthesis of the lower ligand of vitamin B <sub>12</sub> . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10792-10797.	7.1	91
20	Sustainable Growth of Dehalococcoides mccartyi 195 by Corrinoid Salvaging and Remodeling in Defined Lactate-Fermenting Consortia. Applied and Environmental Microbiology, 2014, 80, 2133-2141.	3.1	63
21	Nutrient cross-feeding in the microbial world. Frontiers in Microbiology, 2014, 5, 350.	3.5	261
22	A bioassay for the detection of benzimidazoles reveals their presence in a range of environmental samples. Frontiers in Microbiology, 2014, 5, 592.	3.5	19
23	Regiospecific Formation of Cobamide Isomers Is Directed by CobT. Biochemistry, 2014, 53, 7805-7815.	2.5	19
24	Vitamin B <sub>12</sub> as a Modulator of Gut Microbial Ecology. Cell Metabolism, 2014, 20, 769-778.	16.2	356
25	Human Gut Microbes Use Multiple Transporters to Distinguish Vitamin B <sub>12</sub> Analogs and Compete in the Gut. Cell Host and Microbe, 2014, 15, 47-57.	11.0	225
26	Cobamide Structure Depends on Both Lower Ligand Availability and CobT Substrate Specificity. Chemistry and Biology, 2013, 20, 1265-1274.	6.0	66
27	Growth Inhibition of Sporomusa ovata by Incorporation of Benzimidazole Bases into Cobamides. Journal of Bacteriology, 2013, 195, 1902-1911.	2.2	53
28	Analysis of Substrate Specificity in CobT Homologs Reveals Widespread Preference for DMB, the Lower Axial Ligand of Vitamin B <sub>12</sub> . Chemistry and Biology, 2013, 20, 1275-1285.	6.0	48
29	Versatility in Corrinoid Salvaging and Remodeling Pathways Supports Corrinoid-Dependent Metabolism in Dehalococcoides mccartyi. Applied and Environmental Microbiology, 2012, 78, 7745-7752.	3.1	116
30	Active site residues critical for flavin binding and 5,6-dimethylbenzimidazole biosynthesis in the flavin destructase enzyme BluB. Protein Science, 2012, 21, 839-849.	7.6	11
31	Methods for Analysis of Bacterial Autoinducer-2 Production. Current Protocols in Microbiology, 2011, 23, Unit1C.1.	6.5	51
32	<i>Sinorhizobium meliloti</i> Requires a Cobalamin-Dependent Ribonucleotide Reductase for Symbiosis With Its Plant Host. Molecular Plant-Microbe Interactions, 2010, 23, 1643-1654.	2.6	54
33	The LuxS-dependent autoinducer AI-2 controls the expression of an ABC transporter that functions in AI-2 uptake in Salmonella typhimurium. Molecular Microbiology, 2008, 42, 777-793.	2.5	319
34	<i>Sinorhizobium meliloti</i> , a bacterium lacking the autoinducer-2 (AI-2) synthase, responds to AI-2 supplied by other bacteria. Molecular Microbiology, 2008, 70, 1223-1235.	2.5	77
35	Pseudo-B <sub>12</sub> Joins the Cofactor Family. Journal of Bacteriology, 2008, 190, 1157-1159.	2.2	20
36	Bacterial Signal Destruction. ACS Chemical Biology, 2007, 2, 89-92.	3.4	14

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37	How rhizobial symbionts invade plants: the Sinorhizobium "Medicago model. Nature Reviews Microbiology, 2007, 5, 619-633.	28.6	781
38	BluB cannibalizes flavin to form the lower ligand of vitamin B12. Nature, 2007, 446, 449-453.	27.8	160
39	Sinorhizobium meliloti bluB is necessary for production of 5,6-dimethylbenzimidazole, the lower ligand of B12. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4634-4639.	7.1	91
40	Salmonella typhimurium Recognizes a Chemically Distinct Form of the Bacterial Quorum-Sensing Signal AI-2. Molecular Cell, 2004, 15, 677-687.	9.7	502
41	Lsr-mediated transport and processing of AI-2 in <i>Salmonella typhimurium</i> . Molecular Microbiology, 2003, 50, 1411-1427.	2.5	278