

# Margaret E Glasner

## List of Publications by Year in descending order

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24  
papers

3,742  
citations

516215

16  
h-index

610482

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

4284  
citing authors

#	ARTICLE	IF	CITATIONS
1	MicroRNAs Regulate Brain Morphogenesis in Zebrafish. <i>Science</i> , 2005, 308, 833-838.	6.0	1,209
2	Vertebrate MicroRNA Genes. <i>Science</i> , 2003, 299, 1540-1540.	6.0	1,035
3	RNA-Catalyzed RNA Polymerization: Accurate and General RNA-Templated Primer Extension. <i>Science</i> , 2001, 292, 1319-1325.	6.0	680
4	Evolution of enzyme superfamilies. <i>Current Opinion in Chemical Biology</i> , 2006, 10, 492-497.	2.8	209
5	Prediction and assignment of function for a divergent N-succinyl amino acid racemase. <i>Nature Chemical Biology</i> , 2007, 3, 486-491.	3.9	98
6	Evolution of Structure and Function in the o-Succinylbenzoate Synthase/N-Acylamino Acid Racemase Family of the Enolase Superfamily. <i>Journal of Molecular Biology</i> , 2006, 360, 228-250.	2.0	65
7	Discovery of a Dipeptide Epimerase Enzymatic Function Guided by Homology Modeling and Virtual Screening. <i>Structure</i> , 2008, 16, 1668-1677.	1.6	52
8	Evolution of Enzymatic Activities in the Enolase Superfamily: <i>l</i> -Rhamnonate Dehydratase. <i>Biochemistry</i> , 2008, 47, 9944-9954.	1.2	50
9	How enzyme promiscuity and horizontal gene transfer contribute to metabolic innovation. <i>FEBS Journal</i> , 2020, 287, 1323-1342.	2.2	42
10	Metal Ion Requirements for Structure and Catalysis of an RNA Ligase Ribozyme. <i>Biochemistry</i> , 2002, 41, 8103-8112.	1.2	38
11	Evolution of Enzymatic Activities in the Enolase Superfamily: Stereochemically Distinct Mechanisms in Two Families of <i>cis</i> - <i>cis</i> -Muconate Lactonizing Enzymes. <i>Biochemistry</i> , 2009, 48, 1445-1453.	1.2	36
12	Evolution of Enzymatic Activities in the Enolase Superfamily: <i>d</i> -Mannonate Dehydratase from <i>Novosphingobium aromaticivoran</i> . <i>Biochemistry</i> , 2007, 46, 12896-12908.	1.2	35
13	Loss of quaternary structure is associated with rapid sequence divergence in the OSBS family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8535-8540.	3.3	29
14	Target selection and annotation for the structural genomics of the amidohydrolase and enolase superfamilies. <i>Journal of Structural and Functional Genomics</i> , 2009, 10, 107-125.	1.2	25
15	Mechanisms of Protein Evolution and their Application to Protein Engineering. <i>Advances in Enzymology and Related Areas of Molecular Biology</i> , 2010, 75, 193-239.	1.3	25
16	Oxidative opening of the aromatic ring: Tracing the natural history of a large superfamily of dioxygenase domains and their relatives. <i>Journal of Biological Chemistry</i> , 2019, 294, 10211-10235.	1.6	24
17	Recognition of Nucleoside Triphosphates during RNA-Catalyzed Primer Extension. <i>Biochemistry</i> , 2000, 39, 15556-15562.	1.2	17
18	Residues Required for Activity in <i>Escherichia coli</i> o-Succinylbenzoate Synthase (OSBS) Are Not Conserved in All OSBS Enzymes. <i>Biochemistry</i> , 2012, 51, 6171-6181.	1.2	14

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19	Divergent Evolution of Ligand Binding in the <i>o</i> -Succinylbenzoate Synthase Family. <i>Biochemistry</i> , 2013, 52, 7512-7521.	1.2	14
20	Finding enzymes in the gut metagenome. <i>Science</i> , 2017, 355, 577-578.	6.0	13
21	Role of an Active Site Loop in the Promiscuous Activities of <i>Amycolatopsis</i> sp. T-1-60 NSAR/OSBS. <i>Biochemistry</i> , 2014, 53, 4434-4444.	1.2	11
22	Promiscuity of <i>Exiguobacterium</i> sp. AT1b <i>o</i> -succinylbenzoate synthase illustrates evolutionary transitions in the OSBS family. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 679-684.	1.0	10
23	Comparison of <i>Alicyclobacillus acidocaldarius</i> <i>o</i> -Succinylbenzoate Synthase to Its Promiscuous <i>N</i> -Succinylamino Acid Racemase/ <i>o</i> -Succinylbenzoate Synthase Relatives. <i>Biochemistry</i> , 2018, 57, 3676-3689.	1.2	9
24	Second-Shell Amino Acid R266 Helps Determine <i>N</i> -Succinylamino Acid Racemase Reaction Specificity in Promiscuous <i>N</i> -Succinylamino Acid Racemase/ <i>o</i> -Succinylbenzoate Synthase Enzymes. <i>Biochemistry</i> , 2021, 60, 3829-3840.	1.2	2