

# Michelle M Meyer

## List of Publications by Year in descending order

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44  
papers

1,579  
citations

304743

22  
h-index

330143

37  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1673  
citing authors

#	ARTICLE	IF	CITATIONS
1	Library analysis of SCHEMA-guided protein recombination. <i>Protein Science</i> , 2003, 12, 1686-1693.	7.6	138
2	Structure-guided SCHEMA recombination of distantly related $\beta$ -lactamases. <i>Protein Engineering, Design and Selection</i> , 2006, 19, 563-570.	2.1	103
3	Confirmation of a second natural preQ <sub>1</sub> aptamer class in Streptococcaceae bacteria. <i>Rna</i> , 2008, 14, 685-695.	3.5	102
4	Exceptional structured noncoding RNAs revealed by bacterial metagenome analysis. <i>Nature</i> , 2009, 462, 656-659.	27.8	102
5	A variant riboswitch aptamer class for <i>S</i> -adenosylmethionine common in marine bacteria. <i>Rna</i> , 2009, 15, 2046-2056.	3.5	96
6	On the conservative nature of intragenic recombination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5380-5385.	7.1	95
7	Most RNAs regulating ribosomal protein biosynthesis in <i>Escherichia coli</i> are narrowly distributed to Gammaproteobacteria. <i>Nucleic Acids Research</i> , 2013, 41, 3491-3503.	14.5	92
8	Unique glycine-activated riboswitch linked to glycine-serine auxotrophy in SAR11. <i>Environmental Microbiology</i> , 2009, 11, 230-238.	3.8	90
9	<i>Arabidopsis thaliana</i> LUP1 Converts Oxidosqualene to Multiple Triterpene Alcohols and a Triterpene Diol. <i>Organic Letters</i> , 2000, 2, 2257-2259.	4.6	69
10	Directed Evolution To Generate Cycloartenol Synthase Mutants that Produce Lanosterol. <i>Organic Letters</i> , 2002, 4, 1395-1398.	4.6	65
11	Challenges of ligand identification for riboswitch candidates. <i>RNA Biology</i> , 2011, 8, 5-10.	3.1	61
12	Identification of candidate structured RNAs in the marine organism 'Candidatus Pelagibacter ubique'. <i>BMC Genomics</i> , 2009, 10, 268.	2.8	56
13	Steric Bulk at Cycloartenol Synthase Position 481 Influences Cyclization and Deprotonation. <i>Organic Letters</i> , 2000, 2, 2261-2263.	4.6	45
14	Directed Evolution Experiments Reveal Mutations at Cycloartenol Synthase Residue His477 that Dramatically Alter Catalysis. <i>Organic Letters</i> , 2002, 4, 4459-4462.	4.6	44
15	The Transcriptional landscape of <i>Streptococcus pneumoniae</i> TIGR4 reveals a complex operon architecture and abundant riboregulation critical for growth and virulence. <i>PLoS Pathogens</i> , 2018, 14, e1007461.	4.7	37
16	RNA structures regulating ribosomal protein biosynthesis in bacilli. <i>RNA Biology</i> , 2013, 10, 1180-1184.	3.1	36
17	<i>In Vivo</i> Behavior of the Tandem Glycine Riboswitch in <i>Bacillus subtilis</i> . <i>MBio</i> , 2017, 8, .	4.1	36
18	The role of <i>mRNA</i> structure in bacterial translational regulation. <i>Wiley Interdisciplinary Reviews RNA</i> , 2017, 8, e1370.	6.4	33

#	ARTICLE	IF	CITATIONS
19	Cloning and characterization of the Dictyostelium discoideum cycloartenol synthase cDNA. <i>Lipids</i> , 2000, 35, 249-255.	1.7	29
20	Complete RNA inverse folding: computational design of functional hammerhead ribozymes. <i>Nucleic Acids Research</i> , 2014, 42, 11752-11762.	14.5	29
21	Bacterial RNA motif in the 5' UTR of <i>rpsF</i> interacts with an S6:S18 complex. <i>Rna</i> , 2014, 20, 168-176.	3.5	27
22	Heterochromatin assembly and transcriptome repression by Set1 in coordination with a class II histone deacetylase. <i>ELife</i> , 2014, 3, e04506.	6.0	26
23	Scribl: an HTML5 Canvas-based graphics library for visualizing genomic data over the web. <i>Bioinformatics</i> , 2013, 29, 381-383.	4.1	23
24	Discovery and validation of novel and distinct RNA regulators for ribosomal protein S15 in diverse bacterial phyla. <i>BMC Genomics</i> , 2014, 15, 657.	2.8	21
25	An S6:S18 complex inhibits translation of <i>E. coli rpsF</i> . <i>Rna</i> , 2015, 21, 2039-2046.	3.5	19
26	rRNA Mimicry in RNA Regulation of Gene Expression. <i>Microbiology Spectrum</i> , 2018, 6, .	3.0	17
27	Comparative Metatranscriptomics of Periodontitis Supports a Common Polymicrobial Shift in Metabolic Function and Identifies Novel Putative Disease-Associated ncRNAs. <i>Frontiers in Microbiology</i> , 2020, 11, 482.	3.5	16
28	Co-evolution of Bacterial Ribosomal Protein S15 with Diverse mRNA Regulatory Structures. <i>PLoS Genetics</i> , 2015, 11, e1005720.	3.5	15
29	Revisiting the Relationships Between Genomic GC Content, RNA Secondary Structures, and Optimal Growth Temperature. <i>Journal of Molecular Evolution</i> , 2021, 89, 165-171.	1.8	13
30	Recognizing RNA structural motifs in HT-SELEX data for ribosomal protein S15. <i>BMC Bioinformatics</i> , 2017, 18, 298.	2.6	9
31	Fitness advantages conferred by the L20-interacting RNA <i>cis</i> -regulator of ribosomal protein synthesis in <i>Bacillus subtilis</i> . <i>Rna</i> , 2018, 24, 1133-1143.	3.5	9
32	Emerging Frontiers in the Study of Molecular Evolution. <i>Journal of Molecular Evolution</i> , 2020, 88, 211-226.	1.8	8
33	Regulatory context drives conservation of glycine riboswitch aptamers. <i>PLoS Computational Biology</i> , 2019, 15, e1007564.	3.2	6
34	RNA regulators responding to ribosomal protein S15 are frequent in sequence space. <i>Nucleic Acids Research</i> , 2016, 44, gkw754.	14.5	5
35	Sampled ensemble neutrality as a feature to classify potential structured RNAs. <i>BMC Genomics</i> , 2015, 16, 35.	2.8	3
36	Siblings or doppelgangers? Deciphering the evolution of structured cis-regulatory RNAs beyond homology. <i>Biochemical Society Transactions</i> , 2020, 48, 1941-1951.	3.4	3

#	ARTICLE	IF	CITATIONS
37	Debating tRNA Origins. Journal of Molecular Evolution, 2020, 88, 227-227.	1.8	1
38	rRNA Mimicry in RNA Regulation of Gene Expression. , 2018, , 101-116.		0
39	The Impact of mRNA Structures Regulating Transcription Attenuation on Bacterial Fitness. FASEB Journal, 2015, 29, 711.14.	0.5	0
40	2021 Zuckerkandl Prize. Journal of Molecular Evolution, 2022, 90, 1-1.	1.8	0
41	Regulatory context drives conservation of glycine riboswitch aptamers. , 2019, 15, e1007564.		0
42	Regulatory context drives conservation of glycine riboswitch aptamers. , 2019, 15, e1007564.		0
43	Regulatory context drives conservation of glycine riboswitch aptamers. , 2019, 15, e1007564.		0
44	Regulatory context drives conservation of glycine riboswitch aptamers. , 2019, 15, e1007564.		0