

# Matthew L Bochman

## List of Publications by Year in descending order

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43  
papers

3,306  
citations

394421

19  
h-index

289244

40  
g-index

77  
all docs

77  
docs citations

77  
times ranked

3684  
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA secondary structures: stability and function of G-quadruplex structures. <i>Nature Reviews Genetics</i> , 2012, 13, 770-780.	16.3	1,162
2	Pif1 family helicases suppress genome instability at G-quadruplex motifs. <i>Nature</i> , 2013, 497, 458-462.	27.8	403
3	The Mcm Complex: Unwinding the Mechanism of a Replicative Helicase. <i>Microbiology and Molecular Biology Reviews</i> , 2009, 73, 652-683.	6.6	271
4	The Mcm2-7 Complex Has In Vitro Helicase Activity. <i>Molecular Cell</i> , 2008, 31, 287-293.	9.7	269
5	Unwinding the functions of the Pif1 family helicases. <i>DNA Repair</i> , 2010, 9, 237-249.	2.8	188
6	Periodic DNA patrolling underlies diverse functions of Pif1 on R-loops and G-rich DNA. <i>ELife</i> , 2014, 3, e02190.	6.0	143
7	Subunit Organization of Mcm2-7 and the Unequal Role of Active Sites in ATP Hydrolysis and Viability. <i>Molecular and Cellular Biology</i> , 2008, 28, 5865-5873.	2.3	104
8	Primary souring: A novel bacteria-free method for sour beer production. <i>Food Microbiology</i> , 2018, 70, 76-84.	4.2	102
9	Differences in the Single-stranded DNA Binding Activities of MCM2-7 and MCM467. <i>Journal of Biological Chemistry</i> , 2007, 282, 33795-33804.	3.4	65
10	The Pif1 family in prokaryotes: what are our helicases doing in your bacteria?. <i>Molecular Biology of the Cell</i> , 2011, 22, 1955-1959.	2.1	56
11	The <i>Saccharomyces cerevisiae</i> Mcm6/2 and Mcm5/3 ATPase active sites contribute to the function of the putative Mcm2-7 "gate"™. <i>Nucleic Acids Research</i> , 2010, 38, 6078-6088.	14.5	54
12	Hrq1, a Homolog of the Human RecQ4 Helicase, Acts Catalytically and Structurally to Promote Genome Integrity. <i>Cell Reports</i> , 2014, 6, 346-356.	6.4	47
13	Ciprofloxacin is an inhibitor of the Mcm2-7 replicative helicase. <i>Bioscience Reports</i> , 2013, 33, .	2.4	43
14	Yeast Hrq1 shares structural and functional homology with the disease-linked human RecQ4 helicase. <i>Nucleic Acids Research</i> , 2017, 45, 5217-5230.	14.5	43
15	Terminal acidic shock inhibits sour beer bottle conditioning by <i>Saccharomyces cerevisiae</i> . <i>Food Microbiology</i> , 2016, 57, 151-158.	4.2	41
16	ComM is a hexameric helicase that promotes branch migration during natural transformation in diverse Gram-negative species. <i>Nucleic Acids Research</i> , 2018, 46, 6099-6111.	14.5	39
17	The WYL Domain of the PIF1 Helicase from the Thermophilic Bacterium <i>Thermotoga elfii</i> is an Accessory Single-Stranded DNA Binding Module. <i>Biochemistry</i> , 2018, 57, 1108-1118.	2.5	32
18	Roles of DNA helicases in the maintenance of genome integrity. <i>Molecular and Cellular Oncology</i> , 2014, 1, e963429.	0.7	31

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19	The <i>Saccharomyces cerevisiae</i> Hrq1 and Pif1 DNA helicases synergistically modulate telomerase activity in vitro. <i>Journal of Biological Chemistry</i> , 2018, 293, 14481-14496.	3.4	23
20	Two Novel Strains of <i>Torulasporea delbrueckii</i> Isolated from the Honey Bee Microbiome and Their Use in Honey Fermentation. <i>Fermentation</i> , 2018, 4, 22.	3.0	20
21	<i>Saccharomyces cerevisiae</i> Hrq1 helicase activity is affected by the sequence but not the length of single-stranded DNA. <i>Biochemical and Biophysical Research Communications</i> , 2017, 486, 1116-1121.	2.1	19
22	Fanconi anemia-independent DNA inter-strand crosslink repair in eukaryotes. <i>Progress in Biophysics and Molecular Biology</i> , 2020, 158, 33-46.	2.9	16
23	The Biochemical Activities of the <i>Saccharomyces cerevisiae</i> Pif1 Helicase Are Regulated by Its N-Terminal Domain. <i>Genes</i> , 2019, 10, 411.	2.4	15
24	An organoleptic survey of meads made with lactic acid-producing yeasts. <i>Food Microbiology</i> , 2019, 82, 398-408.	4.2	14
25	Lysine acetylation regulates the activity of nuclear Pif1. <i>Journal of Biological Chemistry</i> , 2020, 295, 15482-15497.	3.4	13
26	The yeast Hrq1 helicase stimulates Pso2 translesion nuclease activity and thereby promotes DNA interstrand crosslink repair. <i>Journal of Biological Chemistry</i> , 2020, 295, 8945-8957.	3.4	12
27	Thin-Layer Chromatography and Real-Time Coupled Assays to Measure ATP Hydrolysis. <i>Methods in Molecular Biology</i> , 2019, 1999, 245-253.	0.9	8
28	Mixed-Culture Metagenomics of the Microbes Making Sour Beer. <i>Fermentation</i> , 2021, 7, 174.	3.0	8
29	Strand separation unravelled. <i>Nature</i> , 2015, 524, 166-167.	27.8	7
30	Promoter Boundaries for the <i>luxCDABE</i> and <i>betIBA-proXWV</i> Operons in <i>Vibrio harveyi</i> Defined by the Method Rapid Arbitrary PCR Insertion Libraries (RAIL). <i>Journal of Bacteriology</i> , 2018, 200, .	2.2	6
31	Dynamic regulation of Pif1 acetylation is crucial to the maintenance of genome stability. <i>Current Genetics</i> , 2021, 67, 85-92.	1.7	6
32	Isolation of wild yeasts from Olympic National Park and <i>Moniliella megachiliensis</i> ONP131 physiological characterization for beer fermentation. <i>Food Microbiology</i> , 2022, 104, 103974.	4.2	6
33	Comprehensive Synthetic Genetic Array Analysis of Alleles That Interact with Mutation of the <i>Saccharomyces cerevisiae</i> RecQ Helicases Hrq1 and Sgs1. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 4359-4368.	1.8	5
34	The Genetic and Physical Interactomes of the <i>Saccharomyces cerevisiae</i> Hrq1 Helicase. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 4347-4357.	1.8	4
35	Characterization of the telomerase modulating activities of yeast DNA helicases. <i>Methods in Enzymology</i> , 2021, 661, 327-342.	1.0	3
36	Gel-Based Assays for Measuring DNA Unwinding, Annealing, and Strand Exchange. <i>Methods in Molecular Biology</i> , 2019, 1999, 255-264.	0.9	2

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37	A deep dive into the RecQ interactome: something old and something new. <i>Current Genetics</i> , 2021, 67, 761-767.	1.7	2
38	Pif1 Activity is Modulated by DNA Sequence and Structure. <i>Biochemistry</i> , 2022, 61, 10-20.	2.5	2
39	Genetic and biochemical interactions of yeast DNA helicases. <i>Methods</i> , 2022, 204, 234-240.	3.8	2
40	Overcoming stochastic variations in culture variables to quantify and compare growth curve data. <i>BioEssays</i> , 2021, 43, e2100108.	2.5	1
41	Pif1 helicases: helping replication forks maneuver past replication barriers. <i>FASEB Journal</i> , 2013, 27, 95.1.	0.5	0
42	RecQ4 helicases stimulate nuclease activity during DNA interstrand crosslink repair.. <i>FASEB Journal</i> , 2018, 32, 522.1.	0.5	0
43	Bulk phase biochemistry of PIF1 and RecQ4 family helicases. <i>Methods in Enzymology</i> , 2022, , .	1.0	0