

# Larry Mark Fisher

## List of Publications by Citations

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47  
papers

2,462  
citations

27  
h-index

49  
g-index

52  
ext. papers

2,673  
ext. citations

10.3  
avg, IF

4.46  
L-index

#	Paper	IF	Citations
47	Structural insight into the quinolone-DNA cleavage complex of type IIA topoisomerases. <i>Nature Structural and Molecular Biology</i> , <b>2009</b> , 16, 667-9	17.6	214
46	Mycobacterium tuberculosis DNA gyrase: interaction with quinolones and correlation with antimycobacterial drug activity. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2004</b> , 48, 1281-8	5.9	189
45	DNA gyrase and topoisomerase IV are dual targets of clinafloxacin action in Streptococcus pneumoniae. <i>Antimicrobial Agents and Chemotherapy</i> , <b>1998</b> , 42, 2810-6	5.9	185
44	Novel gyrase mutations in quinolone-resistant and -hypersusceptible clinical isolates of Mycobacterium tuberculosis: functional analysis of mutant enzymes. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2006</b> , 50, 104-12	5.9	160
43	Structural basis of gate-DNA breakage and resealing by type II topoisomerases. <i>PLoS ONE</i> , <b>2010</b> , 5, e11338	3.7	127
42	Streptococcus pneumoniae DNA gyrase and topoisomerase IV: overexpression, purification, and differential inhibition by fluoroquinolones. <i>Antimicrobial Agents and Chemotherapy</i> , <b>1999</b> , 43, 1129-36	5.9	109
41	DNase I hypersensitive sites in the chromatin of human mu immunoglobulin heavy-chain genes. <i>Nature</i> , <b>1983</b> , 306, 809-12	50.4	108
40	Engineering the specificity of antibacterial fluoroquinolones: benzenesulfonamide modifications at C-7 of ciprofloxacin change its primary target in Streptococcus pneumoniae from topoisomerase IV to gyrase. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2000</b> , 44, 320-5	5.9	87
39	Interaction of bleomycin A2 with deoxyribonucleic acid: DNA unwinding and inhibition of bleomycin-induced DNA breakage by cationic thiazole amides related to bleomycin A2. <i>Biochemistry</i> , <b>1985</b> , 24, 3199-207	3.2	83
38	Expression, domain structure, and enzymatic properties of an active recombinant human DNA topoisomerase II beta. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 15739-46	5.4	81
37	Probing the differential interactions of quinazolidinedione PD 0305970 and quinolones with gyrase and topoisomerase IV. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2009</b> , 53, 3822-31	5.9	74
36	First functional characterization of a singly expressed bacterial type II topoisomerase: the enzyme from Mycobacterium tuberculosis. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 348, 1583-5	3.4	69
35	Potent antipneumococcal activity of gemfloxacin is associated with dual targeting of gyrase and topoisomerase IV, an in vivo target preference for gyrase, and enhanced stabilization of cleavable complexes in vitro. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2000</b> , 44, 3112-7	5.9	69
34	Target specificity of the new fluoroquinolone besifloxacin in Streptococcus pneumoniae, Staphylococcus aureus and Escherichia coli. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2009</b> , 63, 443-50	5.1	60
33	Quinolone resistance mutations in Streptococcus pneumoniae GyrA and ParC proteins: mechanistic insights into quinolone action from enzymatic analysis, intracellular levels, and phenotypes of wild-type and mutant proteins. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2001</b> , 45, 3140-7	5.9	56
32	Complementation of temperature-sensitive topoisomerase II mutations in Saccharomyces cerevisiae by a human TOP2 beta construct allows the study of topoisomerase II beta inhibitors in yeast. <i>Cancer Chemotherapy and Pharmacology</i> , <b>1997</b> , 39, 367-75	3.5	52
31	Energetics of proline racemase: racemization of unlabeled proline in the unsaturated, saturated, and oversaturated regimes. <i>Biochemistry</i> , <b>1986</b> , 25, 2529-37	3.2	51

30	Cleavable-complex formation by wild-type and quinolone-resistant <i>Streptococcus pneumoniae</i> type II topoisomerases mediated by gemifloxacin and other fluoroquinolones. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2002</b> , 46, 413-9	5.9	47
29	Small-colony mutants of <i>Staphylococcus aureus</i> allow selection of gyrase-mediated resistance to dual-target fluoroquinolones. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2002</b> , 46, 2498-506	5.9	42
28	Structure of an [open] clamp type II topoisomerase-DNA complex provides a mechanism for DNA capture and transport. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, 9911-23	20.1	41
27	Identification of yeast DNA topoisomerase II mutants resistant to the antitumor drug doxorubicin: implications for the mechanisms of doxorubicin action and cytotoxicity. <i>Molecular Pharmacology</i> , <b>1997</b> , 52, 658-66	4.3	41
26	Novel symmetric and asymmetric DNA scission determinants for <i>Streptococcus pneumoniae</i> topoisomerase IV and gyrase are clustered at the DNA breakage site. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 14252-63	5.4	36
25	Activity of gemifloxacin against penicillin- and ciprofloxacin-resistant <i>Streptococcus pneumoniae</i> displaying topoisomerase- and efflux-mediated resistance mechanisms. <i>Antimicrobial Agents and Chemotherapy</i> , <b>1999</b> , 43, 2998-3000	5.9	32
24	Energetics of proline racemase: tracer perturbation experiments using [ <sup>14</sup> C]proline that measure the interconversion rate of the two forms of free enzyme. <i>Biochemistry</i> , <b>1986</b> , 25, 2538-42	3.2	30
23	Breakage-reunion domain of <i>Streptococcus pneumoniae</i> topoisomerase IV: crystal structure of a gram-positive quinolone target. <i>PLoS ONE</i> , <b>2007</b> , 2, e301	3.7	29
22	Energetics of proline racemase: transition-state fractionation factors for the two protons involved in the catalytic steps. <i>Biochemistry</i> , <b>1986</b> , 25, 2543-51	3.2	28
21	Methods to assay inhibitors of DNA gyrase and topoisomerase IV activities. <i>Methods in Molecular Medicine</i> , <b>2008</b> , 142, 11-23		25
20	Ciprofloxacin dimers target gyrase in <i>Streptococcus pneumoniae</i> . <i>Antimicrobial Agents and Chemotherapy</i> , <b>2004</b> , 48, 2108-15	5.9	22
19	Probing the interaction of the cytotoxic bisdioxopiperazine ICRF-193 with the closed enzyme clamp of human topoisomerase II $\alpha$ . <i>Molecular Pharmacology</i> , <b>2000</b> , 58, 560-8	4.3	20
18	Energetics of proline racemase: rates, fractionation factors, and buffer catalysis in the oversaturated region. Nature of the interconversion of the two forms of free enzyme. <i>Biochemistry</i> , <b>1986</b> , 25, 2564-71	3.2	20
17	Energetics of triosephosphate isomerase: the nature of the proton transfer between the catalytic base and solvent water. <i>Biochemistry</i> , <b>1976</b> , 15, 5621-6	3.2	20
16	Dual activity of fluoroquinolones against <i>Streptococcus pneumoniae</i> . <i>Journal of Antimicrobial Chemotherapy</i> , <b>2003</b> , 51, 463-4; author reply 464-5	5.1	19
15	Mutations at arg486 and glu571 in human topoisomerase II $\alpha$ confer resistance to amsacrine: relevance for antitumor drug resistance in human cells. <i>Molecular Pharmacology</i> , <b>2000</b> , 57, 784-91	4.3	17
14	Structure of a quinolone-stabilized cleavage complex of topoisomerase IV from <i>Klebsiella pneumoniae</i> and comparison with a related <i>Streptococcus pneumoniae</i> complex. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2016</b> , 72, 488-96	5.5	16
13	Molecular cloning and expression of the <i>Candida albicans</i> TOP2 gene allows study of fungal DNA topoisomerase II inhibitors in yeast. <i>Biochemical Journal</i> , <b>1997</b> , 324 ( Pt 1), 329-39	3.8	16

12	Functional determinants of gate-DNA selection and cleavage by bacterial type II topoisomerases. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, 9411-23	20.1	14
11	Hot-spot consensus of fluoroquinolone-mediated DNA cleavage by Gram-negative and Gram-positive type II DNA topoisomerases. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, 6075-85	20.1	14
10	Topoisomerase Inhibitors Addressing Fluoroquinolone Resistance in Gram-Negative Bacteria. <i>Journal of Medicinal Chemistry</i> , <b>2020</b> , 63, 7773-7816	8.3	13
9	Clerocidin selectively modifies the gyrase-DNA gate to induce irreversible and reversible DNA damage. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, 5516-29	20.1	13
8	Exploring the active site of the Streptococcus pneumoniae topoisomerase IV-DNA cleavage complex with novel 7,8-bridged fluoroquinolones. <i>Open Biology</i> , <b>2016</b> , 6,	7	12
7	Trapping of the transport-segment DNA by the ATPase domains of a type II topoisomerase. <i>Nature Communications</i> , <b>2018</b> , 9, 2579	17.4	12
6	Grepafloxacin, a dimethyl derivative of ciprofloxacin, acts preferentially through gyrase in Streptococcus pneumoniae: role of the C-5 group in target specificity. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2002</b> , 46, 582-5	5.9	11
5	Analysis of dual active fluoroquinolones in Streptococcus pneumoniae. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2003</b> , 52, 312-3; author reply 313-4	5.1	10
4	Clerocidin interacts with the cleavage complex of Streptococcus pneumoniae topoisomerase IV to induce selective irreversible DNA damage. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, 1982-91	20.1	9
3	Biochemical and immunological characterization of mammalian DNA topoisomerase II. <i>Biochemical Society Transactions</i> , <b>1989</b> , 17, 528-529	5.1	6
2	Discovery and Optimization of DNA Gyrase and Topoisomerase IV Inhibitors with Potent Activity against Fluoroquinolone-Resistant Gram-Positive Bacteria. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 6329-6357 <sup>4</sup>	8.3	4
1	The difficult case of crystallization and structure solution for the ParC55 breakage-reunion domain of topoisomerase IV from Streptococcus pneumoniae. <i>PLoS ONE</i> , <b>2008</b> , 3, e3201	3.7	2