

# Richard A Slayden

## List of Publications by Citations

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83

papers

4,429

citations

35

h-index

66

g-index

92

ext. papers

4,884

ext. citations

5.8

avg, IF

4.95

L-index

#	Paper	IF	Citations
83	Mycolic acids: structure, biosynthesis and physiological functions. <i>Progress in Lipid Research</i> , <b>1998</b> , 37, 143-79	14.3	437
82	Inhibition of a Mycobacterium tuberculosis beta-ketoacyl ACP synthase by isoniazid. <i>Science</i> , <b>1998</b> , 280, 1607-10	33.3	354
81	Biogenesis of the mycobacterial cell wall and the site of action of ethambutol. <i>Antimicrobial Agents and Chemotherapy</i> , <b>1995</b> , 39, 2484-9	5.9	238
80	High affinity InhA inhibitors with activity against drug-resistant strains of Mycobacterium tuberculosis. <i>ACS Chemical Biology</i> , <b>2006</b> , 1, 43-53	4.9	210
79	Combinatorial lead optimization of [1,2]-diamines based on ethambutol as potential antituberculosis preclinical candidates. <i>ACS Combinatorial Science</i> , <b>2003</b> , 5, 172-87		172
78	Hypoxic response of Mycobacterium tuberculosis studied by metabolic labeling and proteome analysis of cellular and extracellular proteins. <i>Journal of Bacteriology</i> , <b>2002</b> , 184, 3485-91	3.5	157
77	The genetics and biochemistry of isoniazid resistance in mycobacterium tuberculosis. <i>Microbes and Infection</i> , <b>2000</b> , 2, 659-69	9.3	151
76	Antimycobacterial action of thiolactomycin: an inhibitor of fatty acid and mycolic acid synthesis. <i>Antimicrobial Agents and Chemotherapy</i> , <b>1996</b> , 40, 2813-9	5.9	131
75	Isoniazid affects multiple components of the type II fatty acid synthase system of Mycobacterium tuberculosis. <i>Molecular Microbiology</i> , <b>2000</b> , 38, 514-25	4.1	126
74	Novel trisubstituted benzimidazoles, targeting Mtb FtsZ, as a new class of antitubercular agents. <i>Journal of Medicinal Chemistry</i> , <b>2011</b> , 54, 374-81	8.3	125
73	Unique mechanism of action of the thiourea drug isoxyl on Mycobacterium tuberculosis. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 53123-30	5.4	121
72	Use of genomics and combinatorial chemistry in the development of new antimycobacterial drugs. <i>Biochemical Pharmacology</i> , <b>2000</b> , 59, 221-31	6	107
71	Menaquinone synthesis is critical for maintaining mycobacterial viability during exponential growth and recovery from non-replicating persistence. <i>Molecular Microbiology</i> , <b>2009</b> , 72, 85-97	4.1	106
70	Slow-onset inhibition of the FabI enoyl reductase from Francisella tularensis: residence time and in vivo activity. <i>ACS Chemical Biology</i> , <b>2009</b> , 4, 221-31	4.9	98
69	Targeting FtsZ for antituberculosis drug discovery: noncytotoxic taxanes as novel antituberculosis agents. <i>Journal of Medicinal Chemistry</i> , <b>2006</b> , 49, 463-6	8.3	95
68	Identification of the apparent carrier in mycolic acid synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1994</b> , 91, 12735-9	11.5	86
67	Disease state differentiation and identification of tuberculosis biomarkers via native antigen array profiling. <i>Molecular and Cellular Proteomics</i> , <b>2006</b> , 5, 2102-13	7.6	84

66	Synthesis and SAR studies of 1,4-benzoxazine MenB inhibitors: novel antibacterial agents against Mycobacterium tuberculosis. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2010</b> , 20, 6306-9	2.9	74
65	A point mutation in the mma3 gene is responsible for impaired methoxymycolic acid production in Mycobacterium bovis BCG strains obtained after 1927. <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 3394-9	3.5	74
64	Identification of cell cycle regulators in Mycobacterium tuberculosis by inhibition of septum formation and global transcriptional analysis. <i>Microbiology (United Kingdom)</i> , <b>2006</b> , 152, 1789-1797	2.9	73
63	The role of KasA and KasB in the biosynthesis of meromycolic acids and isoniazid resistance in Mycobacterium tuberculosis. <i>Tuberculosis</i> , <b>2002</b> , 82, 149-60	2.6	72
62	Discovery of anti-TB agents that target the cell-division protein FtsZ. <i>Future Medicinal Chemistry</i> , <b>2010</b> , 2, 1305-23	4.1	66
61	Synthesis and in vitro antimycobacterial activity of B-ring modified diaryl ether InhA inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2008</b> , 18, 3029-33	2.9	64
60	FtsZ: a novel target for tuberculosis drug discovery. <i>Current Topics in Medicinal Chemistry</i> , <b>2007</b> , 7, 527-43		57
59	SAR studies on trisubstituted benzimidazoles as inhibitors of Mtb FtsZ for the development of novel antitubercular agents. <i>Journal of Medicinal Chemistry</i> , <b>2013</b> , 56, 9756-70	8.3	55
58	Targeting fatty acid biosynthesis for the development of novel chemotherapeutics against Mycobacterium tuberculosis: evaluation of A-ring-modified diphenyl ethers as high-affinity InhA inhibitors. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2007</b> , 51, 3562-7	5.9	48
57	Cell wall structure of a mutant of Mycobacterium smegmatis defective in the biosynthesis of mycolic acids. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 7224-9	5.4	48
56	Analysis of the Lipids of Mycobacterium tuberculosis. <i>Methods in Molecular Medicine</i> , <b>2001</b> , 54, 229-45		43
55	Time-dependent diaryl ether inhibitors of InhA: structure-activity relationship studies of enzyme inhibition, antibacterial activity, and in vivo efficacy. <i>ChemMedChem</i> , <b>2014</b> , 9, 776-91	3.7	40
54	Toxin-antitoxin systems and regulatory mechanisms in Mycobacterium tuberculosis. <i>Pathogens and Disease</i> , <b>2018</b> , 76,	4.2	39
53	Rational design of broad spectrum antibacterial activity based on a clinically relevant enoyl-acyl carrier protein (ACP) reductase inhibitor. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 15987-6005	5.4	39
52	CoA Adducts of 4-Oxo-4-Phenylbut-2-enoates: Inhibitors of MenB from the M. tuberculosis Menaquinone Biosynthesis Pathway. <i>ACS Medicinal Chemistry Letters</i> , <b>2011</b> , 2, 818-823	4.3	38
51	Evaluating the Contribution of Transition-State Destabilization to Changes in the Residence Time of Triazole-Based InhA Inhibitors. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 3417-3429	16.4	37
50	Development of modern InhA inhibitors to combat drug resistant strains of Mycobacterium tuberculosis. <i>Current Topics in Medicinal Chemistry</i> , <b>2007</b> , 7, 489-98	3	37
49	Design, synthesis and evaluation of novel 2,5,6-trisubstituted benzimidazoles targeting FtsZ as antitubercular agents. <i>Bioorganic and Medicinal Chemistry</i> , <b>2014</b> , 22, 2602-12	3.4	35

48	Implications of high level pseudogene transcription in Mycobacterium leprae. <i>BMC Genomics</i> , <b>2009</b> , 10, 397	4.5	32
47	A specific interaction of small molecule entry inhibitors with the envelope glycoprotein complex of the JunB hemorrhagic fever arenavirus. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 6192-200	5.4	32
46	Immune response to Mycobacterium tuberculosis and identification of molecular markers of disease. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2009</b> , 40, 398-409	5.7	31
45	Benzimidazole-based antibacterial agents against Francisella tularensis. <i>Bioorganic and Medicinal Chemistry</i> , <b>2013</b> , 21, 3318-26	3.4	28
44	Mycobacterium tuberculosis septum site determining protein, Ssd encoded by rv3660c, promotes filamentation and elicits an alternative metabolic and dormancy stress response. <i>BMC Microbiology</i> , <b>2011</b> , 11, 79	4.5	27
43	Substituted diphenyl ethers as a broad-spectrum platform for the development of chemotherapeutics for the treatment of tularaemia. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2009</b> , 64, 1052-61	5.1	27
42	Characterizing septum inhibition in Mycobacterium tuberculosis for novel drug discovery. <i>Tuberculosis</i> , <b>2008</b> , 88, 420-9	2.6	25
41	Thermal and Photoinduced Copper-Promoted C-Se Bond Formation: Synthesis of 2-Alkyl-1,2-benzisoselenazol-3(2H)-ones and Evaluation against Mycobacterium tuberculosis. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 3844-3854	4.2	24
40	Synthesis and evaluation of new 2-aminothiophenes against Mycobacterium tuberculosis. <i>Organic and Biomolecular Chemistry</i> , <b>2016</b> , 14, 6119-6133	3.9	24
39	The ly49 gene family. A brief guide to the nomenclature, genetics, and role in intracellular infection. <i>Frontiers in Immunology</i> , <b>2013</b> , 4, 90	8.4	23
38	Updating and curating metabolic pathways of TB. <i>Tuberculosis</i> , <b>2013</b> , 93, 47-59	2.6	22
37	Morphological features and signature gene response elicited by inactivation of FtsI in Mycobacterium tuberculosis. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2009</b> , 63, 451-7	5.1	22
36	Discovery, synthesis, and biological evaluation of piperidinol analogs with anti-tuberculosis activity. <i>Bioorganic and Medicinal Chemistry</i> , <b>2009</b> , 17, 3588-94	3.4	22
35	Mechanism and inhibition of the FabI enoyl-ACP reductase from Burkholderia pseudomallei. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2011</b> , 66, 564-73	5.1	22
34	Thiolactomycin-Based Inhibitors of Bacterial $\beta$ Ketoacyl-ACP Synthases with in Vivo Activity. <i>Journal of Medicinal Chemistry</i> , <b>2016</b> , 59, 5377-90	8.3	22
33	In vitro-in vivo activity relationship of substituted benzimidazole cell division inhibitors with activity against Mycobacterium tuberculosis. <i>Tuberculosis</i> , <b>2014</b> , 94, 271-6	2.6	21
32	Mechanisms of isoniazid resistance in Mycobacterium tuberculosis. <i>Drug Resistance Updates</i> , <b>1998</b> , 1, 128-34	23.2	20
31	Isothermal amplification and molecular typing of the obligate intracellular pathogen Mycobacterium leprae isolated from tissues of unknown origins. <i>Journal of Clinical Microbiology</i> , <b>2006</b> , 44, 1502-8	9.7	20

30	Use of protein microarrays to define the humoral immune response in leprosy patients and identification of disease-state-specific antigenic profiles. <i>Infection and Immunity</i> , <b>2006</b> , 74, 6458-66	3.7	20
29	Rational design of a new antibiotic class for drug-resistant infections. <i>Nature</i> , <b>2021</b> , 597, 698-702	50.4	20
28	Cell division inhibitors with efficacy equivalent to isoniazid in the acute murine Mycobacterium tuberculosis infection model. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2015</b> , 70, 3070-3	5.1	18
27	A trisubstituted benzimidazole cell division inhibitor with efficacy against Mycobacterium tuberculosis. <i>PLoS ONE</i> , <b>2014</b> , 9, e93953	3.7	18
26	The Francisella tularensis FabI enoyl-acyl carrier protein reductase gene is essential to bacterial viability and is expressed during infection. <i>Journal of Bacteriology</i> , <b>2013</b> , 195, 351-8	3.5	18
25	MazF6 toxin of Mycobacterium tuberculosis demonstrates antitoxin specificity and is coupled to regulation of cell growth by a Soj-like protein. <i>BMC Microbiology</i> , <b>2013</b> , 13, 240	4.5	13
24	Genetic identification of unique immunological responses in mice infected with virulent and attenuated Francisella tularensis. <i>Microbes and Infection</i> , <b>2011</b> , 13, 261-75	9.3	13
23	Transient In Vivo Resistance Mechanisms of Burkholderia pseudomallei to Ceftazidime and Molecular Markers for Monitoring Treatment Response. <i>PLoS Neglected Tropical Diseases</i> , <b>2017</b> , 11, e0005209	4.8	12
22	Substituted diphenyl ethers as a novel chemotherapeutic platform against Burkholderia pseudomallei. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2014</b> , 58, 1646-51	5.9	12
21	The Burkholderia pseudomallei enoyl-acyl carrier protein reductase FabI1 is essential for in vivo growth and is the target of a novel chemotherapeutic with efficacy. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2014</b> , 58, 931-5	5.9	12
20	Immune Modulation as an Effective Adjunct Post-exposure Therapeutic for B. pseudomallei. <i>PLoS Neglected Tropical Diseases</i> , <b>2016</b> , 10, e0005065	4.8	12
19	Waveguide biosensor with integrated detector array for tuberculosis testing. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 013702	3.4	11
18	Iterative feature removal yields highly discriminative pathways. <i>BMC Genomics</i> , <b>2013</b> , 14, 832	4.5	9
17	Adeno-associated virus gene therapy vector scAAVIGF-I for transduction of equine articular chondrocytes and RNA-seq analysis. <i>Osteoarthritis and Cartilage</i> , <b>2016</b> , 24, 902-11	6.2	8
16	Anomaly Detection in Host Signaling Pathways for the Early Prognosis of Acute Infection. <i>PLoS ONE</i> , <b>2016</b> , 11, e0160919	3.7	7
15	Rationalizing the Binding Kinetics for the Inhibition of the Burkholderia pseudomallei FabI1 Enoyl-ACP Reductase. <i>Biochemistry</i> , <b>2017</b> , 56, 1865-1878	3.2	5
14	MadR1, a Mycobacterium tuberculosis cell cycle stress response protein that is a member of a widely conserved protein class of prokaryotic, eukaryotic and archeal origin. <i>Tuberculosis</i> , <b>2015</b> , 95, 251-8	2.6	4
13	Formulation studies of InhA inhibitors and combination therapy to improve efficacy against Mycobacterium tuberculosis. <i>Tuberculosis</i> , <b>2016</b> , 101, 8-14	2.6	4

12	Detection of virus-like nanoparticles via scattering using a chip-scale optical biosensor. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 161111	3.4	3
11	Optimization of TopoIV Potency, ADMET Properties, and hERG Inhibition of 5-Amino-1,3-dioxane-Linked Novel Bacterial Topoisomerase Inhibitors: Identification of a Lead with Efficacy against MRSA. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 15214-15249	8.3	3
10	Structure-activity relationship studies on 2,5,6-trisubstituted benzimidazoles targeting -FtsZ as antitubercular agents. <i>RSC Medicinal Chemistry</i> , <b>2021</b> , 12, 78-94	3.5	3
9	Manganese exposure in juvenile C57BL/6 mice increases glial inflammatory responses in the substantia nigra following infection with H1N1 influenza virus. <i>PLoS ONE</i> , <b>2021</b> , 16, e0245171	3.7	3
8	Application of Genomics to the Discovery of New Drugs Against Tuberculosis <b>2003</b> , 111-133		2
7	TPR1, a novel rifampicin derivative, demonstrates efficacy alone and in combination with doxycycline against the NIAID Category A priority pathogen. <i>JAC-Antimicrobial Resistance</i> , <b>2021</b> , 3, dlab058	2.9	1
6	A Novel Glucocorticoid and Androgen Receptor Modulator Reduces Viral Entry and Innate Immune Inflammatory Responses in the Syrian Hamster Model of SARS-CoV-2 Infection.. <i>Frontiers in Immunology</i> , <b>2022</b> , 13, 811430	8.4	1
5	Improved non-redundant species screening panels for benchmarking the performance of new investigational antibacterial candidates against Category A and B priority pathogens.. <i>JAC-Antimicrobial Resistance</i> , <b>2022</b> , 4, dlac028	2.9	0
4	Targeting the Enoyl-Reductase Enzyme (FabI): Modern Drug Discovery Effects to Combat Tularemia. <i>FASEB Journal</i> , <b>2008</b> , 22, 791.6	0.9	
3	Residence Time and in vivo Antibacterial Activity - A Critical Aspect of Lead Compound Optimization. <i>FASEB Journal</i> , <b>2010</b> , 24, 680.3	0.9	
2	SAR Studies of Diphenyl Ethers, Potential Anti-tuberculosis Drugs as InhA Inhibitors. <i>FASEB Journal</i> , <b>2010</b> , 24, 907.11	0.9	
1	Slow Onset Inhibitors of Bacterial Fatty Acid Biosynthesis: Residence Time, In Vivo Activity and In Vivo Imaging. <i>FASEB Journal</i> , <b>2010</b> , 24, 71.3	0.9	