

# Development of a Novel Lead that Targets M.Â tubercul

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Systematic Identification of Mycobacterium tuberculosis Effectors Reveals that BfrB Suppresses Innate Immunity. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 2243-2253.	2.5	18
2	New routes to tuberculosis treatment. <i>Nature Reviews Drug Discovery</i> , 2017, 16, 600-601.	21.5	4
3	Host-pathogen systems for early drug discovery against tuberculosis. <i>Current Opinion in Microbiology</i> , 2017, 39, 143-151.	2.3	8
4	Targeting DNA Replication and Repair for the Development of Novel Therapeutics against Tuberculosis. <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 75.	1.6	42
5	POAP: A GNU parallel based multithreaded pipeline of open babel and AutoDock suite for boosted high throughput virtual screening. <i>Computational Biology and Chemistry</i> , 2018, 74, 39-48.	1.1	60
6	Recent advances of imidazole-containing derivatives as anti-tubercular agents. <i>European Journal of Medicinal Chemistry</i> , 2018, 150, 347-365.	2.6	117
7	Priming the tuberculosis drug pipeline: new antimycobacterial targets and agents. <i>Current Opinion in Microbiology</i> , 2018, 45, 39-46.	2.3	40
8	Structural and genetic analysis of <i>START</i> superfamily protein <i>MSMEG_0129</i> from <i>Mycobacterium smegmatis</i> . <i>FEBS Letters</i> , 2018, 592, 1445-1457.	1.3	6
9	Metabolic principles of persistence and pathogenicity in <i>Mycobacterium tuberculosis</i> . <i>Nature Reviews Microbiology</i> , 2018, 16, 496-507.	13.6	162
10	Metabolism of SKLB-TB1001, a Potent Antituberculosis Agent, in Animals. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	1.4	4
11	Palladium-Catalyzed Regioselective $C\alpha$ Arylation of Benzofurans with $N$ -Acyl Arylhydrazines. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2774-2779.	1.2	13
12	The Expanding Diversity of <i>Mycobacterium tuberculosis</i> Drug Targets. <i>ACS Infectious Diseases</i> , 2018, 4, 696-714.	1.8	60
13	Identification of Novel Coumestan Derivatives as Polyketide Synthase 13 Inhibitors against <i>Mycobacterium tuberculosis</i> . <i>Journal of Medicinal Chemistry</i> , 2018, 61, 791-803.	2.9	56
14	Characterization of Tetrahydrolipstatin and Stereoderivatives on the Inhibition of Essential <i>Mycobacterium tuberculosis</i> Lipid Esterases. <i>Biochemistry</i> , 2018, 57, 2383-2393.	1.2	25
15	Identification of a new series of benzothiazinone derivatives with excellent antitubercular activity and improved pharmacokinetic profiles. <i>RSC Advances</i> , 2018, 8, 11163-11176.	1.7	16
16	An Antibacterial $\beta$ -Lactone Kills <i>Mycobacterium tuberculosis</i> by Disrupting Mycolic Acid Biosynthesis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 348-353.	7.2	55
17	Ein antibakterielles $\beta$ -Lacton bekämpft <i>Mycobacterium tuberculosis</i> durch Infiltration der Mykolsäurebiosynthese. <i>Angewandte Chemie</i> , 2018, 130, 354-359.	1.6	3
18	IMB-T130 targets 3-dehydroquinate synthase and inhibits <i>Mycobacterium tuberculosis</i> . <i>Scientific Reports</i> , 2018, 8, 17439.	1.6	14

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19	Biochemical and Structural Characterization of TesA, a Major Thioesterase Required for Outer-Envelope Lipid Biosynthesis in <i>Mycobacterium tuberculosis</i> . <i>Journal of Molecular Biology</i> , 2018, 430, 5120-5136.	2.0	22
20	Design, synthesis and anti-mycobacterial activity evaluation of benzofuran-isatin hybrids. <i>European Journal of Medicinal Chemistry</i> , 2018, 159, 277-281.	2.6	54
21	Strategy for Overcoming Full Reversibility of Intermolecular Radical Addition to Aldehydes: Tandem C-H and C-O Bonds Cleaving Cyclization of (Phenoxymethyl)arenes with Carbonyls to Benzofurans. <i>Organic Letters</i> , 2018, 20, 3310-3313.	2.4	32
22	Recent advances for identification of new scaffolds and drug targets for <i>Mycobacterium tuberculosis</i> . <i>IUBMB Life</i> , 2018, 70, 905-916.	1.5	23
23	Novel T7 Phage Display Library Detects Classifiers for Active <i>Mycobacterium Tuberculosis</i> Infection. <i>Viruses</i> , 2018, 10, 375.	1.5	9
24	The present state of the tuberculosis drug development pipeline. <i>Current Opinion in Pharmacology</i> , 2018, 42, 81-94.	1.7	70
25	Identification of novel scaffolds targeting <i>Mycobacterium tuberculosis</i> . <i>Journal of Molecular Medicine</i> , 2019, 97, 1601-1613.	1.7	18
26	Benzofuran-isatin hybrids and their <i>in vitro</i> anti-mycobacterial activities against multi-drug resistant <i>Mycobacterium tuberculosis</i> . <i>European Journal of Medicinal Chemistry</i> , 2019, 183, 111678.	2.6	18
27	An update on benzofuran inhibitors: a patent review. <i>Expert Opinion on Therapeutic Patents</i> , 2019, 29, 841-870.	2.4	39
28	Benzofuran-isatin-imine hybrids tethered via different length alkyl linkers: Design, synthesis and <i>in vitro</i> evaluation of anti-tubercular and anti-bacterial activities as well as cytotoxicity. <i>European Journal of Medicinal Chemistry</i> , 2019, 165, 323-331.	2.6	38
29	Design, Synthesis, and Anticancer Activities of Benzofuran-Isatin Hybrids Tethered by Pentylene and Hexylene. <i>Journal of Heterocyclic Chemistry</i> , 2019, 56, 2052-2055.	1.4	8
30	Insights into an alternative benzofuran binding mode and novel scaffolds of polyketide synthase 13 inhibitors. <i>Journal of Molecular Modeling</i> , 2019, 25, 130.	0.8	6
31	Identification of Novel Coumestan Derivatives as Polyketide Synthase 13 Inhibitors against <i>Mycobacterium tuberculosis</i> . Part II. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 3575-3589.	2.9	26
32	Benzofuran-isatin hybrids tethered via different length alkyl linkers and their <i>in vitro</i> anti-mycobacterial activities. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 2652-2656.	1.4	8
33	Benzofuran-Isatin Hybrids: Design, Synthesis, and <i>In Vitro</i> Anti-cancer Activities. <i>Journal of Heterocyclic Chemistry</i> , 2019, 56, 1687-1693.	1.4	5
34	Recent Progress in Structure-Based Evaluation of Compound Promiscuity. <i>ACS Omega</i> , 2019, 4, 2758-2765.	1.6	17
35	Exploiting the furo[2,3-b]pyridine core against multidrug-resistant <i>Mycobacterium tuberculosis</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 974-977.	1.0	12
36	<i>Mycobacterium tuberculosis</i> Mannose-Capped Lipoarabinomannan Induces IL-10-Producing B Cells and Hinders CD4+Th1 Immunity. <i>IScience</i> , 2019, 11, 13-30.	1.9	35

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37	Benzofuran derivatives and their anti-tubercular, anti-bacterial activities. <i>European Journal of Medicinal Chemistry</i> , 2019, 162, 266-276.	2.6	93
38	Mycobacterial genomics and structural bioinformatics: opportunities and challenges in drug discovery. <i>Emerging Microbes and Infections</i> , 2019, 8, 109-118.	3.0	26
39	Benzofuran-isatin-hydroxylimine/thiosemicarbazide hybrids: Design, synthesis and in vitro anti-mycobacterial activity evaluation. <i>Chinese Chemical Letters</i> , 2019, 30, 653-655.	4.8	17
40	Design, Synthesis, and In Vitro Anti-mycobacterial Activities of Propylene Tethered Benzofuran-Isatin Hybrids. <i>Journal of Heterocyclic Chemistry</i> , 2019, 56, 338-342.	1.4	3
41	Molecular dynamics simulation and binding free energy studies of novel leads belonging to the benzofuran class inhibitors of <i>Mycobacterium tuberculosis</i> Polyketide Synthase 13. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 1616-1627.	2.0	36
42	Antibiotics and resistance: the two-sided coin of the mycobacterial cell wall. <i>Cell Surface</i> , 2020, 6, 100044.	1.5	27
43	Structural Basis for Enzymatic Off-Loading of Hybrid Polyketides by Dieckmann Condensation. <i>ACS Chemical Biology</i> , 2020, 15, 2783-2791.	1.6	11
44	Molecular Basis for Extender Unit Specificity of Mycobacterial Polyketide Synthases. <i>ACS Chemical Biology</i> , 2020, 15, 3206-3216.	1.6	2
45	Synthesis and evaluation of thiophene based small molecules as potent inhibitors of <i>Mycobacterium tuberculosis</i> . <i>European Journal of Medicinal Chemistry</i> , 2020, 208, 112772.	2.6	9
46	Chemical Tools for Illumination of Tuberculosis Biology, Virulence Mechanisms, and Diagnosis. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 15308-15332.	2.9	11
47	Cytotoxicity and Antimycobacterial Properties of Pyrrolo[1,2-a]quinoline Derivatives: Molecular Target Identification and Molecular Docking Studies. <i>Antibiotics</i> , 2020, 9, 233.	1.5	30
48	Fragment-Based Design of <i>Mycobacterium tuberculosis</i> InhA Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 4749-4761.	2.9	27
49	Targeting Genome Integrity in <i>Mycobacterium tuberculosis</i> : From Nucleotide Synthesis to DNA Replication and Repair. <i>Molecules</i> , 2020, 25, 1205.	1.7	13
50	Promiscuous Targets for Antitubercular Drug Discovery: The Paradigm of DprE1 and MmpL3. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 623.	1.3	44
51	In Silico Strategies in Tuberculosis Drug Discovery. <i>Molecules</i> , 2020, 25, 665.	1.7	50
52	The quest for the holy grail: new antitubercular chemical entities, targets and strategies. <i>Drug Discovery Today</i> , 2020, 25, 772-780.	3.2	43
53	Design, synthesis, and biological evaluation of novel 4H-chromen-4-one derivatives as antituberculosis agents against multidrug-resistant tuberculosis. <i>European Journal of Medicinal Chemistry</i> , 2020, 189, 112075.	2.6	26
54	Mycobacterial Cell Wall: A Source of Successful Targets for Old and New Drugs. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2278.	1.3	44

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55	Lipolytic enzymes inhibitors: A new way for antibacterial drugs discovery. <i>European Journal of Medicinal Chemistry</i> , 2021, 209, 112908.	2.6	7
56	Molecular Docking Suggests the Targets of Anti-Mycobacterial Natural Products. <i>Molecules</i> , 2021, 26, 475.	1.7	19
57	<i>In vitro</i> anti-TB properties, <i>in silico</i> target validation, molecular docking and dynamics studies of substituted 1,2,4-oxadiazole analogues against <i>Mycobacterium tuberculosis</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 869-884.	2.5	19
58	Synthesis, Characterization, and Biological Evaluation of New Derivatives Targeting Mtb1 as Antitubercular Agents. <i>Pharmaceuticals</i> , 2021, 14, 155.	1.7	21
59	A random small molecule library screen identifies novel antagonists of the kinin receptor from the cattle fever tick, <i>Rhipicephalus microplus</i> (Acari: Ixodidae). <i>Pest Management Science</i> , 2021, 77, 2238-2251.	1.7	5
60	Contribution of <i>N</i> -heterocycles towards anti-tubercular drug discovery (2014-2019); predicted and reengineered molecular frameworks. <i>Drug Development Research</i> , 2021, 82, 767-783.	1.4	15
61	Design and synthesis of mycobacterial pks13 inhibitors: Conformationally rigid tetracyclic molecules. <i>European Journal of Medicinal Chemistry</i> , 2021, 213, 113202.	2.6	15
62	Tuberculosis Drug Discovery: A Decade of Hit Assessment for Defined Targets. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 611304.	1.8	38
63	Tuberculosis: An Overview of the Immunogenic Response, Disease Progression, and Medicinal Chemistry Efforts in the Last Decade toward the Development of Potential Drugs for Extensively Drug-Resistant Tuberculosis Strains. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 4359-4395.	2.9	36
64	Therapeutic Potential of Coumestan Pks13 Inhibitors for Tuberculosis. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	1.4	12
65	Hybridization Approach to Drug Discovery Inhibiting <i>Mycobacterium tuberculosis</i> -An Overview. <i>Current Topics in Medicinal Chemistry</i> , 2021, 21, 777-788.	1.0	6
66	Screening of Compounds for Anti-tuberculosis Activity, and <i>in vitro</i> and <i>in vivo</i> Evaluation of Potential Candidates. <i>Frontiers in Microbiology</i> , 2021, 12, 658637.	1.5	4
68	The Tuberculosis Drug Accelerator at year 10: what have we learned?. <i>Nature Medicine</i> , 2021, 27, 1333-1337.	15.2	32
69	Identification of inhibitors targeting polyketide synthase 13 of <i>Mycobacterium tuberculosis</i> as antituberculosis drug leads. <i>Bioorganic Chemistry</i> , 2021, 114, 105110.	2.0	9
70	Identification of ruthenium (II) complexes with furan-substituted ligands as possible antibacterial agents against <i>Staphylococcus aureus</i> . <i>Chemical Biology and Drug Design</i> , 2021, 98, 885-893.	1.5	2
71	Recent advancements and developments in search of anti-tuberculosis agents: A quinquennial update and future directions. <i>Journal of Molecular Structure</i> , 2022, 1248, 131473.	1.8	25
72	Cell wall inhibitors increase the accumulation of rifampicin in <i>Mycobacterium tuberculosis</i> . <i>Access Microbiology</i> , 2019, 1, e000006.	0.2	16
73	Kinase Targets for Mycolic Acid Biosynthesis in <i>Mycobacterium tuberculosis</i> . <i>Current Molecular Pharmacology</i> , 2019, 12, 27-49.	0.7	15

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74	Crystallization and structure analysis of the core motif of the Pks13 acyltransferase domain from <i>Mycobacterium tuberculosis</i> . <i>PeerJ</i> , 2018, 6, e4728.	0.9	6
76	Violet-emitting distributed-feedback laser using a naphtho[2,1- <i>b</i> :6,5- <i>b'</i> ]difuran derivative. <i>Journal of Materials Chemistry C</i> , 2021, 9, 17287-17290.	2.7	1
77	Synthesis, pharmacokinetic and molecular docking studies of new benzohydrazide derivatives possessing anti-tubercular activity against <i>Mycobacterium tuberculosis</i> H37Rv. <i>Journal of Molecular Structure</i> , 2022, 1250, 131884.	1.8	6
78	Infection microenvironment-related antibacterial nanotherapeutic strategies. <i>Biomaterials</i> , 2022, 280, 121249.	5.7	98
79	Thioesterase enzyme families: Functions, structures, and mechanisms. <i>Protein Science</i> , 2022, 31, 652-676.	3.1	18
80	Crystal structures of FadD32 and pks13-ACP domain from <i>Corynebacterium diphtheriae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2022, 590, 152-157.	1.0	1
81	Silver(i)-catalyzed dehydrogenative cross-coupling of 2-arylbenzofurans with phosphites. <i>New Journal of Chemistry</i> , 2022, 46, 2662-2668.	1.4	3
82	Design, synthesis, and computational studies of benzimidazole derivatives as new antitubercular agents. <i>Journal of Biomolecular Structure and Dynamics</i> , 2023, 41, 2667-2686.	2.0	3
83	Synthesis, antimicrobial, and antitubercular evaluation of new Schiff bases with in silico ADMET and molecular docking studies. <i>European Journal of Chemistry</i> , 2022, 13, 109-116.	0.3	3
84	Mandelic acid-based spirothiazolidinones targeting <i>M. tuberculosis</i> : Synthesis, in vitro and in silico investigations. <i>Bioorganic Chemistry</i> , 2022, 121, 105688.	2.0	6
85	Optimization of TAM16, a Benzofuran That Inhibits the Thioesterase Activity of Pks13; Evaluation toward a Preclinical Candidate for a Novel Antituberculosis Clinical Target. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 409-423.	2.9	15
86	Design, Synthesis and Biological Evaluation of N-phenylindole Derivatives as Pks13 Inhibitors against <i>Mycobacterium tuberculosis</i> . <i>Molecules</i> , 2022, 27, 2844.	1.7	6
87	Overcoming <i>Mycobacterium tuberculosis</i> through small molecule inhibitors to break down cell wall synthesis. <i>Acta Pharmaceutica Sinica B</i> , 2022, 12, 3201-3214.	5.7	11
88	Thietanes and derivatives thereof in medicinal chemistry.. <i>Current Topics in Medicinal Chemistry</i> , 2022, 22, .	1.0	1
89	Recent Progress in the Development of Novel <i>Mycobacterium</i> Cell Wall Inhibitor to Combat Drug-Resistant Tuberculosis. <i>Microbiology Insights</i> , 2022, 15, 117863612210998.	0.9	7
90	Tuberculosis Drug Discovery: Challenges and New Horizons. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 7489-7531.	2.9	59
91	MolHyb: A Web Server for Structure-Based Drug Design by Molecular Hybridization. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 2916-2922.	2.5	4
92	Solution structure of the type I polyketide synthase Pks13 from <i>Mycobacterium tuberculosis</i> . <i>BMC Biology</i> , 2022, 20, .	1.7	5

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93	Antitubercular, Cytotoxicity, and Computational Target Validation of Dihydroquinazolinone Derivatives. <i>Antibiotics</i> , 2022, 11, 831.	1.5	5
94	Lipid biosynthetic pathways as potential drug targets for emerging mycobacterial pathogens. , 2022, , 27-49.		0
95	Structure of a Promiscuous Thioesterase Domain Responsible for Branching Acylation in Polyketide Biosynthesis. <i>Angewandte Chemie</i> , 0, , .	1.6	0
96	Structure-based design of anti-mycobacterial drug leads that target the mycolic acid transporter MmpL3. <i>Structure</i> , 2022, , .	1.6	2
97	Structure of a Promiscuous Thioesterase Domain Responsible for Branching Acylation in Polyketide Biosynthesis. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	4
98	Identification of novel inhibitors for mycobacterial polyketide synthase 13 via in silico drug screening assisted by the parallel compound screening with genetic algorithm-based programs. <i>Journal of Antibiotics</i> , 2022, 75, 552-558.	1.0	5
99	Structure-Based Optimization of Coumestan Derivatives as Polyketide Synthase 13-Thioesterase(Pks13-TE) Inhibitors with Improved hERG Profiles for <i>Mycobacterium tuberculosis</i> Treatment. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 13240-13252.	2.9	8
100	Application of combined CRISPR screening for genetic and chemical-genetic interaction profiling in <i>Mycobacterium tuberculosis</i> . <i>Science Advances</i> , 2022, 8, .	4.7	3
101	Anti-tuberculosis drug development via targeting the cell envelope of <i>Mycobacterium tuberculosis</i> . <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	9
102	Tools and Techniques to Tap the Potential of Himalayan Bioactive Molecules. , 2023, , 157-175.		1
103	Computational characteristics of the structure-activity relationship of inhibitors targeting Pks13-TE domain. <i>Computational Biology and Chemistry</i> , 2023, 104, 107864.	1.1	0
104	Targeting mycobacterial membranes and membrane proteins: Progress and limitations. <i>Bioorganic and Medicinal Chemistry</i> , 2023, 81, 117212.	1.4	9
105	Structure and dynamics of the essential endogenous mycobacterial polyketide synthase Pks13. <i>Nature Structural and Molecular Biology</i> , 2023, 30, 296-308.	3.6	9
106	Tuberculosis: Pathogenesis, Current Treatment Regimens and New Drug Targets. <i>International Journal of Molecular Sciences</i> , 2023, 24, 5202.	1.8	23
107	Natural products and their analogues acting against <i>Mycobacterium tuberculosis</i> : A recent update. <i>Drug Development Research</i> , 2023, 84, 779-804.	1.4	2
112	MEDICINAL CHEMISTRY ENDEAVORS FOR THE DISCOVERY OF NOVEL TUBERCULOSIS DRUGS. <i>Medicinal Chemistry Reviews</i> , 0, , 337-358.	0.1	0