

LIST OF ABBREVIATIONS

DprE1	: Decaprenylphosphoryl- β -D-ribose 2'-Epimerase 1
TB	: Tuberculosis
Araf	: D-arabinofuranose
Mtb	: <i>Mycobacterium tuberculosis</i>
DR	: Drug resistance
AG	: Arabinogalactan
LAM	: Lipoarabinomannan
PAM	: Peptidoglycan-arabinogalactan-mycolic acid
mAGP	: Mycolyl-arabinogalactan-peptidoglycan
PG	: Peptidoglycan
DPA	: Decaprenylphosphoryl- β -D-arabinose
DPR	: Decaprenylphosphoryl- β -D-ribose
DPX	: Decaprenylphosphoryl-2-keto- β -D-erythro-pentofuranose
FAD	: Flavin adenine dinucleotide
FADH2	: Reduced form of flavin adenine diucleotide
NADH	: Nicotinamide adenine dinucleotide
DprE2	: decaprenylphosphoryl-D-2-keto-erythro-pentose reductase
BTZ	: Benzothiazinone
PBTZ	: Piperazine-benzothiazinone
MIC	: Minimum inhibitory concentration
SAR	: Structure activity relationship
ADMET	: Absorption, distribution, metabolism, excretion and toxicity
IC ₅₀	: Half maximal inhibitory concentration
CYP2C9	: Cytochrome P450 family 2 subfamily C member 9
Tyr	: Tyrosine
Gly	: Glycine
Ala	: Alanine
Ser	: Serine
Asn	: Asparagine

Lys	: Lysine
Trp	: Tryptophan
Cys	: Cysteine
PDE	: Phosphodiesterase
pIC_{50}	: Negative logarithm of IC_{50}
Leu	: Leucine
Ile	: Isoleucine
Pro	: Proline
Asp	: Aspartic acid
His	: Histidine
CFU	: Colony forming unit
MDR	: Multi Drug Resistance
XDR	: Extensive Drug Resistance
TDR	: Total Drug Resistance
WHO	: World Health Organization
HIV	: Human Immunodeficiency Virus
Ddl	: <i>D</i> -alanine- <i>D</i> -alanine ligase
Ldt	: <i>L, D</i> -transpeptidase
Alr	: Alanine racemase
Inh A	: Enoyl acyl carrier protein reductase
Kas A	: Beta-ketoacyl-ACP synthetase
GlgE	: Maltosyl transferase
MACS	: Mycolic acid cyclopropane synthetase
HisG	: ATP phosphoribosyl transferase
MshC	: Mycothiol ligase
Def	: Deformylase
Fmt	: Methionine aminopeptidase
QcrB	: Cytochromebc1 complex
Icl	: Isocitratelase
INH	: Isoniazid

PZA	: Pyrazinamide
EMB	: Ethambutol
ETH	: Ethionamide
D-CS	: D-cycloserine
ROS	: Reactive Oxygen Species
NAD	: Nicotinamide Adenine Dinucleotide
Kat G	: Catalase-peroxidase
POA	: Pyrazinoic Acid
PZase	: Pyrazinamidase
PBP	: Penicillin-Binding Proteins
TL-1	: Translocase I
BDQ	: Bedaquiline
USFDA	: U.S. Food and Drug Administration
PDB	: Protein Data Bank
μM	: Micro Molar
HTS	: High Throughput Screening
GSK	: Galaxo Smith Kline
HBA	: Hydrogen Bond Acceptor
PK	: Pharmacokinetics
ATP	: Adenosine Triphosphate
MABA	: Microplate Alamar Blue Assay
LORA	: Low Oxygen Recovery Assay
SPR	: Structure Property Relationship
DMPK	: Drug Metabolism and Pharmacokinetics
FAS-II	: Fatty Acid Synthase II
QSAR	: Quantitative Structure Activity Relationship
MBMDM	: Mouse Bone-Marrow Derived Macrophages