

List of Abbreviations

ACP	Acyl Carrier Protein
AC	Adenylyl cyclase
AFB	Acid fast bacillus
Ag	Antigen
AIDS	Acquired immunodeficiency syndrome
ALS	Acetolactate synthase
AMI	Antibody-mediated immunity
ANN	Artificial neural networks
Araf	D-Arabinofuranose
ARC	AIDS-related complex
ATP	Adenosine triphosphate
AZT	Zidovudine
BCG	Bacillus Calmette Guérin
BMMA	Ethyl N-[bis(methylthio)methylene]amino acetate
CA	Cluster Analysis
CDC	Centre for Disease Control
CFU	Colony forming units
CMA	Combine Multivariate Analysis
CMI	Cell-mediated immunity
CMV	Cytomegalovirus
CNS	Central Nervous System
CoMFA	Comparative Molecular Field Analysis
COMSIA	Comparative Molecular Similarity Indices Analysis
CPZ	Chlorpromazine
CRF	Corticotrophin releasing factor
CT	Computed Tomography
CYP ₄₅₀	Cytochrome P ₄₅₀
DA	Discriminant analysis
DAT	Direct Amplification Test
DCS	D-Cycloserine
DHFR	Dihydrofolate reductase
DHT	Delayed Type Hypersensitivity
DIM	Phiocerol dimycocerosate

DIPEA	Diisopropylethylamine
DMF	Dimethyl formamide
DMS	Dimethyl sulfate
DMSO	Dimethyl sulfoxide
DMT	Dimethyl trehalose
DNA	Deoxyribo nucleic acid
DOTS	Directly Observed Therapy , short course
d-TDP-Rha	Deoxythymidine diphosphate rhamnose
dTMP	Deoxythymidine monophosphate
dUMP	Deoxyuridine monophosphate
ELISA	Enzyme linked immunosorbent assay
EMB	Ethambutol
ET	Endothelin
ETA	Ethionamide
FA	Factor Analysis
FAS	fatty acid synthase
FQ	Fluoroquinolone
GABA	Gamma amino butyric acid
Gal	Galactofuranose
GnRH	Gonadotropin-releasing hormone
HIV	Human Immunodeficiency Virus
HOMO	Highest occupied molecular orbital
HQSAR	Hologram Quantitative Structure Activity Relationship
HSP	Heat shock protein
ICL	Isocitrate lyase
IL-1	Interleukin-1
INH	Isoniazid
IP	Ionization potential
IR	Infrared
KARI	Ketolacid-reducto-isomerase
KasA	β -Ketoacyl carrier protein synthase
KatG	Catalase peroxidase
kNN	k-Nearest Neighbors
LAM	Lipoarabinomannan

LFER	Linear Free Energy Relationship
LiPA	Line Probe Assay
L-J medium	Lowenstein-Jensen medium
LUMO	Lowest unoccupied molecular orbital
MAO	Monoamino oxidase
MAP	Mitogen-activated protein
MBC	Minimum Bactericidal Concentration
MDR-TB	multidrug resistant tuberculosis
MGIT	Mycobacterial Growth Indicator Tube
MIC	Minimum Inhibitory Concentration
MLR	Multiple Linear Regression
MOTT	Mycobacteria other than tuberculosis
MPM	Mannosyl- β -1-phosphomycoketide
MR	Molar refraction
MR	Molar refractivity
MRI	Magnetic Resonance Imaging
MSA	Molecular shape analysis
MTD	Minimum Topological Difference
MW	Molecular weight
NABA	Nucleic Acid Base Amplification
NAP	Nitro- α -acetylamino- β -hydroxypropionophenone
NMR	Nuclear magnetic resonance
NRPSPKS	Nonribosomal peptide synthetase polyketide synthase
NSAID	Non-steroidal antiinflammatory drugs
NTM	Non-tuberculous mycobacteria
OADC	Oleic acid-albumin-dextrose-catalase
OT	Old Tuberculin
PAS	Para-amino salicylic acid
PAT	Pentaacyl trehalose
PBR	Peripheral benzodiazepine receptor
PCA	Principle Component Analysis
PCR	Polymerase Chain Reaction
PDEs	Phosphodiesterase enzymes
PDF	Peptide deformylase
PLS	Partial least-square

POA	Pyrazinoic acid
PPD	Purified Protein Derivative
PS	Pentothenate synthetase
PZA	Pyrizinamide
QSAR	Quantitative Structure Activity Relationship
QsAR	Quantitative similarity-activity relationship
r m s d	Root mean square distance
RELP	Restriction Fragment Length Polymorphism
RIA	Radioimmuno assay
RIF	Rifampin/nfampicin
RNA	Ribonucleic acid
RNI	Reactive Nitrogen Intermediate
ROI	Reactive Oxygen Intermediate
RP-HPLC	Reversed-phase high pressure liquid chromatography
SAR	Structure Activity Relationship
SASA	Solvent-accessible surface areas
SCID	Severe Combined Immunodeficiency Disease
SDA	Strand Displacement Amplification
SE	South East
SEE	Standard error of estimation
SI	Selectivity Index
SOD	Superoxide dismutase
STM	Streptomycin
TB	Tuberculosis
TD	Total Dipole
TGF	Transforming growth factor
TLM	Thiolactomycin
TMS	Tetramethylsilane
TNF	Tumor necrosis factor
UK	United Kingdom
US	United States
UV	Ultraviolet
VESCF	Variable Electronegativity Self Consistent Field
WHO	World Health Organization
XRD-TB	Extremely Drug Resistant Tuberculosis