

Supplementary table 1: Catalogue of drug resistance-associated mutations of the 202 *Mtb* isolates

Drug	Mutation	WHO final confidence grading	Number of isolates	Lineages of isolates (n)
Rifampicin	<i>rpoB</i> 12931295dupCCA	*not in the WHO catalogue	1	L4.3.2.1 (1)
	<i>rpoB</i> 3031305delGAC	*not in the WHO catalogue	3	L4.4.1.1 (3)
	<i>rpoB</i> 13121314delAAC	*not in the WHO catalogue	3	L4.1.2 (3)
	<i>rpoB</i> A286V+ <i>rpoB</i> S450L	Assoc w R	2	L2.2.1 (2)
	<i>rpoB</i> D435A + <i>rpoB</i> D435V	Assoc w R	1	L2.2.1 (1)
	<i>rpoB</i> D435Y + <i>rpoB</i> T444I	Assoc w R	1	L4.3.4.2.1 (1)
	<i>rpoB</i> D435V	Assoc w R	8	L4.3.2.1 (4) L4.3.4.1 (1) L4.3.3 (1) L2.2.1 (2)
	<i>rpoB</i> Q432L	Assoc w R	5	L4.1.2 (2) L4.1.1.3 (3)
	<i>rpoB</i> Q432P	Assoc w R	2	L4.3.2.1 (2)
	<i>rpoB</i> H445R	Assoc w R	2	L2.2.1 (2)
	<i>rpoB</i> H445N + <i>rpoB</i> L452P	Assoc w R	1	L1.2.2.2 (1)
	<i>rpoB</i> H445D	Assoc w R	20	L1.2.2.2 (3) L2.2.1 (1) L4.1.1.1 (5) L4.1.1.3 (1) L4.1.2 (1) L4.3.2.1 (3) L4.4.1.1 (6)
	<i>rpoB</i> H445D + <i>rpoB</i> H445Y	Assoc w R	1	L4.8.1 (1)
	<i>rpoB</i> H445C	Assoc w R	1	L4.1.1.2; L4.1.1.3 (1)
	<i>rpoB</i> H445L	Assoc w R	38	L1.2.2.2 (31) L2.2.1 (5) L4.9.1 (2)
	<i>rpoB</i> H445S + <i>rpoB</i> H445T + <i>rpoB</i> K446Q	Assoc w R	2	L2.2.1 (2)
	<i>rpoB</i> H445Y	Assoc w R	15	L1.2.2.2 (2) L2.2.1 (5)

				L4.1.2.1 (2)
				L4.3.4.2.1 (1)
				L4.4.1.1 (2)
				L4.8 (3)
	<i>rpoB</i> L430P	Assoc w R	1	L1.2.2.2 (1)
	<i>rpoB</i> I491F	Assoc w R	8	L4.3.3 (8)
	<i>rpoB</i> I491F + <i>rpoB</i> S450L	Assoc w R	1	L4.3.4.1 (1)
	<i>rpoB</i> S441L	Assoc w R	1	L4.3.4.2 (1)
	<i>rpoB</i> S450L	Assoc w R	59	L1.1.3.2 (1)
				L2.2.1 (7)
				L2.2.2 (1)
				L3 (2)
				L4.1.1.3 (12)
				L4.1.2.1(8)
				L4.3.2 (3)
				L4.3.2.1 (5)
				L4.3.4.1 (4)
				L4.3.4.2.1 (1)
				L4.4.1.1 (11)
				L4.8 (1)
				L4.9 (2)
	<i>rpoB</i> S450L + <i>rpoB</i> T400A	Assoc w R	1	L1.1.2 (1)
	<i>rpoB</i> S450L + <i>rpoC</i> I491T	Assoc w R	2	L4.3.3 (2)
	<i>rpoB</i> S450F	Assoc w R	1	L4.3.4.2.1 (1)
	<i>rpoB</i> S450W	Assoc w R	7	L4.4.1.1 (7)
	<i>rpoB</i> S450Y	Assoc w R- interim	2	L1.1.3.2 (2)
	<i>rpoB</i> V170F	Assoc w R	4	L1.2.2.2 (3)
				L4.1.1.3 (1)
	<i>ahpC</i> -54C>T + <i>inhA</i> -154G>A + <i>inhA</i> I21V	Assoc w R	1	L1.2.2.2 (1)
	<i>ahpC</i> -57C>T + <i>katG</i> S315T	Assoc w R	6	L4.1.2.1 (6)
	<i>inhA</i> c + -154G>A	Assoc w R	2	L1.1.3.2 (1)
				L4.8 (1)
	<i>inhA</i> -770T>A + <i>katG</i> S315T	Assoc w R	24	L2.2.1 (16)
				L4.3.3 (8)
	<i>inhA</i> -777C>T + <i>inhA</i> I21V	Assoc w R	1	L4.1.1.3 (1)
	<i>inhA</i> -777C>T	Assoc w R	4	L1.2.2.2 (1)
				L4.1.1.3 (1)
				L4.3.2 (1)
				L4.4.1.1 (1)
	<i>inhA</i> -777C>T + <i>inhA</i> I21T	Assoc w R	6	L4.3.4.1 (6)
	<i>inhA</i> -777C>T + <i>katG</i> S315T	Assoc w R	2	L4.1.2.1 (1)
				L4.3.3 (1)
Isoniazid				

	inhA I21V + inhA S94A	Assoc w R-interim	1	L1.2.2.2 (1)
	inhA S94A	Assoc w R-interim	9	L4.4.1.1(9)
	inhA S94A + katG S315T	Assoc w R	1	L4.3.4.2.1 (1)
	katG S315T	Assoc w R	93	L1.1.2 (1) L1.2.2.2 (37) L2.2.1 (5) L4.1.1.1 (7) L4.1.1.3 (11) L4.1.2 (4) L4.1.2.1 (1) L4.3.2.1 (10) L4.3.3 (2) L4.3.4.2.1 (1) L4.4.1.1 (9) L4.9 (2) L4.9.1 (2)
	<i>gid</i> 102delG	*not in the WHO catalogue	2	L3 (2)
	<i>gid</i> 115delC	*not in the WHO catalogue	1	L4.4.1.1 (1)
	<i>gid</i> 161_290del	*not in the WHO catalogue	8	L4.3.3 (8)
	<i>gid</i> 351delG	*not in the WHO catalogue	5	L4.1.1.1 (5)
Streptomycin	<i>gid</i> A134E	Assoc w R	1	L4.1.2.1 (1)
	<i>gid</i> Q125*	Assoc w R	1	L1.1.2 (1)
	<i>gid</i> L79S + <i>rrs</i> 514A>C	Assoc w R	1	L2.2.2 (1)
	<i>rpsL</i> K43R + <i>rrs</i> 462C>T	Assoc w R	1	L2.2.1 (1)
	<i>rpsL</i> K43R	Assoc w R	10	L4.1.1.3 (4) L4.1.2.1 (6)
	<i>rrs</i> 514A>C	Assoc w R	2	L4.3.3 (1) L4.3.4.2.1 (1)
	<i>rrs</i> 514A>T	*not in the WHO catalogue	1	L1.2.2.2 (1)
	<i>rrs</i> 517C>T	Assoc w R	35	L1.2.2.2 (35)
	<i>rrs</i> 799C>T	*not in the WHO catalogue	1	L4.4.1.1 (1)

Ethambutol	<i>embA</i> -11C>A + <i>embB</i> M306V	Assoc w R	1	L4.3.2.1 (1)
	<i>embA</i> -16C>G + <i>embB</i> E405D	*not in the WHO catalogue	1	L4.1.2.1 (1)
	<i>embA</i> -16C>T	*not in the WHO catalogue	3	L4.3.4.1 (2) L4.3.4.2.1 (1)
	<i>embA</i> -12C>T + <i>embB</i> D354A	Assoc w R	1	L4.3.4.1 (1)
	<i>embA</i> -29_-28delCT + <i>embB</i> Q497R	Assoc w R	35	L1.2.2.2 (35)
	<i>embB</i> D1024N + <i>embB</i> G406A + <i>embB</i> M306I	Assoc w R	1	L4.1.1.3 (1)
	<i>embB</i> D354A	Assoc w R	3	L4.3.4.1 (3)
	<i>embB</i> Q497R	Assoc w R	11	L1.2.2.2 (2) L4.4.1.1 (9)
	<i>embB</i> Q497K	Assoc w R	4	L4.1.1.1 (1) L4.4.1.1 (1) L4.3.3 (2)
	<i>embB</i> Q497K + <i>embB</i> M306I	Assoc w R	2	L2.2.2 (1) L4.1.1.1 (1)
	<i>embB</i> G406A + <i>embB</i> M306I + <i>embB</i> M306I + <i>embB</i> M306L + <i>embB</i> M306V	Assoc w R	1	L1.2.2.2 (1)
	<i>embB</i> G406A	Assoc w R	3	L4.1.1.3 (3)
	<i>embB</i> G406S	Assoc w R	2	L2.2.1 (1) L4.3.2.1 (1)
	<i>embB</i> M306I	Assoc w R	12	L2.2.1 (2) L4.1.1.1 (2) L4.1.2 (3) L4.3.2.1 (2) L4.3.3 (1) L4.4.1.1 (2)
	<i>embB</i> M306V	Assoc w R	18	L2.2.1 (3) L4.1.1.1 (3) L4.1.2.1 (2) L4.3.3 (8) L4.3.4.1 (1) L4.3.4.2.1 (1)
	<i>embB</i> M306L	Assoc w R	1	L1.1.2 (1)
	<i>pncA</i> -1137_*1039del		1	L4.3.2.1 (1)
	<i>pncA</i> 229delC + <i>pncA</i> H57Y + <i>pncA</i> H71R + <i>pncA</i> T61P	Assoc w R	1	L4.4.1.1 (1)

Pyrazinamide	<i>pncA</i> 375_389delCGATGAGG TCGATGT	*not in the WHO catalogue	31	L1.2.2.2 (31)
	<i>pncA</i> 391dupG	*not in the WHO catalogue	4	L4.1.1.3 (4)
	<i>pncA</i> 416_417dupTG	*not in the WHO catalogue	1	L4.3.4.2.1 (1)
	<i>pncA</i> A134V	Assoc w R	2	L4.3.2.1 (2)
	<i>pncA</i> G132A	Assoc w R	8	L4.3.3 (8)
	<i>pncA</i> G132S	Assoc w R	4	L4.1.1.3 (4)
	<i>pncA</i> G97C	*not in the WHO catalogue	5	L4.1.1.1 (5)
	<i>pncA</i> G97R	Assoc w R	1	L1.2.2.2 (1)
	<i>pncA</i> H57Y	Assoc w R	1	L4.4.1.1 (1)
	<i>pncA</i> H71R	Assoc w R	1	L4.3.2.1 (1)
	<i>pncA</i> H71Y	Assoc w R	1	L4.1.2.1 (1)
	<i>pncA</i> F94L	Assoc w R	3	L4.4.1.1 (3)
	<i>pncA</i> T135P	Assoc w R	6	L4.1.2.1 (6)
	<i>pncA</i> T160P	Assoc w R	3	L4.1.2 (3)
	<i>pncA</i> T61P	Assoc w R	1	L4.1.2.1 (1)
	<i>pncA</i> T76P	Assoc w R	2	L4.3.2.1 (2)
	<i>pncA</i> V139A	Assoc w R	3	L1.2.2.2 (3)
	<i>pncA</i> V7A	Assoc w R- interim	1	L1.2.2.2 (1)
<i>pncA</i> V7G	Assoc w R	1	L4.4.1.1 (1)	
<i>ethA</i> -11A>G+ <i>inhA</i> - 770T>A	Assoc w R- interim	8	L4.3.3 (8)	
<i>ethA</i> -269_751del + <i>inhA</i> -770T>A	Assoc w R- interim	1	L2.2.1 (1)	
<i>ethA</i> 174delC	*not in the WHO catalogue	2	L4.3.2.1 (2)	

Ethionamide	<i>ethA</i> 242_243insA	*not in the WHO catalogue	4	L1.2.2.2 (4)
	<i>ethA</i> 851delC	*not in the WHO catalogue	2	L4.1.1 (2)
	<i>ethA</i> 860delA	*not in the WHO catalogue	6	L4.1.2.1 (6)
	<i>ethA</i> 98_336del + <i>inhA</i> S94A	*not in the WHO catalogue	1	L4.3.4.3.1 (1)
	<i>ethA</i> A381P	*not in the WHO catalogue	1	L2.2.2 (1)
	<i>ethA</i> T61M	*not in the WHO catalogue	1	L4.3.4.2.1 (1)
	<i>ethA</i> G52*	*not in the WHO catalogue	1	L4.1.1.1 (1)
	<i>inhA</i> -154G>A	Assoc w R-interim	3	L1.1.3.2 (1) L1.2.2.2 (1) L4.8 (1)
	<i>inhA</i> -770T>A	Assoc w R-interim	15	L2.2.1 (15)
	<i>inhA</i> -777C>T	Assoc w R	7	L1.2.2.2 (1) L4.1.1.3 (2) L4.1.2.1 (1) L4.3.3 (1) L4.3.2 (1) L4.4.1.1 (1) L4.3.4.1 (6)
	<i>inhA</i> -777C>T+ <i>inhA</i> I21T	Assoc w R	6	L4.3.4.1 (6)
<i>inhA</i> S94A	Assoc w R-interim	10	L1.2.2.2 (1) L4.4.1.1 (8)	
Moxifloxacin/Levofloxacin	<i>gyrA</i> A90V	Assoc w R	27	L1.2.2.2 (27)
	<i>gyrA</i> Asp94A	Assoc w R	2	L4.3.3 (2)
	<i>gyrA</i> Asp94G	Assoc w R	4	L4.1.1.1 (2) L4.3.3 (2)
	<i>gyrA</i> G88C	Assoc w R	1	L4.3.3 (1)
Amikacin/Kanamycin /Capreomycin	<i>rrs</i> 1401A>G	Assoc w R	2	L4.3.3 (2)
	<i>rrs</i> 1402C>A + <i>rrs</i> 1484G>T	Assoc w R	2	L4.4.1.1 (2)