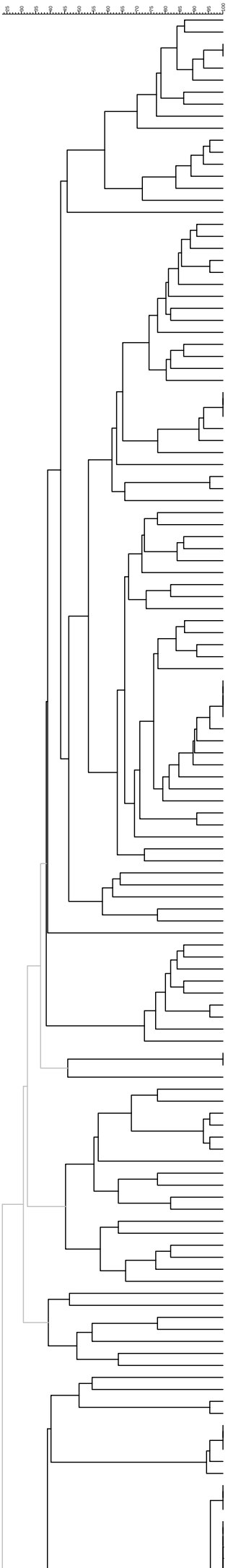
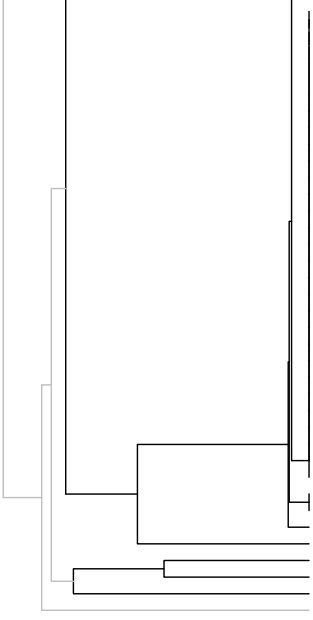
Categorical
mlva



	mlva																											
	ETRA-2165_7593	ETRB-2461_5715	ETRC-0577_5987	ETRD-0580_7779	ETRE-3192_5383	MIRU02_0154	MIRU10-0939_5	MIRU16-1644_5	MIRU23-2531_5	MIRU26-2996_5	MIRU27-3006_5	MIRU39-4348_5	MIRU40-0802_5	Mtub01_0324	Mtub02_0079	Mtub12_1121	Mtub21-1955_5	Mtub29_2347	Mtub30-2401_5	Mtub38_3663	Mtub39-3690_5	Qub11a_2163						
ADN19																												
Mtub#172	4.0	2.0	4.0	3.0	5.0		3.0	4.0	5.0	7.0	3.0	3.0	3.0				3.0		4.0		4.0		Pasteur	BEIJ	Le Flèche2002	beijing tuberculosis
ADN11	4.0	2.0	4.0	3.0	5.0	2.0	3.0	4.0	5.0	7.0	3.0	3.0	3.0	9.0	28.0	4.0	5.0	4.0	4.0	0.0	4.0	6.0						
ADN15	4.0	2.0	4.0	3.0	5.0		3.0	3.0	5.0	7.0	3.0	3.0	3.0				5.0		4.0		4.0							
Mtub#185	4.0	2.0	4.0	3.0	5.0	2.0	3.0	3.0	5.0	8.0	3.0	3.0	3.0	9.0	28.0	4.0	5.0	4.0	4.0	0.0	4.0	10.0	France	BEIJ	Le Flèche2002	tuberculosis
Mtub#226	4.0	2.0	4.0	3.0	5.0	2.0	3.0	3.0	5.0	7.0	3.0	3.0	3.0	9.0	28.0	3.0	1.0	4.0	4.0	0.0	4.0	14.0	France	BEIJ	Le Flèche2002	tuberculosis
Mtub#168	4.0	2.0	4.0	2.0	5.0	2.0	2.0	3.0	3.0	7.0	3.0	3.0	3.0	9.0	28.0	4.0	5.0	4.0	4.0	0.0	4.0	9.0	Pasteur	BEIJ	Le Flèche2002	beijing tuberculosis
Mtub#169	4.0	2.0	4.0	3.0	5.0	2.0	2.0	3.0	5.0	7.0	3.0	2.0	3.0	9.0	28.0	4.0	5.0	4.0	4.0	0.0	4.0	9.0	Pasteur	BEIJ	Le Flèche2002	beijing tuberculosis
Mtub#164	4.0	2.0	4.0	3.0	2.0	2.0	3.0	3.0	5.0	4.0	3.0	3.0	3.0	9.0	28.0	4.0	4.0	4.0	4.0	0.0	4.0	9.0	Pasteur	BEIJ	Le Flèche2002	beijing tuberculosis
Mtub#161	4.0	2.0	4.0	3.0	3.0	2.0	3.0	3.0	5.0	7.0	1.0	3.0	1.0	9.0	28.0	4.0	6.0	4.0	4.0	0.0	4.0	11.0	Djibouti	BEIJ	Le Flèche2002	beijing tuberculosis
Mtub#113	4.0	2.0	2.0	3.0	5.0	2.0	4.0	3.0	5.0	7.0	3.0	3.0	3.0	9.0	9.0	3.0	4.0	4.0	2.0	1.0	4.0	10.0	Djibouti	CAS	Le Flèche2002	africanum
Mtub#114	4.0	2.0	2.0	3.0	5.0	2.0	4.0	1.0	5.0	7.0	3.0	3.0	3.0	9.0	9.0	3.0	4.0	4.0	2.0	1.0	4.0	10.0	Djibouti	CAS	Le Flèche2002	africanum
Mtub#116	4.0	2.0	2.0	3.0	4.0	2.0	4.0	3.0	5.0	7.0	3.0	3.0	3.0	9.0	9.0	3.0	4.0	4.0	2.0	1.0	4.0	10.0	Djibouti	CAS	Le Flèche2002	africanum
ADN09	4.0	2.0	2.0	3.0	5.0		4.0	3.0	5.0	7.0	3.0	3.0	3.0				5.0		2.0		4.0							
Mtub#415	4.0	2.0	2.0	3.0	5.0	2.0	4.0	4.0	5.0	3.0	3.0	3.0	3.0	9.0	8.0	3.0	4.0	4.0	2.0	1.0	4.0	10.0	Djibouti	CAS	Le Flèche2002	tuberculosis
ADN14	4.0	2.0	2.0	3.0	8.0		6.0	4.0	5.0	7.0	3.0	3.0	4.0				4.0		2.0		4.0							
ADN12	4.0	2.0	2.0	3.0	4.0		7.0	4.0	5.0	1.0	3.0	3.0	4.0				3.0		2.0		3.0							
Mtub#152	3.0	2.0	3.0	3.0	3.0	2.0	5.0	3.0	5.0	3.0	3.0	2.0	3.0	9.0	8.0	4.0	2.0	4.0	4.0	1.0	4.0	8.0	Cameroon	MOD_CDC	Le Flèche2002	tuberculosis
Mtub#183	3.0	2.0	3.0	3.0	3.0	2.0	5.0	3.0	5.0	5.0	3.0	2.0	3.0	9.0	8.0	4.0	2.0	4.0	4.0	1.0	4.0	10.0	France	H1	Le Flèche2002	tuberculosis
Mtub#200	3.0	2.0	3.0	3.0	3.0	2.0	5.0	3.0	5.0	5.0	3.0	2.0	3.0	8.0	8.0	4.0	2.0	4.0	4.0	1.0	4.0	7.0	France	H3	Le Flèche2002	tuberculosis
Mtub#061	3.0	2.0	3.0	3.0	3.0	2.0	5.0	3.0	5.0	5.0	3.0	2.0	3.0	9.0	8.0	4.0	3.0	4.0	4.0	1.0	4.0	11.0	Niger	T1	Le Flèche2002	tuberculosis
Mtub#197	3.0	2.0	3.0	3.0	3.0	2.0	5.0	3.0	5.0	5.0	3.0	2.0	3.0	9.0	8.0	4.0	3.0	4.0	4.0	1.0	6.0	11.0	France	MOD_CDC	Le Flèche2002	tuberculosis
Mtub#128	3.0	2.0	3.0	3.0	3.0	2.0	5.0	3.0	5.0	5.0	3.0	2.0	4.0	9.0	8.0	4.0	4.0	4.0	4.0	1.0	4.0	7.0	Niger	MOD_CDC	Le Flèche2002	tuberculosis
Mtub#207	3.0	2.0	3.0	3.0	3.0	2.0	5.0	2.0	5.0	5.0	4.0	2.0	3.0	9.0	8.0	4.0	3.0	3.0	4.0	1.0	4.0	10.0	France	MOD_CDC	Le Flèche2002	tuberculosis
Mtub#150	3.0	2.0	3.0	3.0	3.0	2.0	5.0	3.0	5.0	5.0	3.0	2.0	2.0	9.0	8.0	4.0	3.0	3.0	4.0	1.0	4.0	4.0	Cameroon	MOD_CDC	Le Flèche2002	tuberculosis
Mtub#219	2.0	2.0	3.0	3.0	3.0	2.0	5.0	3.0	5.0	5.0	3.0	2.0	3.0	9.0	8.0	4.0	3.0	2.0	4.0	1.0	4.0	6.0	France	MOD_CDC	Le Flèche2002	tuberculosis
Mtub#215	3.0	2.0	3.0	3.0	3.0	2.0	4.0	3.0	5.0	5.0	3.0	2.0	2.0	9.0	10.0	4.0	3.0	4.0	4.0	1.0	4.0	11.0	France	H3	Le Flèche2002	tuberculosis
Mtub#187	3.0	2.0	3.0	3.0	3.0	2.0	5.0	3.0	5.0	5.0	3.0	2.0	3.0	9.0	8.0	4.0	2.0	2.0	2.0	1.0	4.0	5.0	France	MOD_CDC	Le Flèche2002	tuberculosis
Mtub#212	3.0	2.0	3.0	3.0	3.0	2.0	5.0	3.0	3.0	5.0	3.0	2.0	3.0	9.0	8.0	4.0	3.0	2.0	4.0	1.0	4.0	24.0	France	MOD_CDC	Le Flèche2002	tuberculosis
Mtub#143	3.0	2.0	3.0	3.0	3.0	2.0	4.0	2.0	3.0	5.0	3.0	2.0	3.0	9.0	8.0	4.0	2.0	2.0	4.0	1.0	4.0	11.0	France	H1	Le Flèche2002	tuberculosis
Mtub#203	3.0	2.0	3.0	3.0	3.0	2.0	5.0	3.0	3.0	5.0	3.0	2.0	3.0	9.0	9.0	4.0	2.0	2.0	4.0	1.0	7.0	9.0	France	H3	Le Flèche2002	tuberculosis
ADN07	3.0	2.0	4.0	3.0	3.0		5.0	1.0	5.0	1.0	3.0	2.0	2.0				3.0		4.0		4.0							
ADN10	3.0	2.0	4.0	3.0	3.0		5.0	1.0	5.0	1.0	3.0	2.0	2.0				3.0		4.0		4.0							
ADN18	3.0	2.0	4.0	3.0	3.0		5.0	1.0	5.0	1.0	3.0	2.0	2.0				3.0		4.0		4.0							
ADN03	3.0	2.0	4.0	3.0	3.0		5.0	1.0	5.0	1.0	3.0	2.0	2.0				3.0		4.0		5.0							
ADN20	3.0	2.0	4.0	3.0	3.0		4.0	1.0	5.0	1.0	3.0	2.0	2.0				3.0		4.0		4.0							
Mtub#221	3.0	2.0	4.0	3.0	3.0	2.0	5.0	3.0	5.0	5.0	3.0	2.0	2.0	9.0	8.0	5.0	2.0	4.0	4.0	1.0	4.0	24.0	France	MOD_CDC	Le Flèche2002	tuberculosis
Mtub#349	2.0	2.0	3.0	3.0	3.0	2.0	5.0	3.0	5.0	5.0	3.0	2.0	5.0	9.0	7.0	5.0	3.0	3.0	4.0	-1.0	4.0	7.0		H3	Le Flèche2002	tuberculosis
Mtub#138	3.0	2.0	3.0	3.0	3.0	2.0	3.0	3.0	5.0	4.0	3.0	3.0	6.0	9.0	8.0	4.0	4.0	4.0	4.0	1.0	4.0	7.0	Niger	MOD_CDC	Le Flèche2002	tuberculosis
Mtub#139	3.0	2.0	3.0	3.0	4.0	2.0	3.0	3.0	5.0	4.0	3.0	3.0	6.0	9.0	8.0	4.0	4.0	4.0	4.0	1.0	4.0	7.0	Niger	MOD_CDC	Le Flèche2002	tuberculosis
Mtub#189	3.0	2.0	3.0	3.0	4.0	2.0	4.0	3.0	5.0	4.0	3.0	2.0	3.0	9.0	10.0	5.0	3.0	4.0	4.0	1.0	4.0	10.0	France	MOD_CDC	Le Flèche2002	tuberculosis
Mtub#199	2.0	2.0	3.0	3.0	3.0	2.0	3.0	2.0	5.0	5.0	3.0	2.0	2.0	10.0	6.0	4.0	2.0	4.0	2.0	2.0	4.0	5.0	France	MOD_H37	Le Flèche2002	tuberculosis
Mtub#222	2.0	2.0	4.0	3.0	3.0	2.0	3.0	1.0	5.0	5.0	3.0	2.0	4.0	10.0	6.0	4.0	2.0	4.0	2.0	2.0	6.0	4.0	France	MOD_H37	Le Flèche2002	tuberculosis
Mtub#186	3.0	2.0	4.0	3.0	3.0	2.0	3.0	2.0	5.0	5.0	3.0	2.0	3.0	10.0	6.0	4.0	2.0	4.0	2.0	1.0	4.0	10.0	France	MOD_H37	Le Flèche2002	tuberculosis
Mtub#214	3.0	2.0	4.0	3.0	3.0	2.0	2.0	2.0	5.0	5.0	3.0	2.0	4.0	10.0	6.0	4.0	2.0	4.0	2.0	1.0	4.0	6.0	France	MOD_H37	Le Flèche2002	tuberculosis
Mtub#225	3.0	2.0	2.0	3.0	3.0	2.0	2.0	2.0	5.0	5.0	3.0	2.0	2.0	10.0	6.0	4.0	2.0	4.0	2.0	1.0	4.0	11.0	France	MOD_H37	Le Flèche2002	tuberculosis
Mtub#205	2.0	2.0	4.0	3.0	3.0	2.0	2.0	2.0	5.0	5.0	3.0	2.0	2.0	8.0	5.0	4.0	2.0	4.0	2.0	2.0	4.0	24.0	France	MOD_H37	Le Flèche2002	tuberculosis
Mtub#140	3.0	2.0	4.0	3.0	1.0	2.0	3.0	3.0	5.0	5.0	3.0	2.0	4.0	10.0	6.0	4.0	1.0	4.0	2.0	2.0	4.0	25.0	Niger	MOD_H37	Le Flèche2002	tuberculosis
Mtub#201	3.0	2.0	4.0	3.0	4.0	2.0	3.0	3.0	6.0	5.0	3.0	2.0	4.0	10.0	6.0	4.0	2.0	4.0	2.0	2.0	4.0	24.0	France	MOD_H37	Le Flèche2002	tuberculosis
ADN17	3.0	2.0	4.0	3.0	3.0		3.0	3.0	6.0	5.0	3.0	2.0	1.0				2.0		2.0		7.0							
ADN08	3.0	2.0	4.0	3.0	3.0		3.0	2.0	5.0	5.0	3.0	2.0	4.0				3.0		2.0		6.0							
Mtub#149	3.0	3.0	4.0	3.0	3.0	2.0	3.0	2.0	5.0	5.0	3.0	2.0	4.0	10.0	6.0	4.0	3.0	4.0	2.0	1.0	11.0	25.0	Cameroon	MOD_H37	Le Flèche2002	tuberculosis
Mtub#064	4.0	2.0	4.0	3.0	3.0	2.0	3.0	2.0	5.0	5.0	3.0	2.0	3.0	10.0	6.0	4.0	3.0	4.0	2.0	1.0	3.0	25.0	Niger	MOD_H37	Le Flèche2002	tuberculosis
Mtub#129	3.0	2.0	4.0	3.0	3.0	2.0	3.0	2.0	5.0	5.0	3.0	2.0	3.0	10.0	6.0	4.0	3.0	4.0	2.0	1.0	10.0	25.0	Niger	MOD_H37	Le Flèche2002	tuberculosis
Mtub#146	3.0	2.0	5.0	3.0	3.0	2.0	3.0	4.0	5.0	5.0	3.0	2.0	3.0	10.0	6.0	4.0	3.0	4.0	2.0	1.0	11.0	24.0	Cameroon	MOD_H37	Le Flèche2002	tuberculosis
Mtub#058	4.0	2.0	4.0	3.0	3.0	2.0	3.0	3.0	5.0	5.0	3.0	2.0	3.0	10.0	6.0	4.0	3.0	4.0	2.0	1.0	4.0	6.0	Niger	MOD_H37	Le Flèche2002	tuberculosis
Mtub#136	4.0	2.0	4.0	3.0	3.0	2.0	3.0	3.0	5.0	5.0	3.0	2.0	3.0	10.0	6.0	4.0	3.0	4.0	2.0	1.0	4.0	6.0	Niger	MOD_H37	Le Flèche2002	tuberculosis
Mtub#145	4.0	2.0	4.0	3.0	3.0	2.0	3.0	3.0	5.0	5.0	3.0	2.0	3.0	10.0	6.0	4.0	3.0	4.0	2.0	1.0	4.0	6.0	Cameroon	Cameroon	Le Flèche2002	tuberculosis
Mtub#147	4.0	2.0	4.0	3.0	3.0	2.0	3.0	3.0	5.0	5.0	3.0	2.0	3.0	10.0	6.0	4.0	3.0	4.0	2.0	1.0	4.0	6.0	Cameroon	MOD_H37	Le Flèche2002	tuberculosis
Mtub#148	4.0	2.0	4.0	3.0	3.0	2.0	3.0	3.0	5.0	5.0	3.0	2.0	3.0	10.0	6.0	4.0	3.0	4.0	2.0	1.0	17.0	6.0	Cameroon	MOD_H37	Le Flèche2002	tuberculosis
Mtub#081	4.0	2.0	4.0	3.0	3.0	2.0	3.0	3.0	5.0	5.0	3.0	2.0	3.0	10.0	6.0	4.0	3.0	2.0	2.0	1.0	22.0	6.0	Cameroon	Cameroon	Le Flèche2002	tuberculosis
Mtub#141	4.0	2.0	4.0	3.0	3.0	2.0	3.0	2.0	5.0	5.0	3.0	2.0	3.0	10.0	6.0	4.0	3.0	4.0	2.0	1.0	18.0	6.0	Niger	MOD_H37	Le Flèche2002	tuberculosis
Mtub#151	4.0	2.0	4.0	3.0	3.0	2.0	3.0	3.0	5.0	5.0	3.0	2.0	1.0	10.0	6.0	4.0	3.0	4.0	2.0	1.0	21.0	6.0	Cameroon	MOD_H37	Le Flèche2002	tuberculosis
Mtub#130	4.0	4.0	4.0	3.0	3.0	2.0	3.0	3.0	5.0	3.0	3.0	2.0	3.0	10.0	6.0	4.0	3.0	4.0	2.0	1.0	3.0	6.0	Niger	MOD_H37	Le Flèche2002	tuberculosis
Mtub#444	4.0	2.0	4.0	3.0	4.0	2.0	3.0	3.0	5.0	5.0	3.0	2.0	3.0	10.0	7.0	4.0	3.0	4.0	2.0	1.0	4.0	11.0	begin	T2	Le Flèche2002	
Mtub#126	4.0	2.0	4.0	3.0	5.0	2.0	3.0	3.0	5.0	5.0	3.0	2.0	3.0	10.0	6.0	4.0	2.0	4.0	2.0	1.0	5.0	25.0	France	T1	Le Flèche2002	tuberculosis
Mtub#063	3.0	1.5	3.0	3.0	3.0	2.0	3.0	3.0	5.0	4.0	3.0	2.0	3.0	10.0	6.0	4.0	3.0	4.0	2.0	1.0	3.0	25.0	Niger	MOD_H37	Le Flèche2002	tuberculosis
Mtub#133	3.0	1.5	3.0	3.0	3.0	2.0	3.0	3.0	5.0	4.0	3.0	2.0	3.0	10.0	6.0	4.0	3.0	4.0	2.0	1.0	4.0	24.0	Niger	H1	Le Flèche2002	tuberculosis
ADN01	2.0	2.0	4.0	3.0	3.0		3.0	3.0	5.0	4.0	3.0	2.0	4.0				3.0		2.0		5.0							
Mtub#142	3.0	2.0	3.0	3.0	2.0	2.0	3.0	2.0	5.0	3.0	3.0	2.0	2.0	10.0	6.0	4.0	3.0	4.0	2.0	1.0	4.0	6.0	Niger	MOD_H37	Le Flèche2002	tuberculosis
Mtub#220	3.0	2.0	3.0	3.0	4.0	2.0	3.0	1.0	1.0	5.0	3.0	2.0	2.0	10.0	6.0	4.0	2.0	4.0	2.0	2.5	4.0	6.0	France	MOD_H37	Le Flèche2002	tuberculosis
ADN02	2.0	2.0	4.0	3.0	3.0		3.0	2.0		1.0	3.0	2.0	1.0				3.0		1.0		3.0							
Mtub#223	2.0	2.0	4.0	3.0	3.0	2.0	4.0	2.0	6.0	4.0	3.0	2.0	3.0	10.0	5.0	4.0	3.0	4.0	2.0	1.0	2.0	6.0	France	LAM3	Le Flèche2002	tuberculosis
Mtub#206	2.0	1.0	4.0	3.0	4.0	2.0	4.0	2.0	6.0	5.0	1.0	2.0	1.0	10.0	5.0	4.0	3.0	4.0	1.0	0.5	3.0	8.0	France	LAM3	Le Flèche2002	tuberculosis
Mtub#218	2.0	2.0	4.0	3.0	2.0	1.0	3.0	3.0	6.0	5.0	3.0	2.0	6.0	7.0	5.0	4.0	3.0	4.0	1.0	1.0	2.0	4.0	France	LAM3	Le Flèche2002	tuberculosis
Mtub#224	2.0	2.0	4.0	3.0	2.0	1.0	2.0	3.0	6.0	5.0	3.0	2.0	4.0	10.0	5.0	4.0	3.0	4.0	1.0	1.0	4.0	8.0	France	LAM3	Le Flèche2002	tuberculosis
Mtub#075	3.0	3.0	4.0	3.0	2.0	2.0	1.0	3.0	5.0	3.0	1.0	2.0	2.0	10.0	6.0	5.0	1.0	2.0	2.0	1.0	4.0	25.0	Djibouti		Le Flèche2002	tuberculosis
Mtub#118	3.0	2.0	4.0	3.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	2.0	1.0	9.0	6.0	4.0	2.0	3.0	4.0	1.0	4.0	9.0	(Afrique)	AFRI1	Le Flèche2002	africanum
Mtub#121	4.0	2.0	4.0	3.0	2.0	2.0	4.0	3.0	4.0	4.0	4.0	2.0	1.0	9.0	5.0	4.0	2.0	3.0	4.0	1.0	4.0	9.0	Cameroon	AFRI1	Le Flèche2002	africanum
Mtub#134	4.0	2.0	4.0	3.0	2.0	2.0	4.0	4.0	4.0	3.0	4.0	2.0	1.0	9.0	5.0	4.0	2.0	3.0	4.0	1.0	4.0	8.0	Niger	AFRI1	Le Flèche2002	africanum
Mtub#112	4.0	2.0	4.0	3.0	2.0	2.0	4.0	4.0	4.0	4.0	3.0	2.0	1.0	9.0	5.0	4.0	2.0	3.0	2.0	1.0	5.0	9.0	(Afrique)	AFRI1	Le Flèche2002	africanum
Mtub#178	2.0	2.0	4.0	3.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	2.0	1.0	9.0	5.0	4.0	2.0	3.0	4.0	1.0	5.0	9.0	(Afrique)	AFRI1	Le Flèche2002	africanum
Mtub#122	4.0	2.0	4.0	3.0	2.0	2.0	4.0	4.0	2.0	4.0	4.0	2.0	1.0	9.0	5.0	3.0	2.0	3.0	4.0	1.0	4.0	9.0	Cameroon	AFRI1	Le Flèche2002	africanum
Mtub#123	4.0	2.0	4.0	3.0	2.0	2.0	4.0	4.0	2.0	5.0	4.0	2.0	1.0	9.0	5.0	3.0	2.0	3.0	4.0	1.0	4.0	9.0	Cameroon	AFRI1	Le Flèche2002	africanum
Mtub#109	4.0	2.0	2.0	3.0	2.0	2.0	4.0	4.0	4.0	3.0	4.0	2.0	1.0	9.0	6.0	4.0	2.0	3.0	2.0	1.0	4.0	9.0	(Afrique)	AFRI1	Le Flèche2002	africanum
Mtub#131	4.0	4.0	4.0	3.0	2.0	2.0	4.0	3.0	4.0	3.0	3.0	2.0	1.0	9.0	5.0	4.0	2.0	3.0	4.0	1.0	3.0	9.0	Niger	AFRI1	Le Flèche2002	africanum
Mtub#348	3.0	3.0	4.0	3.5	3.0	2.0	3.0	2.0	6.0	3.0	3.0	2.0	1.0	10.0	6.0	4.0	2.0	4.0	2.0	2.5	6.0	3.0		MOD_H37	Le Flèche2002	tuberculosis
Témoin	3.0	3.0	4.0	3.5	3.0		3.0	2.0	6.0	3.0	3.0	2.0	1.0				2.0		2.0		6.0							
Mtub#227	3.0	3.0	4.0	5.0	3.0	1.0	7.0	4.0	4.0	5.0	3.0	2.0	3.0	9.0	6.0	4.0	4.0	4.0	2.0	1.0	2.0	12.0	France		Le Flèche2002	tuberculosis
Mtub#157	5.0	5.0	5.0	4.0	3.0	2.0	2.0	3.0	4.0	5.0	1.0	2.0	2.0	9.0	10.0	4.0	1.0	3.0	4.0	1.0	3.0	10.0	France	BOV	Le Flèche2002	bovis
Mtub#158	5.0	2.0	5.0	4.0	5.0	2.0	2.0	3.0	4.0	5.0	2.0	2.0	2.0	9.0	9.0	4.0	1.0	3.0	4.0	1.0	3.0	11.0	France	BOV	Le Flèche2002	bovis
Mtub#195	5.0	5.0	5.0	3.5	3.0	2.0	2.0	3.0	4.0	5.0	3.0	2.0	2.0	9.0	11.0	4.0	1.0	2.0	2.0	1.0	3.0	9.0	France	BOV	Le Flèche2002	bcg
Mtub#196	5.0	5.0	5.0	3.5	3.0	2.0	2.0	3.0	4.0	5.0	3.0	2.0	2.0	9.0	11.0	4.0	1.0	2.0	2.0	1.0	3.0	6.0	France	BOV	Le Flèche2002	bcg
Mtub#106	5.0	5.0	5.0	3.5	3.0	2.0	2.0	3.0	4.0	5.0	3.0	2.0	2.0	9.0	11.0	4.0	1.0	2.0	2.0	1.0	3.0	11.0	France	BOV	Le Flèche2002	bcg
Mtub#107	5.0	5.0	5.0	3.5	3.0	2.0	2.0	3.0	4.0	3.0	3.0	2.0	2.0	9.0	11.0	4.0	1.0	2.0	2.0	1.0	3.0	11.0	France	BOV	Le Flèche2002	bcg
ADN16	5.0	5.0	6.0	4.0	3.0		2.0	3.0	4.0	4.0	2.0	1.0	2.0				3.0		4.0		3.0							
Mtub#159	9.0	5.0	5.0	4.0	3.0	2.0	2.0	2.0	4.0	4.0	3.0	2.0	1.0	9.0	8.0	4.0	3.0	3.0	4.0	1.0	3.0	10.0	France	BOV	Le Flèche2002	bovis
Mtub#350	9.0	5.0	5.0	5.0	3.0	2.0	2.0	2.0	4.0	5.0	3.0	2.0	2.0	9.0	7.0	4.0	3.0	3.0	4.0	-1.0	3.0	10.0		BOV_AFRI	Le Flèche2002	bovis
Mtub#110	6.0	4.0	3.0	4.0	1.0	2.0	2.0	2.0	4.0	4.0	3.0	2.0	2.0	9.0	8.0	4.0	3.0	3.0	4.0	1.0	4.0



10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#066	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#067	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#068	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#072	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#073	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#085	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#086	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#087	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#088	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#089	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#091	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#092	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#094	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#099	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#100	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#101	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#102	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#103	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#104	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#165	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#181	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#184	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#213	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#291	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#293	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#296	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#298	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0		3.0	11.0	Mtub#344	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#393	Marseille	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	9.0	Mtub#105	Versailles, 78.	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	8.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	9.0	Mtub#244	Djibouti	CAN	Fabre2004	canettii
10.0	4.0	6.0	3.0	4.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	9.0	9.0	8.0	4.0	3.0	5.0	2.0	0.1	3.0	11.0	Mtub#290	Djibouti	CAN	Fabre2004	canettii
10.0	1.0	6.0	2.0	6.0	0.1	3.0		2.0	3.0	1.0	2.0	5.0	9.0	8.0	4.0	3.0	5.0	1.0	0.0	1.0	11.0	Mtub#095	Djibouti	CAN	Fabre2004	canettii
10.0	5.0	4.0	3.0	7.0	1.0	3.0	3.0	8.0	6.0	2.0	3.0	6.0	9.0	6.0	5.0	2.0	5.0	5.0	0.1	3.0	11.0	Mtub#093	Djibouti	CAN	Fabre2004	canettii
10.0	6.0	3.0	2.0	6.0	3.0	3.0	3.0	8.0	7.0	2.0	3.0	6.0	9.0	6.0	5.0	2.0	5.0	5.0	1.0	5.0	11.0	Mtub#163	Pasteur	CAN	Fabre2004	canetti de référence
10.0	6.0	5.0	3.0	7.0	3.0	2.0	3.0	7.0	6.0	1.0	2.0	7.0	9.0	7.0	5.0	3.0	5.0	1.0	0.1	4.0	11.0	Mtub#090	Djibouti	CAN	Fabre2004	canettii
10.0	1.0	10.0	6.0	3.0	4.0	3.0	2.0	2.0	2.0	0.0	1.5	1.0	9.0	8.0	3.0	1.0	4.0	2.0	1.0	1.0	11.0	Mtub#153	Djibouti	CAN	Fabre2004	canettii