

**Additional file 1: Molecular typing data comparison of *M. bovis* isolates in different regions in Tunisia and in French**

Study	Source, (Nb)	Nb isolates *	Region/ Nb	Total of genotypes	Common VNTR loci/different Genotypes						VNTR types	HGDI	Total of cluster	Total of spoligotypes	Common frequent spoligotypes							
					ETRA	ETRB	MIRU4	QUB11a	QUB11b	QUB3232					SB 0120 Nb (%) Region (Nb) [Nb of genotype]	SB0134 Nb (%) Region (Nb) [Nb of genotype]	SB 0121 Nb (%) Region (Nb) [Nb of genotype]	SB 2025 Nb (%) Region (Nb) [Nb of genotype]	SB 0418 Nb (%) Region (Nb) [Nb of genotype]	SB 2024 Nb (%) Region (Nb) [Nb of genotype]	SB1003 Nb (%) Region (Nb) [Nb of genotype]	SB1200 Nb (%) Region (Nb) [Nb of genotype]
This study	Cattle, (149)	96	k, B, Je, Ma, Mo, A Sf, G, M, SB :10	73	5	6	3	11	4	6	MV1	0,993	15	25	35 (36.4%)	11 (11.4%)	7 (7.2%)	7 (7.2%)	1 (1.04%)	1 (1.04%)	6 (6.25%)	4 (4.1%)
					5	5	3	10	4	6	MV2											
					4	5	3	11	3	9	MV3											
					4	7	3	11	3	6	MV4											
					5	5	3	11	3	7	MV5											
					5	5	3	11	4	4	MV6											
					4	2	3	11	3	6	MV7											
					5	5	3	11	2	7	MV8											
					4	2	3	11	3	6	MV9											
					3	5	3	11	3	6	MV10											
					5	3	3	11	2	6	MV11											
					2	3	2	11	2	7	MV12											
					5	5	3	11	2	7	MV13											
					5	7	3	10	4	6	MV14											
					4	5	3	11	5	5	MV15											
					5	5	3	11	4	6	MV16											
					5	5	3	11	5	6	MV17											
					7	6	3	11	3	9	MV18											
					4	5	3	11	4	6	MV19											
					5	4	3	11	4	8	MV20											
					5	5	3	11	2	6	MV21											
					5	5	3	11	1	6	MV22											
					4	3	3	11	3	6	MV23											
					4	5	3	11	3	6	MV24											
					4	5	3	11	3	6	MV25											
					4	5	3	11	3	6	MV26											
					3	5	3	9	3	6	MV27											
					5	5	3	11	3	5	MV28											
					4	3	2	11	2	7	MV29											
					5	5	2	11	4	6	MV30											
					5	4	3	11	4	6	MV31											
					5	5	3	10	4	6	MV32											
					4	5	4	11	4	6	MV33											
					5	3	3	11	3	6	MV34											
					3	5	3	11	2	6	MV35											
					5	4	3	11	4	6	MV36											
					5	4	3	11	4	3	MV37											
					5	3	3	11	1	6	MV38											
					5	4	3	11	4	3	MV39											
					6	4	3	8	3	4	MV40											



Study	Source, (Nb)	Nb of isolates *	Region/Nb	Total of genotypes	Common VNTR loci/different Genotypes						HGDI	Total of cluster	Total of spoligotypes	Common frequent spoligotypes								
					ETR-A	ETR-B	MIRU4	QUB11a	QUB11b	QUB3232				SB 0120 Nb (%) Region (Nb) [Nb of genotype]	SB0134 Nb (%) Region (Nb) [Nb of genotype]	SB 0121 Nb (%) Region (Nb) [Nb of genotype]	SB 2025 Nb (%) Region (Nb) [Nb of genotype]	SB 0418 Nb (%) Region (Nb) [Nb of genotype]	SB 2024 Nb (%) Region (Nb) [Nb of genotype]	SB1003 Nb (%) Region (Nb) [Nb of genotype]	SB1200 Nb (%) Region (Nb) [Nb of genotype]	
<i>L-K et al</i> [3]	Cattle, (100)	35	Sf, G, B, SB, N :5	19	4	3	3	11	3	5		0.969	6	9	16 (37.1%)  Sf(11) B(2) SB(2) G(1)  [10]	7 (20%)  Sf(7)  [2]	1 (2.8%)  Sf(1)  [1]	3 (8.57%)  Sf(3)  [1]	2 (5.71%)  Sf(2)  [1]	1 (2.8%)  N(1)  [1]	2 (5.71%)  Sf(2)  [1]	1 (2.8%)  Sf(1)  [1]
					4	5	3	11	3	7												
					4	2	3	9	3	5												
					4	5	2	11	4	5												
					4	5	2	11	5	5												
					4	5	3	11	5	5												
					5	5	3	11	2	6	MV21											
					3	5	3	11	3	6	MV10											
					6	5	3	10	2	6	MV53											
					5	5	3	11	4	4	MV6											
					5	4	3	11	4	6	MV36											
					5	2	3	6	4	5												
					6	4	3	11	2	7												
5	6	3	11	2	6	MV63																
5	1	3	11	4	11																	
5	3	9	6	4	8																	
9	2	3	7	9	1																	
<i>BK et al</i> [5]	Milk, 306	6	Mo, Tu, S : 3	4	5	4	4	12	4	--		--	1	3	0	0	0	0	0	2 (33.3%) [1]	1 (16.6%) [1]	
					5	8	4	12	3	--												
					5	4	4	10	3	--												
					5	4	4	12	3	--												
<i>Hauer et al</i> [11]	Cattle (88%), wild animals (9%), farm animals (3%)	4,020	Ardennes ; Ariège ; Côte d'Or ; Corsica Island ; Dordogne & Charente ; Dordogne ; Normandy ; Atlantic ; Pyrenees ; Landes ; Lot et Garonne	706	5	3	6	11	4	8		---	--	176	778 (26%) [154]	270 (11%) [53]	154 (6%) [50]	--	--	--	--	--
					5	5	3	11	4	6	MV16											
					4	5	3	11	4	7												
					5	5	3	11	4	4	MV6											
					5	3	3	9	4	6												
					6	5	3	6	4	6												
					7	4	3	10	4	10												
					5	4	3	11	4	6	MV36											
					6	4	3	6	4	6												
					6	4	3	11	2	7												
5	2	3	8	2	6																	

N° : Number ; \* : Only *M.bovis*; Sf : Sfax ; G : gabes ; M : Mahdia, SB : Sidi bouzid, K : kairaouen, B : Beja, Je : Jendouba, Ma : Manouba, Mo : Monastir, T : Tunis, N : Nabeul, A : Ariana. <sup>‡</sup>Common region between the three Tunisian studies are in fold. MV: MIRU-VNTR.