

Supplementary Materials

Supplementary Table S1: Accession numbers of short and long sequences of Cytochrome b used to identify rodents as belonging to *J. jaculus* and *J. hirtipes*.

Code	Long <i>Cytb</i> Sequences [1]	Short <i>Cytb</i> Sequences	Rodent Species
Jac 1	OL898641	MT340265	<i>J. jaculus</i>
Jac 2	OL898644	MT340273	<i>J. jaculus</i>
Jac 3	OL898645	MT340282	<i>J. jaculus</i>
Jac 4	OL898613	MT340292	<i>J. hirtipes</i>
Jac 5	OL898628	MT340300	<i>J. hirtipes</i>
Jac 6	OL898642	MT340301	<i>J. jaculus</i>
Jac 7	OL898626	MT340302	<i>J. hirtipes</i>
Jac 8	OL898627	MT340303	<i>J. hirtipes</i>
Jac 9	OL898624	MT340304	<i>J. hirtipes</i>
Jac 10	OL898634	MT340266	<i>J. jaculus</i>
Jac 11	OL898616	/	<i>J. hirtipes</i>
Jac 12	OL898643	MT340267	<i>J. jaculus</i>
Jac 13	OL898625	/	<i>J. hirtipes</i>
Jac 14	OL898621	/	<i>J. hirtipes</i>
Jac 15	OL898648	MT340268	<i>J. jaculus</i>
Jac 16	OL898647	MT340269	<i>J. jaculus</i>
Jac 17	OL898617	MT340270	<i>J. hirtipes</i>
Jac 18	/	MT340271	<i>J. hirtipes</i>
Jac 19	OL898646	MT340272	<i>J. jaculus</i>
Jac 20	OL898631	MT340274	<i>J. jaculus</i>
Jac 21	OL898632	MT340275	<i>J. jaculus</i>
Jac 22	/	MT340276	<i>J. hirtipes</i>
Jac 23	OL898615	MT340277	<i>J. hirtipes</i>
Jac 24	/	MT340278	<i>J. hirtipes</i>
Jac 25	OL898619	/	<i>J. hirtipes</i>
Jac 26	/	MT340279	<i>J. jaculus</i>
Jac 27	OL898614	/	<i>J. hirtipes</i>
Jac 28	OL898649	MT340280	<i>J. jaculus</i>
Jac 29	OL898633	MT340281	<i>J. jaculus</i>
Jac 30	OL898635	/	<i>J. jaculus</i>
Jac 31	OL898636	MT340283	<i>J. jaculus</i>
Jac 32	OL898622	MT340284	<i>J. hirtipes</i>
Jac 33	OL898640	MT340285	<i>J. jaculus</i>
Jac 34	OL898623	MT340286	<i>J. hirtipes</i>
Jac 35	OL898620	MT340287	<i>J. hirtipes</i>
Jac 36	OL898637	MT340288	<i>J. jaculus</i>
Jac 37	OL898639	MT340289	<i>J. jaculus</i>
Jac 38	OL898638	MT340290	<i>J. jaculus</i>
Jac 39	OL898618	MT340291	<i>J. hirtipes</i>
Jac 40	OL898612	MT340293	<i>J. hirtipes</i>
Jac 41	OL898611	MT340294	<i>J. hirtipes</i>

Jac 42	/	MT340295	<i>J. hirtipes</i>
Jac 43	OL898610	MT340296	<i>J. hirtipes</i>
Jac 44	OL898609	MT340297	<i>J. hirtipes</i>
Jac 45	OL898630	MT340298	<i>J. jaculus</i>
Jac 46	OL898629	MT340299	<i>J. jaculus</i>

References

1. Ghawar, W.; Chaouch, M.; Ben Abderrazak, S.; Snoussi, M.A.; Salem, S.; Chouchen, S.; Bouaoun, A.; Ben Salah, A.; Bettaieb, J. Evaluation of the Taxonomic Status of Lesser Egyptian Jerboa, *Jaculus jaculus*: First Description of New Phylogroups in Tu-nisia. *Animals* **2022**, *12*, 758. <https://doi.org/10.3390/ani12060758>.

Supplementary Table S2: Accessions number of Tunisian *Leishmania* sequences, their hosts, locations and haplotypes.

Accessions Numbers	Species	Host	Location	Haplotypes (Figure 5)
KY963123	<i>Leishmania infantum</i>	<i>Psammomys obesus</i>	Sidi Bouzid	Hap 1
KY963124		<i>Psammomys obesus</i>	Sidi Bouzid	
KY963125		<i>Psammomys obesus</i>	Sidi Bouzid	
KY963126		<i>Psammomys obesus</i>	Sidi Bouzid	
KY963127		<i>Psammomys vexilaris</i>	Kebili	
KY963128		<i>Psammomys vexilaris</i>	Kebili	
KY963129		<i>Psammomys vexilaris</i>	Kebili	
MF597933		Sand flies	Zagouan	
MF597934		Sand flies	Zagouan	
MF693883		Dog	Tunis	
MF693885		Dog	Tunis	
MF693886		Dog	Tunis	
MF693887		Dog	Tunis	
MF693888		Dog	Tunis	
MF693889		Dog	Tunis	
MH686281		Sand flies	Monastir	
MH997874		Dog	Tunis	
MH997875		Dog	Tunis	
MH997876		Dog	Tunis	
MK474640		Sand flies	Kairouan	
MK474641		Sand flies	Kairouan	
MK474642		Human	Kairouan	
KY963122	<i>Leishmania major</i>	<i>Psammomys obesus</i>	Sidi Bouzid	Hap 6
MF693884		Dog	Tunis	Hap 5
FN677342		Human	Sfax	Hap 2
MK463621		Sand flies	Kairouan	
MK463622		Sand flies	Kairouan	
MK463623		Sand flies	Kairouan	
MK463625		Sand flies	Kairouan	
MK463626		Sand flies	Kairouan	
MK463627		Sand flies	Kairouan	
MK463628		Sand flies	Kairouan	
MK463629		Human	Kairouan	
MW058081 (jac16)		<i>Jaculus jaculus</i>	Tataouine	
MW058076 (jac11)		<i>Jaculus hirtipes</i>	Tataouine	
MW058078 (jac13)		<i>Jaculus hirtipes</i>	Tataouine	
MW058079 (jac14)		<i>Jaculus hirtipes</i>	Tataouine	
MW058082 (jac17)		<i>Jaculus hirtipes</i>	Tataouine	
MW058083 (jac18)		<i>Jaculus hirtipes</i>	Tataouine	
MW058085 (jac20)		<i>Jaculus jaculus</i>	Tataouine	
MW058088 (jac35)		<i>Jaculus hirtipes</i>	Tataouine	
MW058069 (jac4)		<i>Jaculus hirtipes</i>	Tataouine	

MW058070 (jac5)	<i>Jaculus hirtipes</i>	Tataouine	
MW058072 (jac7)	<i>Jaculus hirtipes</i>	Tataouine	
MW058073 (jac8)	<i>Jaculus hirtipes</i>	Tataouine	
MW058074 (jac9)	<i>Jaculus hirtipes</i>	Tataouine	
MW058084 (jac19)	<i>Jaculus jaculus</i>	Tataouine	
MW058066 (jac1)	<i>Jaculus jaculus</i>	Tataouine	
MW058075 (jac10)	<i>Jaculus jaculus</i>	Tataouine	
MW058077 (jac12)	<i>Jaculus jaculus</i>	Tataouine	
MW058080 (jac15)	<i>Jaculus jaculus</i>	Tataouine	
MW058067 (jac2)	<i>Jaculus jaculus</i>	Tataouine	
MW058068 (jac3)	<i>Jaculus jaculus</i>	Tataouine	
MW058071 (jac6)	<i>Jaculus jaculus</i>	Tataouine	
JN242001	<i>Ctenodactylus gundi</i>	Metlaoui	Hap 7
MK463624	Sand flies	Kairouan	Hap 3
AJ300485	Human	Tataouine	
JF719995	<i>Ctenodactylus gundi</i>	Tataouine	
JF719996	<i>Ctenodactylus gundi</i>	Metlaoui	
JN104588	Sand flies	Tataouine	
KY963130	<i>Psammomys vexilaris</i>	Kebili	
KY963131	<i>Psammomys vexilaris</i>	Kebili	
KY963132	<i>Psammomys vexilaris</i>	Kebili	
MK474646	<i>Leishmania tropica</i> (<i>L. killicki</i>)	Sand flies	Hap 4
MK474647		Sand flies	
MK474648		Sand flies	
MK474649		Sand flies	
MK474651		Sand flies	
MK474652		Sand flies	
MW058086 (jac34)	<i>Jaculus hirtipes</i>	Tataouine	
MW058087 (jac43)	<i>Jaculus hirtipes</i>	Tataouine	
MK474653	Human	Kairouan	Hap 8
MK474650	Sand flies	Kairouan	Hap 9

Supplementary Table S3: Accessions number of *Leishmania* sequences detected from rodent all over the world, their hosts, locations and haplotypes.

Accessions Numbers	Species	Host	Location	Haplotypes (Figure 6)
MF977313	<i>Leishmania infantum</i>	<i>Mus musculus</i>	Morocco	Hap 16
MF977314		<i>Rattus rattus</i>	Morocco	
MF977315		<i>Rattus norvegicus</i>	Morocco	
JX151015		<i>Rhombomys opimus</i>	Iran	
KY963123		<i>Psammomys obesus</i>	Tunisia	
KY963124		<i>Psammomys obesus</i>	Tunisia	Hap 18
KY963126		<i>Psammomys obesus</i>	Tunisia	
KY963127		<i>Psammomys vexilaris</i>	Tunisia	
KY963122		<i>Psammomys obesus</i>	Tunisia	Hap 19
KY963125		<i>Psammomys obesus</i>	Tunisia	
KY963129	<i>Leishmania major</i>	<i>Psammomys vexilaris</i>	Tunisia	
KY963128		<i>Psammomys vexilaris</i>	Tunisia	
JN860730		<i>Rhombomys opimus</i>	Iran	Hap 12
JN860731		<i>Rhombomys opimus</i>	Iran	
JN860732		<i>Rhombomys opimus</i>	Iran	
JN860734		<i>Rhombomys opimus</i>	Iran	
JN860735		<i>Rhombomys opimus</i>	Iran	
JN860736		<i>Rhombomys opimus</i>	Iran	
JN860739		<i>Rhombomys opimus</i>	Iran	
JN860740		<i>Rhombomys opimus</i>	Iran	
JN860741		<i>Rhombomys opimus</i>	Iran	
JN860742		<i>Rhombomys opimus</i>	Iran	
JN860745		<i>Rhombomys opimus</i>	Iran	
JN860746		<i>Rhombomys opimus</i>	Iran	
JN860754		<i>Rhombomys opimus</i>	Iran	
JN860757		<i>Rhombomys opimus</i>	Iran	
KJ194177		<i>Meriones libycus</i>	Iran	
KJ194178		<i>Meriones libycus</i>	Iran	
KJ194179		<i>Meriones libycus</i>	Iran	
KJ194180		<i>Meriones libycus</i>	Iran	
KJ194181		<i>Meriones libycus</i>	Iran	
KJ577703		<i>Rhombomys opimus</i>	Iran	Hap 17
KJ577704		<i>Rhombomys opimus</i>	Iran	
KJ577705		<i>Rhombomys opimus</i>	Iran	
KJ577706		<i>Rhombomys opimus</i>	Iran	
KJ577707		<i>Rhombomys opimus</i>	Iran	
KJ577708		<i>Rhombomys opimus</i>	Iran	
KF152937		<i>Meriones libycus</i>	Iran	

MW058081 (jac16)	<i>Jaculus jaculus</i>	Tunisia	
MW058076 (jac11)	<i>Jaculus hirtipes</i>	Tunisia	
MW058078 (jac13)	<i>Jaculus hirtipes</i>	Tunisia	
MW058079 (jac14)	<i>Jaculus hirtipes</i>	Tunisia	
MW058082 (jac17)	<i>Jaculus hirtipes</i>	Tunisia	
MW058083 (jac18)	<i>Jaculus hirtipes</i>	Tunisia	
MW058085 (jac20)	<i>Jaculus jaculus</i>	Tunisia	
MW058088 (jac35)	<i>Jaculus hirtipes</i>	Tunisia	
MW058069 (jac4)	<i>Jaculus hirtipes</i>	Tunisia	
MW058070 (jac5)	<i>Jaculus hirtipes</i>	Tunisia	
MW058072 (jac7)	<i>Jaculus hirtipes</i>	Tunisia	
MW058073 (jac8)	<i>Jaculus hirtipes</i>	Tunisia	
MW058074 (jac9)	<i>Jaculus hirtipes</i>	Tunisia	
MW058084 (jac19)	<i>Jaculus jaculus</i>	Tunisia	
MW058066 (jac1)	<i>Jaculus jaculus</i>	Tunisia	
MW058075 (jac10)	<i>Jaculus jaculus</i>	Tunisia	
MW058077 (jac12)	<i>Jaculus jaculus</i>	Tunisia	
MW058080 (jac15)	<i>Jaculus jaculus</i>	Tunisia	
MW058067 (jac2)	<i>Jaculus jaculus</i>	Tunisia	
MW058068 (jac3)	<i>Jaculus jaculus</i>	Tunisia	
MW058071 (jac6)	<i>Jaculus jaculus</i>	Tunisia	
JN242001	<i>Ctenodactylus gundi</i>	Tunisia	Hap 11
JN860737	<i>Rhombomys opimus</i>	Iran	Hap 13
JN860738	<i>Rhombomys opimus</i>	Iran	Hap 14
JN860750	<i>Rhombomys opimus</i>	Iran	Hap 15
JF719995	<i>Ctenodactylus gundi</i>	Tunisia	
JF719996	<i>Ctenodactylus gundi</i>	Tunisia	
KY963130	<i>Psammomys vexilaris</i>	Tunisia	
KY963131	<i>Psammomys vexilaris</i>	Tunisia	Hap 10
KY963132	<i>Psammomys vexilaris</i>	Tunisia	
MW058086 (jac34)	<i>Jaculus hirtipes</i>	Tunisia	
MW058087 (jac43)	<i>Jaculus hirtipes</i>	Tunisia	
MF977312	<i>Mus musculus</i>	Morocco	Hap 20