

Additional file 1: Supplemental Table S1. Distribution of *Bartonella* species by bioclimatic zones, site, flea species and animal host and partial sequencing analysis of *gltA* gene and the ITS region.

Bioclimatic zones	Sites	hosts	Flea species	<i>gltA</i>		ITS	X/Y
				<i>Bartonella</i> species (n)			
Humid	Jouza	Dogs	<i>C. canis</i>	Uncultured <i>Bartonella</i> sp. BR10 clones TUN (7)		<i>B. henselae</i> (4)	
					<i>B. henselae</i> (6)		
Humid	Jouza	Dogs	<i>C. felis</i>	Uncultured <i>Bartonella</i> sp. BR10 clones TUN (1)		<i>B. henselae</i> (10)	31/56
					<i>B. henselae</i> (17)		
Sub-humid	Ichkeul	Sheep	<i>C. felis</i>	<i>B. elizabethae</i> (4)		<i>B. elizabethae</i> (3)	4/4
Semi-arid	El Mabtouh	Sheep	<i>C. felis</i>	<i>B. henselae</i> (4)		<i>B. henselae</i> (1)	
	Oudhna	Sheep	<i>C. felis</i>	<i>B. henselae</i> (1)		<i>B. henselae</i> (1)	
	El Azima	Dogs	<i>C. canis</i>	Uncultured <i>Bartonella</i> sp. BR10 clones TUN (3)			

	El Hessiane	Dogs	<i>C. canis</i>	<i>B. henselae</i> (18)	<i>B. henselae</i> (10)	40/54
	Bab Saadoun	Cats	<i>C. felis</i>	<i>B. clarridgeiae</i> (4)	<i>B. clarridgeiae</i> (4)	
	Béni Khiar	Dogs	<i>P. irritans</i>	Uncultured <i>Bartonella</i> sp. B224RnF clones TUN (8)	Uncultured <i>Bartonella</i> sp. Lao/Nh2 clone TUN (8)	
	Maloulech	Dogs	<i>C. felis</i>	<i>B. elizabethae</i> (2)	<i>B. elizabethae</i> (1)	
Arid	Sfax Sud	Goats	<i>C. felis</i>	<i>B. henselae</i> (4)	<i>B. henselae</i> (2)	6/7
	Zarzis	Goats	<i>C. felis</i>	<i>B. elizabethae</i> (2)	<i>B. elizabethae</i> (2)	
Saharan	Tataouine	Goats	<i>C. felis</i>			
	Kbeli	Goats	<i>C. felis</i>	none	none	0

X: number of the sequenced positive flea pools (ITS and *gltA* gene).

Y: Number of the positive flea pools by PCR (ITS and *gltA* gene).