

**Table XX.** List of parasite taxa used in phylogenetic analyses (given in alphabetical order), their hosts, origin, and accession numbers.

<b>Parasite</b>	<b>Definitive host, vector</b>	<b>Intermediate host</b>	<b>Origin</b>	<b>GenBank accession number (18S rDNA)</b>
<i>Goussia ameliae</i>	<i>Alosa pseudoharengus</i>	not present	USA (New Jersey)	KP411007
<i>Goussia janae</i>	<i>Leuciscus leuciscus</i>	not present	Czech Republic (Soběslav)	AY043206
<i>Haemogregarina balli</i>	<i>Placobdella</i> spp.	<i>Chelydra serpentina serpentina</i>	Canada (Ontario)	HQ224959
<i>Haemogregarina stepanowi</i>	<i>Placobdella costata</i>	<i>Mauremys caspica</i>	Turkey (Diyarbakir)	KF992697
<i>Haemogregarina</i> sp. 3133	? (susp. leeches)	<i>Pelusios williamsi</i>	Kenya	KF257923
<i>Haemogregarina</i> sp. 3136	? (susp. leeches)	<i>Pelusios marani</i>	Gabon	KF257924
<i>Hemolivia cruciata</i>	unknown	<i>Cuora galbinifrons</i>	Vietnam (Vinh Phuc Province, Melinh Biodiversity Station)	MW514212
<i>Hemolivia mariae</i> 4903	unknown	<i>Egernia stokesii</i>	S Australia (Hawker, Flinders Ranges)	KF992711
<i>Hemolivia mariae</i> 4955	unknown	<i>Egernia stokesii</i>	S Australia (Hawker, Flinders Ranges)	KF992712
<i>Hemolivia mariae</i>	<i>Amblyomma albolimbatum</i>	unknown	W Australia	OL440970
<i>Hemolivia mariae</i>	<i>Amblyomma albolimbatum</i>	unknown	W Australia	OL440971
<i>Hemolivia mauritanica</i> GR-9-04	<i>Hyalomma aegyptium</i>	<i>Testudo marginata</i>	Greece (Volos)	KF992699
<i>Hemolivia mauritanica</i> IQ-4-10	<i>Hyalomma aegyptium</i>	<i>Testudo graeca</i>	N Iraq (Sulajmáníja region)	KF992700
<i>Hemolivia mauritanica</i> SY-10-10-2	<i>Hyalomma aegyptium</i>	<i>Testudo graeca</i>	Syria (Qalat Samaan)	KF992701
<i>Hemolivia mauritanica</i> SY-10-10-3	<i>Hyalomma aegyptium</i>	<i>Testudo graeca</i>	Syria (Qalat Samaan)	KF992702
<i>Hemolivia</i>	<i>Hyalomma</i>	<i>Testudo graeca</i>	Syria (Qalat Samaan)	KF992703

<i>mauritanica</i> SY-20-10-3	<i>aegyptium</i>			
<i>Hemolivia mauritanica</i> SY-28-10-3	<i>Hyalomma aegyptium</i>	<i>Testudo graeca</i>	Syria (Tele Karamah)	KF992706
<i>Hemolivia mauritanica</i> SY-49-05	<i>Hyalomma aegyptium</i>	<i>Testudo graeca</i>	Syria (Ayn Dara)	KF992708
<i>Hemolivia mauritanica</i> SY-72-10-2	<i>Hyalomma aegyptium</i>	<i>Testudo graeca</i>	Syria (Krak des Chevaliers)	KF992709
<i>Hemolivia mauritanica</i> TR-8-08	<i>Hyalomma aegyptium</i>	<i>Testudo graeca</i>	Turkey (Muş)	KF992698
<i>Hemolivia mauritanica</i> Vendelin	<i>Hyalomma aegyptium</i>	<i>Testudo marginata</i>	Greece (Platamonas)	KF992710
<i>Hemolivia parvula</i>	tick?	<i>Kinixys zombensis</i>	South Africa (KwaZulu-Natal, Ndumo Game Reserve)	KR069082
<i>Hemolivia parvula</i>	tick?	<i>Kinixys zombensis</i>	South Africa (KwaZulu-Natal, Ndumo Game Reserve)	KR069083
<i>Hemolivia</i> sp. 1 DJH-2013	<i>Hyalomma aegyptium</i>	<i>Testudo graeca</i>	Algeria (Ain Chorfa, Guertoufa, Zemmora, Saf Saf, Theniet el Had)	KC512766
<i>Hemolivia</i> sp. voucher MF5504	unknown	<i>Rhinoclemmys punctularia</i>	USA (Alabama, Birmingham, Guthrie Turtle Farm)	MN160404
<i>Hemolivia stellata</i>	<i>Amblyomma rotundatum</i>	<i>Rhinella marina</i>	Brazil (Para, Belem)	KP881349
<i>Hemolivia stellata</i>	<i>Amblyomma dissimile</i>	<i>Rhinella horribilis</i> , <i>Rhinella humboldti</i>	Colombia (Universidad del Magdalena, Santa Marta, Magdalena)	MH196475
<i>Hemolivia stellata</i>	<i>Amblyomma dissimile</i>	<i>Rhinella horribilis</i> , <i>Rhinella humboldti</i>	Colombia (Casa Blanca, Santa Marta, Magdalena)	MH196478
<i>Hemolivia stellata</i>	<i>Amblyomma dissimile</i>	<i>Rhinella horribilis</i> , <i>Rhinella humboldti</i>	Colombia (Universidad del Magdalena, Santa Marta, Magdalena)	MH196480
<i>Hemolivia</i>	<i>Amblyomma</i>	<i>Rhinella</i>	Colombia	MH196482

<i>stellata</i>	<i>dissimile</i>	<i>horribilis</i> , <i>Rhinella</i> <i>humboldti</i>	(Universidad del Magdalena, Santa Marta, Magdalena)	
<b><i>Hemolivia</i> sp. NIC-2-13</b>	unknown	<i>Rhinoclemmys pulcherrima manni</i>	southern Nicaragua	
<b><i>Hemolivia pulcherrima</i> sp. n. NIC-6-13</b>	unknown	<i>Rhinoclemmys pulcherrima manni</i>	southern Nicaragua	
<b><i>Hemolivia</i> sp. NIC-9-13</b>	unknown	<i>Rhinoclemmys pulcherrima manni</i>	southern Nicaragua	
<b><i>Hemolivia pulcherrima</i> sp. n. NIC-12-13</b>	unknown	<i>Rhinoclemmys pulcherrima manni</i>	southern Nicaragua	
<b><i>Hemolivia pulcherrima</i> sp. n. NIC-17-13</b>	unknown	<i>Rhinoclemmys pulcherrima manni</i>	southern Nicaragua	
<b><i>Hemolivia</i> sp. NIC-19-13</b>	unknown	<i>Rhinoclemmys pulcherrima manni</i>	southern Nicaragua	
<b><i>Hemolivia pulcherrima</i> sp. n. NIC-27-13</b>	unknown	<i>Rhinoclemmys pulcherrima manni</i>	southern Nicaragua	
<b><i>Hemolivia pulcherrima</i> sp. n. NIC-29-13</b>	unknown	<i>Rhinoclemmys pulcherrima manni</i>	southern Nicaragua	
<b><i>Hemolivia</i> sp. NIC-4-13</b>	unknown	<i>Rhinoclemmys pulcherrima manni</i>	southern Nicaragua	KF992713
<b><i>Hemolivia pulcherrima</i> sp. n. NIC-10-13</b>	unknown	<i>Rhinoclemmys pulcherrima manni</i>	southern Nicaragua	KF992714
<i>Hepatozoon americanum</i>	<i>Amblyomma maculatum</i>	<i>Canis familiaris</i>	experimental infection at the Oklahoma State University, USA)	AF176836
<i>Hepatozoon ayorgbor</i>	<i>Culex</i> spp.	<i>Python regius</i>	Ghana	EF157822
<i>Hepatozoon banethi</i>	<i>Ixodes tasmani</i>	<i>Canis familiaris</i>	Australia (Tasmania, Devonport)	MG758133
<i>Hepatozoon canis</i>	<i>Rhipicephalus sanguineus</i>	<i>Vulpes vulpes</i>	Spain	AY150067
<i>Hepatozoon canis</i>	<i>Rhipicephalus sanguineus</i>	<i>Canis familiaris</i>	Sudan	DQ111754
<i>Hepatozoon catesbianae</i>	<i>Culex</i> spp.	<i>Lithobates catesbeianus</i>	Canada (Ontario)	HQ224963

<i>Hepatozoon felis</i>	<i>Rhipicephalus</i> spp.	<i>Felis catus</i>	Spain	AY628681
<i>Hepatozoon magna</i>	Culicinae?	<i>Pelophylax esculentus</i>	France (Corsica)	HQ224960
<i>Hepatozoon musa</i>	unknown	<i>Philodryas nattereri</i>	Brazil (Upanema, Rio Grande do Norte)	KX880079
<i>Hepatozoon sipedon</i>	<i>Culex</i> spp.	<i>Nerodia sipedon sipedon</i>	Canada (Ontario)	JN181157
<i>Hepatozoon</i> sp.	<i>Amblyomma aureolatum?</i>	<i>Dusicyon thous</i>	Brazil	AY461377
<i>Hepatozoon</i> sp.	fleas?	<i>Clethrionomys glareolus</i>	Spain (Province of Soria)	AY600625
<i>Hepatozoon</i> sp.	<i>Ixodes?</i>	<i>Martes martes</i>	Spain	EF222257
<i>Hepatozoon</i> sp.	<i>Ixodes neuquenensis?</i>	<i>Dromiciops gliroides</i>	S Chile (northern Chiloé Island)	FJ719814
<i>Hepatozoon</i> sp.	unknown	<i>Abrothrix olivaceus</i>	S Chile (northern Chiloé Island)	FJ719818
<i>Hepatozoon</i> sp.	unknown	<i>Scelarcis perspicillata perspicillata</i>	Morocco (Debdou)	HQ734791
<i>Hepatozoon</i> sp.	unknown	<i>Podarcis vaucheri</i>	Morocco (Lake Tislit)	HQ734793
<i>Hepatozoon</i> sp.	unknown	<i>Eumeces algeriensis</i>	Morocco (Ouazane)	HQ734796
<i>Hepatozoon</i> sp.	unknown	<i>Atlantolacerta andreanskyi</i>	Morocco (Oukaimeden)	HQ734798
<i>Hepatozoon</i> sp.	unknown	<i>Timon tangitanus</i>	Morocco (Azrou)	HQ734799
<i>Hepatozoon</i> sp.	unknown	<i>Timon tangitanus</i>	Morocco (Agoudal)	HQ734801
<i>Hepatozoon</i> sp.	unknown	<i>Podarcis hispanica</i>	Spain (Alba de Tormes)	JQ762310
<i>Hepatozoon</i> sp.	unknown	<i>Podarcis lilfordi</i>	Spain (Balearic Islands, Cabrera Island))	JQ762311
<i>Hepatozoon ursi</i>	<i>Haemaphysalis</i> spp.	<i>Ursus thibetanus japonicus</i>	Japan	EU041718
<i>Karyolysus galloti</i>	unknown	<i>Gallotia caesaris</i>	Spain (Canary Islands)	MK396906
<i>Karyolysus</i> cf. <i>lacazei</i>	<i>Ixodes ricinus</i>	<i>Lacerta schreiberi</i>	Spain	MK497254
<i>Karyolysus paradoxa</i>	unknown	<i>Varanus albigularis</i>	South Africa (KwaZulu-Natal, Ndumo Game Reserve)	KX011040

<i>Karyolysus</i> sp.	<i>Ophionyssus</i> sp.	<i>Podarcis muralis</i>	Slovakia (Čabrad')	KJ461939
<i>Karyolysus</i> sp.	<i>Ophionyssus</i> sp.	<i>Lacerta agilis</i>	Poland (Odolanow)	KJ461940
<i>Karyolysus</i> sp.	<i>Ophionyssus</i> sp.	<i>Lacerta trilineata</i>	Romania (Sacele)	KJ461942
<i>Karyolysus</i> sp.	<i>Ophionyssus</i> sp.	<i>Lacerta viridis</i>	Hungary (Godollo)	KJ461943
<i>Karyolysus</i> sp.	<i>Ophionyssus</i> sp.	<i>Zootoca vivipara</i>	Poland (Odolanow)	KJ461946
<i>Karyolysus</i> sp.	<i>Ophionyssus</i> sp.?	<i>Iberolacerta horvathi</i>	Slovenia	OK348285