Table A. ***Cyt-b*** **sequences of parasites recovered in this study and those used as references for phylogenetic analyses and their Genbank accession numbers.**

Accession numbers	Isolates name	Host
HQ702482	*Eimeria necatrix*	Fowl
HQ173882	*Eimeria magna*	*Rabbit*
HQ173892	*Eimeria vejdovskyi*	*Rabbit*
AF023246	*Toxoplasma_gondii*	-
AY099053	*P. giganteum*	*Bird*
AY099054	*P. atheruri*	*Rodent*
AY099055	*P. azurophilum*	*Bird*
AY733090	*P. relictum*	*Bird*
DQ414658	*P. yoelii_killicki*	*Rodent*
FJ168561	*Parahaemoproteus_vireonis*	*bird*
FJ168565	*Hepatocystis_sp*	*Bird*
GQ141574	*Plasmodium sp._bird_sp.12*	*Bird*
GQ141581	*Parahaemoproteus_sp._bird_sp.17*	*Bird*
GQ141585	*Parahaemoproteus_sp._bird_sp.19*	*Bird*
GU252012	*P. sp._GD2_GD201*	*Bird*
GU252027	*Plasmodium sp._JA7_J725*	*Bird*
AY099045	*Haemoproteus_majoris*	*Bird*
HM222472	*Haemoproteus_sp*	*Bird*
HM222485	*Plasmodium_sp*	*Bird*
HM222486	*Haemoproteus_sp*	*Bird*
HM222487	*Haemoproteus_sp*	*Bird*
HQ712051	*P. atheruri*	*Rodent*
JQ070884	*Hepatocystis_sp._S2138*	*C. nictitans*
JQ070951	*Hepatocystis_sp._AA-201_b-like*	*C. nictitans*
JQ070956	*Hepatocystis_sp._AA-2012*	*C. nictitans*
JQ995287	*Polychromophilus_sp._LD-2012*	*Bat*
KF049492	*E15-Podocnemis expansa*	*Turtle*
KF049495	*E24-Podocnemis expansa*	*Turtle*
KF049506	*U65-Podocnemis unifilis*	*Turtle*
KF159681	*Polychromophilus sp._Min_vil_G3*	*Bat*
KJ131277	*Polychromophilus melanipherus*	*Bat*
KF159699	*Polychromophilus sp._Min_vil_G3_2*	*Bat*
HM055585	*Polychromophilus murinus*	*Bat*
KF159714	*Polychromophilus sp._Pip_gran_G3*	
KF159690	*Nycteria_sp._R_lan_G3_1*	*Bat*
KF159700	*Polychromophilus_sp._Neo_cap_G3*	*Bat*
KF159720	*Nycteria_sp_R_alc_C9_1*	*Bat*
KJ700853	*P. vinckei_isolate_1*	*Rodent*
KJ700854	*P. vinckei_isolate_2*	*Rodent*
KM598212	*P. sp._lineage_JA01*	*Bird*
NC_012450	*Leucocytozoon_majoris*	*Bird*
FJ168563	*Leucocytozoon_majoris*	*Bird*
AY099063	*Leucocytozoon dubreuli*	*Bird*
AB299369	*Leucocytozoon sabrazesi*	*Bird*
AB302215	*Leucocytozoon caulleryi*	*Bird*
HM235081	*P. adleri*	*Gorilla*
KP875474	*P. billcollinsi*	*Chimpanzee*
HM235065	*P. blacklocki*	*gorilla*
JF923762	*P. praefalciparum*	*Cercopithecus nictitans*
FJ895307	*P. gaboni*	*Chimpanzee*
JF923751	*P. gonderi*	*Mandrill*
HM000110	*P. malariae*	*Chimpanzee*
GU723548	*P. ovale*	*Human*
KP875479	*P. reichenowi*	*Chimpanzee*
JF923753	*P. sp._DAJ-2004*	*mandrill*

KF591834	*P. vivax*	*Human*
KF159674	*P. cyclopsi*	*Bat*
KF159671	*P. voltaicum*	*Bat*
AB444126	*P. cynomolgi*	-
AF069612	*P. gallinaceum*	*Bird*
JQ345504	*P. knowlesi*	*Human*
NC_012447	*Parahaemoproteus vireonis*	*Vireogilvus*
KT367840	*WN-622_Cephalophus monticola*	Antelope
KT367833	*HO-13_ Cephalophus monticola*	Antelope
KT367822	*OL-122_Cephalophus_monticola*	Antelope
KT367835	*OM-449_Cephalophus_monticola*	Antelope
KT367828	*OL-100_Cephalophus_monticola*	Antelope
KT367830	*OL-131_Cephalophus_callipygus*	Antelope
KT367841	*NG-235_Cephalophus_monticola*	Antelope
KT367819	*HO-11_Cephalophus_nigrifons*	Antelope
KT367839	*MO-309_Cephalophus_monticola*	Antelope
KT367851	*LOP_An._vinckei178*	Anophele
KT367852	*LOP_An._gabonensis3*	Anophele
KT367837	*OL-149_Cephalophus_monticola*	Antelope
KT367832	*OL-115-Cephalophus_monticola*	Antelope
KT367834	*MO-278_Cephalophus_monticola*	Antelope
KT367817	*OI-79_Cephalophus_dorsalis*	Antelope
KT367821	*NG-215_Cephalophus_dorsalis*	Antelope
KT367842	*OI-49_Cephalophus_dorsalis*	Antelope
KT367838	*NY-195_Cephalophus_dorsalis*	Antelope
KT367823	*OM-22_Cephalophus_dorsalis*	Antelope
KT367826	*OI-90_Cephalophus_dorsalis*	Antelope
KT367820	*OM-14_Cephalophus_dorsalis*	Antelope
KT367829	*WN-384_Cephalophus_dorsalis*	Antelope
KT367825	*NG-227_Cephalophus_dorsalis*	Antelope
KT367836	*HO-13_Cephalophus_monticola*	Antelope
KT367831	*OL-120_Cephalophus_dorsalis*	Antelope
KT367824	*OL-NG226_Cephalophus_monticola*	Antelope
KT367827	*HO-A6_Cephalophus_monticola*	Antelope
KT367818	*OI-52_Pangolin*	*Pangolin*
KT367865	*LOP_An._gabonensisSG279*	Anophele
KT367853	*LOP_An._gabonensis279*	Anophele
KT367855	*LEK_An_coustani1404*	Anophele
KT367847	*LOP_An._carnevalei*	Anophele
KT367860	*LEK_An._gabonensis*	Anophele
KT367849	*LOP_An._obscurus78*	Anophele
KT367863	*LOP_An._obscurusSG78*	Anophele
KT367848	*LOP_An._obscurus2*	Anophele
KT367850	*LOP_An._sp177*	Anophele
KT367861	*LEK_An._gabonensis2*	Anophele
KT367854	*LEK_ An._vinckei178*	Anophele
KT367858	*LEK_An._marshallii1598*	Anophele
KT367859	*LEK_An._moucheti1275*	Anophele
KT367856	*LEK_An._coustani1338*	Anophele
KT367864	*LEK_An._mouchetiSG1407*	Anophele
KT367862	*LEK_An._marshalliiSG1682*	Anophele
KT367857	*LEK_An._marshallii1682*	Anophele
KT367846	*LEK_An._obscurus2*	Anophele
KT367843	*HO-9_Kinixys_erosa*	*Turtle*
KT367844	*NG-238_Kinixys_erosa*	*Turtle*
KT367845	*NG-277_Ceratogymna atrata*	*Bird*

Figure legend

Figures

Phylogenetic relationships between the *Cyt-b* sequences obtained in our study (in brown) and reference sequences from existing databases. The trees were built based on 757 bp long cytochrome B (*Cyt-b*) sequences using Maximum Likelihood methods. Branch colors indicate different groups of vertebrates. A) the maximum likelihood tree was rooted using *Leucocytozoon* spp.. B) the tree was rooted using *Eimeria* spp. The names of our isolates include: 1) the abbreviation of the sampling site (LOP: La Lopé and LEK: Lékédi) or province (OL: Ogooue-Lolo; OM: Ogooue-Maritime, OI: Ogooue-Ivindo, NG: Ngounie; NY: Nyanga; HO: Haut-Ogooue; MO: Moyen-Ogooue; WN: Woleu-Ntem), 2) the sample number and 3) the name of the host species in which it was found (vertebrate host or anopheles) (for instance, OL115-*Cepholophus monticola*), 4) SG if the parasite was detected in the salivary glands (for anopheles only).

Figure A

Legend

Antelope

Monkey

Pangolin

Anopheles

Mammal parasites

Bird parasites

Reptile parasites

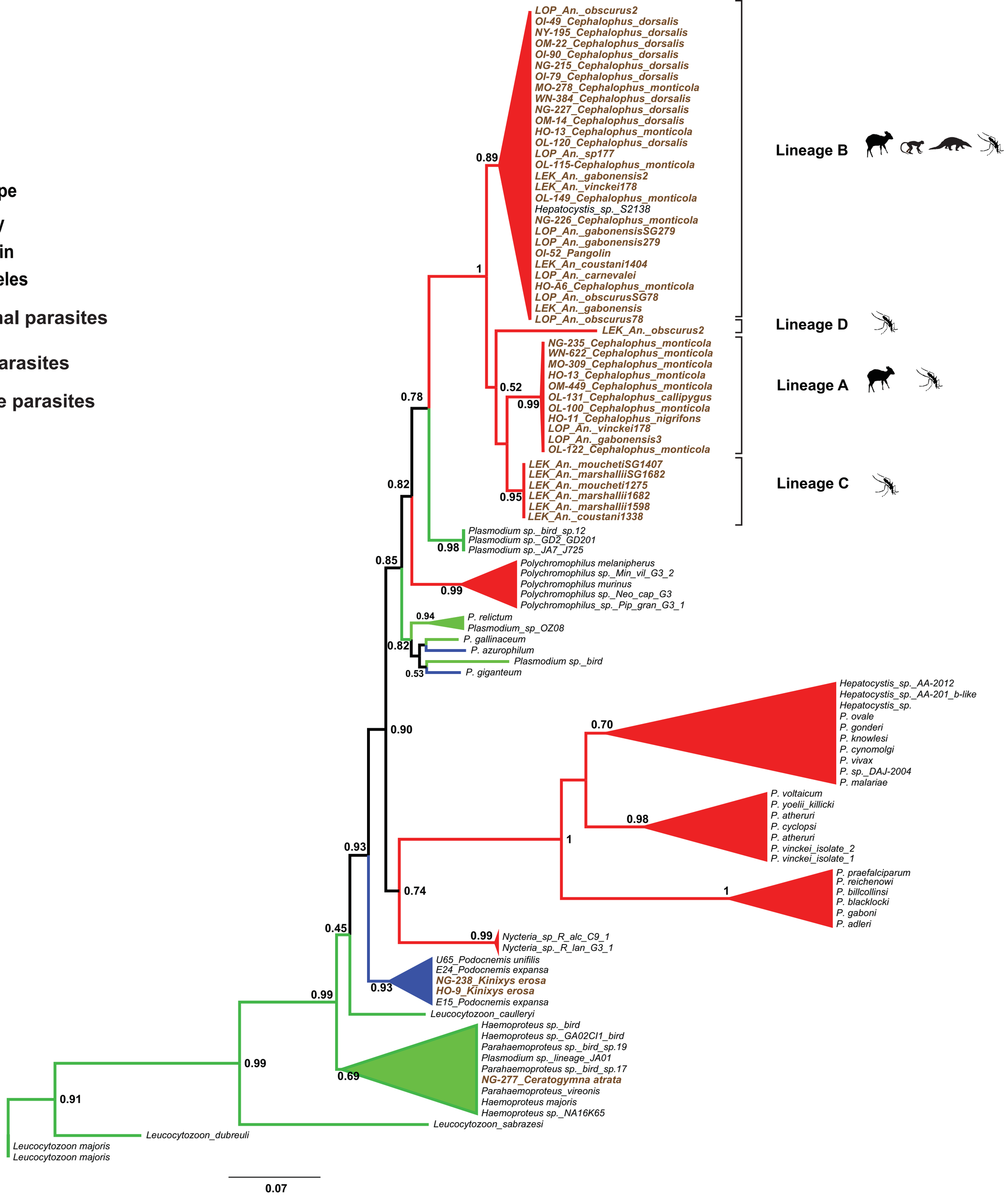

Figure B

Legend

- Antelope
- Monkey
- Pangolin
- Anopheles
- Mammal parasites
- Bird parasites
- Reptile parasites