

Parasite Names	Accession	Known Hosts		Host Location		
		Host names				
<i>P. falciparum</i>	AY282930	<i>Homo sapiens</i>	Great Ape			
<i>P. gaboni</i>	FJ895307	<i>Pan troglodytes</i>				
<i>P. reichenowi</i>	AJ251941	<i>Pan troglodytes</i>				
<i>P. coatneyi</i>	AB354575	<i>Macaca fascicularis</i> ^b	Other Primate	Asia		
<i>P. cynomolgi</i>	AB434919	<i>Macaca sp.</i> ^b				
<i>P. fieldi</i>	AB354574	<i>Macaca sp.</i> ^b				
<i>P. fragile</i>	AY722799	<i>Macaca sp.</i> ^b				
<i>P. hylobati</i>	AB354573	<i>Hylobates moloch</i> ^b				
<i>P. inui</i>	AB354572	<i>Macaca cyclopis</i>				
<i>P. knowlesi</i>	AY722797	<i>Macaca fascicularis</i>				
<i>P. simiovale</i>	AY800109	<i>Macaca sinicia</i>				
<i>P. simium</i>	AY722798	<i>Saimiri sciureus</i>				
<i>P. vivax</i>	NC_007243	<i>Homo sapiens</i>			Africa	
<i>P. DAJ-2004</i>	AY800112	<i>Mandrillus sp.</i>				
<i>P. gonderi</i>	AY800111	<i>Cercocebus sp.</i> ^b				
<i>P. malariae</i>	AB354570	<i>Homo sapiens</i>	Rodent	Africa		
<i>P. ovale</i>	AB354571	<i>Homo sapiens</i>				
<i>P. berghei</i>	AF014115	<i>Grammomys surdaster</i>				
<i>P. chabaudi</i>	AF014116	<i>Thamnomys rutilans</i>				
<i>P. yoelii</i>	M29000	<i>Thamnomys rutilans</i>				
<i>P. floridense</i>	NC_009961	<i>Anolis sagrei</i>			Lizard	
<i>P. mexicanum</i>	AB375765	<i>Sceloporus mexicanum</i>				
<i>P. gallinaceum</i>	AB250690	<i>Gallus gallus</i>				
<i>P. juxtannucleare</i>	AB250415	<i>Crossoptilon crossoptilon</i>			Bird	
<i>P. relictum jb5</i>	AY733090	<i>Hemignathus virens</i>				
<i>Ha. columbae</i>	FJ168562	<i>Columba livia</i>				
<i>Pa. jb1.JA27</i>	AY733086	<i>Meliphaga lewinii</i>				
<i>Pa. jb2.SEW5141</i>	AY733087	<i>Lichenostomus frenatus</i>				
<i>Pa. vireonis</i>	FJ168561	<i>Vireo gilvus</i>				
<i>L. caulleryi</i>	AB302215	<i>Gallus gallus</i>				
<i>L. fringillinarum</i>	FJ168564	<i>Pipilo chlorurus</i>				
<i>L. majoris</i>	FJ168563	<i>Zonotrichia leucophrys</i>				
<i>L. sabrazezi</i>	AB299369	<i>Gallus gallus</i>				

Supplementary Table S1: **Accession numbers of 33 mitochondrial genomes, species and host names.** Accession numbers of 33 complete mitochondrial genomes of *Haemosporidian* parasites, parasite names, and host names retrieved from NCBI annotations (^b: host names complemented from Leclerc et al. 2004 [11]). “P.”: *Plasmodium* species, “Ha.”: *Haemoproteus* species, “Pa.”: *Parahaemoproteus* species, “L.”: *Leucocytozoon* species.