

Supplementary File S1: parasite – host list

Parasites of free-ranging and captive Neotropical primates: A systematic review

Parasite - host list

Including reports from molecular and morphological diagnostic methods, and excluding others (Serology, ELISA, indirect ELISA, indirect agglutination assays, western blood IgG assays, immunochromatographic assays, sero K-SeT rapid diagnostic tests, indirect immunofluorescence assays, immunohistochemical assays, antigen-based rapid diagnostic tests, TESA-blot).

Endoparasites

PROTOZOA Owen, 1858

Family Balantidiidae Doflein and Reichenow, 1929

Balantidium sp. Claparède & Lachmann, 1858

Alouatta palliata, Ecuador [1]

Balantidium coli Stein, 1863

Alouatta seniculus, Colombia* [2]

*Records from captive primates.

Balantioides sp. Alexeieff, 1931

Aotus nigriceps, Peru [3]

Family Blastocystidae Jiang and He, 1993

Blastocystis sp. Jaekel, 1918

Alouatta sp., Colombia [4]

Alouatta caraya, Brazil* [5]

Alouatta caraya, Argentina* [6]

Alouatta guariba, Brazil* [5]

Alouatta palliata, Mexico [7]

Alouatta palliata, Ecuador [1]

Alouatta pigra, Mexico [7]

Alouatta seniculus, Brazil* [5]

Ateles belzebuth, Brazil* [5]

Ateles fusciceps, Brazil* [5]

Ateles paniscus, China* [8]

Callithrix jacchus, Brazil* [5]

Lagothrix lagotricha, Brazil* [5]

Leontopithecus chrysomelas, Brazil* [5]

Mico argentatus, Brazil* [5]

Saimiri sciureus, China* [8]

Sapajus apella, Brazil* [5]

*Records from captive primates.

Blastocystis hominis Brumpt, 1912

Alouatta caraya, Argentina* [6]

Alouatta caraya, Argentina [6]

*Records from captive primates.

Family Cryptosporidiidae Léger 1911

Cryptosporidium sp. Tyzzer, 1907

Alouatta caraya, Argentina* [6]

Callicebus nigrifrons, Brazil* [9]

Lagothrix flavicauda, Peru [10]

*Records from captive primates.

Cryptosporidium parvum Tyzzer, 1912

Ateles paniscus, Brazil* [11]

Callithrix sp., Brazil* [11]

*Records from captive primates.

Family Eimeriidae Minchin, 1903

Cyclospora sp. Schneider, 1881

Alouatta palliata, Ecuador [1]

Eimeria sp. Schneider, 1875

Alouatta caraya, Argentina [12]

Isospora sp. Schneider, 1881

Alouatta palliata, Ecuador [1]

Family Endolimacidae Cavalier-Smith, 2004

Endolimax sp. Kuenen and Swellengrebel, 1913

Saguinus leucopus, Colombia [13]

Endolimax nana Wenyon and O'connor, 1917

Alouatta seniculus, Colombia* [2]

*Records from captive primates.

Iodamoeba sp. Dobell, 1919

Alouatta palliata, Ecuador [1]

Family Entamoebidae Chatton, 1925

Lagothrix lagotricha, Colombia [14]

Lagothrix lagotricha, Colombia* [14]

*Records from captive primates.

Entamoeba sp. Casagradi and Barbagallo, 1895

Alouatta palliata, Ecuador [1]

Alouatta palliata, Mexico [15]

Alouatta pigra, Mexico [15]

Aotus nigriceps, Peru [3]

Saguinus leucopus, Colombia [13]

Entamoeba coli Grasii, 1879

Alouatta caraya, Argentina* [12]

Alouatta caraya, Argentina [12]

Alouatta caraya, Argentina [6]

Alouatta pigra, Mexico [16]

Alouatta seniculus, Colombia* [2]

Aotus sp., Colombia* [2]

Cebus albifrons, Colombia* [2]

Lagothrix flavicauda, Peru [10]

*Records from captive primates.

Entamoeba histolytica Schaudinn, 1903

Alouatta seniculus, Colombia* [2]

Aotus sp., Colombia* [2]

Cebus albifrons, Colombia* [2]

*Records from captive primates.

Entamoeba histolytica/dispar/moskovskii/nuttalli

Cebus albifrons, Ecuador* [17]

*Records from captive primates.

Entamoeba sp. / *Endolimax* sp.

Alouatta palliata, Costa Rica [18]

Family Giardiidae Kulda and Nohýnková, 1978

Giardia sp. Ancey, 1910

Alouatta caraya, Brazil* [19]

Alouatta guariba, Brazil* [19]

Alouatta palliata, Costa Rica [20]

Aotus trivirgatus, Brazil* [19]

Ateles sp., Brazil* [19]

Brachyteles arachnoides, Brazil* [19]

Callithrix penicillata, Brazil* [19]

Cebus kaapori, Brazil* [19]

Lagothrix lagotricha, Brazil* [19]

Leontopithecus chrysopygus, Brazil* [19]

Leontopithecus rosalia, Brazil* [19]

Saimiri sciureus, Colombia* [21]

*Records from captive primates.

Giardia duodenalis Kulda and Nohýnková, 1995

Alouatta caraya, Argentina [22]

Giardia lamblia Kulda and Nohýnková, 1995

Alouatta caraya, Argentina* [12]

Alouatta caraya, Argentina [12]

Alouatta caraya, Argentina* [6]

*Records from captive primates.

Family Dientamoebidae Grasse, 1953

Dientamoeba sp. Jepps & Dobell, 1918

Alouatta palliata, Ecuador [1]

Family Plasmodiidae Mesnil, 1903

Plasmodium sp. Marchiafava and Celli, 1885

Alouatta guariba, Brazil [23]

Callithrix jacchus, Brazil* [24]

Callithrix jacchus, Brazil* [25]

Sapajus sp., Brazil* [24]

Sapajus sp., Brazil* [25]

Sapajus flavius, Brazil [26]

*Records from captive primates.

Plasmodium brasilianum Gonder and von Berenberg-Gossler, 1908

Alouatta belzebul, Brazil [27]

Alouatta caraya, Brazil [27]
Alouatta guariba, Brazil [27]
Alouatta guariba, Brazil [23]
Alouatta seniculus, Brazil [27]
Ateles chamek, Brazil [27]
Ateles paniscus, Brazil [27]
Cacajao calvus, Brazil [27]
Callithrix geoffroyi, Brazil* [28]
Cheracebus torquatus, Brazil [27]
Chiropotes albinasus, Brazil [27]
Chiropotes chiropotes, Brazil [27]
Chiropotes satanas, Brazil [27]
Lagothrix cana, Brazil [27]
Lagothrix lagotricha, Brazil [27]
Leontopithecus chrysomelas, Brazil* [28]
Leontopithecus rosalia, Brazil* [28]
Mico humeralifer, Brazil* [28]
Pithecia monachus, Brazil [27]
Pithecia pithecia, Brazil [27]
Plecturocebus brunneus, Brazil [27]
Plecturocebus moloch, Brazil [27]
Saguinus fuscicollis, Peru [29]
Saguinus imperator, Peru [29]
Saguinus martinsi, Brazil* [28]
Saguinus midas, Brazil [27]
Saimiri boliviensis, Brazil [27]
Saimiri sciureus, Brazil [27]
Saimiri ustus, Brazil [27]

Sapajus apella, Brazil [27]

Sapajus macrocephalus, Brazil [27]

*Records from captive primates.

Plasmodium falciparum Welch 1897

Alouatta seniculus, Colombia [30]

*Records from captive primates.

Plasmodium malariae Feletti and Grassi, 1889

Aotus infulatus, Brazil* [25]

Callithrix jacchus, Brazil* [25]

Chiropotes satanas, Brazil* [25]

Saguinus midas, Brazil* [25]

Sapajus sp., Brazil [25]

*Records from captive primates.

Plasmodium malariae/brasilianum

Alouatta guariba, Brazil [23]

Alouatta guariba, Brazil [31]

Alouatta seniculus, Colombia [30]

Aotus griseimembra, Colombia [30]

Ateles hybridus, Colombia [30]

Cebus versicolor, Colombia [30]

Sapajus sp., Brazil* [24]

Sapajus sp., Brazil [24]

*Records from captive primates.

Plasmodium simium Da Fonseca 1951

Alouatta guariba, Brazil [23]

Alouatta guariba, Brazil [32]

Alouatta guariba, Brazil* [33]

Alouatta guariba, Brazil* [34]

Brachyteles arachnoides, Brazil [27]

*Records from captive primates.

Plasmodium vivax/simium

Alouatta sp., Brazil [35]

Alouatta guariba, Brazil [31]

Alouatta seniculus, Colombia [30]

Ateles hybridus, Colombia [30]

Cebus versicolor, Colombia [30]

Family Chilomastigidae Cavalier-Smith 2013

Chilomastix sp. Alexeieff, 1910

Alouatta palliata, Ecuador [1]

Family Sarcocystidae Poche, 1913

Toxoplasma sp. Nicolle and Manceaux, 1909

Alouatta sp., Brazil* [36]

Saimiri sciureus, South Korea* [37]

Saimiri sciureus, Japan* [38]

*Records from captive primates.

Toxoplasma gondii Nicolle and Manceaux, 1908

Alouatta sp., Brazil* [36]

Saimiri sciureus, Colombia* [21]

Saimiri sciureus, South Korea* [37]

Saimiri sciureus, Japan* [38]

*Records from captive primates.

Family Trichomonadidae Chalmers and Pekkola, 1918

Tetratrichomonas sp. Parisi, 1910

Alouatta sara, Brazil* [39]

Callithrix penicillata, Brazil* [39]

Sapajus apella, Brazil* [39]

*Records from captive primates.

Trichomonas sp. Donné, 1836

Alouatta palliata, Costa Rica [20]

Family Trypanosomatidae Ross, 1903

Alouatta seniculus, Peru* [40]

Alouatta seniculus, Peru [40]

Aotus sp., Peru* [40]

Ateles belzebuth, Peru* [40]

Ateles chamek, Peru [40]

Cacajao calvus, Peru [40]

Cebus albifrons, Peru [40]

Lagothrix cana, Peru* [40]

Lagothrix lagotricha, Peru* [40]

Lagothrix poeppigii, Peru* [40]

Pithecia monachus, Peru [40]

Plecturocebus cupreus, Peru [40]

Saimiri boliviensis, Peru* [40]

Saimiri boliviensis, Peru [40]

Saimiri sciureus, Peru* [40]

Saimiri sciureus, Peru [40]

Sapajus macrocephalus, Peru* [40]

Sapajus macrocephalus, Peru [40]

*Records from captive primates

Leishmania sp. Ross, 1903

Alouatta seniculus, French Guiana [41]

Sapajus cay, Brazil [42]

Leishmania amazonensis Lainson & Shaw, 1972

Alouatta caraya, Argentina [43]

Leishmania braziliensis Vianna, 1911

Aotus trivirgatus, Panama [44]

Saguinus geoffroyi, Panama [44]

Alouatta caraya, Argentina [43]

Leishmania braziliensis/ infantum/amazonensis

Callithrix sp., Brazil [45]

Leishmania guyanensis Floch, 1954

Alouatta seniculus, French Guiana [41]

Leishmania infantum Nicolle, 1908

Alouatta caraya, Argentina [43]

Alouatta guariba, Brazil* [46]

*Records from captive primates

Leishmania shawi Lainson et al. 1989

Sapajus apella, Brazil [47]

Trypanosoma sp. Gruby, 1843

Callithrix geoffroyi, Brazil [48]

Saguinus leucopus, Colombia [13]

*Records from captive primates

Trypanosoma cruzi Chagas, 1909

Aotus azarae, Brazil* [49]

Ateles paniscus, Brazil* [49]

Cebus albifrons. Peru [40]

Cebus olivaceus, Brazil* [49]

Lagothrix cana, Brazil* [49]

Lagothrix poeppigii, Peru [40]
Pithecia monachus, Brazil* [49]
Plecturocebus oenanthe, Peru [40]
Saguinus midas, Brazil* [49]
Saimiri boliviensis, Peru [40]
Saimiri sciureus, Peru* [40]
Saimiri sciureus, Brazil* [49]
Saimiri sciureus, Peru [40]
Saimiri ustus, Brazil* [49]
Sapajus sp., Brazil* [49]
Sapajus apella, Brazil* [49]
Sapajus macrocephalus, Peru [40]
Sapajus macrocephalus, Peru* [40]

*Records from captive primates

Trypanosoma minasense Chagas, 1908

Callithrix geoffroyi, Brazil [48]
Callithrix penicillata, Brazil [50]

ANIMALIA Linnaeus, 1758

Phylum Nematoda Rudolphi, 1808

Saguinus leucopus, Colombia [13]
Sapajus flavius, Brazil [26]

Family Ancylostomatidae Looss, 1905

Saguinus leucopus, Colombia [13]
Ancylostoma sp. Dubini, 1843
Lagothrix flavicauda, Peru [10]
Saimiri sciureus, Colombia* [21]

*Records from captive primates.

Family Ascarididae Baird, 1853

Aotus nigriceps, Peru [3]

Lagothrix lagotricha, Colombia [14]

Ascaris sp. Linnaeus, 1758

Alouatta guariba, Brazil [51]

Saguinus leucopus, Colombia [13]

Sapajus nigratus, Argentina [52]

Ascaris lumbricoides Linnaeus, 1758

Alouatta seniculus, Colombia* [2]

*Records from captive primates.

Family Capillariidae Neveu-Lemaire, 1936

Capillaria sp. Zeder, 1800

Lagothrix flavicauda, Peru [10]

Alouatta palliata, Ecuador [1]

Cebus albifrons, Ecuador [53]

Family Filaroididae Schulz, 1951

Filariopsis sp. Van Thiel, 1926

Sapajus nigratus, Argentina [52]

Family Gongylonematidae Hall, 1916

Saguinus weddelli, Peru [54]

Saguinus imperator, Peru [54]

Gongylonema sp. Molin, 1857

Callithrix geoffroyi, Brazil [55]

Family Habronematidae Ivaschkin, 1961

Parabronema sp. Baylis, 1921

Alouatta pigra, Mexico [56]

Family Metastrongylidae Leiper, 1909

Saguinus leucopus, Colombia [13]

Family Molineidae Skrjabin and Schulz, 1937

Molineus torulosus Molin 1861

Sapajus apella, Brazil* [57]

Sapajus flavius, Brazil* [57]

Sapajus libidinosus, Brazil* [57]

*Records from captive primates.

Family Onchocercidae Leiper, 1911

Alouatta macconnelli, French Guiana [58]

Brugia sp. Buckley, 1960

Alouatta macconnelli, French Guiana [58]

Dipetalonema freitasi Bain, Diagne & Muller, 1987

Cacajao calvus, Peru [59]

Dipetalonema gracile Rudolphi, 1809

Lagothrix poeppigii, Peru [60]

Pithecia monachus, Peru [59]

Saimiri sciureus, China* [61]

*Records from captive primates.

Mansonella sp. Faust, 1929

Alouatta macconnelli, French Guiana [58]

Family Oxyuridae Cobbold, 1864

Lagothrix lagotricha, Colombia [14]

Lagothrix lagotricha, Colombia* [14]

Saimiri sciureus, Colombia [21]

*Records from captive primates.

Enterobius sp. Leach, 1853

Alouatta palliata, Ecuador [1]

Enterobius vermicularis Linnaeus, 1758

Alouatta seniculus, Colombia* [2]

Cebus albifrons, Colombia* [2]

*Records from captive primates.

Trypanoxyuris sp. Vevers, 1923

Alouatta guariba, Brazil [51]

Alouatta palliata, Costa Rica [18]

Alouatta palliata, Ecuador [1]

Alouatta pigra, Mexico [62]

Alouatta pigra, Mexico [56]

Aotus nigriceps, Peru [3]

Leontopithecus chrysomelas, Brazil [63]

Trypanoxyuris atelis Cameron, 1929

Ateles geoffroyi, Mexico [64]

Ateles geoffroyi, Mexico [65]

Ateles geoffroyi, Mexico* [65]

Ateles geoffroyi, Costa Rica [64]

*Records from captive primates.

Trypanoxyuris atelophora Kreis, 1932

Ateles geoffroyi, Mexico [64]

Ateles geoffroyi, Costa Rica [64]

Trypanoxyuris callithricis Solomon, 1933

Callithrix sp., Brazil [66]

Trypanoxyuris kemuimae Solórzano-García, Link Ospina, Rondón & Pérez-Ponce de León, 2020

Alouatta seniculus, Colombia [67]

Trypanoxyuris kotudo Solórzano-García, Link Ospina, Rondón & Pérez-Ponce de León, 2020

Alouatta seniculus, Colombia [67]

Trypanoxyuris minutus Schneider, 1866

Alouatta sp., Mexico [65]

Alouatta guariba., Brazil [66]

Alouatta guariba., Brazil [68]

Alouatta palliata, Costa Rica [64]

Alouatta palliata, Mexico [64]

Alouatta palliata, Nicaragua [64]

Trypanoxyuris multilabiat Solórzano-García *et al.*, 2016

Alouatta palliata, Costa Rica [64]

Alouatta palliata, Mexico [64]

Alouatta palliata, Nicaragua [64]

Trypanoxyuris seunimii Solórzano-García, Link Ospina, Rondón & Pérez-Ponce de León, 2020

Alouatta seniculus, Colombia [67]

Family Physalopteridae Railliet, 1893

*Sapajus nigr*itus, Argentina [52]

Physaloptera sp. Rudolphi, 1819

*Sapajus nigr*itus, Brazil [66]

Family Rictulariidae Railliet, 1916

Pterygodermatites nycticebi Mönnig, 1926

Callimico sp., Switzerland* [69]

*Records from captive primates.

Family Spiruridae Oerley, 1885

Leontopithecus chrysomelas, Brazil [63]

Saguinus leucopus, Colombia [13]

Family Strongylidae Baird, 1853

Aotus nigriceps, Peru [3]

Lagothrix lagotricha, Colombia [14]

Lagothrix lagotricha, Colombia* [14]

*Records from captive primates.

“Strongyles”

Cebus albifrons, Ecuador [53]

Family Strongyloidea Chitwood and McIntosh, 1934

Strongyloides sp. Grassi, 1879

Alouatta caraya, Argentina [70]

Alouatta palliata, Costa Rica [18]

Alouatta palliata, Ecuador [1]

Alouatta seniculus, Colombia* [2]

Aotus nigriceps, Peru [3]

Cebus albifrons, Ecuador [53]

Cebus albifrons, Ecuador* [53]

Lagothrix flavicauda, Peru [10]

Saguinus leucopus, Colombia [13]

Saimiri sciureus, Colombia* [21]

Sapajus nigritus, Argentina [52]

*Records from captive primates.

Strongyloides cebus Darling, 1911

Lagothrix flavicauda, Peru [10]

Strongyloides stercoralis Bavay, 1876

Pithecia monachus, Peru* [71]

*Records from captive primates.

Family Subuluridae Yorke and Maplestone, 1926

Sapajus nigrinus, Argentina [52]

Primasubulura sp. Inglis, 1958

Callithrix sp., Brazil [66]

Leontopithecus chrysomelas., Brazil [63]

Saguinus imperator, Peru [54]

Saguinus weddelli, Peru [54]

Family Trichinellidae Ward, 1907

Lagothrix lagotricha, Colombia* [14]

*Records from captive primates.

Family Trichostrongylidae Leiper 1912

Lagothrix lagotricha, Colombia* [14]

*Records from captive primates.

Trichostrongylus sp. Looss, 1905

Saguinus leucopus, Colombia [13]

Family Trichuridae Railliet, 1915

Trichuris sp. Roederer, 1761

Sapajus nigrinus, Argentina [52]

ANIMALIA Linnaeus, 1758

Phylum Acanthocephala Kohlreuther, 1771

Family Oligacanthorhynchidae Southwell and Macfie, 1925

Pachysentis sp. Meyer, 1931

Alouatta guariba, Brazil [66]

Callithrix sp., Brazil [66]

Prosthenorchis sp. Travassos, 1915

Leontopithecus chrysomelas, Brazil [66]

Leontopithecus chrysomelas, Brazil [63]

Saguinus imperator, Peru [54]

Saguinus leucopus, Colombia [13]

Saguinus weddelli, Peru [54]

Sapajus nigratus, Brazil [66]

Prosthenorchis elegans Diesing, 1851

Callithrix geoffroyi, Brazil [72]

Cebus albifrons, Ecuador* [53]

Lagothrix flavicauda, Peru [10]

Saimiri sciureus, Colombia* [21]

*Records from captive primates.

ANIMALIA Linnaeus, 1758

Phylum Platyhelminthes Minot, 1876

Class Cestoda Rudolphi, 1808

Lagothrix lagotricha, Colombia [14]

Leontopithecus rosalia, Brazil [66]

Saguinus imperator, Peru [54]

Saguinus weddelli, Peru [54]

Family Anoplocephalidae Cholodkovsky, 1902

Bertiella sp. Stiles and Hassall, 1902

Alouatta caraya, Paraguay [73]

Alouatta caraya, Argentina* [6]

Alouatta guariba, Brazil [66]

Alouatta guariba, Brazil [51]

*Records from captive primates.

Bertiella mucronata Meyner, 1895

Alouatta caraya, Argentina [70]

Alouatta caraya, Argentina* [70]

*Records from captive primates.

Paratriotaenia oedipomidatis Linn, 1758

Lagothrix flavicauda, Peru [10]

Family Hymenolepididae Ariola, 1899

Sapajus nigritus, Argentina [52]

Hymenolepis sp. Kaulfuss, 1824

Cebus albifrons, Ecuador [53]

Family Mesocestoididae Fuhrmann, 1907

Mesocestoides sp. Vaillant, 1863

Saguinus midas, Italy* [74]

*Records from captive primates.

ANIMALIA Linnaeus, 1758

Phylum Platyhelminthes Minot, 1876

Class Trematoda Rudolphi, 1808

Alouatta pigra, Mexico [56]

Aotus nigriceps, Peru [3]

Sapajus nigritus, Argentina [52]

Family Dicrocoeliidae Odhner, 1910

Alouatta pigra, Mexico [62]

Saguinus imperator, Peru [54]

Saguinus weddelli, Peru [54]

Controrchis sp. Price, 1928

Alouatta palliata, Costa Rica [18]

Alouatta palliata, Ecuador [1]

Alouatta pigra, Mexico [62]

Controrchis biliophilus Price, 1928

Alouatta pigra, Mexico [56]

Platynosomum sp. Looss, 1907

Callithrix sp., Brazil [66]

Callithrix geoffroyi, Brazil [55]

Sapajus nigratus, Brazil [66]

Platynosomum illiciens Braun, 1901

Callithrix penicillata, Brazil* [75]

Callithrix penicillata, Brazil* [76]

*Records from captive primates.

Ectoparasites

ANIMALIA Linnaeus, 1758

Family Ixodidae Dugès, 1834

Amblyomma aureolatum Pallas, 1772

Alouatta guariba, Brazil* [77]

*Records from captive primates.

Amblyomma dubitatum Neumann, 1899

Alouatta guariba, Brazil* [77]

*Records from captive primates.

Amblyomma parkeri Fonseca & Aragao, 1952

Alouatta guariba, Brazil* [77]

Callicebus nigrifrons, Brazil* [77]

*Records from captive primates.

Amblyomma romarioi Martins, Luz & Labruna, 2019

Callicebus nigrifrons, Brazil* [78]

*Records from captive primates.

Amblyomma sculptum Berlese, 1888

Alouatta guariba, Brazil [79]

Alouatta guariba, Brazil* [77]

*Records from captive primates.

Rhipicephalus microplus Canestrini, 1888

Alouatta seniculus, Brazil [80]

Family Oestridae Leach, 1815

Cuterebra baeri Shannon and Greenem, 1926

Aotus nancymae, Colombia [81]

Aotus vociferans, Colombia [81]

Family Trichodectidae Kellogg, 1896

Cebidicola semiarmatus Neumann, 1913

Alouatta guariba, Brazil [82]

Family Hectopsyllidae Baker, 1904

Tunga penetrans Linnaeus, 1758

Alouatta guariba, Brazil [51]

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