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Revisão

Plants of the American continent with antimalarial activity

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RESUMO: "Plantas do continente Americano com atividade antimalárica". Malária é uma doença parasitária humana causada por protozoários do gênero *Plasmodium*. Esta doença tem acometido populações que habitam regiões tropicais e subtropicais. Anualmente, cerca de 500 milhões de casos ocorrem no mundo, o que permite ser considerada uma doença emergente de importância para a saúde pública. Neste contexto, os produtos naturais, a exemplo das espécies vegetais, têm suas moléculas bioativas como alvo para estudos farmacológicos, toxicológicos e fitoquímicos destinados à síntese de medicamentos mais eficazes para o tratamento de inúmeras doenças. Portanto, este trabalho fornece subsídio às pesquisas com produtos naturais para o tratamento da malária. Nesta revisão, 476 espécies de plantas do continente Americano foram relatadas para a atividade antimalárica, sendo destas 198 ativas e 278 inativas para algum tipo de *Plasmodium*, quando avaliados através de modelos *in vitro* e *in vivo*.

Unitermos: Atividade antimalárica, plantas medicinais, produtos naturais, continente Americano, revisão.

ABSTRACT: Malaria is a human parasitic disease caused by protozoa species of the *Plasmodium* genus. This disease has affected populations of the tropical and subtropical regions. About 500 million new cases occur annually on the world and therefore it is considered an emerging disease of important public health problem. In this context, the natural products as vegetables species have their bioactive molecules as targets for pharmacological, toxicological and phytochemical studies towards the development of more effective medicines for the treatment of many diseases. So this work intends to aid the researchers in the study of natural products to the treatment of malaria. In this review, 476 plants of the American continent were related for the antimalarial activity and of these vegetables species 198 were active and 278 inactive for some type of *Plasmodium* when they were evaluated through of *in vitro* or *in vivo* bioassays models.

Keywords: Antimalarial activity, medicinal plants, natural products, American continent, review.

INTRODUCTION

Malaria is a parasitic disease caused by protozoa species of the *Plasmodium* genus and it is transmitted for human through the bite of infected female mosquito of the *Anopheles* genus (Veronesi, 1991). In each year, about 100 - 500 million people are infected while 1 - 3 million died with malaria in the world. This disease is considered a public health problem of global scale by World Health Organization (WHO, 1997). It is estimated that 40% of the population world lives in areas at risk of infection over 100 countries worldwide, which are include countries of the American continent (Trigger & Kondrachine, 1998).

In the South America, especially in Bolivia, the malaria is responsible for considerable number of morbidity and mortality. According to the Organización Panamericana de la Salud (OPS 1997), 0.7% of the Argentine population lives at risk of infection, but this percentage could still be higher because cross-border migration and the unrelated cases in the rural areas (Debenedetti et al., 2002). In Colombia, it was registered about 120,000 cases of malaria in the decade of 90, while in Brazil, 509.000 cases were recorded in this same period with 96% of them occurred in the Amazon region (WHO, 1997).

The main species of the genus *Plasmodium* involved on the transmition of the malaria for human are: *P. vivax, P. ovale, P. falciparum* and *P. malaria*. Therefore, the third specie is the most causer of death (Harrison et al., 1998). Other species of this genus infect animals as *P. knowlesi* (monkeys), *P. berghei* (rodents) and *P. gallinaceum* (fowl). The clinical events are fever, feeling of malaise, chills, muscle pain, fatigue, anemia, compromised liver, spleen and kidney and they occur between 9 and 40 days after the bite of the infected mosquitoes, depending on the species of *Plasmodium* (Neves et al., 2005).

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The treatment with single or combined drugs resistant to chloroquine has been used as an alternative therapy for malaria, but they are expensive and sometimes cause signal of toxicity due to limited knowledge about the metabolism and mechanism of action of these antimalarial drugs. However, all these medicines are still are essential to reduce the morbidity and mortality caused by malaria, since the vaccine against this disease have limited activity in humans. Therefore, it is necessary to develop new, safe and effective antimalarial medicines. So in recent years, there has also been growing interest in alternative therapies such the use of natural products, especially those derived from plants which have showed to produce promising results for the treatment of many diseases (Rates, 2001). In this context, the present work is a review about plants of the American continent with antimalarial activity.

In the course of our continuing search for bioactive natural products from plants, we have recently published reviews of extracts and compounds derived of plants with the following potential activities: inhibitors of mammary, uterine cervical and ovarian neoplasia (Moura et al., 2001; Moura et al., 2002; Silva et al., 2003); inhibitors of HMG CoA reductase (Gonçalves et al., 2000); with central analgesic activity (Almeida et al., 2001); employed in prevention of osteoporosis (Pereira et al., 2002); for the treatment of Parkinson's disease (Morais et al., 2003); anticonvulsant and anxiety disorders (Quintans-Junior, 2008; Sousa et al., 2008), with antileishmanial (Rocha et al., 2005), giardicidal (Amaral et al., 2006), antileprotic (Barbosa-Filho et al., 2007a), hypoglycemic (Barbosa-Filho et al., 2005) and anti-inflammatory (Falcão et al., 2005; Barbosa-Filho et al., 2006a) activities; inhibitors of the acetylcholinesterase and angiotensin-converting enzyme (Barbosa-Filho et al., 2006b; Barbosa-Filho et al., 2006c), and with antiulcer activity (Falcão et al., 2008a,b; Mota et al., 2009). Our group has also reviewed the medicinal and poisonous plants of the Northeastern region of Brazil (Agra et al., 2007, 2008), among other review articles (Alves et al., 2000; Souza et al., 2005; Gonçalves et al., 2006; Barbosa-Filho et al., 2007b, 2008; Sena-Filho et al., 2008).

MATERIALS AND METHODS

In this article, some reports about vegetable species of the American continent with antimalarial activity were reviewed in the specialized literature published up to December 2007. The search was carried out on data banks such as Biological Abstracts, SciFinder Scholar, Periódicos CAPES, Pubmed and NAPRALERT (acronym for Natural Products ALERT - University of Illinois in Chicago, U.S.A.). The references were consulted for details of the experimental models used for testing the extracts and derivates vegetables against malaria, activities and organism tested.

RESULTS AND DISCUSSION

For this review, 476 species of plants were listed with possible antimalarial activity and distributed in 103 botanical families. Among those plant species 198 were active and 278 inactive against some *Plasmodium* type causer of malaria when evaluated *in vivo* or *in vitro* bioassays models. The antimalarial activity was evaluated for *P. falciparum*, *P. berghei*, *P. gallinaceum*, *P. vinckei*, *P. lophurae*, *P. cathemerium* and *P. yolii* stains. The most studied botanical families were Asteraceae, Simaroubaceae, Fabaceae, Meliaceae, Amaryllidaceae, Apocynaceae, Rubiaceae, Velloziaceae and Verbenaceae which showed more than ten species of plants studied. The main studies were developed in Brazil and United States due to the flora biodiversity offered by the first country or the financial-technology resource of the second one. All data are shown in Table 1.

Some researches are validation of the tradicional medicine with the use of plants for the treatment of malaria. *Remijia ferruginea* (Rubiaceae) of which the 80 % ethanol extract obtained of the dried bark at the dose of 500 mg/kg was active against *P. berghei* infected mice (Andrade-Neto et al., 2003) and *Bidens pilosa* (Asteraceae), one plant used in the Brazilian endemic area, showed antimalarial activity to different extracts obtained of dried entire plant, leaves, root or stem against *P. falciparum* and *P. berguei* through of *in vitro* and *in vivo* bioassays models (Brandão et al., 1997; Krettli et al., 2001a,b; Oliveira et al., 2004). Other species of the Asteraceae family is *Vernonia brasiliana* in which the hexane extract of dried leaves decreased the infection of *P. berghei* in mice and it was inactive for *P. falciparum in vitro* model (Carvalho & Krettli, 1991; De Almeida Alves et al., 1997); the decoction and aqueous extract of *Acanthospermum australe* inhibited *in vitro* the growth of *P. falciparum* stain or decreased the infection caused by *P. berghei* in mice (Brandão et al., 1992; Carvalho & Krettli, 1991; Carvalho et al., 1991). Species of the *Artemisia* genus also were studied for antimalarial activity such *A. absinthium*, *A. vulgaris* and *A. ludoviciana*. In the researches, the aqueous extract of the first and second plant did not inhibit *in vitro* the growth of *P. falciparum* (Hernandez et al., 1990), while the 95% ethanol extract of the last specie was active against *P. yoelii* infected mice (Malagon et al., 1997).

The vegetables species of the Cucurbitaceae family were also evaluated to this activity. So the 95% ethanol extract obtained from the dried seed of *Cucurbita maxima* popularly known as pumpkin strawberries was active in dose of 250 mg/kg against *P. berghei* infected mice (Amorim et al., 1991) and *Momordica charantia*, called as melon from São Caetano, had the aqueous and chloroform extracts obtained of the dried flowers or aerial parts inactive against *P. berghei*, *P. gallinaceum*, *P. cathemerium* and *P. lophurae* (Carvalho et al., 1991; Spencer et al., 1947), the 95% ethanol extract obtained

of the dried leaves in the dose of 500 mg/kg was also inactive against *P. berghei* infected mice (Amorim et al., 1991), while the infusion and 95% ethanol extract of the dried leaves and stem in dose of 1.0 g/kg were active against *P. berghei* infected human or mice (Ueno et al., 1996).

Lantana cujabensis Schauer (Verbenaceae) is a shrub found in the Amazonian and Andean forests of South America. Okunade & Lewis (2004) related that the 95% ethanol extract obtained of the dried leaves and stem of this plant had antimalarial activity *in vitro* against *P. falciparum*. Mcphail et al. (2007) evaluated the antimalarial activity of the ethyl acetate extract of marine cyanobacterium *Lyngbya majuscula* (Oscillatoriaceae) *in vitro* model for *P. falciparum*. This extract in the concentration of 2.0 µg/mL inhibited the growth of the protozoa.

Plant species of the Fabaceae family were also evaluated such *Bowdichia virgilioides* which is traditionally used against malaria by American natives had the 95% ethanol extract obtained of the dried bark active in dose of 250 mg/kg to *P. berghei* infected mice and *in vitro* to *P. falciparum* - MRC 20 (IC_{50} = 1 µg/mL) and *P. berghei* (IC_{50} = 0.2 µg/mL). In similar, *Caesalpinia pluviosa* also had the 95% ethanol extract of the dried bark active in the dose of 500 mg/kg to *P. berghei* infected mice and *in vitro* to *P. falciparum* - MRC 20 (IC_{50} = 15 µg/mL) and *P. berghei* (IC_{50} = 8.3 µg/mL).

Species of plants of the Lauraceae family such *Nectandra* aff. *hihua* and *Licaria canella* had the 95% ethanol extract active when evaluated against *P. falciparum* - MRC 20 and *P. berghei in vitro* and *in vivo* bioassays models. However, the 95 % ethanol extract of the dried bark of *Protium glabrescens* (Burseraceae) in the 100 mg/kg dose was only active *in vivo* model to *P. berguei*, while it was inactive *in vitro* model to *P. falciparum* - MRC 20 and *P. berghei* (Deharo et al., 2001).

Also were related in scientific literature some species of the Solanaceae family with antimalarial activity. The plant *Solanum nudum* has been used by American community as Tumaco in Colombia to cure malaria and in according to Marcela et al. (2001), the aqueous extract obtained of the dried leaves and stem (0.3 % w/v - i.p.) was active against the *P. berghei* infected mice. The 95% ethanol extracts of the dried leaves of *Dunalia brachyacantha* and *Saracha punctata* were tested *in vitro* models for *P. falciparum*, so the first plant was active while the second one showed inactive. Both the extracts also were evaluated *in vivo* models to *P. vinckei* and all were active (Moretti et al., 1998; Munoz et al., 2000). However, the 95% ethanol and hexane extracts of *Acnistus arborescens* did not have this activity for *P. berghei* stain (Brandão et al., 1985).

Picrasma crenata (Veil.) Engl. (Simaroubaceae) is known as 'granadillo' or 'quasia', 'palo amargo' in Argentina and it is indicated such an antimalarial, febrifuge, tonic, antisyphilitic and insecticide. The aqueous and methanol extracts of the dried aerial parts this plant showed antimalarial activity *in vitro* for *P. falciparum* K-1 (Debenedetti et al., 2002). Other species from this botanical genus such *P. excelsa* and *P. antillana* did not have this activity for *P. gallinaceum* infected chicken when the methanol and chloroform extracts obtained from the wood were used (Spencer et al., 1947).

Other species used by American population did not have antimalarial activity in condition evaluated. Such the 80% ethanol extract of *Strychnos pseudoquina* (Loganiaceae) in the dose of 1,000 mg/kg (Andrade-Neto et al., 2003) and the aqueous extract obtained from the dried bark of *Coutarea hexandra* (Rubiaceae) when it was evaluated to *P. berghei* infected mice (Carvalho et al., 1991). In similar, *Deianira erubescens* (Gentianaceae) also did not show activity with the 80% ethanol extract obtained from the dried leaves and root (Andrade-Neto et al., 2003). The aqueous extract of the dried leaves of *Lisianthus speciosus* was active against *P. berghei* infected mice and *in vitro* for *P. falciparum* stain (Carvalho & Krettli, 1991), while the same extract obtained of the dried root was inactive for *P. berghei* infected mice (Carvalho et al., 1991). In study elaborated by Diaz & Medina (1996), the chloroform extract obtained from the dried stembark of *Tabebuia ochracea* ssp. *neochrysantha* (Bignoniaceae) which is traditionally used against malaria in the Amazon did not show bioactivity *in vitro* against *P. berghei*.

CONCLUSION

Plants represent a vital source to research new active principles for the treatment of human diseases such as malaria which is considered neglected and emergent in American countries because the high incidence of attacks of the female *Anopheles* mosquitoes infected with *Plasmodium* spp at risk of infection regions such the forests areas. In this paper a variety of plants of the American continent evaluated against the main protozoa causer of the malaria was related. However, we conclude that the plants with antimalarial activity are a few and they do not have this therapeutic property fully defined. Therefore, in this context, it is necessary to support financially the multidisciplinary and interdisciplinary research, mostly those related to natural products enabling the discovery of new antimalarial pharmaceuticals.

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REFERENCES

Agra MF, França PF, Barbosa-Filho JM 2007. Synopsis of the plants known as medicinal and poisonous in Northeast of Brazil. *Rev Bras Farmacogn 17*: 114-140.

Agra MF, Silva KN, Basílio IJLD, França PF, Barbosa-Filho JM 2008. Survey of medicinal plants used in the region Northeast of Brazil. *Rev Bras Farmacogn 18*: 472-508.

Almeida RN, Navarro DS, Barbosa-Filho JM 2001. Plants with central analgesic activity. *Phytomedicine 8*: 310-322.

Alves JS, Castro JC, Freire MO, Cunha EVL, Barbosa-Filho JM, Silva MS 2000. Complete assignment of the 1H

and 13C spectra of four triterpenes of the ursane, artane, lupane and friedelane groups. *Magn Reson Chem 38*: 201-206.

Amaral FMM, Ribeiro MNS, Barbosa-Filho JM, Reis AS, Nascimento FRF, Macedo RO 2006. Plants and chemical constituents with giardicidal activity. *Rev Bras Farmacogn 16*: 696-720.

Amorim CZ, Flores CA, Gomes BE, Marques AD, Cordeiro RSB 1988. Screening for antimalarial activity in the genus *Pothomorphe*. *J Ethnopharmacol 24*: 101-106.

Amorim CZ, Marques AD, Balão RS 1991. Screening of the antimalarial activity of plants of Cucurbitaceae family. *Mem Inst Oswaldo Cruz 86*: 177-180.

Andrade-Neto VF, Brandão MGL, Stehmann JR, Oliveira LA, Krettli AU 2003. Antimalarial activity of *Cinchona*-like plants used to treat fever and malaria in Brazil. *J Ethnopharmacol 87*: 253-256.

Antoun MD, Gerena L, Milhous WK 1993. Screening of the flora of Puerto Rico for potential antimalarial bioactives. *Int J Pharmacogn 31*: 255-258.

Antoun MD, Ramos Z, Vazques J, Oquendo I, Proctor GR, Gerena L, Franzblau SG 2001. Evaluation of the flora of Puerto Rico for i*n vitro* antiplasmodial and antimycobacterial activities. *Phytother Res 15*: 638-624.

Banerjee JN, Lewis JJ 1954. Pharmacological studies in the *Apocynaceous* genus *Aspidosperma* Mart. & Zucc., *Aspidosperma oblongum* A. D. C. *J Pharm Pharmacol 6*: 246-252.

Barbosa-Filho JM, Vasconcelos THC, Alencar AA, Batista LM, Oliveira RAG, Guedes DN, Falcão HS, Moura MD, Diniz MFFM, Modesto-Filho J 2005. Plants and their active constituents from South, Central, and North America with hypoglycemic activity. *Rev Bras Farmacogn 15*: 392-413.

Barbosa-Filho JM, Piuvezam MR, Moura MD, Silva MS, Lima KVB, Cunha EVL, Fechine IM, Takemura OS 2006a. Anti-inflammatory activity of alkaloids: a twenty century review. *Rev Bras Farmacogn 16*: 109-139.

Barbosa-Filho JM, Medeiros KCP, Diniz MFFM, Batista LM, Athayde-Filho PF, Silva MS, Cunha EVL, Almeida JRGS, Quintans-Júnior LJ 2006b. Natural products inhibitors of the enzyme acetylcholinesterase. *Rev Bras Farmacogn 16*: 258-285.

Barbosa-Filho JM, Martins VKM, Rabelo LA, Moura MD, Silva MS, Cunha EVL, Souza MFV, Almeida RN, Medeiros IA 2006c. Natural products inhibitors of the angiotensin converting enzyme (ACE). A review between 1980-2000. *Rev Bras Farmacogn 16*: 421-446.

Barbosa-Filho JM, Nascimento-Júnior FA, Tomaz ACA, Athayde-Filho PF, Silva MS, Cunha EVL 2007a. Natural products with antileprotic activity. *Rev Bras Farmacogn 17*: 141-148.

Barbosa-Filho JM, Sena-Filho JG, Duringer JM, Uchoa DEA, Xavier HS, Braz-Filho R 2007b. Distribution of iridoid glucosides in plants from the genus *Lippia* (Verbenaceae): An investigation of *Lippia alba* (Mill.) N.E. Brown. *Nat Prod Commun 2*: 715-716.

Barbosa-Filho JM, Alencar AA, Nunes XP, Tomaz ACA, Sena-Filho JG, Athayde-Filho PF, Silva MS, Souza MFV, da-Cunha EVL 2008. Sources of alpha-, beta-, gamma-, delta- and epsilon-carotenes: A twentieth century review. *Rev Bras Farmacogn 18*: 135-154.

Bastos JK, Gottlieb OR, Sarti SJ, Filho DS 1996. Isolation of lignans and sesquiterpenoids from leaves of *Zanthoxylum naranjillo*. *Nat Prod Lett 9*: 65-70.

Becker ER 1949. Report on the thirty-five drugs and three plant materials tested against *Plasmodium lophurae* in the white pekin duck. *Iowa State Coll J Sci 23*: 189.

Blair S, Mesa J, Correa A, Carmona-Fonseca J, Granados H, Saez J 2002. Antimalarial activity of neurolenin B and derivatives of *Eupatorium inulaefolium* (Asteraceae). *Pharmazie 57*: 413-415.

Brandão M, Botelho M, Krettli E 1985. Antimalarial experimental chemotherapy using natural products. *Cienc Cult 37*: 1152-1163.

Brandão MGL, Grandi TSM, Rocha EMM, Sawyer DR, Krettli AU 1992. Survey of medicinal plants used as antimalarials in the Amazon. *J Ethnopharmacol 36*: 175-182.

Brandão MGL, Krettli AU, Soares LSR, Nerey CGC, Marinuzzi HC 1997. Antimalarial activity of extracts and fractions from *Bidens pilosa* and other *Bidens* species (Asteraceae) correlated with the presence of acetylene and flavonoid compound. *J Ethnopharmacol 57*: 131-138.

Bravo JA, Sauvain M, Gimenez A, Munoz V, Callapa J, Le Men-Olivier L, Massiot G, Lavaud C 1999. Bioactive phenolic glycosides from *Amburana cearensis*. *Phytochemistry 50*: 71-74.

Bray DH, Warhurst DC, Connolly JD, O'Neill MJ, Phillipson JD 1990. Plants as sources of antimalarial drugs. Part 7. Activity of some species of Meliaceae plants and their constituent limonoids. *Phytother Res 4*: 29-35.

Bustillos F, Flores Y, Almanza G 2002. Triterpenoids from *Polypodium decumanum*. *Rev Boliv Quim 19*: 34-38.

Cabral JA, Mc Chesney JD, Milhous WK 1993. A new antimalarial quassinoid from *Simaba guianensis*. *J Nat Prod 56*: 1954-1961.

Calderon AI, Angerhofer CK, Pezzuto JM, Farnsworth NR, Foster R, Condit R, Gupta MP, Soejarto DD 2000. Forest plot as a tool to demonstrate the pharmaceutical potential of plants in a tropical forest of Panama. *Econ Bot 54*: 278-294.

Camacho MR, Phillipson JD, Croft SL, Marley D, Kirby G, Dwarhurs DC 2002. Assessment of the antiprotozoal activity of *Galphimia glauca* and the isolation of new nor-secofriedelanes and norfriedelanes. *J Nat Prod 65*: 1457-1461.

Carvalho LH, Brandão MGL, Santos-Filho D, Lopes JLC, Krettli AU 1991. Antimalarial activity of crude extracts from brazilian plants studies *in vivo* in *Plasmodium berghe*i-infected mice and *in vitro* against *Plasmodium falciparum* in culture. *Braz J Med Biol Res 24*: 1113-1123.

Carvalho LH, Krettli AU 1991. Antimalarial chemotherapy with natural products and chemically defined molecules. *Mem Inst Oswaldo Cruz 86*: 181-184.

Carvalho LH, Ferrari WMS, Krettli AU 1992. A method for screening drugs against the liver stages of malaria using *Plasmodium gallinaceum* and *Aedes mosquitos*. *Braz J Med Biol Res 25*: 247-255.

Chaturvedula VSP, Farooq A, Schilling JK, Malone S, Derveld I, Werkhoven MCM, Wisse JH, Ratsimbason M, Kingston DGI 2004. New eudesmane derivatives from *Melampodium camphoratum* from the Suriname rainforest. *J Nat Prod 67*: 2053-2057.

De Almeida Alves TM, Nagem TJ, De Carvalho CL, Krettli AU, Zani CL 1997. Antiplasmodial triterpene from *Vernonia brasiliana*. *Planta Med 63*: 554-555.

Debenedetti S, Muschietti LM, Baren CV, Clavin M, Broussalis A, Martino V, Houghton PJ, Warhurst D, Steele J 2002. *In vitro* antiplasmodial activity of extracts of Argentinian plants. *J Ethnopharmacol 80*: 163-166.

Deharo E, Bourdy G, Quenevo C, Munoz V, Ruiz G, Sauvain

M 2001. A search for natural bioactive compounds in Bolivia through a multidisciplinary approach. Part V. Evaluation of the antimalarial activity of plants used by the Tacana Indians. *J Ethnopharmacol 77*: 91-98.

Diaz F, Medina JD 1996. Furanonaphthoquinones from *Tabebuia ochracea* ssp. *neochrysanta*. *J Nat Prod 59*: 423-424.

Dominguez JA 1932. Malaria treatment with *Aspidosperma* Quebracho Blanco. *Rev Farm (Buenos Aires) 73*: 82.

Falcão HS, Lima IO, Santos VL, Dantas HF, Diniz MFFM, Barbosa-Filho JM, Batista LM 2005. Review of the plants with anti-inflammatory activity studied in Brazil. *Rev Bras Farmacogn 15*: 381-391.

Falcão HS, Mariath IR, Diniz MFFM, Batista LM, Barbosa-Filho JM 2008a. Plants of the American continent with antiulcer activity. *Phytomedicine 15*: 132-146.

Falcão HS, Leite JA, Barbosa-Filho JM, Athayde-Filho PF, Chaves MCO, Moura MD, Ferreira AL, Almeida ABA, Souza-Brito ARM, Diniz MFFM, Batista LM 2008b. Gastric and duodenal antiulcer activity of alkaloids: a review. *Molecules 13*: 3198-3223.

Federici E, Palazzino G, Nicoletti M, Galeffi C 2000. Antiplasmodial activity of the alkaloids of *Peschiera fuchsiaefolia*. *Planta Med 66*: 93-95.

Francois G, Passreiter CM, Woerdenbag HJ, Van Looveren M 1996. Antiplasmodial activities and cytotoxic effects of aqueous extracts and sesquiterpene lactones from *Neurolaena lobata*. *Planta Med 62*: 126-129.

Franssen FFJ, Simeijsters LJJW, Berger I, Aladan BEM 1997. *In vivo* and *vitro* antiplasmodial activities of some plants traditionally used in Guatemala against malaria. *Antimicrob Agents Chemother 41*: 1500-1503.

Froelich S, Onegi B, Kakooko A, Siems K, Schubert C, Jenett-Siems K 2007. Plants traditionally used against malaria: phytochemical and pharmacological investigation of *Momordica foetida. Rev Bras Farmacogn 17*: 1-7.

Froelich S, Gupta MP, Siems K, Jenett-Siems K 2008. Phenylethanoid glycosides from *Stachytarpheta cayennensis* (Rich.) Vahl, Verbenaceae, a traditional antimalarial medicinal plant. *Rev Bras Farmacogn 18*: 517-520.

Gantier JC, Fournet A, Munos MH, Hocquemiller R 1996. The effect of some 2-substituted quinolines isolated from *Galipea longiflora* on *Plasmodium vinckei* Petteri infected mice. *Planta Med 62*: 285-286.

Gertsch J, Niomawe, Gertsch-Roost K, Sticher O 2004. *Phyllanthus piscatorum*, ethnopharmacological studies on a women's medicinal plant of the Yanomami Amerindians. *J Ethnopharmacol 91*: 181-188.

Gonçalves MCR, Moura LSA, Rabelo LA, Barbosa-Filho JM, Cruz HMM, Cruz J 2000. Natural products inhibitors of HMG CoA reductase. *Rev Bras Farm 81*: 63-71.

Gonçalves MCR, Melo Diniz MFFM, Borba JDC, Nunes XP, Barbosa-Filho JM 2006. Berinjela (*Solanum melongena* L.) - mito ou realidade no combate as dislipidemias? *Rev Bras Farmacogn 16*: 252-257.

Harrison TR, Fauci AS, Braunwald E, Isselbacher KJ, Wilson JD, Martin JB, Kasper DL, Hauser SL, Longo DL 1998. *Medicina Interna*. 14.ed. Rio de Janeiro: Mc Graw Hill.

Hernandez H, Mendiola J, Torress D, Garrido N, Perez N 1990. Effect of aqueous extracts of *Artemisia* on the *in vitro* culture of *Plasmodium falciparum*. *Fitoterapia 61*: 540-541.

Jacquemond-Collet I, Benoit-Vical F, Alexix Valenti M, Stanislas E, Mallie M, Fouraste I 2002. Antiplasmodial and cytotoxic activity of galipine and other tetrahydroquinolines from *Galipea officinalis*. *Planta Med 68*: 68-69.

Jenett Siems K, Siems K, Jakupovic J, Solis PN, Gupta MP, Mockenhaupt FP, Bienzle U, Eich E 2000. Sipandinolide: a butenolide including a novel type of carbon skeleton from *Siparuna andina*. *Planta Med 66*: 384-385.

Jensen JF, Kvist LP, Christensen SB 2002. An antiplasmodial lignan from *Euterpe precatoria*. *J Nat Prod 65*: 1915-1917.

Kohler I, Lenett Siems K, Mockenhaupt FP, Siems K, Jakupovic J, Gonzalez JC, Hernandez MA, Ibarra RA, Berensohn WG, Bienzle U, Eich E 2001. *In vitro* antiplasmodial activity of 4-phenylcoumarins from *Exostema mexicanum*. *Planta Med 67*: 89-91.

Kraft C, Jenett Siems K, Siems K, Gupta MP, Bienzle U, Eich E 2000. Antiplasmodial activity of isoflavones from *Andira inermis*. *J Ethnopharmacol 73*: 131-135.

Kraft C, Jenett Siems K, Siems K, Solis PN, Gupta MP, Bienzle U, Eich E 2001. Andinermals A-C, antiplasmodial constituents from *Andira inermis*. *Phytochemistry 58*: 769-774.

Krettli AU, Andrade-Neto VF, Brandão MDGL, Ferrari WMS 2001a. The search for new antimalarial drugs from plants used to treat fever and malaria or plants ramdomly selected: a review. *Mem Inst Oswaldo Cruz 96*: 1033-1042.

Krettli AU, Brandão MDGL, Ferrari WMS 2001b. New antimalarial drugs: a search based on plants used in popular medicine to treat fever and malaria. *Folha Med 120*: 119-126.

Levander OA, Ager AL, Morris VC, May RG 1991. Protective effect of ground flaxseed or ethyl linolenate in a vitamin e-deficient diet against murine malaria. *Nutr Res 11*: 941-948.

Loizaga NS, Sagastume LC 1935. Malaria treatment with "Quechuol-Dominguez". *Semana Med Buenos Aires* 562-566.

Lopes NP, Kato MJ, Andrade EHDEA, Maia JS, Yoshida M, Planchart AR, Katzin AM 1999. Antimalarial use of volatile oil from leaves of *Virola surinamensis* (Rol.) Warb. by Waiapi Amazon Indians. *J Ethnopharmacol 67*: 313-319.

Lovy A, Knowles B, Labbe R, Nolan L 1999. Activity of Edible mushrooms against the growth of human T4 leukemic cancer cells, HELA cervical cancer cells and *Plasmodium falciparum*. *J Herbs Spices Med Plants 6*: 49-57.

MacKinnon S, Durst T, Arnason JT, Angerhofer CJ, Pezzuto JM, Sanchez-Vindas PE, Poveda LJ, Gbeassor M 1997. Antimalarial activity of tropical Meliaceae extracts and Gedunin derivatives. *J Nat Prod 60*: 336-341.

Makler MT 1994. The effect of cocaine on the growth of *Plasmodium falciparum in vitro*. *Trans Roy Soc Trop Med Hyg 88*: 444.

Malagon F, Vazquez J, Dalgado G, Ruiz A 1997. Antimalaric effect of an alcoholic extract of *Artemisia ludoviciana* Mexicana in a rodent malaria model. *Parasitology 39*: 3-7.

Marcela E, Silvia B, Jaime C, Pilar P 2001. Effect of *Solanun nudum* extracts on the liver of mice infected with *Plasmodium berghei*. *Amer J Chinese Med 29*: 477-484.

Mcphail KL, Correa J, Linington RG, Gonzalez J, Ortega-Barria E, Capson TL, Gerwick WH 2007. Antimalarial linear lipopeptides from a *Panamanian* strain of the marine Cyanobacterium *Lyngbya majuscula*. *J Nat Prod 70*: 984-988.

Mess J, Blair S, Saez J, Correa A, Carmona J 1998. *In*

vitro antimalarial evaluation of extracts of plants *Alternanthera*. *An Quim Int Ed 92*: 67-70.

Montenegro LHM, Oliveira PES, Conserva LM, Rocha EMM, Brito AC, Araujo RM, Trevisan MTS, Lemos RPL 2006. Terpenoids and evaluation of the antimalarial, larvicidal, anti-radicalar and anticholinesterase potential of *Pouteria venosa* (Sapotaceae). *Ver Bras Farmacogn 16*: 611-617.

Morais LCSL, Barbosa-Filho JM, Almeida RN 2003. Plants and bioactive compounds for the treatment of Parkinson's disease. *Arquivos Brasileiros de Fitomedicina Científica 1*: 127-132.

Moretti C, Sauvain M, Lavaud C, Massiot G, Bravo JA, Munoz V 1998. A novel antiprotozoal aminosteroid from *Saracha punctata*. *J Nat Prod 61*: 1390-1393.

Mota KSL, Dias GEN, Pinto MEF, Luiz-Ferreira A, Souza-Brito ARM, Hiruma-Lima CA, Barbosa-Filho JM, Batista LM 2009. Flavonoids with gastroprotective activity. *Molecules 14*: In Press, DOI: 10.3390/molecules140x000x.

Moura MD, Torres AR, Oliveira RAG, Diniz MFFM, Barbosa-Filho JM 2001. Natural products as inhibitors of models of mammary neoplasia. *Brit J Phytother 5*: 124-145.

Moura MD, Silva JS, Oliveira RAG, Diniz MFFM, Barbosa-Filho JM 2002. Natural products reported as potential inhibitors of uterine cervical neoplasia. *Acta Farm Bonaerense 21*: 67-74.

Muhammad I, Dunbar DC, Takamatsu S, Walker LA, Clark AM 2001. Antimalarial, cytotoxic, and antifungal alkaloids from *Duguetia hadrantha*. *J Nat Prod 64*: 559-562.

Muhammad I, Dunbar DC, Khan SI, Tekwani BL, Bedir E, Takamatsu S, Ferreira D, Walker LA 2003. Antiparasitic alkaloids from *Psychotria klugii*. *J Nat Prod 66*: 962-967.

Munoz V, Sauvain M, Bourdy G, Arrazola S, Callapa J, Ruiz G, Choque J, Deharo E 2000. A search for natural bioactive compounds in Bolivia through a multidisciplinary approach part III. Evaluation of the antimalarial activity of plants used by Altenos Indians. *J Ethnopharmacol 71*: 123-131.

Neves DP, Melo AL, Genaro O, Linardi PM 2005. *Parasitologia Humana*. 11.ed. Rio de Janeiro: Atheneu.

Noster S, Kraus LJ 1990. *In vitro* antimalarial activity of *Coutarea latiflora* and *Exostema caribaeum* extracts on *Plasmodium falciparum*. *Planta Med 56*: 63-65.

Okunade AL, Bikoff RE, Casper SJ, Oksman A, Goldberg DE, Lewis WH 2003. Antiplasmodial activity of extracts and quassinoids isolated from seedlings *of Ailanthus altissima* (Simaroubaceae). *Phytother Res 17*: 675-677.

Okunade AL, Lewis WH 2004. Oleanene constituents of *Lantana cujabensis*. *Fitoterapia 75*: 327-331.

Oliveira FQ, Andrade-Neto V, Krettli AU, Brandão MGL 2004. New evidences of antimalarial activity of *Bidens pilosa* root correlated with polyacetylene and flavonoids. *J Ethnopharmacol 93*: 39-42.

O'Neill MJ, Bray DH, Boardman P, Phillipson JD, Warhurst DC 1985. Plants as sources of antimalarial drugs. Part.1. *In vitro* test method for the evaluation of crude extracts from plants. *Planta Med 51*: 394-398.

O'Neill MJ, Bray DH, Boardman P, Wright CW, Phillipson JD, Warhurst DC, Gupta MP, Correya M, Solis P 1987. The activity of *Simarouba amara* against chloroquine-resistant *Plasmodium falciparum in vitro*. *J Pharm Pharmacol Suppl 39*: 80P

O'Neill MJ, Bray DH, Boadman P, Wright CW, Phillipson JD, Warhurst DC, Gupta MP, Correya M, Solis P 1988. Plants as sources of antimalarial drugs. Part 6: activities of *Simarouba amara* fruits. *J Ethnopharmacol 22*: 183-190.

OPS 1997. Organizatión Panamericana de la Salud. Indicadores Básicos. Situación de Salud en las Américas.

Palmeira Júnior SF, Conserva LM, Barbosa-Filho JM 2006. Clerodane diterpenes from *Croton* species: Distribution and the compilation of their ^{13}C NMR spectral data. *Nat Prod Commun 1*: 319-344.

Pereira JV, Modesto-Filho J, Agra MF, Barbosa-Filho JM 2002. Plant and plant-derived compounds employed in prevention of the osteoporosis. *Acta Farm Bonaerense 21*: 223-234.

Phillipson JD, O'Neill MJ 1986. Novel antimalarial drugs from plants? *Parasitology 2*: 355-358.

Quintans-Júnior LJ, Almeida JRGS, Lima JT, Nunes XP, Siqueira JS, Oliveira LEG, Almeida RN, Athayde-Filho PF, Barbosa-Filho JM 2008. Plants with anticonvulsant properties - a review. *Rev Bras Farmacogn 18 (Supl.)*: 798-819.

Rates SMK 2001. Plants as source of drugs. *Toxicon 39:* 603-613.

Rocha LG, Almeida JRGS, Macedo RO, Barbosa-Filho JM 2005. A review of natural products with antileishmanial activity. *Phytomedicine 12*: 514-535.

Seeler AO, Dusenbery E, Malanga C 1943. The comparative activity of quinine, quinidine, cinchonine, cinchonidine and quinoidine against *Plasmodium lophurae* infections of pekin ducklings. *J Pharmacol Exp Ther 78*: 159-163.

Sena-Filho JG, Duringer JM, Maia GLA, Tavares JF, Xavier HS, Silva MS, Cunha EVL, Barbosa-Filho JM 2008. Ecdysteroids from *Vitex* species: Distribution and compilation of their 13C-NMR spectral data. *Chem Biodivers 5*: 707-713.

Silva JS, Moura MD, Oliveira RAG, Diniz MFFM, Barbosa-Filho JM 2003. Natural product inhibitors of ovarian neoplasia. *Phytomedicine 10*: 221-232.

Sousa FCF, Melo CTV, Citó MCO, Félix FHC, Vasconcelos SMM, Fonteles MMF, Barbosa-Filho JM, Viana GSB 2008. Plantas medicinais e seus constituintes bioativos: Uma revisão da bioatividade e potenciais benefícios nos distúrbios da ansiedade em modelos animais. *Rev Bras Farmacogn 18*: 642-654.

Souza EL, Stamford TLM, Lima EO, Trajano VN, Barbosa Filho JM 2005. Antimicrobial effectiveness of spices: an approach for use in food conservation systems. *Braz Arch Biol Technol 48*: 549-558.

Spencer CF, Koniuszy FR, Rogers EF, Shavel Junior J, Easton NR, Kaczka EA, Kuehl Junior FA, Phillips RF, Walti A, Folkers K, Malanga C, Seeler AO 1947. Survey of plants for antimalarial activity. *Lloydia 10*: 145-174.

Steele JCP, Veitch NC, Kite GC, Simmonds MSJ, Warhurst DC 2002. Indole and beta-carboline alkaloids from *Geissospermum sericeum*. *J Nat Prod 65*: 85-88.

Trigger PI, Kondrachine AV 1998. Commentary: Malaria control in the 1990s. *Bull WHO 76*: 11.

Ueno HM, Doyama JT, Padovani E, Salata CR 1996. Effect of *Momordica charantia* L. in mice infected with *Plasmodium berghei*. *Rev Soc Bras Med Trop 29*: 455-460.

Veronesi R. 1991. *Doenças Infecciosas e Parasitárias*. 8.ed. Rio de Janeiro: Guanabara Koogan.

Wasicky R, Unti O, Barbieri E 1942. Quinine and alkaloids in Brazil. *An Fac Farm Odontol Univ Sao Paulo 3*: 137.

WHO 1997. World Health Organization. World malaria situation in 1994. Wkly Epidemiol Rec 1992; 67: 161-167.

Rev. Bras. Farmacogn.
Braz. J. Pharmacogn.
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Table 1. Plants of the American continent evaluated for antimalarial activity.

Botanical family and scientific names	Country	Part of the plant	Extract of the plant	Organism tested and *Plasmodium* specie	Results	Reference
AGAVACEAE						
Sansevieria guineensis Willd	Guatemala	DL	H_2O soluble fraction	Mouse/*Plasmodium berghei*	Inactive	Franssen et al., 1997
			MeOH Ext.	Mouse/*Plasmodium berghei*	Active	Franssen et al., 1997
			CH_2Cl_2 Ext.	*In vitro*/*Plasmodium falciparum*	Active	Franssen et al., 1997
		DRt	H_2O soluble fraction	Mouse/*Plasmodium berghei*	Inactive	Franssen et al., 1997
			MeOH Ext.	Mouse/*Plasmodium berghei*	Active	Franssen et al., 1997
			CH_2Cl_2 Ext.	*In vitro*/*Plasmodium falciparum*	Active	Franssen et al., 1997
AMARANTHACEAE						
Alternanthera lanceolata Schinz	Colombia	DAP	95% EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Mess et al., 1998
AMARYLLIDACEAE						
Amaryllis belladonna L.	USA	Bb	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Boophone disticha (L.F.) Herb.	USA	Bb	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Chlidanthus fragrans (Fairy Lily)	USA	Bb	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Cooperia pedunculata Herb.	USA	Bb	$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Crinum americanum L.	USA	Bb	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Crinum grandiflorum Deleuil	USA	Bb	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Crinum longifolium (L.) Thunb.	USA	Bb	$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Habranthus texanus Herbert	USA	Bb	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Hippeastrum flammigerum C. F.	USA	Bb	$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Hippeastrum puniceum Kuntze	USA	Bb	$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Hippeastrum vittatum Herbert	USA	Bb	$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Hymenocallis americana Roem	USA	Bb	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Hymenocallis expansa (Herb.)	Puerto Rico	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Antoun et al., 2001
Lycoris radiata L. Squamigera	USA	Bb	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
ANACARDIACEAE						
Mangifera indica L.	USA	Bk	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Schinus andinus I.M. Johnston	Bolivia	DB + L	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Inactive	Munoz et al., 2000
Schinus terebinthifolius Raddi	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
ANNONACEAE						
Annona glabra L.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
				In vitro/*Plasmodium falciparum*	Inactive	Antoun et al., 1993

Botanical family and scientific names	Country	Part of the plant	Extract of the plant	Organism tested and *Plasmodium* specie	Results	Reference
Annona muricata L.	Puerto Rico	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Antoun et al., 1993
				In vitro/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
	USA	Wd	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Annona spraguei Saff.	Panama	DSmBk	MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Calderon et al., 2000
				In vitro/*Plasmodium falciparum*	Active	Calderon et al., 2000
Duguetia furfuracea Benth. & Hook	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Duguetia hadrantha R.E. Fr.	Peru	DSmBk	100 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Muhammad et al., 2001
APIACEAE						
Apium graveolens L.	USA	Sd	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Conium maculatum L.	Bolivia	DRt	95 % EtOH Ext.	Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
Eryngium foetidum L.	USA	EP	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Eryngium nudicaule Lam.	Bolivia	DAP	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
Eryngium yuccaefolium Michaux	USA	EP	$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Pastinaca species L.	Bolivia	DRt	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
APOCYNACEAE						
Apocynum cannabinum L.	USA	L + Sm	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Aspidosperma nitidum Müll. Arg.	Brazil	EP	*	Duckling/*Plasmodium lophurae*	Inactive	Becker, 1949
		DBk	H_2O Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Aspidosperma oblongum A.D.C.	Guiana	DTBk	Total alkaloids	Mouse/*Plasmodium berghei*	Inactive	Banerjee & Lewis, 1954
Aspidosperma olivaceum Müll. Arg.	Brazil	*	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Aspidosperma polyneuron Müll. Arg.	Brazil	DTBk	Total alkaloids	In vitro/*Plasmodium cathemerium*	Active	Wasicky et al., 1942
Aspidosperma pyrifolium Mart.	Bolivia	DBk	95 % EtOH Ext.	Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
Aspidosperma quebracho-blanco Schltdl.	Argentina	DTBk	Total alkaloids	Human adult	Active	Loizaga & Sagastume, 1935
Aspidosperma quebracho-blanco	Argentina	DTBk	95 % EtOH Ext.	Human adult	Inactive	Dominguez, 1932
Catharanthus roseus L.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Geissospermum sericeum Benth.	Brazil	DBk	(9:1) MeOH-H_2O	*In vitro*/*Plasmodium falciparum*	Active	Steele et al., 2002
			H_2O Ext.	*Mouse/plasmodium berghei*	Inactive	Carvalho et al., 1991
		DSmBk	Decoction	*Mouse/plasmodium berghei*	Active	Brandão et al., 1992
Geissospermum vellosii Allemão	USA	Wd	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Holarrhena antidysenterica Wall.	USA	L	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947

Botanical family and scientific names	Country	Part of the plant	Extract of the plant	Organism tested and *Plasmodium* specie	Results	Reference
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Holarrhena febrifuga Klotosch	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Peschiera fuchsiaefolia Miers	Brazil	SBk	Dichloromethane Ext.	*In vitro*/*Plasmodium falciparum*	Active	Federici et al., 2000
		DRtBk	Dichloromethane Ext.	*In vitro*/*Plasmodium falciparum*	Active	Federici et al., 2000
AQUIFOLIACEAE						
Ilex opaca fa. *subintegra*	USA	Bk	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			H_2O Ext.	Duckling/*Plasmodium lophurae*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
ARALIACEAE						
Didymopanax vinosum E. March	Brazil	*	95 % EtOH Ext.	*Mouse/plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	*Mouse/plasmodium berghei*	Inactive	Brandão et al., 1985
Hedera helix L.	USA	L	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
		L + Sm	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Duckling/*Plasmodium lophurae*	Inactive	Spencer et al., 1947
		EP	H_2O Ext.	Duckling/*Plasmodium lophurae*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Duckling/*Plasmodium cathemerium*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Duckling/*Plasmodium lophurae*	Inactive	Spencer et al., 1947
ARACACEAE						
Euterpe precatoria Mart.	Peru	DRt	Ethyl acetate fraction	*In vitro*/*Plasmodium falciparum*	Active	Jensen et al., 2002
ARACEAE						
Monstera deliciosa Liebm.	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
ARAUCARIACEAE						
Araucaria angustifólia O. Kuntze	Brazil	*	Benzene Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
ARISTOLOCHIACEAE						
Aristolochia acuminata Lam.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Aristolochia prostrata Duchartre	Bolivia	DAP	95 % EtOH Ext.	Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
Aristolochia triangularis Cham.	USA	Sm	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Aristolochia trilobata L.	USA	Sm	$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			H_2O Ext.	Duckling/*Plasmodium cathemerium*	Inactive	Spencer et al., 1947
ASTERACEAE						
Acanthospermum australe Kuntze	Brazil	DEP	H_2O Ext.	Mouse/*Plasmodium berghei*	Active	Carvalho & Krettli, 1991
			Decoction	Mouse/*Plasmodium berghei*	Active	Brandão et al., 1992
			H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	Carvalho & Krettli, 1991

Botanical family and scientific names	Country	Part of the plant	Extract of the plant	Organism tested and *Plasmodium* specie	Results	Reference
			H_2O Ext.	Mouse/*Plasmodium berghei*	Active	Carvalho et al., 1991
			H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	Carvalho et al., 1991
Acanthospermum xanthoides DC.	USA	EP	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Achillea millefolium L.	USA	AP	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Achyrocline alata (Kunth)	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Achyrocline satureioides Lam.	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Alomia fastigiata Benth.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Ambrosia polystachya DC.	Brazil	DRt	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão e al., 1985
Ambrosia species L.	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Antennaria linearifolia Wedd.	Bolivia	DEP	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Inactive	Munoz et al., 2000
Arctium minus Bernh.	Brazil	DEP	$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Artemisia absinthium L.	Cuba	DEP	H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Hernandez et al., 1990
		DEP	Sesquiterpene fraction	*In vitro*/*Plasmodium falciparum*	Active	Hernandez et al., 1990
Artemisia ludoviciana Keck	Mexico	DEP	95 % EtOH Ext.	Mouse/*Plasmodium yoelii*	Active	Malagon et al., 1997
Artemisia vulgaris L.	Cuba	DEP	H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Hernandez et al., 1990
Aspilia squarrosa Baker	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Aster spp	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Baccharis anomala DC.	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Baccharis brachylaenoides DC.	Brazil	DEP	(1:1) EtOH-H_2O Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Baccharis dracunculifolia DC.	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
		DEP	MeOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Baccharis gaudichaudiana DC.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Baccharis genistelloides (Lam.) Pers	Brazil	*	Total alkaloids	*In vitro*/*Plasmodium cathemerium*	Active	Wasicky et al.,1942
		DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
	USA	EP	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Baccharis helichrysoides DC.	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Baccharis myrioc	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985

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Baccharis oxyodonta DC.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Baccharis paucifloscula DC.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Baccharis rufescens Spreng.	Bolivia	DL	95 % EtOH Ext.	Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
Baccharis schultzii Baker	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Baccharis semisserrata DC.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Baccharis species	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Baccharis tarchonathoides DC	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Baccharis trimera (Less.) DC.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Bidens bipinnata L.	Brazil	DEP	90 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Brandão et al., 2001
Bidens biternata Merr. & Sherrif.	Brazil	DEP	90 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Brandão et al., 2001
Bidens campylotheca Schultz-Bip.	Brazil	DEP	90 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Brandão et al., 2001
Bidens ferulaefolia DC.	Brazil	DEP	90 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Brandão et al., 2001
Bidens frondosa L.	Brazil	DEP	90 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Brandão et al., 2001
Bidens maximowicziana Oett.	Brazil	DEP	90 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Brandão et al., 2001
Bidens parviflora Willd.	Brazil	DEP	90 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Brandão et al., 2001
Bidens pilosa L.	Brazil	DEP	90 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Brandão et al., 2001
			95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Brandão et al., 2001
			EtOAc Ext.	*In vitro*/*Plasmodium falciparum*	Active	Krettli et al., 2001a,b
			Butanol Ext.	*In vitro*/*Plasmodium falciparum*	Active	Krettli et al., 2001a,b
			100 % EtOH Ext.	Mouse/*Plasmodium falciparum*	Inactive	Krettli et al., 2001a,b
			$CHCl_3$ Ext.	Mouse/*Plasmodium falciparum*	Inactive	Krettli et al., 2001a,b
		DRt	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Brandão et al., 2001
			$CHCl_3$ Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Brandão et al., 2001
			Ether Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Brandão et al., 2001
			Butanol Ext.	*In vitro*/*Plasmodium falciparum*	Active	Brandão et al., 2001
			Ether Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Krettli et al., 2001a,b
			100 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Krettli et al., 2001a,b
			Butanol Ext.	*In vitro*/*Plasmodium falciparum*	Active	Krettli et al., 2001a,b
			$CHCl_3$ Ext.	*In vitro*/*Plasmodium falciparum*	Active	Krettli et al., 2001a,b
			H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	Krettli et al., 2001a,b
			100 % EtOH Ext.	Mouse/*Plasmodium falciparum*	Inactive	Krettli et al., 2001a,b
			80 % EtOH Ext.	Mouse/*Plasmodium berghei*	Active	Oliveira et al., 2004
		DL	Butanol Ext.	*In vitro*/*Plasmodium falciparum*	Active	Brandão et al., 2001

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			Ether Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Brandão et al., 2001
			95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Brandão et al., 2001
			$CHCl_3$ Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Brandão et al., 2001
			Ether Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Krettli et al., 2001a,b
			100 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Krettli et al., 2001a,b
			Butanol Ext.	*In vitro*/*Plasmodium falciparum*	Active	Krettli et al., 2001a,b
			$CHCl_3$ Ext.	*In vitro*/*Plasmodium falciparum*	Active	Krettli et al., 2001a,b
			Butanol Ext.	Mouse/*Plasmodium falciparum*	Inactive	Krettli et al., 2001a,b
		DSm	Ether Ext.	*In vitro*/*Plasmodium falciparum*	Active	Brandão et al., 2001
			$CHCl_3$ Ext.	*In vitro*/*Plasmodium falciparum*	Active	Brandão et al., 2001
			Ether Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Krettli et al., 2001a,b
			$CHCl_3$ Ext.	*In vitro*/*Plasmodium falciparum*	Active	Krettli et al., 2001a,b
			100 % EtOH Ext.	Mouse/*Plasmodium falciparum*	Active	Krettli et al., 2001a,b
			$CHCl_3$ Ext.	Mouse/*Plasmodium falciparum*	Inactive	Krettli et al., 2001a,b
			Ether Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Brandão et al., 2001
Bidens segetum Mart. ex Colla	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Bidens tripartita L.	Brazil	DEP	90 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Brandão et al., 2001
Calea lantanoides Gardner	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Equivocal	Brandão et al., 1985
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Calea serrata Less.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Calea species	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Calea teucriifolia Baker	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Chaptalia nutans (L.) Polak.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Chuquiraga fodinarum Baker	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Chuquiraga glabra (Spreng.) Baker	Brazil	DEP	MeOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Chuquiraga vagans (Gardner) Baker	Brazil	DEP	MeOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Clibadium armanii O.E. Schulz	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Exudate	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Conyza filaginoides (DC.) Hieron	USA	EP	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Dasyphyllum brasiliensis Cabr.	Brazil	DSm	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985

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		DL	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Dasyphyllum spp	Brazil	DBh	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Dasyphyllum synacantum Cabrera	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Elephantopus angustifolius Sw.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Erechtites valerianaefolia DC.	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Eremanthus glomerulatus Less.	Brazil	DRt	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Eremanthus goyazensis Sch. Bip.	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Eremanthus incanus Less.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Eremanthus mollis Sch. Bip.	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Eremanthus scapigerus (DC.) Baker	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
		DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Eremanthus sphaerocephalus Baker	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Erigeron maximus (D. Don) DC.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Eupatorium christieanum Baker	Argentina	DAP	H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	Debenedetti et al., 2002
			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Debenedetti et al., 2002
Eupatorium gaudichaudianum DC.	Brazil	DEP	95 % EtOH Ext.	*Mouse/plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	*Mouse/plasmodium berghei*	Inactive	Carvalho et al., 1991
			EtOAc Ext.	*Mouse/plasmodium berghei*	Inactive	Carvalho et al., 1991
Eupatorium hecatanthum Baker	Argentina	DAP	H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	Debenedetti et al., 2002
			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Debenedetti et al., 2002
Eupatorium intermedium DC.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Eupatorium inulaefolium Kunth	Colombia	DL+ Sm	MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Blair et al., 2002
			CH_2Cl_2 Ext.	*In vitro*/*Plasmodium falciparum*	Active	Blair et al., 2002
Eupatorium itatiayense Hieron	Brazil	DEP	(1:1) EtOH-H_2O Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Eupatorium laevigatum Lam.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Eupatorium parviflorum Aubl.	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Eupatorium rotundifolium L.	USA	EP	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947

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Eupatorium species Locock R.A.	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Eupatorium squalidum DC.	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Active	Carvalho & Krettli, 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			Hexane Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Carvalho & Krettli, 1991
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Active	Carvalho et al., 1991
			Hexane Ext.	*In vitro*/*Plasmodium falciparum*	Active	Carvalho et al., 1991
Eupatorium subhastatum Hook. Arn	Argentina	DAP	H_2O Ext.	*In vitro/Plasmodium falciparum*	Active	Debenedetti et al., 2002
			MeOH Ext.	*In vitro/Plasmodium falciparum*	Active	Debenedetti et al., 2002
Eupatorium vauthierianum DC.	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Gamochaeta simplicicaulis Cabrera	Argentina	DAP	H_2O Ext.	*In vitro/Plasmodium falciparum*	Active	Debenedetti et al., 2002
Gochnatia barrosii Cabrera	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Gochnatia paniculata Cabrera	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Gochnatia polymorpha Cabrera	Brazil	DFl + L	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Gochnatia polymorpha Cabrera	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Gochnatia velutina (Bong.) Cabrera	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Heterocoma albida DC.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Isostigma peucedanifolium Less.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Jaegeria hirta (Lag.) Less.	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Lucilia recurva Wedd.	Bolivia	DL	95 % EtOH Ext.	Rat/*Plasmodium vinckei*	Inactive	Munoz et al., 2000
Lychnophora brunioides Mart.	Brazil	DSm	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
		DL	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985

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			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Melampodium camphoratum Baker	Surinam	DL+ Sm	EtOAc Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Chaturvedula et al., 2004
Mikania hirsutissima DC.	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Mikania schenckii Hieron.	Brazil	DEP	$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Mikania subverticillata Sch.Bip.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Mutisia acuminata Ruiz et Pavon	Bolivia	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
			95 % EtOH Ext.	Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
Neurolaena lobata (L.) R. Br.	Guatemala	DAP	CH_2Cl_2 Ext.	*In vitro*/*Plasmodium falciparum*	Active	Francois et al., 1996
		DAP	MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Francois et al., 1996
		DL	H_2O soluble fraction	Mouse/*Plasmodium berghei*	Inactive	Franssen et al., 1997
			MeOH Ext.	Mouse/*Plasmodium berghei*	Active	Franssen et al., 1997
			CH_2Cl_2 Ext.	*In vitro*/*Plasmodium falciparum*	Active	Franssen et al., 1997
Piptocarpha oblonga Baker	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Piptocarpha rotundifolia Baker	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Piqueria trinervia Cav.	USA	Sm	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Pluchea odorata (L.) Cass.	USA	EP	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Pollalesta discolor (Kunth) Aristeg.	Colombia	DBk	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Mess et al., 1998
Pseudogynoxys pohlii Baker	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Schkuhria pinnata Kuntze ex Thell.	Bolivia	DEP	95 % EtOH Ext.	Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
Senecio adamantinus Bong.	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Senecio brasiliensis Less.	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
	Bolivia	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
Stevia decussata Baker	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Stevia menthaefolia Phil.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Stevia species	Brazil	DRt	$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Symphyopappus compressus Gardner	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985

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Symphyopappus cuneatus Baker	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Tagetes graveolens L'Herit ex DC	Bolivia	DAP	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
			95 % EtOH Ext.	Rat/*Plasmodium vinckei*	Inactive	Munoz et al., 2000
Tagetes minuta L.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Tagetes pusilla Kunth.	Bolivia	DAP	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
			95 % EtOH Ext.	Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
Trichogonia gardneri A. Gray	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Trixis grisebachii Kuntze	Bolivia	DAP	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
			95 % EtOH Ext.	Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
Vernonia brasiliana (L.) Druce	Brazil	DL	Hexane Ext.	Mouse/*Plasmodium berghei*	Active	Carvalho & Krettli, 1991
			Hexane Ext.	Mouse/*Plasmodium berghei*	Active	De Almeida et al., 1997
			Hexane Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Carvalho & Krettli, 1991
			Hexane Ext.	*In vitro*/*Plasmodium falciparum*	Active	De Almeida et al., 1997
Vernonia brasiliensis (Spreng.) Less.	Brazil	DAP	Hexane Ext.	Mouse/*Plasmodium berghei*	Active	Carvalho et al., 1991
			$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			Hexane Ext.	*In vitro*/*Plasmodium falciparum*	Active	Carvalho et al., 1991
			$CHCl_3$ Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Carvalho et al., 1991
			EtOAc Ext.	*In vitro*/*Plasmodium falciparum*	Active	Carvalho et al., 1991
Vernonia cognata Less.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Vernonia condensata Baker	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vernonia diffusa Less.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vernonia discolor (Spreng.) Less.	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vernonia disfolia	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vernonia elegans Gardner	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vernonia ferruginea Less.	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vernonia florida Gardner	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vernonia fruticosa (L.)	Brazil	DEP	$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vernonia herbacea (Vell.) Rusby	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vernonia macrophylla Less.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985

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			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vernonia mucronulata Less.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vernonia pedunculata DC.	Brazil	DEP	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vernonia polyanthes Less.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
		DL	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Vernonia salzmannii DC.	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
		DFl	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vernonia scabra Pers.	Brazil	DRt	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vernonia scorpioides (Lam.) Pers.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vernonia westiniana Less.	Brazil	DL	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Viguiera robusta Gardner	Brazil	DRt	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Wulffia baccata (L.) Kuntze	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Wunderlichia mirabilis Riedel	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
BERBERIDACEAE						
Berberis chrysacantha C.K.Schneid.	Bolivia	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
Berberis flexuosa Ruiz. & Pavon.	Argentina	Rt	Total alkaloids	Human adult	Active	Loizaga & Sagastume, 1935
BIGNONIACEAE						
Tabebuia ochracea Gentry	Colombia	DSmBk	$CHCl_3$ Ext.	*In vitro*/*Plasmodium berghei*	Inactive	Diaz; Medina, 1996
BIXACEAE						
Bixa orellana L.	Brazil	DSd	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
	USA	Sd	$CHCl_3$ Ext.	Duckling/*Plasmodium lophurae*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Duckling/*Plasmodium cathemerium*	Inactive	Spencer et al., 1947

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			H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			H_2O Ext.	Duckling/*Plasmodium cathemerium*	Inactive	Spencer et al., 1947
			H_2O Ext.	Duckling/*Plasmodium lophurae*	Inactive	Spencer et al., 1947
BOLETACEAE						
Boletus queletii Schulzer	USA	DFr	H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	Lovy et al., 1999
BORAGINACEAE						
Bourreria succulenta Jacq.	Puerto rico	DSm	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
				In vitro/*Plasmodium falciparum*	Active	Antoun et al., 1993
Leccinum aurantiacum (Bull.) Gray	USA	DFr	*	*In vitro*/*Plasmodium falciparum*	Active	Lovy et al., 1999
			100 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Lovy et al., 1999
			H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	Lovy et al., 1999
BOMBACACEAE						
Adansonia digitata Linn.	USA	Bk	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Cavanillesia platanifolia Kunth.	Panama	DSmBk	MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Calderon et al., 2000
Ceiba pentandra (L.) Gaertn.	Puerto Rico	DSm	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Antoun et al., 1993
				In vitro/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
BORAGINACEAE						
Borago officinalis L.	USA	DFl	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Cordia corymbosa G. Don	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Cordia polycephala Johnst.	Puerto rico	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Antoun et al., 2001
Cordia species L.	Brazil	*	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
BRASSICACEAE						
Brassica campestris L.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
BUDDLEJACEAE						
Buddleja brasiliensis Sprengel	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Buddleja globosa Hope	Argentina	DAP	H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	Debenedetti et al., 2002
			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Debenedetti et al., 2002
Buddleja tucumanensis Griseb.	Argentina	DAP	MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Debenedetti et al., 2002
BURSERACEAE						
Protium glabrescens Swart	Bolivia	DBk	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Deharo et al., 2001
				In vitro/*Plasmodium berghei*	Inactive	Deharo et al., 2001
				In vivo/*Plasmodium berghei*	Active	Deharo et al., 2001
CACTACEAE						
Trichocereus pachanoi Britt. & Rose	Bolivia	DAP	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
CAMPANULACEAE						
Lobelia portoricensis (Vatke) Urban.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993

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				In vitro/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
CANNABACEAE						
Cannabis sativa L.	USA	DL	*	*In vitro*/*Plasmodium falciparum*	Inactive	Makler, 1994
				In vitro/*Plasmodium falciparum*	Inactive	Makler, 1994
CANELLACEAE						
Canella winterana (Wild Cinnamon)	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
		Sm	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
		Bh	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Capsicodendron dinisii Occhioni	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
		Bk	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
CARICACEAE						
Carica quercifolia Solms	Bolivia	DB + L	95 % EtOH Ext.	Rat/*Plasmodium vinckei*	Inactive	Munoz et al., 2000
Carica papaya L.	USA	Fl	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
CARYOPHYLLACEAE						
Stellaria ovata Willd. ex Schltdl.	Bolivia	DAP	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
CASUARINACEAE						
Casuarina equisetifolia L.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
				In vitro/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
CELASTRACEAE						
Maytenus aquifolium Mart.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Maytenus boaria (Mayten)	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Plenckia populnea Reissek	Brazil	DBh	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
CLUSIACEAE						
Calophyllum brasiliense Camb.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
			95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
Calophyllum longifolium Willd.	Panama	DL+ Bh	MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Calderon et al., 2000
		DSmBk	MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Calderon et al., 2000

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			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Calderon et al., 2000
Kielmeyera rosea Mart.	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Kielmeyera variabilis Mart.	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
COMMELINACEAE						
Commelina elliptica Kunth	Bolivia	DAP	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
CONVOLVULACEAE						
Cuscuta grandiflora Wall	Bolivia	DAP	95 % EtOH Ext.	Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
Evolvulus martii Meisn.	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Ipomoea repanda Jacq.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
CUCURBITACEAE						
Cucurbita maxima Duch.	Brazil	DSd	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Active	Amorim et al., 1991
Momordica charantia L.	Brazil	DL	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Amorim et al., 1991
		DL+ Sm	Infusion	Human adult/*Plasmodium berghei*	Active	Ueno et al., 1996
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Active	Ueno et al., 1996
			Infusion	Mouse/*Plasmodium berghei*	Active	Ueno et al., 1996
	Brazil	DFl	H_2O Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
	USA	AP	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
				Duckling/*Plasmodium cathemerium*	Inactive	Spencer et al., 1947
				Duckling/*Plasmodium lophurae*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
				Duckling/*Plasmodium cathemerium*	Inactive	Spencer et al., 1947
DATISCACEAE						
Datisca glomerata (C. Presl) Baill.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
EBENACEAE						
Diospyros poeppigiana A. DC.	USA	Bk	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
ELAEOCARPACEAE						
Vallea stipularis L.F.	Bolivia	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
ERYTHROXYLACEAE						
Erythroxylum tortuosum Mart.	Brazil	DSm	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985

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			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
		DL	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
EUPHORBIACEAE						
Croton cajucara Benth.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Croton californicus Muell. Arg.	USA	L + Sm	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Croton capitatus Michx.	USA	Bh	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Croton guatemalensis Lotsy	Guatemala	DL	H_2O soluble fraction	Mouse/*Plasmodium berghei*	Inactive	Franssen et al., 1997
			MeOH Ext.	Mouse/*Plasmodium berghei*	Active	Franssen et al., 1997
			CH_2Cl_2 Ext.	*In vitro*/*Plasmodium falciparum*	Active	Franssen et al., 1997
				In vitro/*Plasmodium falciparum*	Active	Franssen et al., 1997
		DBk	H_2O soluble fraction	Mouse/*Plasmodium berghei*	Active	Franssen et al., 1997
			MeOH Ext.	Mouse/*Plasmodium berghei*	Active	Franssen et al., 1997
			CH_2Cl_2 Ext.	*In vitro*/*Plasmodium falciparum*	Active	Franssen et al., 1997
				In vitro/*Plasmodium falciparum*	Active	Franssen et al., 1997
Croton urucurana Baill.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Dierberger species	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Pera glabrata (Schott) Poepp.	Brazil	DL	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Phyllanthus piscatorum Kunth	Venezuela	DAP	Dichloromethane Ext.	*In vitro*/*Plasmodium falciparum*	Active	Gertsch et al., 2004
			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Gertsch et al., 2004
			H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	Gertsch et al., 2004
Sapium biglandulosa L.	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
	Brazil	*	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Sapium haematospermum Hub.	Bolivia	DL	95 % EtOH Ext.	Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
Xenodendron reosulense	Brazil	DBk	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
FABACEAE						
Amburana cearensis A.C. Smith	Bolivia	DSmBk	CH_2Cl_2/Propanol Ext.	*In vitro*/*Plasmodium falciparum*	Active	Bravo et al., 1999
Andira inermis (W. Wright) H.B.K.	Panama	DL	Pet ether Ext	*In vitro*/*Plasmodium falciparum*	Active	Kraft et al., 2001
		DSm	Pet ether Ext.	*In vitro*/*Plasmodium falciparum*	Active	Kraft et al., 2000
Bauhinia reticulata D.C.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Bowdichia virgilioides Kunth.	Bolivia	DBk	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Deharo et al., 2001
				In vitro/*Plasmodium berghei*	Active	Deharo et al., 2001
				Mouse/*Plasmodium berghei*	Active	Deharo et al., 2001
Caesalpinia bonducella F.	USA	Sd	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Caesalpinia pluviosa DC.	Bolivia	DBk	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Deharo et al., 2001

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				In vitro/*Plasmodium berghei*	Active	Deharo et al., 2001
				Mouse/*Plasmodium berghei*	Active	Deharo et al., 2001
Cassia occidentalis L.	Brazil	DRt	Decoction	Mouse/*Plasmodium berghei*	Active	Brandão et al., 1992
			H_2O Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Copaifera trapezifolia Hayne	Brazil	DBk	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
		DSd	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Crotalaria mucronata Desv.	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Delonix regia (Bojer ex Hook.) Raf.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
				In vitro/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
Desmodium discolor Vogel	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Enterolobium timbouva Mart.	Brazil	DL	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			MeOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
		DFr	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			MeOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Galactia boavista (Vell.) Burkart.	Brazil	*	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Lupinus luteus L.	Brazil	*	Total alkaloids	*In vitro*/*Plasmodium cathemerium*	Active	Wasicky et al., 1942
Machaerium species	Brazil	*	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
		*	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Myroxylon peruiferum L. F.	Bolivia	DFr	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
FLACOURTIACEAE						
Casearia sylvestris SW.	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
	USA	Sm	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Lindackeria laurina C. Presl.	Panama	DL+ Bh	MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Calderon et al., 2000
Lozania pittieri (S. F. Blake)	Panama	DL+ Bh	MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Calderon et al., 2000
GANODERMATACEAE						
Ganoderma lucidum Reishi	USA-MA	DFr	H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	Lovy et al., 1999
			100 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Lovy et al., 1999
			*	*In vitro*/*Plasmodium falciparum*	Active	Lovy et al., 1999
GENTIANACEAE						
Deianira erubescens Cham.	Brazil	DL	80 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Andrade-Neto et al., 2003
		DRt	80 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Andrade-Neto et al., 2003

Botanical family and scientific names	Country	Part of the plant	Extract of the plant	Organism tested and *Plasmodium* specie	Results	Reference
Lisianthus speciosus Cham. & Schltd	Brazil	DL	H_2O Ext.	Mouse/*Plasmodium berghei*	Active	Carvalho & Krettli, 1991
				Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
				In vitro/*Plasmodium falciparum*	Active	Carvalho & Krettli, 1991
		DRt	H_2O Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
		*	H_2O Ext.	Mouse/*Plasmodium berghei*	Active	Carvalho & Krettli, 1991
			Decoction	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1992
Tachia guianensis Aublet	Brazil	*	H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	Carvalho & Krettli, 1991
		DRt	H_2O Ext.	Mouse/*Plasmodium berghei*	Active	Carvalho et al., 1991
				In vitro/*Plasmodium falciparum*	Inactive	Carvalho et al., 1991
GERANIACEAE						
Geranium robertianum L. Herb	USA	EP	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
LAMIACEAE						
Glechoma hederacea L.	USA	DEP	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Hyptis species Benth.	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Leonotis nepetifolia (L.) R. Br.	Brazil	DRt	Decoction	Mouse/*Plasmodium berghei*	Active	Brandão et al., 1992
			H_2O Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Leonurus Artemísia (Lour.) S. Y. Hu.	USA	EP	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
				Duckling/*Plasmodium cathemerium*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
				Duckling/*Plasmodium lophurae*	Inactive	Spencer et al., 1947
Leonurus cardíaca (Motherwort)	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Satureja boliviana Briq.	Bolivia	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
Satureja parvifolia (Phil.) Epling.	Argentina	DAP	H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	Debenedetti et al., 2002
			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Debenedetti et al., 2002
LAURACEAE						
Licaria canella (Meissn.) Kosterm.	Bolivia	DBk	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Deharo et al., 2001
				In vitro/*Plasmodium berghei*	Active	Deharo et al., 2001
			.	Mouse/*Plasmodium berghei*	Active	Deharo et al., 2001
Nectandra aff. hihua Rohwer	Bolivia	DBk	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Deharo et al., 2001
				In vitro/*Plasmodium berghei*	Active	Deharo et al., 2001
				Mouse/*Plasmodium berghei*	Active	Deharo et al., 2001
Persea americana Mill.	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
LECYTHIDACEAE						

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Bertholletia excelsa H.B.K.	Brazil	*	Decoction	Mouse/*Plasmodium berghei*	Active	Brandão et al., 1992
		DBk	H_2O Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
LILIACEAE						
Aloe spicata L. F.	Brazil	DL	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Bomarea amoena (Herb.) M. Roem.	Bolivia	DFr	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Inactive	Munoz et al., 2000
Smilax havanensis Jacq.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
				In vitro/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
LINACEAE						
Linum usitatissimum L.	USA	DSd	Seed oil	Mouse/*Plasmodium falciparum*	Active	Levander et al., 1991
LOGANIACEAE						
Strychnos pseudoquina St. Hil.	Brazil	Bk	Total alkaloids	*In vitro*/*Plasmodium cathemerium*	Active	Wasicky et al., 1942
		DBk	80 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Andrade-Neto et al., 2003
LORANTHACEAE						
Struthanthus species	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Tripodanthus acutifolius CF.	Bolivia	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Inactive	Munoz et al., 2000
LYTHRACEAE						
Heimia salicifolia Link & Otto	Mexico	L + Sm	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
	Argentina	DAP	MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Debenedetti et al., 2002
MARCGRAVIACEAE						
Marcgravia rectiflora Triana	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
Marcgravia sintensii	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
				In vitro/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
MAGNOLIACEAE						
Liriodendron tulipifera L.	USA	Bk	H_2O Ext.	Duckling/*Plasmodium lophurae*	Inactive	Spencer et al., 1947
				Duckling/*Plasmodium cathemerium*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Duckling/*Plasmodium cathemerium*	Inactive	Spencer et al., 1947
				Duckling/*Plasmodium lophurae*	Active	Spencer et al., 1947
Magnolia grandiflora L.	USA	Bk	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Talauma ovata St. Hil.	Brazil	DL	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
MALPIGHIACEAE						
Banisteriopsis leona	USA	Bh	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947

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Banisteriopsis metallicolor A.Juss.	Brazil	DVn	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Galphimia glauca	Mexico	DAP	H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Camacho et al., 2002
			Hexane Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Camacho et al., 2002
			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Camacho et al., 2002
			$CHCl_3$ Ext.	*In vitro*/*Plasmodium falciparum*	Active	Camacho et al., 2002
			Butanol Ext.	*In vitro*/*Plasmodium falciparum*	Active	Camacho et al., 2002
Heteropterys species	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
MALVACEAE						
Hibiscus elatus Sw.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
Thespesia grandiflora DC.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
				In vitro/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
MELASTOMATACEAE						
Miconia prasina (Sw.) DC.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
Miconia racemosa (Aubl.) DC.	Puerto Rico	DSm	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Antoun et al., 1993
MELIACEAE						
Aphanamixis polystachya R. Parker	USA-FL	FshWd	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	MacKinnon et al., 1997
Azadirachta indica A. Juss.	USA	Bk	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Cedrela odorata L.	Belize	FshWd	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	MacKinnon et al., 1997
	Panama	DL	H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bray et al., 1990
			Pet ether Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bray et al., 1990
			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bray et al., 1990
Cedrela salvadorensis Standl.	Costa Rica	FshBk	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	MacKinnon et al., 1997
		FshFr	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	MacKinnon et al., 1997
		FshL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	MacKinnon et al., 1997
		FshWd	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	MacKinnon et al., 1997
Cedrela toona Roxb. ex Willd.	USA	Bk	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Chukrasia tabularis A. Juss.	USA-FL	FshL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	MacKinnon et al., 1997
Dysoxylum fraseranum Benth.	Costa Rica	FshL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	MacKinnon et al., 1997
		FshWd	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	MacKinnon et al., 1997
Guarea glabra Vahl.	Costa Rica	FshBk	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	MacKinnon et al., 1997
Guarea guidonia (L.) Sleumer	Puerto Rico	DL+ Sm	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Antoun et al., 1993
Guarea multiflora A.Juss.	Panama	DL	H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bray et al., 1990
			Pet ether Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bray et al., 1990
			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bray et al., 1990
		DSmBk	H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bray et al., 1990
			Pet ether Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bray et al., 1990
			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bray et al., 1990

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			H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bray et al., 1990
		DSmWd	Pet ether Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bray et al., 1990
			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bray et al., 1990
			H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bray et al., 1990
		DFr	Pet ether Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bray et al., 1990
			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bray et al., 1990
			H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bray et al., 1990
Guarea pyriformis T.D. Penn.	Costa Rica	FshWd	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	MacKinnon et al., 1997
Guarea trichilioides L.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Melia azedarach L.	USA	Bk	$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Trichilia glabra L.	Costa Rica	FshBk	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	MacKinnon et al., 1997
Trichilia hirta L.	Costa Rica	FshL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	MacKinnon et al., 1997
	Puerto Rico	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Antoun et al., 2001
Trichilia trifolia L.	Costa Rica	FshL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	MacKinnon et al., 1997
			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bray et al., 1990
MENYANTHACEAE						
Menyanthes trifoliata L.	USA	L	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
MENISPERMACEAE						
Cissampelos pareira L.	Puerto Rico	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Antoun et al., 2001
	USA	DRt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Duckling/*Plasmodium cathemerium*	Active	Spencer et al., 1947
			H_2O Ext.	Duckling/*Plasmodium cathemerium*	Inactive	Spencer et al., 1947
			H_2O Ext.	Duckling/*Plasmodium lophurae*	Inactive	Spencer et al., 1947
MYRICACEAE						
Myrica cerifera L.	Puerto Rico	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Antoun et al., 1993
Myrica pubescens Humb. & Bonpl.	Bolivia	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
MYRTACEAE						
Eucalyptus globulus Labill.	USA	L + Sm	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Psidium guajava L.	Puerto Rico	DSm	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 2001
MONIMIACEAE						
Siparuna andina (Tul.) DC.	Panama	DL	*	*In vitro*/*Plasmodium falciparum*	Active	Jenett Siems et al., 2000
MORACEAE						
Castilla elastica Cerv.	Puerto Rico	DSm	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Antoun et al., 1993
				In vitro/*Plasmodium falciparum*	Inactive	Antoun et al., 1993

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Dorstenia brasiliensis Lam.	Brazil	DRt	H_2O Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Ficus citrifolia Mill.	Puerto Rico	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Antoun et al., 2001
Maclura tinctoria (L.) D. Don.	Panama	DSmBk	MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Calderon et al., 2000
Morus Alba L.	USA	L + Sm	$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Olmedia áspera Ruiz & Pav.	Panama	DL+ Bh	MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Calderon et al., 2000
MORINGACEAE						
Moringa pterygosperma Gaertn.	USA	Bk	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
MYRISTICACEAE						
Virola surinamensis Warb.	Brazil	EOL	Essential oil	*In vitro*/*Plasmodium falciparum*	Active	Lopes et al., 1999
MYRTACEAE						
Campomanesia species	Brazil	DL	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Eucalyptus globulus Labill.	Brazil	DL	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Myrcia species DC. ex Guill.	Brazil	*	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
NYCTAGINACEAE						
Boerhavia hirsuta L.	Brazil	DL	Decoction	Mouse/*Plasmodium berghei*	Active	Brandão et al., 1992
			H_2O Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
OLEACEAE						
Chionanthus virginicus L.	USA	DRt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
OSCILLATORIACEAE						
Lyngbya majuscula Harvey Hook.	Panama	Cells	EtOAc Ext.	*In vitro*/*Plasmodium falciparum*	Active	Mcphail et al., 2007
PAPAVERACEAE						
Argemone mexicana L.	Bolivia	DFl	95 % EtOH Ext.	Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
	USA	EP	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
PASSIFLORACEAE						
Passiflora incarnata L.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Passiflora mexicana Juss.	USA	L + Sm	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
PHYTOLACCACEAE						
Petiveria alliacea L.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
PIPERACEAE						
Peperomia pellucida (L.) Kunth.	Bolivia	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
Piper peltatum L.	Brazil	DL	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Amorim et al., 1988

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		DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Amorim et al., 1988
Piper umbellatum L.	Brazil	DL	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Active	Amorim et al., 1988
POACEAE						
Andropogon species	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
POLYGALACEAE						
Monnina salicifolia Ruiz & Pav.	Bolivia	DL	95 % EtOH Ext.	Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
POLYGONACEAE						
Coccoloba pubescens L.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
Coccoloba swartzii Meisn.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
Coccoloba uvifera Jacq.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
Polygonum aviculare L.	USA	EP	$CHCl_3$ Ext.	Duckling/*Plasmodium cathemerium*	Inactive	Spencer et al., 1947
			H_2O Ext.	Duckling/*Plasmodium lophurae*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Duckling/*Plasmodium lophurae*	Inactive	Spencer et al., 1947
			H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			H_2O Ext.	Duckling/*Plasmodium cathemerium*	Inactive	Spencer et al., 1947
POLYPODIACEAE						
Polypodium buchtienii H. Christ	Bolivia	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				In vivo/*Plasmodium vinckei*	Active	Munoz et al., 2000
Polypodium decumanum J. Smith	Bolivia	*	CH_2Cl_2 Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bustillos et al., 2002
Polyporus umbellatus (Pers.) Fr.	USA	DFr	H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	Lovy et al., 1999
POLYPORACEAE						
Grifola frondosa (Dicks.) Gray	USA	DFr	H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	Lovy et al., 1999
Laetiporus sulphureus Murr.	USA	DFr	*	*In vitro*/*Plasmodium falciparum*	Active	Lovy et al., 1999
Trametes versicolor (L. Fries) Pilat	USA	DFr	*	*In vitro*/*Plasmodium falciparum*	Active	Lovy et al., 1999
			100 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Lovy et al., 1999
RHAMNACEAE						
Ampelozizyphus amazonicus Ducke	Brazil	RT	H_2O Ext.	*In vitro*/*Plasmodium gallinaceum*	Inactive	Carvalho et al., 1992
		DRt	H_2O Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			100 % EtOH Ext.	Chicken/*Plasmodium gallinaceum*	Active	Krettli et al., 2001a,b
Ceanothus americanus L.	USA	DRt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Ceanothus integerrimus Hook.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
				Duckling/*Plasmodium lophurae*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Duckling/*Plasmodium lophurae*	Inactive	Spencer et al., 1947
		Bk	H_2O Ext.	Duckling/*Plasmodium cathemerium*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Duckling/*Plasmodium cathemerium*	Inactive	Spencer et al., 1947
			H_2O Ext.	Duckling/*Plasmodium lophurae*	Inactive	Spencer et al., 1947

Botanical family and scientific names	Country	Part of the plant	Extract of the plant	Organism tested and *Plasmodium* specie	Results	Reference
			$CHCl_3$ Ext.	Duckling/*Plasmodium lophurae*	Inactive	Spencer et al., 1947
Colubrina arborescens (Mill.) Sarg.	USA	Bk	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Ziziphus joazeiro Mart.	Brazil	DEP	H_2O Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
RHIZOPHORACEAE						
Rhizophora mangle L.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
ROSACEAE						
Geum rivale Linn.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Kageneckia lanceolata Ruiz & Pav.	Bolivia	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
RUBIACEAE						
Cinchona ledgeriana Moens	Brazil	DBk	Total alkaloids	Duckling/*Plasmodium lophurae*	Active	Seeler et al., 1943
Cinchona pubescens Vahl.	Argentina	DTBk	Total alkaloids	Human adult	Active	Loizaga & Sagastume, 1935
Coutarea hexandra K. Schum.	Brazil	DBk	H_2O Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Coutarea latiflora DC.	Mexico	DSmBk	35 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Noster & Kraus, 1990
			Ether Ext.	*In vitro*/*Plasmodium falciparum*	Active	Noster & Kraus, 1990
			EtOAc Ext.	*In vitro*/*Plasmodium falciparum*	Active	Noster & Kraus, 1990
Diodia brasiliensis Spreng.	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Exostema caribaeum (Jacq.) Schult.	Mexico	DSmBk	35 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Noster & Kraus, 1990
			Ether Ext.	*In vitro*/*Plasmodium falciparum*	Active	Noster & Kraus, 1990
			EtOAc Ext.	*In vitro*/*Plasmodium falciparum*	Active	Noster & Kraus, 1990
Exostema mexicanum A. Gray.	Guatemala	DSmBk	H_2O soluble fraction	*In vitro*/*Plasmodium falciparum*	Inactive	Kohler et al., 2001
			Pet ether Ext.	*In vitro*/*Plasmodium falciparum*	Active	Kohler et al., 2001
			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Kohler et al., 2001
			H_2O soluble fraction	*In vitro*/*Plasmodium falciparum*	Inactive	Kohler et al., 2001
			Pet ether Ext.	*In vitro*/*Plasmodium falciparum*	Active	Kohler et al., 2001
			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Kohler et al., 2001
Faramea occidentalis L.	Puerto Rico	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Antoun et al., 2001
Psychotria klugii Standl.	Peru	DSmBk	Alkaloid fraction	*In vitro*/*Plasmodium falciparum*	Active	Muhammad et al., 2003
			95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Muhammad et al., 2003
Randia aculeata L.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
Randia spinosa (Jacq.) H. Karst.	Bolivia	DFr	95 % EtOH Ext.	*In vivo*/*Plasmodium vinckei*	Inactive	Munoz et al., 2000
Remijia ferruginea (A.St. Hil.) DC.	Brazil	DBk	80 % EtOH Ext.	*In vivo*/*Plasmodium berghei*	Active	Andrade-Neto et al., 2003
Rondeletia inermis Krug & Urban.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
RUTACEAE						
Amyris elemifera L.	USA	Wd	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Esenbeckia febrífuga A. Juss.	Brazil	DL	H_2O Ext.	Mouse/*Plasmodium berghei*	Active	Carvalho & Krettli, 1991
				Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991

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		DBk	H_2O Ext.	Mouse/*Plasmodium berghei*	Active	Carvalho et al., 1991
Galipea longiflora K. Krause	Paraguay	ESmBk	Total alkaloids	Mouse/*Plasmodium vinckei*	Active	Gantier et al., 1996
Galipea officinalis J. Hancock.	Venezuela	DTBk	Hexane Ext.	*In vitro*/*Plasmodium falciparum*	Active	Jacquemond-Collet et al., 2002
			$CHCl_3$ Ext.	*In vitro*/*Plasmodium falciparum*	Active	Jacquemond-Collet et al., 2002
			Hexane Ext.	*In vitro*/*Plasmodium falciparum*	Active	Jacquemond-Collet et al., 2002
Orixa japonica Thunberg	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Zanthoxylum minutiflorum Tul.	Brazil	*	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
		DL	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Zanthoxylum naranjillo (Griseb.)	Brazil	DL	Hexane Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Bastos et al., 1996
				Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
		*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Zanthoxylum riedelianum Engl.	Brazil	*	$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
SAPINDACEAE						
Sapindus divaricatus Cambess.	Brazil	DEP	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Serjania species	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
SAPOTACEAE						
Chrysophyllum oliviforme L.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
Pouteria venosa (Mart.)	Brazil	DL+ Sm	95 % EtOH Ext.	*In vitro*/*Plasmodium berghei*	Inactive	Montenegro et al., 2006
SAXIFRAGACEAE						
Dichroa febrifuga Lour.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Escallonia montevidensis DC.	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Hydrangea arborescens L.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
				Duckling/*Plasmodium cathemerium*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
				Duckling/*Plasmodium cathemerium*	Active	Spencer et al., 1947
SCROPHULARIACEAE						
Calceolaria rivularis Kraenzl.	Bolivia	DAP	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
SIMAROUBACEAE						
Ailanthus altíssima (Mill.) Swingle	USA	FshSd	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Okunade et al., 2003
			EtOAc Ext.	*In vitro*/*Plasmodium falciparum*	Active	Okunade et al., 2003
			H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	Okunade et al., 2003

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		DWd	$CHCl_3$ Ext.	*In vitro*/*Plasmodium falciparum*	Active	Phillipson & O'Neill, 1986
		Wd	$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Ailanthus excelsa Roxb.	USA	Bk	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Ailanthus imberbiflora F. Muell.	USA	Bk	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Brucea antidysenterica Mill.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Cadellia monostylis Benth.	USA	Bk	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
		Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Cadellia pentastylis F.Muell.	USA	Wd	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
		Bk	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
		Rt	$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Castela coccínea Griseb.	USA	*	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Castela depressa Turp.	USA	Bh	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
		Sm	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Castela macrophylla Urb.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
		Sm	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Castela spinosa Cronquist	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Castela tortuosa Liebm.	USA	Fr	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
		L	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Castela tweediei Planch.	USA	Sm	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
		Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Hannoa klaineana Pierre & Engl.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Harrisonia abyssinica Oliv.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
				Duckling/*Plasmodium lophurae*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Irvingia gabonensis Baillon	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947

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		Wd	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Irvingia smithii Hook. F.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Kirkia acuminata Oliv.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Klainedoxa gabonensis Pierre	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Klainedoxa grandifolia Engl.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
		Sm	$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Odyendea zimmermannii Engl.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Picramnia antidesma Sw.	USA	Bh	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Picramnia carpinterae Pol.	USA	Wd	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Picramnia locuples Standl.	USA	Wd	$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Picramnia longissima Tul.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Picramnia pentandra Sw.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
		Sm	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Picramnia sellowii Planch.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Picramnia xalapensis Planch.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Picrasma antillana (Eggers) Urb.	USA	Wd	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Picrasma crenata (Vell.) Engl.	Argentina	DAP	MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Debenedetti et al., 2002
			H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	Debenedetti et al., 2002
	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Picrasma excelsa (Sw.) Planch.	USA	Wd	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
Picrasma nepalensis Benn.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Picrolemma sprucei Hook. F.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Active	Spencer et al., 1947
Simaba cedron Planch.	Panama	DL	Pet ether Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	O'Neill et al., 1985
			$CHCl_3$ Ext.	*In vitro*/*Plasmodium falciparum*	Active	O'Neill et al., 1985

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			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	O'Neill et al., 1985
		DFr	Pet ether Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	O'Neill et al., 1985
			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	O'Neill et al., 1985
			H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	O'Neill et al., 1985
			$CHCl_3$ Ext.	*In vitro*/*Plasmodium falciparum*	Active	O'Neill et al., 1985
Simaba guianensis (Aubl.) Engl	Brazil	DTBk	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Cabral et al., 1993
Simarouba amara Aubl.	Panama	DFr	$CHCl_3$ Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	O'Neill et al., 1987
			MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	O'Neill et al., 1988
				Mouse/*Plasmodium berghei*	Active	O'Neill et al., 1988
Simarouba glauca DC.	Guatemala	DBk	H_2O soluble fraction	Mouse/*Plasmodium berghei*	Inactive	Franssen et al., 1997
			MeOH Ext.	Mouse/*Plasmodium berghei*	Active	Franssen et al., 1997
			CH_2Cl_2 Ext.	*In vitro*/*Plasmodium falciparum*	Active	Franssen et al., 1997
SOLANACEAE						
Acnistus arborescens L.	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Dunalia brachyacantha Miers.	Bolivia	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
Saracha punctata Ruiz & Pavon	Bolivia	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Moretti et al., 1998
				Mouse/*Plasmodium vinckei*	Active	Moretti et al., 1998
Solanum nudum Kunth	Colombia	DL+ Sm	H_2O Ext.	Mouse/*Plasmodium berghei*	Active	Marcela et al., 2001
STAPHYLEACEAE						
Turpinia occidentalis (Sw.) G. Don.	Panama	DSmBk	MeOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Calderon et al., 2000
THYMELAEACEAE						
Daphne mezereum L.	USA	Rt	H_2O Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
			$CHCl_3$ Ext.	Chicken/*Plasmodium gallinaceum*	Inactive	Spencer et al., 1947
TRICHOLOMATACEAE						
Lentinus edodes (Berck) Sing.	USA	DFr	H_2O Ext.	*In vitro*/*Plasmodium falciparum*	Active	Lovy et al., 1999
TURNERACEAE						
Turnera ulmifolia L.	Puerto Rico	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Antoun et al., 2001
VELLOZIACEAE						
Vellozia bicolor L. B. Sm.	Brazil	*	$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vellozia compacta Mart. ex Schult.	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vellozia epidendroides Mart.	Brazil	*	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vellozia flavicans Mart. ex Schult.	Brazil	*	EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vellozia glabra J. C. Mikan.	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vellozia lanata Pohl.	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985

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Vellozia leptophylla Seub.	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vellozia phalocarpa Pohl.	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vellozia piresiana L. B. Smith	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vellozia pusilla Pohl	Brazil	*	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vellozia stipitata L.B. Smith	Brazil	*	$CHCl_3$ Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Vellozia subulata L.B.Sm. & Ayensu	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
VERBENACEAE						
Aloysia gratissima Troncoso	Bolivia	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
Aloysia triphylla L'Hér.	Bolivia	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Munoz et al., 2000
				Rat/*Plasmodium vinckei*	Active	Munoz et al., 2000
Aloysia virgata (Ruiz & Pav.)	Brazil	*	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			EtOAc Ext.	Macaca radiata/*P. berghei*	Inactive	Brandão et al., 1985
Avicennia germinans L.	Puerto Rico	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Antoun et al., 2001
Citharexylum fruticosum L.	Puerto Rico	DSm	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 2001
Citharexylum spinosum L.	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
Lantana cujabensis Schauer	Peru	DL+ Sm	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Okunade & Lewis, 2004
Stachytarpheta cayennensis Vahl.	Brazil	DBk	H_2O Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Stachytarpheta dichotoma Vahl	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			H_2O Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Stachytarpheta rhomboidalis Schauer	Brazil	DEP	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
		*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991
Tectona grandis L.F.	Puerto Rico	DL	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Active	Antoun et al., 2001
VITACEAE						
Cissus cissoides	Puerto Rico	*	95 % EtOH Ext.	*In vitro*/*Plasmodium falciparum*	Inactive	Antoun et al., 1993
VOCHYSIACEAE						
Qualea grandifolia Mart.	Brazil	*	95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Qualea multiflora Mart.	Brazil	*	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
Salvertia convallariaeodora St. Hil.	Brazil	*	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			EtOAc Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
			95 % EtOH Ext.	Mouse/*Plasmodium berghei*	Inactive	Brandão et al., 1985
	Brazil	DL	Hexane Ext.	Mouse/*Plasmodium berghei*	Inactive	Carvalho et al., 1991