

Enzymatic Inhibitory Activity and Trypanocidal Effects of Extracts and Compounds from *Siphoneugena densiflora* O. Berg and *Vitex polygama* Cham.

Margareth B. C. Gallo^{a,*}, Anna Sylvia F. Marques^a, Paulo C. Vieira^a, Maria Fátima das G. F. da Silva^a, João B. Fernandes^a, Márcio Silva^b, Rafael V. Guido^b, Glaucius Oliva^b, Otávio H. Thiemann^b, Sérgio Albuquerque^c, and Alan H. Fairlamb^d

^a Departamento de Química, Universidade Federal de São Carlos, CP 676, 13565-905, São Carlos-SP, Brazil. Fax: +55-16-33518350. E-mail: margareth.gallo@gmail.com

^b Instituto de Física de São Carlos, Universidade de São Paulo, CP 369, 13560-970, São Carlos-SP, Brazil

^c Faculdade de Ciências Farmacêuticas de Ribeirão Preto, Universidade de São Paulo, Avenida do Café s/n, 14040-903, Ribeirão Preto-SP, Brazil

^d Division of Molecular Parasitology & Biological Chemistry, University of Dundee, Dundee DD1 4HN, UK

* Author for correspondence and reprint requests

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Hexanic, methanolic, and hydroalcoholic extracts, and 34 isolated compounds from *Vitex polygama* Cham. (Lamiaceae, formerly Verbenaceae) and *Siphoneugena densiflora* O. Berg (Myrtaceae) were screened for their trypanocidal effects on bloodstream forms of *Trypanosoma cruzi* and *T. brucei*, as well as for their enzymatic inhibitory activities on glycosomal glyceraldehyde-3-phosphate dehydrogenase (gGAPDH) and trypanothione reductase (TR) enzymes from *T. cruzi* and adeninephosphoribosyl transferase (APRT) enzyme from *Leishmania tarentolae*. In general, polar extracts displayed strong effects and some of the tested compounds have shown good results in comparison to positive controls of the bioassays.

Key words: Myrtaceae, *Trypanosoma*, *Leishmania*