In Vitro Cytotoxicity of Some Natural and Semi-Synthetic Isocoumarins from *Paepalanthus bromelioides*

Karina F. Devienne\textsuperscript{a}, Maria Stella G. Raddi\textsuperscript{b,*}, Eliana A. Varanda\textsuperscript{b} and Wagner Vilegas\textsuperscript{a}

\textsuperscript{a} Instituto de Química de Araraquara, 
\textsuperscript{b} Faculdade de Ciências Farmacêuticas de Araraquara, Universidade Estadual Paulista “Júlio de Mesquita Filho”, Rodovia Araraquara-Jauá, Km 1, 14801–902, Araraquara, SP, Brazil. Fax: (0055) 16 2320880. \textbf{E-mail: raddims@fcfar.unesp.br}

* Author for correspondence and reprint requests

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Numerous natural compounds have a potential for therapeutic applications, but may have to be chemically modified to alter toxic side effects. We investigated structural parameters that could affect the cytotoxicity of isocoumarins similar to 9,10-dihydroxy-5,7-dimethoxy-1\textit{H}-naphtho(2,3c)pyran-1-one (paepalantine 1). Paepalantine 1 has antimicrobial activity, as well as significant \textit{in vitro} cytotoxic effects in the McCoy cell line. Two other natural and two semi-synthetic isocoumarins with similar structures obtained from the capitula of \textit{Paepalanthus bromelioides} were tested on the same cell line by the neutral red assay. Substitution of the 9 and/or 10-OH group made these compounds less cytotoxic.