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Cover Picture



Many diseases are still neglected: not only genetic diseases, but especially infectious ones, caused by parasites, microbes and viruses. They are often concentrated in the tropical regions. In a world in which the mobility of individuals has greatly increased the probability of a local outbreak becoming a major global disease, countries like Brazil have both a unique opportunity and a unique responsibility. Thus, this issue becomes peculiar and special to the scientific community, both Brazilian and international.

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Editorial

1755 The beginning: global responsibility in healthcare - with a focus on tropical disease *George M. Whitesides*



Graphical Abstract The present review describes avenues recently explored for the search of behavior modifying compounds by means of high throughput methodologies. Specifically, examples of how such methodologies mediate the search for new repellents and attractants are described



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1810 Leishmaniasis and Chagas Disease Chemotherapy: a Critical Review Izaltina Silva-Jardim, Otavio H. Thiemann and

Fernanda F. Anibal





Articles _



Development and Validation of a Method for Simultaneous Determination of Bioactive Compounds of Tanacetum parthenium (L.) Schultz-Bip

SI online Mirela F. Rabito, Mariana B. Almeida, Amanda L. Moreira, Amadeu H. Iglesias, Fernando de Paula, Bruna P. da Silva, Diógenes A. Cortez, Suzana L. Nixdorf and Izabel C. P. Ferreira

Graphical Abstract This study aimed to develop and validate a liquid chromatographic method for simultaneous determination of two sesquiterpene lactones from Tanacetum parthenium. A potencial tool for quality control of this medicinal plant with in vitro and in vivo antileishmaniasis activities



1832 Leishmanicidal Galloylquinic Acids are Noncompetitive **Inhibitors of Arginase** h

12 Lorena R. F. de Sousa, Suelem D. Ramalho, João B. Fernandes, SI online Maria Fátima das G. F. da Silva, Mônica R. da C. Iemma, Caroindes J. Corrêa, Dulce H. F. de Souza, Maria I. S. Lima and Paulo C. Vieira

Graphical Abstract

Leishmanicidal galloylquinic acids from B. coccolobifolia showed as novel noncompetitive and mixed inhibitors of arginase from L. amazonensis





SI online Aline Coqueiro, Luis O. Regasini, Gabriel M. Leme, Luciana Polese, Camila T. Nogueira, Mayara L. Del Cistia, Marcia A. S. Graminha and Vanderlan da S. Bolzani



Graphical Abstract Chemical composition of the hexane fractions from the leaves and branches of *B. glaziovii* that exhibited activity in the leishmanicidal tests as evaluated by high-resolution gas chromatography (HRGC) and GC- MS



Costa, João S. Silva and Ivone Carvalho

Graphical Abstract

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Synthesis of galactose-containing triazol-arylsulfonamides and evaluation of *Trypanosoma cruzi trans*-sialidase inhibition, antitrypanosomal and cytotoxicity activities



de Janeiro by qualitative and quantitative methods and the distribution

of the diagnosed case

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