Aims & Scope:

The aim of this issue is to present some important contributions of researchers mainly from the Academia about the drug design and discovery of bioactive compounds on Neglected Diseases. The researches have been developed by important and specialized Brazilian and foreign groups dedicated to the search for new bioactive compounds in some of the most important Neglected Diseases worldwide. The diseases involved are: Chagas disease, leishmaniasis, malaria, tuberculosis, dengue, schistosomiasis and leprosy. Well-known molecular targets and also new ones are comprehended in the subtopics in general. Then, rational design, especially SBDD – Structure Based Drug Design – is the subject of some topics, and, in addition, LBDD – Ligand Based Drug Design is involved in some topics. Molecular modification as bioisosterism, molecular hybridization and prodrug design are used as approach to design some leads and hits, described for their potential activity on Neglected diseases. Polypharmacology and also drug repositioning are discussed concerning its importance on Neglected Diseases.


Sub topics:

- Contribution of a Brazilian Medicinal Chemistry Group for Neglected Diseases
- Druglikeness profile and leishmanicidal activity of combretastatin A4 analogues
- GPI anchors of Kinetoplastida order: Structures and functions
- Triazole-based molecules for the treatment of neglected diseases
- New molecular targets and strategies for antimalarial discovery and development
- Privileged Structures in the design of Potential Drug Candidates for Neglected Diseases
- Structure-based approaches targeting cysteine proteases for Neglected Diseases
- Looking for polypharmacology in the treatment of Chagas disease
- The potential of nitro-compounds as drugs for the kinetoplastid diseases
- Challenges and advances in Drug Discovery against Leprosy
- Flavonoids against neglected diseases
- Chemogenomics Drug Repositioning Approaches for Neglected Tropical Diseases

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