

Developing a Library of Heterocycles to Fight Neglected Diseases

Flavio Emery

School of Pharmaceutical Sciences at Ribeirao Preto/University of Sao Paulo, Ribeirao Preto, Sao Paulo, Brazil

The available drug space for treating neglected diseases are limited and do not cover desirable drug-like properties. The most recent trends in neglected diseases drug discovery aim to change this picture. In order to succeed advancing medicinal chemistry in the area, a good library of structurally diverse compounds covering the property-space for drug-likeness plays a central role. This talk will present our work on building library of heterocycles, based on five main strategies: innovative scaffolds, heterocyclic reactivity, heterocyclic fragment embedment, diversity oriented synthesis and total synthesis.