**Medicinal Savour of Macrocycles: An Exciting and Emerging Field**

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The use of macrocyclic complexes in medicinal chemistry is a fascinating area of current research as these compounds resemble to many naturally occurring macrocycles, offer the potential to modulate difficult targets and to access novel chemo types. A number of studies are available in literature that highlights the favourable changes in biological and physiochemical properties that macrocyclization can afford. Modular organic synthesis based approaches are introduced in this review. In the present work we only considered the synthetic macrocycles, with emphasis on metal complexation and their phenomenal applications in medicinal chemistry. These metal based macrocyclic complexes showed antimicrobial, antiretroviral, anticancer and antidiabetic insulin-mimetic activities. As a consequence, the present work highlight the selected advances in the synthesis of macrocycles and also provide an outlook on the future use of macrocyclic scaffolds in medicinal chemistry.

Macrocyclic Complexes of Transition Metals

P.G. Poster Presentation