

International Conference on

ADVANCED MATERIALS AND POLYMER SCIENCE

&

International Conference and Expo on

SEPARATION TECHNIQUES

October 19-20, 2018 | Tokyo, Japan

Mater Sci Nanotechnol 2018, Volume 2

TRANSITION METAL COMPLEXES/ORGANOMETALLIC COMPOUNDS AS ANTICANCER/ANTI-HIV DRUGS OR IN PHARMACEUTICAL INDUSTRY

Prakash MMS Kinthada

Sree Vidyanikethan Engineering College, India

Cancer is a dreadful disease and any practical solution in combating this disease is of paramount importance to public health. Cancer patients have been burdened by drug induced toxic side effects, and no turned to seek help from the complementary and alternative medicine hoping for a better cure. Research on platinum-based drugs and non-platinum-based drugs is a Multi-Million Dollar Industry in USA and there is every need to produce safe drugs for the cure of this monstrous disease. Flavonoids have a long history of use in traditional medicines in many cultures. This talk would mainly encompass different transition metal complexes/organometallic compounds that are presently used as drugs, especially anticancer and anti-HIV drugs, apart from anti-inflammatory, antimicrobial, antibacterial and diseases like arthritis and Parkinson's disease etc. This talk would mainly focus on the use of medicinal chemistry and its application to drug design and development in pharmaceutical industry, especially transition metal complexes and organometallic compounds viz. gold, platinum, palladium and ruthenium apart from copper, cobalt, iron, nickel, zinc, cadmium etc. The main emphasis of this talk would be on different class of ligands, their Schiff's bases and transition metal complexes especially Au, Pt, Pd and Ru, with the main aim of designing, developing very novel small molecules, as possible and extremely potential candidates as anti-cancer and anti-HIV drugs. The talk would provide an overview of current programs being undertaken in our laboratories, especially focused on the development of potent ligands capable of recognizing binding sites and diverse strategies employed by my group for elucidation of anti-cancer and anti-HIV drug leads to circumvent the problem caused by cis-platin.

pk6030882@gmail.com