Chemistry Department Seminar:

'A multi-strategy approach for the discovery of bioactive natural products'

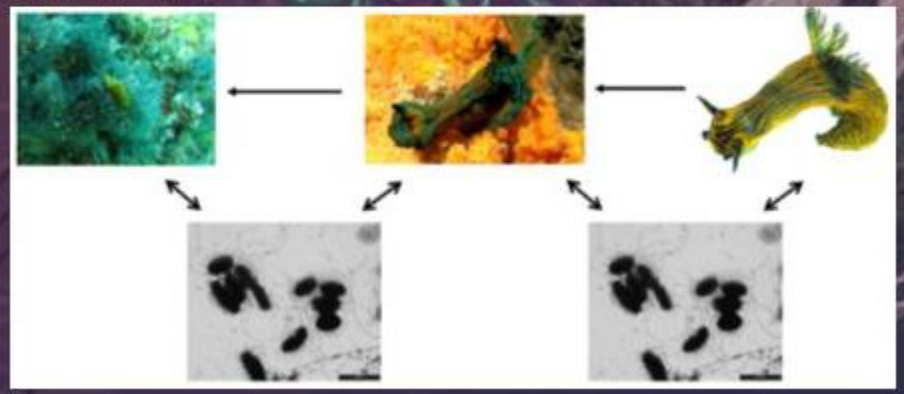
Thursday 1st November 2018 4:00pm, Physics Lecture Theatre

All welcome, coffee and tea available from 3:30pm

Prof Roberto Berlinck

University of São Paulo

The science of natural products was revolutionized during the last 30 years with the emergence of molecular biology tools that enabled the investigation of chemical, biochemical and biological processes involved in organismal adaptation mediated by secondary metabolism. Our research focus uses different approaches to the discovery of bioactive secondary metabolites from marine organisms and associated microbiota. These include metabolomics, the development of top-down isolation techniques to access both minor and water-soluble metabolites, as well as metagenomics-genomics-metabolomics to investigate metabolites involved in microbial-hosts relationships.



Biography:*Prof. Berlinck graduated in Chemistry at the University of Campinas, Brazil. Obtained his PhD in Sciences (Organic Chemistry) at the Université Libre de Bruxelles (1992). In 1993 moved to the Universidade de São Paulo as assistant professor. In 1998 started the first Brazilian program on the Investigation of microbial secondary metabolism, including Streptomycete and fungi. Dr. Berlinck established collaborations with a number of Brazilian and international investigators, including specialists in cancer, inflammation and immunomodulation, antibiotics, parasitic diseases, biodiscovery, organic synthesis and natural product biosynthesis. More recently Dr. Berlinck's interests moved towards the understanding of biochemical pathways controlling the biosynthesis of biologically active secondary metabolites produced by fungi in culture conditions.*