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Exploring for bioactive secondary metabolites from the Chinese medicinal mangroves

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Mangroves comprise a large number of various salt-tolerant plants growing in tropical and subtropical intertidal estuarine zones. Historically, many mangrove plants were used to treat various diseases in traditional Chinese medicine. Currently, the secondary metabolites found in Mangroves represent an extremely rich source of novel chemical diversity for academic drug discovery and chemical biology programs. It is particularly true that the mangroves from Southern Coast of China are very prolific producers of bioactive natural products. Our group at SIMM has long been engaged in the searching for novel secondary metabolites with pharmacological potential from Chinese mangrove medicinal plants. In collaboration with biologists and pharmacologists at SIMM, many mangroves used as folk medicine were chemically investigated and numerous novel isolates obtained were pharmacologically screened for activity in a variety of cell-based and pure enzyme assays designed to identify promising lead compounds for the development of drugs in the therapy of human diseases. This presentation will discuss examples of bioactive metabolites (structures and activities) from our recent discovery efforts.

Biography

Yue-Wei Guo has completed his Ph.D at the age of 38 years from Naples University and postdoctoral studies from both Istituto di Chimica Biomolecolare-CNR, Italy and Hokaido University, Japan. He is the Professor of Shanghai Institute of Materia Medica-CAS. He has published more than 300 papers in reputed journals and serving as editorial board members of several reputed national/international journals.

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