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Exploring for new bioactive steroids with pharmacological potential from the South China Sea invertebrates

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The steroids found in Hainan benthic marine invertebrates represent an extremely rich source of novel chemical diversity for academic drug discovery and chemical biology programs. It is particularly true that the benthic invertebrates, such as sponges, soft corals, from southern coast of China are very prolific producers of bioactive steroid natural products. Our group at SIMM-CAS has long been engaged in the searching for novel secondary metabolites, including steroids, with pharmacological potential from Chinese marine animals. In collaboration with biologists and pharmacologists at SIMM, many marine invertebrates 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 biologically active and structurally interesting steroids from our recent discovery efforts.

Biography

Yue-Wei Guo has completed his PhD from Naples University, Italy and Postdoctoral studies from Istituto di Chimica Biomolecolare-CNR, Italy and Hokkaido University School of Pharmacy, Japan. He is the principal investigator of marine natural products Lab in SIMM, a premier drug R&D organization in China. He has published more than 320 papers in reputed journals and serving as an Editorial Board Member of repute.

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