

Hong Kong Branch Distinguished Seminar Series



Drug Discovery Inspired by Marine Cyanobacteria

**Prof. Hendrik Luesch,
University of Florida, USA**

Abstract: Over half of all current drugs are based on natural products, while the marine environment represents a largely untapped resource. Our chemical investigations of marine cyanobacteria have yielded novel marine natural products that act on a range of therapeutically relevant targets. A requisite for their development into therapeutics is the detailed characterization of their mechanisms of action, along with solving the supply problem. An integrative platform of pharmacological, genomic and proteomic profiling assisted us in understanding their activities on the cellular and molecular level. Total synthesis and medicinal chemistry campaigns for prioritized compounds allowed us to improve selectivity profiles. Rigorous biological evaluation directed us to specific disease indications and enabled us to perform more targeted preclinical studies.

28 October 2021 (Thursday)

9:00 – 10:00 am (GMT +8, HK Time)

[https://hkust.zoom.us/meeting/register/tJ0pf--](https://hkust.zoom.us/meeting/register/tJ0pf--vrj8pEt2oLzfvlsE6Fde1UnpmMF-r)

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