



## **Chia-Chi Peng**

### **Structure elucidation of natural products inducing morphogenesis in marine organisms and analysis of their biosynthesis**

This project focuses on the chemical analysis of interkingdom interactions and the identification of key secondary metabolites involved in the communication process. Similar to many benthic marine invertebrate populations, free-swimming *Hydractinia* larvae recognize natural products secreted by surface-bound bacteria to settle and metamorphose into the sessile life form. However the structures of bacterial-derived settling cues are mostly unknown.

#### **Publications**

Leichnitz D, Peng CC, Raguz L, Rutaganira F, Jautzus T, Regestein L, King N, Beemelmans C (2021) Structural and functional analysis of bacterial sulfonosphingolipids and rosette-inducing factor 2 (RIF-2) by mass spectrometry-guided isolation and total synthesis. *Chemistry* , [Details PubMed](#)

Raguž L, Peng CC, Kaiser M, Görls H, Beemelmans C (2021) A Modular Approach to the Antifungal Sphingofungin Family: Concise Total Synthesis of Sphingofungin A and C. *Angew Chem Int Ed Engl* ,

[Details PubMed](#)

**Supervisor**

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**Start of PhD**

July 1, 2018