Jellyfish Venom Research Projects

Research Projects

1. Proteomic characterization of the venom from Malaysian commonly found jellyfish.

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Project Brief:

Jellyfish envenomation is a common cause of marine injuries worldwide including Malaysia. Several deadly cases of jellyfish envenomation have been reported in Malaysia that causes Irukandji-like syndrome i.e. profound anaphylactic shock and mortality. Classes of jellyfish that pose threat to human include the box jellyfish (Chironex fleckeri) and Portugese man o' war (Physalis physalis). This project aims to identify and characterize proteins from the venom of jellyfish that is commonly found in Malaysian coastal waters using chromatography techniques and mass spectrometry. Proteomics information obtained from this study can provide insights into the diversity of protein toxins produced by the jellyfish and can lead towards the development of efficient antivenom. Additionally, the information can be a valuable resource for novel protein/peptides discovery.