

Hypoxia tolerance and metabolic responses to temperature in Hong Kong ostracods: enhancing their role as biological and palaeoecological indicators

Date: Fri, Oct. 4th

Time: 16:00 (UTC+8)

Venue: 3N01 + Zoom



Ostracods have long been utilized as proxies for environmental changes in paleoecological studies. However, the biology of living ostracods remains significantly understudied. There is a pressing need to explore various biological aspects of these microcrustaceans to better understand their interactions with their environment. By measuring metabolic rates and critical partial pressure of oxygen for respiration, we can uncover the mechanisms that contribute to ostracods' resilience and vulnerability to environmental changes, such as temperature increases, hypoxia, and anoxia. This research sheds light on ostracods' responses to major global challenges linked to anthropogenic environmental changes and supports their continued use as proxies for environmental quality analyses.



Pedro Jimenez

Pedro is an Assistant Lecturer at the University of Hong Kong, holding a degree in Ecology and Biodiversity by the same institution. He specializes in the macrophysiology of crustaceans, with a focus on their thermal biology and hypoxia resistance. Currently, Pedro's research addresses how crustaceans adapt to a changing world, providing insights into their resilience to environmental stressors.

ALL ARE WELCOME!

