

HKB Distinguished Seminar series cum International Workshop on *Deep Sea Biology*



Connectivity and phylogeography of deep-sea hydrothermal vent species in the Pacific back arc basins

12 April 2022 (Tuesday)

4:00 – 5:00 pm (GMT +8, HK Time)

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Expertise: Marine Invertebrates in Deep Hydrothermal Vents



Abstract: Deep-sea hydrothermal vents are highly fragmented, ephemeral and unstable at multiple temporal scales. Such a spatial and temporal dynamics of the environment is likely to play a non-negligible role in population connectivity and speciation. To unravel the evolutionary processes that drive population-level differentiation and phylogeography of vent species it is important to know how geography and habitat specialization interplay in the history of their divergence. I will present recent results issued from our 2019 cruise to the hydrothermal vents of the back-arc basins in the Pacific, and also from collaborations. It concerns various species including those harboring bacterial symbionts e.g. the snails *Ifremeria* and *Alviniconcha*, and several other gastropods.



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