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琉球大学 熱帯生物圏研究センター セミナー
Tropical Biosphere Research Center Seminar

“Mangroves in a changing world: Insights from population genetics and ecological genomics”

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Abstract

Climate is a potent selective force in natural populations: when faced with climate change, organisms either migrate, adapt or go extinct. Mangroves are one of the few plant communities that are likely to migrate fast enough to track the rapidly changing climate. However, as potential mangrove habitat becomes less available, adaptation to climatic extremes may play an increasingly important role in species survival. Mangrove species have survived past climate change via rapid expansion and contraction in distribution range, which also resulted in genetic erosion. Therefore, the adaptive potential of mangrove populations under current anthropogenically-driven climate change remains unknown. This presentation first outlines findings from past research on population genetics of mangroves from the Indo-West Pacific, then explores the adaptation and phenotypic plasticity of mangroves to drought, salinity and extreme cold events.

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