Biomineralization of corals and paleoenvironmental studies

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Coral skeleton is a unique archive that recoding paleoclimate since the chemical compositions are fingerprinting the temperature as well as water chemistry including pH. Recent advance in analytical chemistry as well as biological experimental techniques enables us to assess the reliability of individual proxy to better picturing environmental changes. This provide strong platforms to analyzing paleoenvironment and paleoecological studies. In this presentation, we will introduce our approach to address these issues using geochemistry and bioinformatics. We will introduce our recent study to understand adaptation of corals both temperature and pH changes throughout the last deglaciation when the large environmental change was naturally occurred.

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