## *Craigia changchangensis*, a new capsular fruit from the Eocene of Hainan Island, South China

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This study reports a new fruit fossil record of the genus Craigia, C. changchangensis sp. nov., from the Eocene coal-bearing series of Changchang Basin of Hainan Island, South China. This is the second fossil Craigia species found in South China, which is the modern distribution center of the genus Craigia, and provides new evidence to spur an investigation of the phytogeographical history of the genus. A palynoflora study of the Eocene of the Changchang Basin, Hainan Island, indicated that the Eocene temperature was lower than today as Eocene flora contains many more subtropic-temperate components and fewer pantropic and tropic-subtropic components than does the modern flora (Zhao et al., 2009). In addition, the appearance of temperate plants, such as Abies and Tsuga, that can survive severe winters suggests that high-altitude mountains might have surrounded the Changchang Basin during the Eocene (Zhao et al., 2009). We speculate that the fossil Craigia species of Hainan Island might have lived in high-altitude mountains during the Eocene and became extinct later as crustalsubsidence reduced the altitude of the mountains and temperatures increased. Nonetheless, in Yunnan and Guangxi provinces, Craigia plants survived and evolved extant species due to these provinces' cooler climates.