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- Chen, S.-H. and T.-C. Huang. 1980. Aeropalynological study of Taipei Basin, Taiwan. *Grana* **19**: 147-155.  
Lin, C.-Y., T. J. Guilfoyle, Y.-M. Chen, R. T. Nagao and J. L. Key. 1974. The separation of RNA polymerase I and II achieved by fractionation of plant chromatin. *Biochem. Biophys. Res. Commun.* **60**: 498-506.  
Robson, Narman K. B. 1996. Guttiferae. In: Huang, T.-C. et al. (eds.), *Flora of Taiwan*, 2nd ed. **2**: 694-714. Editorial Committee, Dept. Bot., NTU, Taipei, Taiwan.  
Ackery, P. R. and R. I. Vane-Wirght. 1984. *Milkweed Butterflies*, Cornell Univ. Press, New York, USA. 425pp.  
Huang, T.-C. 1972. Pollen Flora of Taiwan. Dept. Bot., NTU, Taipei, Taiwan. pp. 63-64.
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