

## 亚洲热带雨林两种鸟类媒介互利系统的比较

Sawat SANI TJAN1,2, 陈进1\*\*, 王博1,2

1中国科学院西双版纳热带植物园热带森林生态学重点实验室, 云南勐腊 666303; 2中国科学院研究生院, 北京 100039

## Comparison of two plant-bird mutualistic systems in Asian tropical rainforests.

Sawat SANI TJAN1,2, CHEN Jin1, WANG Bo1,2

1Key Laboratory of Tropical Forest Ecology, Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, Mengla 666303, Yunnan, China; 2Graduate University of Chinese Academy of Sciences, Beijing 100039, China

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**摘要** 了解植物形态学性状如何影响鸟类传粉者和种子散布者的拜访, 有助于阐明植物-鸟类相互关系的进化. 本研究选取云南省西双版纳4类不同人类干扰程度的热带森林, 比较植物-鸟类在种子散布和传粉基础上所构建的网络系统. 结果表明: 植物-食果鸟网络系统高度不对称, 而植物-鸟类传粉者网络系统未出现类似的不对称现象. 两类网络系统的差异主要表现在鸟类丰富度、鸟类活动能力以及适合鸟类拜访的一系列植物性状上. 对这两个互利共生系统差异的了解有助于深入理解植物-鸟类互利关系的进化.

**关键词:** 人为干扰 食果鸟 果实性状 花朵颜色 互利共生系统 食蜜鸟

**Abstract:** To deeply understand how the morphological features of plants affect the visiting of pollen- and seed dispersal birds is beneficial to elucidate the ecological and evolutionary consequences of plant-bird interactions. In this paper, a comparative study was conducted on the avian pollen- and seed dispersal networks across four tropical rainforest habitats having experienced different levels of anthropological disturbance in Southwest China. It was observed that the inter-active network of plant-frugivorous bird was highly asymmetrical, while that of plant-seed dispersal bird was not asymmetrical. The differences between the two networks mainly manifested in the bird abundance, bird movable capability, and plant features attracting bird visiting. The understanding of these differences allowed us to reveal the mutualistic relationship between plant and bird.

**Key words:** human disturbance frugivorous bird fruit feature flower color mutualistic system nectarivorous bird

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