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CROTALARIEAE AND INDIGOFEREAE (PAPILIONOIDEAE) IN PHU PHAN
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Abstract

The study of tribes Crotalariaeae and Indigofereae in Phu Phan National Park was carried out between December 2000 and December 2001. Dried and living specimens were studied. Sixteen species in *Crotalaria* of tribe Crotalariaeae and seven species in *Indigofera* of tribe Indigofereae were enumerated. The meiotic chromosome numbers of the 15 *Crotalaria* species and 2 *Indigofera* species were determined. All *Crotalaria* species have $2n = 16$ except $2n = 48$ in *C. ferruginea*. *I. cassioides* has $2n = 16$ while *I. spicata* has $2n = 14$. Mitotic chromosome number of *I. galegoides* was counted as $2n = 24$. *Indigofera* species can be identified by chromosome number. But the chromosome number of most *Crotalaria* species do not provide good evidence for species identification. Counts for 10 taxa are recorded in Thailand for the first time. The pollen grains of *Crotalaria* and *Indigofera* are monads, isopolar, radial symmetry and tricolporate. The grain features can be used to group the plants based on shape, size and Amb types.