Project Code : MRG5280237

Project Title : การศึกษาพันธุศาสตร์ประชากรของกบก้อม (Paa fasciculispina) สัตว์เฉพาะถิ่นในเขาสอยดาว, จังหวัดจันทบุรี

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The spiny-breasted frog is an endemic species in Khao Soi Dao, Chantaburi Province. This population was previously recognized under the scientific name as Paa fasciculispina but later changed into Quasipaa fasciculispina due to its unique distribution and perhaps genetic identity. Due to its narrow range of distribution and current anthropogenic threats, the population of this species in Khao Soi Dao deserves urgent attention in conservation. Basic knowledge regarding population biology and genetics may help with the conservation planning. Field observation revealed relatively healthy population status and habitat quality. Population genetic study on this species was conducted using newly developed microsatellite DNA primers and other published primers in the literature. Although cross-species amplification was not successful, amplification using newly developed primers revealed considerate amount of genetic diversity of the population. Future investigation of other populations in nearby mountains may help better evaluate the status of this species under the pressure of urban expansion.

Keywords : Spiny-breasted frog, endemic species, genetic diversity, conservation