

**The survey project for captive gibbons in Taiwan and South-east Asia
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In 1993, the Taipei Zoo surveyed the gibbons in Taiwan and located 3 *S. syndactylus*, 8 *H. pileatu*, 2 *B. hoolock*, 77 *H. lar*, 3 *H. moloch*, 11 *N. concolor*, and 3 *H. muelleri* totaling 166 gibbons. During this survey the local government did not have accurate means to identify these species. The Taipei Zoo continued to cooperate with the National Defense Medical College of R.O.C. to execute the project "Phylogenetic analysis of gibbons at Taipei Zoo" in August 1999. We proposed to collect hairs and blood for DNA analysis. The data from the DNA analysis indicated that 30 gibbons at the Taipei Zoo were 4 *Hylobates agilis*, 17 *H. lar*, 4 *H. muelleri*, 1 *Nomascus leucogenys*, 2 *N. gabriellae*, 1 *Symphalangus syndactylus*, and one gibbon with ambivalent sequence data. In addition, 1 gibbon housed outside the Taipei Zoo was 1 *H. muelleri*, and 2 captive gibbons at Shanghai Zoological Park were 2 *N. leucogenys*. During the survey in 2000 we did not visit all of the zoos or conservation centers in Taiwan, but we did obtain photographs for morphological identification, and collected hairs and blood for genetic analysis. In 2001 Alan Mootnick assisted a morphological survey of the gibbons housed at the Taipei Zoo and zoos in the northern region. The results indicated that there were 111 gibbons in Taiwan. The survey project in 2002 will record the song bouts of gibbons housed in Taiwan, and identify these recordings in Germany by Thomas Geissmann. The Taipei Zoo would like to include the data from the DNA analysis, and sonagrams to establish a detailed database for gibbon conservation in South-east Asian.

Keyword: Gibbon, DNA, Morphological identify, Sonagrams.