

圈養灰狼 (*Canis lupus*) 之刻板行為改善與環境豐富化策略

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摘要：圈養犬科動物的刻板行為經常肇因於動物園內單調及缺乏行為刺激的圈養環境。台北市立動物園溫帶區的一對成年灰狼 (*Canis lupus*) 長期以來皆顯現嚴重的刻板行為，顯示管理模式及圈養環境無法滿足灰狼的生理及心理需求，亦誤導民眾對於動物正常行為的認知。本研究利用環境因子的改變，增加了灰狼展場的複雜度與隱密性，並提供灰狼不同空間區塊的選擇與控制權，動物於新展場行為表現穩定，提供之遮蔽處、涵洞及置高點使用及探訪情形良好，實驗成果並成功消彌原本母灰狼每小時 3% 及公灰狼每小時 20%-70% 的刻板行為至完全消失；有效提昇動物福祉的功能，足以作為其它動物在未來展場規劃及更新之參考依據。

關鍵字：灰狼、刻板行為、環境豐富化

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Improvement of Stereotypic Behaviour and Environmental Enrichment Strategy of Captive Gray Wolf (*Canis lupus*)

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Abstract : Stereotypic behaviour of captive Canidae is often result in dull and under-stimulating captive environment within zoological gardens. Critical pacing behaviour of a pair of gray wolf (*Canis lupus*) in Temperate Zone Animal Area, Taipei Zoo, has been recorded for a few years, which indicates the management and the captive environment can not meet animal's physiological and psychological demand. That also generates publics' misunderstanding of normal behaviour of animals. We aim to modify the complexity and shelter of the exhibit to provide free choice and control of different spatial characteristics for gray wolf in this study. Animal adapted well in this renewed exhibit with varied caves and shelters. Their stereotypic pacing behaviour was significantly reduced from 70% to 0. The environmental enrichment related to animal welfare in this study could be applied to environmental planning for other captive animals in the zoo.

Key words: gray wolf, stereotypic behaviour, environmental enrichment

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