

## 應用第一與第二類型遺傳標記建構馬的基因圖譜

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薛佑玲博士

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Construction of a Horse (*Equus caballus*) Synteny and Comparative Map Based on Type II and Type I Markers

Dr. Shiue, Yow-Ling (薛佑玲博士)

Institute of Biotechnology, National Cheng Kung University

e-mail:Shirling@yahoo.com.tw Tel:(06)275-7575 ext. 65604

Fax: 06-276-6505

#### Abstract

A fundamental horse (*Equus caballus*) synteny and comparative map has been constructed using 282 type II (224 microsatellites; 58 RAPDs) and 82 type I markers (61 genes; 21 STSs) by somatic cell hybrid analysis. This synteny map provides an important foundation for further linkage mapping and fine-resolution mapping of the whole genome. Synteny mapping of type I markers also provides a comprehensive map of structural genes for the horse, providing a basis for comparative mapping across species. Microsatellite and type I markers were integrated for the horse X chromosome and some autosomes (Eca 2, 3, 4, 7, 9, 10 and 23) which will allow the horse gene map to be used for an understanding of the genetic basis of traits of interest. As the information about the horse gene map accumulates, candidate gene approaches for the study of genetic diseases in the horse become appropriate research strategies.