國 立 東 華 大 學 應 用 數 學 系
專 題 演 講

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講　　題：Pooling designs for clone library screening in the inhibitor complex model

時　　間：99年12月17日(星期五)15:10-16:50

摘　　要

In this talk we introduce inhibitors into the complex model and call it the inhibitor complex model. In this model, an inhibitor is a third type of complex, other than positive and negative, whose presence may cancel the effect of positive complexes. In the simplest inhibitor complex model, the 1-inhibitor complex model, the mere existence of a single inhibitor dictates the test outcome to be negative, regardless of the presence of positive complexes. If the requirement is changed from a single inhibitor to k inhibitors, then it is the k-inhibitor complex model. In general, in a $(k; g)$-inhibitor complex model, k inhibitors cancel the effect of g positive complexes. Usually, we do not know the two parameters k and g for sure. We will refer to a model without such specification the general inhibitor complex model. In this talk, we propose a efficient nonadaptive pooling design for the general inhibitor complex model, i.e., it works against any $(k; g)$-inhibitor complex model, and extend it to the error-tolerant case.

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