

PIMA:建立一個 cDNA 微陣列和寡核苷酸微陣列的整合平台網站

PIMA:Building a web-based Platform for Integration of cDNA and oligo Microarray Data

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摘要

目前網際網路上，有許多公開免費的微陣列數據資料庫可供人研究。因技術不同分為 cDNA 和寡核苷酸微陣列，整合兩種微陣列的數據，可增加對實驗結果的可信度，得到更完整的資訊。PIMA 是一個線上的微陣列數據整合平台，提供 cDNA 微陣列和寡核苷酸微陣列基因表現的對照資料，利用 LocusLink 為 Identifier 建立微陣列的資料建立關聯性，自動化定期更新資料表，幫助我們減少對微陣列數據作資料探勘的繁雜步驟。

關鍵字：微陣列、寡核苷酸、整合平台、資料探勘、PIMA, cDNA, affymetrix.

Abstract

Nowadays, many microarray databases can be accessed freely for research on the Internet. Since microarray can be categorized into either cDNA or oligo microarray, it is important to integrate the two different types of datasets in order to increase the reliability of the experimental results. PIMA is a newly developed microarray integration platform that will provide comprehensive gene expression information on both cDNA and oligonucleotide microarray via LocusLink as the identifier to build microarray relationship. Automatically update of the microarray data information will also reduce the workload in performing microarray data mining process.

Keyword: Microarray, cDNA, oligo, affymetrix, data mining, integration.