

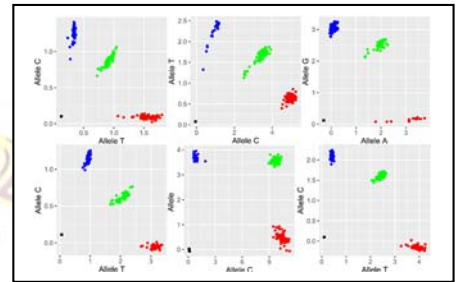


花椰菜品種鑑別與雜交成功率檢定 SNP 分子標誌套件

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簡歷：<http://www.agron.ntu.edu.tw/people/bio.php?PID=26>



市場及需求：

育成或生產花椰菜品種一代雜交種子的種苗業者與採種業者，建立比田間觀察更快速且穩定的種子品質管理系統，並提供品種保護的佐證資料。

技術摘要：

15 組單核苷酸變異 (SNP) 共顯性分子標誌，基因型組態可區分超過 200 個花椰菜一代雜交品種；增加 2 組額外 SNP 標誌後，這 17 組在各品種中至少有 1 組為異質結合，可用於檢定雜種種子的雜交成功率。

優勢：

- (1) 以種子或幼苗進行檢定，較傳統田間觀察快速且不受環境干擾。
- (2) 從超過 200 個花椰菜品種間的差異選出，檢定能力高。
- (3) 可使用自動化高通量分析設備，檢定速度快，降低人力需求。

競爭產品：

無

專利簡述：

本技術並未申請專利。

聯絡方式：臺大產學合作總中心

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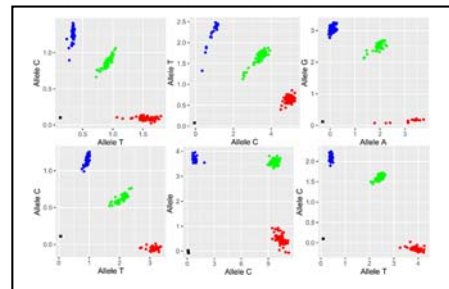
A novel SNP markers set for cauliflower variety identification

PI : Prof. Kae-kang Hwu

Department of Agronomy, National Taiwan U.

Experience:

Member and former vice president of Variety Testing Technical Committee, International Seed Testing Association



Market Needs:

For seed companies breed for cauliflower variety and/or produce hybrid seeds to establish a faster and more reliable quality control system than the traditional grow-out test. The unique variety genotype profile may provide support for intellectual property rights claims.

Our Technology:

A set of 15 novel single nucleotide polymorphism (SNP) markers, selected from parallel sequenced genome, is capable of uniquely identifying more than 200 cauliflower varieties. With two additional SNP markers, at least one of the 17 markers is heterozygote for each of the tested varieties, which may be used for testing the success rate of hybridization.

Strength:

- (1) Testing on seeds or seedlings, provides a faster and more reliable testing method than the traditional grow-out test for variety identification, variety purity and success rate of hybridization.
- (2) Markers selected from more than 200 cauliflower varieties, provide very high distinguishing power for variety identification.
- (3) Compatible with automated high throughput allele discrimination platforms.

Competing Products:

Not aware of any.

Intellectual Properties:

N/A

Contact:

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