

## 2021臺灣國際蘭花研討會蘭科植物科技研發成果發表 Taiwan International Orchid Show Orchid Research Result Publication

技術/專利：小花雙梗多花具香味蝴蝶蘭新品系

technology/patent：New *Phalaenopsis* strain with fragrance, small, double-pedicel and multiple flowers

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### 摘要 Abstract

小花雙梗多花具香味蝴蝶蘭新品系TYP0944 (*Phal. Tydares Perfume Christopher*)，於2009年以小型、黃底帶斑點商業流通品種*Phal. Tzu Chiang Balm*為母本，小型、白色且多花*Phal. Timothy Christopher*為父本，進行雜交授粉、播種、育苗、實生苗溫室栽培管理、後代優良單株選拔、分生苗繁殖、栽培、品系試驗等。2012年自200餘株實生苗中選拔出5株優良單株TYP0944 #01(Y48)、TYP0944 #03(Y50)、TYP0944 #05(Y51)、TYP0944 #06(Y52)及TYP0944 #07(Y53)，均為具香味、小型、雙梗且多花蝴蝶蘭新品系。香味釋放高峰時間分別為上午5:20、11:41、下午1點:37、上午11:47及9:20。主要香味分別為(E)-4,8-二甲基氨基-1,3,7-三烯、(Z) $\beta$ -羅勒烯、(E)-4,8-二甲基氨基-1,3,7-三烯、香葉醇及(Z) $\beta$ -羅勒烯。

A new *Phalaenopsis* strain of TYP0944 (*Phal. Tydares Perfume Christopher*), a scented, small, double-pedicels and multi-flowered *phalaenopsis*, was produced in 2009 with a small, yellow-spotted, commercially variety, *Phal. Tzu Chiang Balm*, as a female, small, white, and multi-flowered *Phal. Timothy Christopher* is the father.. After cross pollination, seeding, greenhouse cultivation management of seedlings, selection of superior offspring, clone propagation, cultivation, and line test, etc., 5 strain were selected from more than 200 seedlings. Excellent plants TYP0944 # 01 (Y48), TYP0944 # 03 (Y50), TYP0944 # 05 (Y51), TYP0944 # 06 (Y52) and TYP0944 # 07 (Y53) are scented, small, double-pedicels and multi-flowered new strains. The peak scent release times are 5:20 AM, 11:41 AM, 1:37 PM, 11:47 AM, and 9:20 AM, respectively. The main fragrances are (E)-4,8-dimethylamino-1,3,7-triene, (Z) $\beta$ -ocimene, (E)-4,8-dimethylamino-1,3,7-triene, Geraniol, and (Z) $\beta$ -ocimene, respectively.

### 圖表 Figure & Table

Table1. The *Phalaenopsis* main fragrance and release time of each strain

Strain	Main fragrance	Chinese name	Time of highest peak	Abundance
Y48	(E)-4,8-dimethylamino-1,3,7-triene	(E)-4,8-二甲基氨基-1,3,7-三烯	05:20	466,404,283
Y50	(Z) $\beta$ -ocimene	(Z) $\beta$ -羅勒烯	11:41	2,380,976,594
Y51	(E)-4,8-dimethylamino-1,3,7-triene	(E)-4,8-二甲基氨基-1,3,7-三烯	13:37	309,621,839
Y52	Geraniol	香葉醇	11:47	1,395,716,551
Y53	(Z) $\beta$ -ocimene	(Z) $\beta$ -羅勒烯	09:20	595,416,408

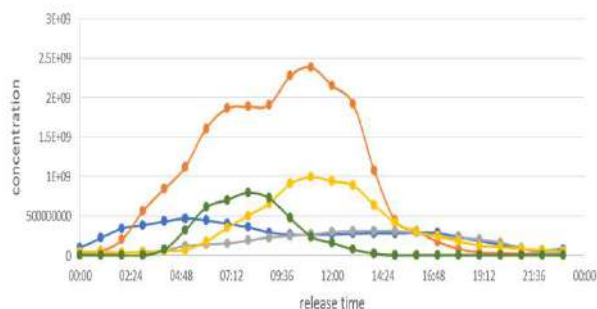


Fig1. The *Phalaenopsis* highest performance and release time of each strain



TYP0944 #01 (Y48)      TYP0944 #03 (Y50)      TYP0944 #05 (Y51)      TYP0944 #06 (Y52)      TYP0944 #07 (Y53)

Fig2. The new stains of *Phal. Tydares Perfume Christopher*.