

適製部分發酵茶品種選育

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摘要：(1)部分發酵茶雜交：♀51-14×♂台茶8號，雜交810朵花，得486個蒴果，結實率60%。♀青心烏龍×♂阿薩姆，雜交2000朵花，得248個蒴果，結實率12.4%。(2)新個體選拔：80-83年雜交個體選拔：本年春季開始葉部性狀調查及製茶試驗等。86年雜交個體選拔：86年種植214株單株。(3)85年選育茶樹新品系比較試驗：定植後第二年，茶樹生長良好，經調查成活率達90%以上者有4品系，其餘均達100%，樹高達90公分以上者有17品系(種)，樹冠達50公分以上者有12品系(種)，仍須繼續加強管理。(4)88年選育茶樹新品系比較試驗：選育20品系，進入新品系比較試驗，89年扦插育苗，90年1月定植。(5)89年選育茶樹新品系區域試驗：選育樹勢強、分枝密、抗病強、產量高，具有特殊香味之優良品系5種及對照3種計8品系(種)，於89年扦插育苗，定於90年1月間在本場文山、魚池、台東分場種植，進行新品系區域試驗。(6)優良新品系登記命名：已完成區域試驗之優良新品系計二種，其中編號51-14春茶茶葉中總多元酚含量低於台茶12號、青心大有及青心烏龍，總游離胺基酸含量高於上述三品種，其茶葉品質中水色蜜綠略帶金黃、香氣清香、滋味甘醇潤喉、抗枝枯病、收量高。另一品系編號51-67多元酚含量低於台茶12號但略高於青心大有，所製包種茶滋味醇厚、具有特殊香氣，萌芽整齊，適於機採。

Selection and Breeding of Partially-Fermented Tea

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Abstract : 1) Partially-fermented tea hybridization: Hand pollinating 810 flowers of ♀51-14×♂ TTES(Taiwan Tea Experiment Station) No.8 pollen, we got 486 fruits, and the fruit rate is 60%. Hybridizing 2000 flowers of ♀ Chin-shin Oolong ×♂Assam, we got 248 fruits, and the fruit rate is 12.4%. 2) New individual plant selection: Selection of individual hybridization plant in 1991-1994: Beginning to investigate leaf characters and manufacture test this spring. Selection of individual hybridization plant in 1997: Planting 214 individual plants in 1997. 3) Comparative tests of new selection lines of tea in 1996: The second years after transplanting, tea trees grew well, but should manage young wood more carefully. The survival rates of 4 lines were over 90%, others were 100%. Three of 17 lines were more over 90cm in height. There are 12 lines, the crown of the tea bush were over 50cm. 4) Comparative tests of new selection lines of tea in 1999: Propagating the seedlings by cutting in 2000, and planting to transplant them in 2000, July. 5) Regional tests of new selection lines of tea in 2000: Propagating the seedlings by cutting in 2000, and planting to transplant them in 2000, July. Eight lines (cultivars) including five selected lines and three cultivars as control. Were planting in nursery bed in 2000. After one years, those seedlings were planting in Wei-shan, Yu-chih and Taitung substations for regional tests. 6) Propose to name the new excellent lines: Two lines including code No. 54-14 and No. 51-67 were selected. Spring tea of No. 51-14 Had lower polyphenol and higher total free amino acids contents than control varieties. It also had higher leaves harvest, better aroma, die-back disease resistance and good quality of partially fermented tea. Another lines No. 51-67, The polyphenols contents of it are less than TTES No.12 and higher than Chin-shin Dapang. It is suitable for machine plucking.