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## 铁皮石斛 $F_1$ 代苗期农艺性状研究

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中文摘要:目的:选育铁皮石斛优良交配组合。方法:选取4个种源26个优良亲本设计26个交配组合,测量统计各组合 $F_1$ 代农艺性状,用DPS等软件分析数据。结果:不同交配组合 $F_1$ 代家系间农艺性状存在显著差异,全同胞家系间变异显著高于半同胞家系,全同胞家系内变异显著低于半同胞家系;12个农艺性状简化为4个主成分,累计贡献率达84.13%,26个交配组合划分为6个类群,其中第V与第VI类群综合性状表现较好。结论:在铁皮石斛杂交优势利用时,应重视杂交亲本的选择与控制,开展全同胞 $F_1$ 代选择与利用比半同胞能获得更高的遗传增益,家系内一致性更好;在参试的26个家系中,初步筛选出8个苗期农艺性状较好的全同胞家系( $83 \times 34, 66 \times 9, 68 \times 2, 91 \times 69, 66 \times 65, 69 \times 91, 17 \times 66, 66 \times 17$ )。

中文关键词:铁皮石斛  $F_1$ 代 苗期农艺性状 主成分分析 聚类分析

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斯金平教授简介

**Abstract:Objective:** To select superior mating combinations from different F<sub>1</sub> generations of *Dendrobium officinale*. **Method:** Twenty-six superior parents from four provenances were selected to make up 26 mating combinations. The agronomic traits of different F<sub>1</sub> generation were measured, counted, and analyzed by DPS software. **Result:** There were significant differences between different mating combinations among F<sub>1</sub> generations. The variation among full-sib families was significantly higher than that among half-sib families, while the variation inside full-sib families was significantly lower than that inside half-sib families. Twelve agronomic traits were simplified into four principal components, of which the accumulative contribution rate was 84.127 3%. Twenty-six mating combinations have been divided into six groups, plants from the fifth and sixth group grew much better than the others. **Conclusion:** The selection of parents should be emphasized by using hybrid vigor. There were higher genetic gains and superior uniformity inside families when selection and breeding occurs in full-sib families than in half-sib families. Eight superior full-sib families (83 × 34,66 × 9,68 × 2,91 × 69,66 × 65,69 × 91,17 × 66,66 × 17) have been selected which showed a good agronomic traits of seedlings.

**keywords:**[Dendrobium officinale](#) [F<sub>1</sub> generation](#) [agronomic traits of seedlings](#) [principal component analysis](#) [cluster analysis](#)

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