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肉苁蓉花粉活力与柱头可授性研究

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中文描要:目的:明确肉苁蓉Cistanche descritcola的花粉活力和寿命以及柱头的可提剔,为肉苁蓉种子生产和良种选育提供理论依据。 方法:比较不同生理测定方法对肉苁蓉花粉活力与柱头可授性测定的有效性和适用性。并与田间人工授粉结实率和灾光显微观察结果相比较应用适宜方法测定不同条件下肉苁蓉的花粉和牡头的活力变化。 结果·确定肉苁蓉花都活力和牡头可授性的规则解析注象和影从TT注和课来验证机会就遇得肉苁蓉环花为临药人和牡头可授性为最高水平小批分最高水平小批合柱头的 谢安率高达95%以上活性可保持4-5 d.而低温保存的花粉寿命可保持10 d以上。 结论:肉苁蓉花粉与柱头的生理特征具有良好的生态适应性。适宜大面积田间栽培。

中文关键词:肉苁蓉 花粉生活力 柱头可授性 生态适应性

Pollen viability and stigma receptivity of Cistanche deserticola

Abstract:Objective: To study the characteristics of pollen viability and stigma receptivity of C. deserticola and provide theory basis for seed production and breeding of C. deserticola. Method: Different physiological measurement methods were applied to evaluate pollen viability and stigma receptivity. The results of different methods were compared with the seed setting percentage of the cross-pollitation the field test and pollen germination percentage by fluoroscope observation methods. The changes of pollen viability and receptivity in different conditions were tested using proper methods. Result: The optimum methods on pollen viability and stigma receptivity detection were MTT-test and Benzidine-Hydrogen Peroxide method respectively. Results showed that the mean pollen viability and stigma receptivity of the properties of the highest in inchoate authesis with pollen germination percentage up to 95%, and can maintain viability and stigma receptivity were obtained by the properties of 4°C, the pollen can be stored up to 10 days. Conclusion: The physiological characteristics of pollen and stigma of C. desertified delibrated and explored and stigma of C. desertified delibrated and explored attacks the properties of pollen and stigma of C. desertified delibrated and configuration and the properties of pollen and stigma of C. desertified delibrated and configuration and the properties of pollen and stigma of C. desertified delibrated and configuration and the properties of the delibrated and configuration and the properties of the delibrated and configuration and the properties of the properties of configuration and the properties of the properties of configuration and the properties of the properties of the properties of configuration and the properties of the pro of C. deserticola displayed good ecological adaptation, which are much more adaptive to the large area of cultivation condition.

 ${\bf keywords:} \underline{{\it Cistanche\ deserticola}\ } \underline{{\it pollen\ viability}\ } \underline{{\it stigma\ receptivity}}\ \underline{{\it ecological\ adaptation}}$

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