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# 农学一研究报告

### 野罂粟丸化种芽萌发特性研究

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# 摘要:

利用光照培养箱,参考种子萌发试验法,利用现代技术来研究野罂粟种子在不同温度和光照条件下萌发力的变化,为野罂粟引种驯化栽培提供新的技术指标。当温度为3~5℃时,无光照有利于野罂粟丸化种芽的萌发,当温度为15~20℃时,野罂粟丸化种芽萌发均不受光照的影响,低于5℃,光照条件下野罂粟丸化种芽基本不萌发。发芽指数的变化趋势与发芽率相似,3~5℃时,无光照条件下野罂粟丸化种芽的发芽指数显著高于光照环境下的发芽指数。发芽势的变化趋势差异不显著,随着温度的升高,都呈现出"S"型曲线。温度是影响野罂粟丸化种芽萌发的环境因素中的重要限制因子,光照对其萌发力的影响随着温度的变化而不同。

关键词: 发芽指数

Studies on the germinating rule of coat-pelleted papaver nudicaule seed - bud

#### Abstract:

To solve the problem of the technology of Papaver nudicaule in introduction and cultivation. we had studied the effects of temperature on the germination of coat-pelleted Papaver nudicaule seed – bud. Using the temperature controller and consulting the examination methods of germination test. Between  $3-5^{\circ}$ C, the darkness was benefit to bud germination, between  $15-20^{\circ}$ C, the germination wasn't affected by light, below  $5^{\circ}$ C, the germination rate decreased obviously under light. The changes trend of germination index was similar to germination rate. Between  $3-5^{\circ}$ C, the germination energy under dark condition was significantly higher than light condition. The tread of germination energy had little difference between light and without light, all presented "S" profile. Temperature was a main limiting factor affecting the seed germination of coat-pelleted Papaver nudicaule seed – bud and light changed with temperature.

Keywords: germination index

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