


Callus induction in culture of *Oenothera hookeri* and *Oenothera picensis* anthers

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RESUMEN

In the present work we try to determine optimum conditions for callus induction in anther culture of *Oenothera hookeri* and *O. picensis*. The anther callus yield was increased when the anthers were cultured on modified MS medium supplied with 2 mg dm⁻³ 2,4-D and 2 mg dm⁻³ NAA, in both species. In *O. hookeri*, best results were obtained when anthers were excised from 7.2 - 9 mm buds at the stage of vacuolated microspores, then pretreated at 4°C for 2 d and grown under 16-h photoperiod. The response to anther culture of *O. picensis* was generally very poor compared with that of *O. hookeri*. The higher yield of calli was obtained when anthers were excised from 6.2-8 mm buds at the stage of vacuolated microspores and grown under continuous light. The cold pretreatment of buds decreased anther response in this species.

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