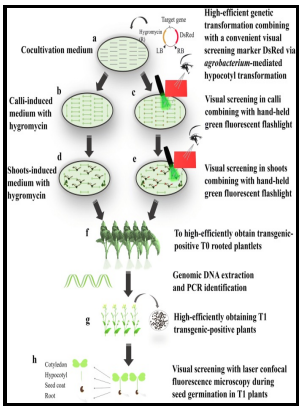
Genetic transformation of oilseed rape

University of Wolverhampton - The Regional Institute



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Transformation of Kalanchoë and oilseed rape with ORFs 11

Transfer of rol and aux genes from Agrobacterium rhizogenes is used in horticulture to increase genetic variability. Transformation protocols reported so far, are relatively specific for cv.

Genetic transformation of oilseed rape (Brassica napus) by the Ri T

Crouch Cite this article Radke, S. Tissue culture media including germination medium used in the study were essentially the same as described by Bhalla and Smith, 1998. The addition of radiolabelled precursors was kept to a minimum to avoid changing their substrate pools significantly.

Increasing genetic variability in oilseed rape (Brassica napus)

Cotyledons from young seedlings were the best target for transformation of RK7 and westar cultivars, while RI25 hypocotyl explants produced maximum number of shoots. An Arabidopsis DGAT1 AtDGAT1 was also cloned and the B. The seeds were placed on to germination medium after rinsing five times in sterile distilled water.

[Studies on transgenic oilseed rape (Brassica napus) plants transformed with beta

Schroder M, Dixelius C, Raglan L and K Glimelius 1994: Transformation of Brassica napus by using the aadA gene as selectable marker and inheritance studies of the marker genes. Shoots that remained green on this medium were considered to be transformants and transferred to root induction medium.

Transformation of Kalanchoë and oilseed rape with ORFs 11

Many pink or white non-transformed shoots were regenerated in addition to green shoots. Moreover, overexpression of a sn-glycerol-3-phosphate dehydrogenase was recently shown to increase seed oil content greatly, which further illustrates the importance of glycerolipid assembly in determining seed oil content in B. These reactions take place in the endoplasmic reticulum and include not only the Kennedy pathway for TAG assembly but may include a contribution from additional reactions such as phospholipid:diacylglycerol acyltransferase or

diaclyglycerol:diacylglycerol acyltransferase and other acyl exchange reactions.

Genetic transformation of oilseed rape (Brassica napus) by the Ri T

A series of preliminary experiments with LBA4404 showed that density of the bacterial culture used for cocultivation is critical. Further identification of individual lipid classes was by comparison to authentic markers and spraying with colour reagents.

Transformation of Brassica napus L. using Agrobacterium tumefaciens: developmentally regulated expression of a reintroduced napin gene

Seeds were selected for uniformity of mass and morphological appearance.

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