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nodule organogenesis and ...Legume-rhizobium symbiosis occurs in specialized root organs called nodules. To establish the symbiosis, two major genetically controlled events, rhizobial infection and organogenesis, must occur. For a successful symbiosis, it is essential that the two phenomena proceed simultaneously in different root tissues. Although several symbiotic genes have been identified during genetic screenings of ...A Positive Regulator of Nodule Organogenesis, NODULE ...Organogenesis in internode explants of grapevines 221 (able to contain chlorine) containing Tween-20 (0.1 %) as a wetting agent. After several rinses with

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Shoot differentiation was achieved from the surface of callus when ...In vitro organogenesis from internode derived callus ...Legume nodules are specialized symbiotic organs that develop to facilitate efficient nitrogen fixation. This review discusses how plant hormones regulate the expression of symbiotic genes and the process of nodule development. Manipulating these hormone-symbiosis interactions is essential for improving legume crops to support nitrogen fixation in various environments and for engineering ...No Home without Hormones: How Plant Hormones Control ...Considering the new insights in nodule evolution, it seems

likely that the unique architecture of the legume nodule is a derived state from the more primitive structures shown by actinorhizal plants. This is consistent with our studies that demonstrate a 75% overlap in the gene expression changes induced in lateral roots and nodules. NODULE INCEPTION Recruits the Lateral Root Developmental ...The infection thread is a root-derived conduit that enables rhizobia to colonize dividing cortical cells, where they differentiate into nitrogen-fixing bacteroids and provide ammonium to the plant host. Root nodule organogenesis therefore represents a complex interplay between plant and bacterial symbiotic

partners. Turning lateral roots into nodules | ScienceIn conclusion, organogenesis induction from internode-derived nodules of *H. lupulus* var. Nugget seems an attractive culture system to study the control of morphogenic competence. EPMA appears as a potential tool for studying the elemental changes during induction and development in plant morphogenesis. An electron probe X-ray microanalysis study during ... Ana M. Fortes and Maria S. Pais, Organogenesis from internode-derived nodules of *Humulus lupulus* var. Nugget (Cannabinaceae): histological studies and changes in the starch content, *American Journal of Botany*, 87,

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