

Abstract

Title: Methods for Obtaining Oil Palm Plants that Have Tolerance to *Ganoderma boninense*

5 Methods for obtaining oil palm plants that have tolerance to *Ganoderma boninense*, for cultivation for agricultural use, are disclosed. A treatment group and a control group of oil palm plants are cultivated together, roots of the treatment group, but not the control group, are contacted with *Ganoderma boninense*, and the groups are further cultivated together. Levels of transcripts of a cell-wall-related-protein gene, a transcription factor gene, a disease-resistance-
10 protein gene, and a jasmonic-acid-signalling gene are determined. Tolerance to *Ganoderma boninense* is predicted based on the levels of the transcripts being higher for treatment versus control. If the treatment group is predicted to have tolerance, then the treatment group is transplanted for cultivation. If not, then the treatment group is culled.

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(The most illustrative drawing is FIG. 1).