Supporting Information

Supplementary Fig. S1. Time-course evolution in the endogenous concentration of jasmonates levels during natural development in tepals of *L. longiflorum*. Data correspond to the mean±SE of n=4. Results of statistics are shown in the inlets (ANOVA, *P*<0.05). NS, not significant. When significant, different small letters indicate differences between days as indicated by the Tukey post hoc test. DW, dry weight; JA, jasmonates.
Supplementary Fig. S2. Time-course evolution in the oxidative markers during natural development in tepals of *L. longiflorum*. Data correspond to the mean±SE of *n*=4. Results of statistics are shown in the inlets (ANOVA, *P*<0.05). NS, not significant. When significant, different small letters indicate differences between days as indicated by the Tukey post hoc test. DW, dry weight; MDA, malondialdehyde; αT, α-tocopherol; γT, γ-tocopherol.
Supplementary Fig. S3. Time-course evolution in the endogenous concentration of cytokinins hormones levels in Promalin-treatment in tepals of *L. longiflorum*. Data correspond to the mean±SE of *n*=4. Results of statistics are shown in the inlets (ANOVA, *P*<0.05). When significant, different capital letters indicate differences between days as indicated by the Tuckey post hoc test. NS, not significant. Asterisks indicate significant differences between treatments at specific time points (Student’s *t*-test, *P*<0.05). Control, empty bars and Promalin-treated, solid bars. DW, dry weight; 2-iP, isopentenyladenine; IPA, isopentenyladenosine; Z, trans-zeatin; ZR, trans-zeatin riboside.
Supplementary Fig. S4. Time-course evolution in the endogenous concentration of jasmonates hormones levels in Promalin-treatment in tepals of *L. longiflorum*. Data correspond to the mean±SE of n=4. Results of statistics are shown in the inlets (ANOVA, *P*<0.05). When significant, different capital letters indicate differences between days as indicated by the Tukey post hoc test. NS, not significant. Asterisks indicate significant differences between treatments at specific time points (Student’s *t*-test, *P*<0.05). Control, empty bars and Promalin-treated, solid bars. DW, dry weight; JA, jasmonates.
**Supplementary Fig. S5.** Time-course evolution in the endogenous concentration of oxidative markers levels in Promalin-treatment in tepals of *L. longiflorum*. Data correspond to the mean±SE of n=4. Results of statistics are shown in the inlets (ANOVA, *P*<0.05). When significant, different capital letters indicate differences between days as indicated by the Tukey post hoc test. NS, not significant. Asterisks indicate significant differences between treatments at specific time points (Student’s *t*-test, *P*<0.05). Control, empty bars and Promalin-treated, solid bars. DW, dry weight; MDA, malondialdehyde.