



Figure 9. Effect of methyl jasmonate (MeJA) treatment on growth and traumatic resin duct development.

2-year-old Norway spruce plants were sprayed with water (blue) or 10 mM MeJA (red). (a) Plant height was measured twice over a period of 5½ weeks after MeJA treatment. Shoots, roots and stem cross-sections for (b)–(g) were harvested 10 weeks after treatment. (b) Dry weight of the 10 uppermost current-year lateral shoots on each plant. (c, d) Radial thickness (i.e. width) of the current-year annual sapwood growth (c) and secondary phloem (d) on stem cross-sections. (e) Proportion of traumatic resin ducts (TRD) across a quarter of the tangential width of the current-year annual sapwood growth. (f) Root dry weight. (g) Total root length for different root diameter classes. All results are presented as mean ± 95% confidence interval of the mean. Points show individual data points (n = 15). Asterisks indicate significant differences (Two-sided t-test, n.s = not significant; *** = p < 0.001, ** = p < 0.01).