



Figure 1. Experimental setup to study establishment and maintenance of methyl jasmonate (MeJA)-induced resistance in Norway spruce seedlings.

Two-year-old seedlings were treated with either water (blue lines), 10 mM MeJA (dark red lines) or other concentrations of MeJA (orange lines; details below). For the resistance assay, plants were inoculated with a necrotrophic fungal pathogen or mock 4 weeks (wks) after treatment. Eight weeks later, necrotic lesions were measured. mRNA-seq was conducted on mRNA extracted from bark tissue harvested from plants at 3 hours (hrs), 24 hrs, 1 wk and 4 wks after treatment. Chlorophyll fluorescence was measured 1 day, 6 days and 8 wks after treatment with 0, 5, 25, 50, or 100 mM MeJA. Plant height growth was measured twice over a period of 5.5 wks. Shoots, roots and stems were then harvested at 10 wks to explore the impact of MeJA on plant growth and morphology.