## Dual RNA-seq comparison of the pine-Fusarium circinatum interaction between resistant (Pinus tecunumanii) and susceptible (Pinus patula) hosts

Erik A. Visser ${ }^{1}$, Jill L. Wegrzyn ${ }^{2}$, Emma T. Steenkamp ${ }^{1}$, Alexander A. Myburg ${ }^{1}$, Sanushka Naidoo ${ }^{\text {* }}$
${ }^{1}$ Department of Biochemistry, Genetics and Microbiology, Forestry and Agricultural Biotechnology Institute (FABI), Genomics Research Institute (GRI), University of Pretoria, Private bag X20, Pretoria 0028, South Africa
${ }^{2}$ Department of Ecology and Evolutionary Biology, University of Connecticut, Storrs, CT 06269, USA


Figure S1 Fusarium circinatum disease symptoms on inoculated pine seedlings at 21 days post inoculation. Left - inoculated. Right - mock-inoculated. Top - Pinus patula. Bottom - Pinus tecunumanii.


Figure S2 Bioinformatic methods flow diagram. $\mathrm{FSP} 34=F$. circinatum proteome, Pipt_v2.0 $=P$. patula proteome, Pnte_v1.0 $=$ P. tecunumanii proteome, in each case italics indicate transcriptomes. Grey boxes represent programs, orange boxes represent additional files (AF) and black boxes represent databases. Yellow represents $F$. circinatum, green represents $P$. patula, blue represent $P$. tecunumanii. In the R box dark colours represent 3 -dpi and light colours represent 7 -dpi. IvM $=$ differentially expressed genes in inoculated relative to mock-inoculated samples, Pnte v Pipt = differentially expressed $F$. circinatum genes from $P$. tecunumanii data sets relative to $P$. patula data sets. Arrows refer to up- and down-regulated DE genes.


Figure S3 Gene ontology terms enriched among high confidence in planta expressed $F$. circinatum genes. (A) Cellular compartment, (B) Molecular Function and (C) Biological Process GO terms enriched within up-regulated data sets at 3- (dark bars) and 7- (light bars) dpi in $P$. patula (blue) and $P$. tecunumanii (green). The y-axes represent the absolute $\log _{2}(\mathrm{q}$-value) following Benjamini \& Hochberg False Discovery Rate (FDR) correction.

