

The eINTACT system dissects bacterial exploitation of plant osmosignalling to enhance virulence

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SUPPLEMENTARY INFORMATION

This PDF file includes:

- **Supplementary Text**
- **Titles of Supplementary Tables 1-8**

Supplementary Text. A detailed description of the *Arabidopsis-Xcc* eINTACT system (Fig. 1a, b). (a) The bacterial mutant strain *Xcc*^{*AvrBs3} delivers the TAL effector AvrBs3 together with other type III effectors (T3Es) to targeted host cells via the unique type III secretion system (T3SS) during infection. The *Arabidopsis* eINTACT reporter line expresses two transgenes: the red fluorescent nuclear envelope-targeting protein (NTF), containing the WPP domain of the *Arabidopsis* RAN GTPASE ACTIVATING PROTEIN 1 (RanGAP1; *At3g63130*) for nuclear envelope targeting, red fluorescent protein (mCherry) to allow visualization, and the biotin ligase recognition peptide (BLRP), is expressed under the control of pepper *Bs3* promoter (*LOC107857984*), and *E. coli* biotin ligase (BirA) is constitutively expressed under the control of *Arabidopsis UBQ10* gene (*At4g05320*) promoter. AvrBs3 induces the expression of NTF only in effector-targeted host cells, leading to biotinylation (B) of the nuclear envelope. T3Es, for example, *Xanthomonas* outer protein D (XopD), are indicated with colour icons. (b) Making use of the biochemical interaction between biotin and streptavidin, the biotin-tagged nuclei can be isolated using streptavidin (S)-coated magnetic beads by affinity-based purification (INTACT method).

Titles of Supplementary Tables 1-8

Supplementary Table 1. Differential gene expression between $\text{nuc}^{+\text{XopD}}$ and $\text{nuc}^{-\text{XopD}}$.

Supplementary Table 2. GO enrichment in biological process of significantly differentially-expressed genes.

Supplementary Table 3. Profiles of all CG-, CHG- and CHH- DMRs comparing $\text{nuc}^{+\text{XopD}}$ vs $\text{nuc}^{-\text{XopD}}$.

Supplementary Table 4. The 19 DEGs with DMRs located within 3-kb proximal promoter regions.

Supplementary Table 5. Expression changes of selected SA-related defense genes in $\text{nuc}^{+\text{XopD}}$ vs $\text{nuc}^{-\text{XopD}}$.

Supplementary Table 6. Sequences of primers.

Supplementary Table 7. Plasmids and *Xcc* strains used in this study.

Supplementary Table 8. RNA-seq and Methyl-seq data characteristics.