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Supplementary Material: *Functional Plant Biology*

## Supplementary Material

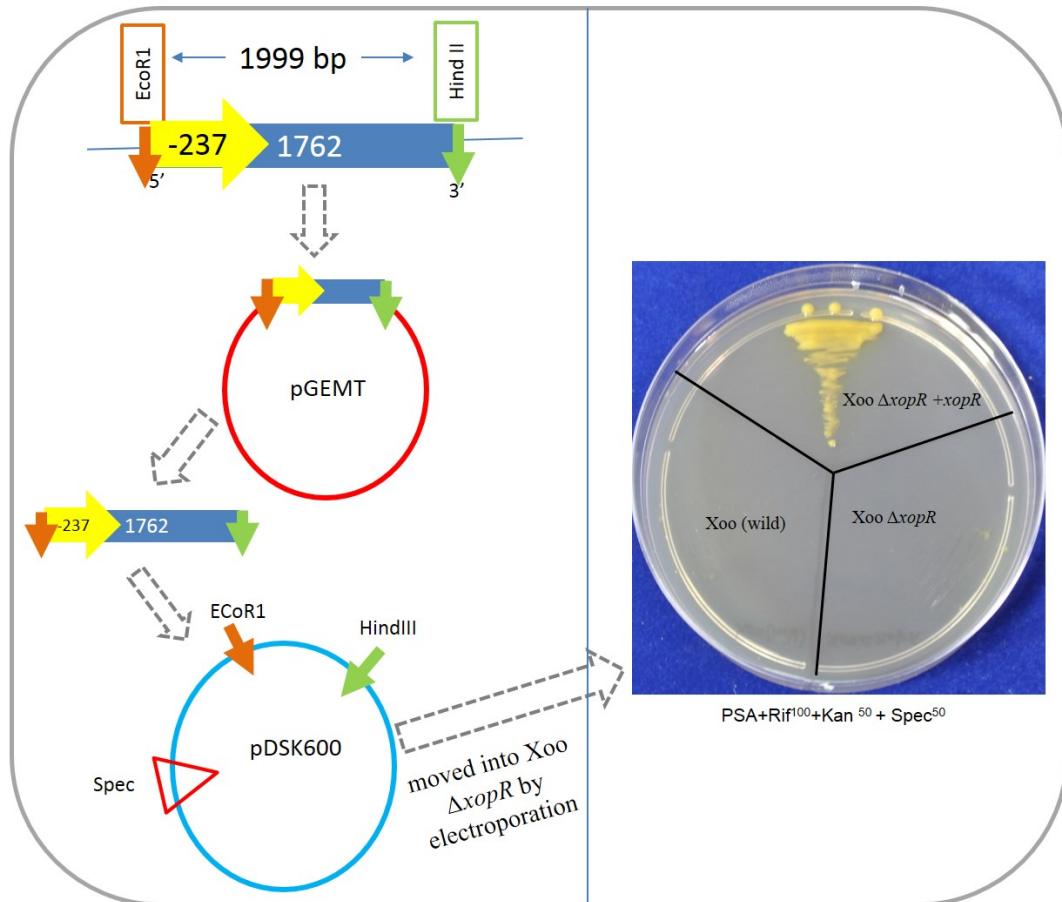
### **XopR TTSS-effector regulates *in planta* growth, virulence of Indian strain of *Xanthomonas oryzae* pv. *oryzae* via suppressing reactive oxygen species production and cell wall-associated rice immune responses during blight induction**

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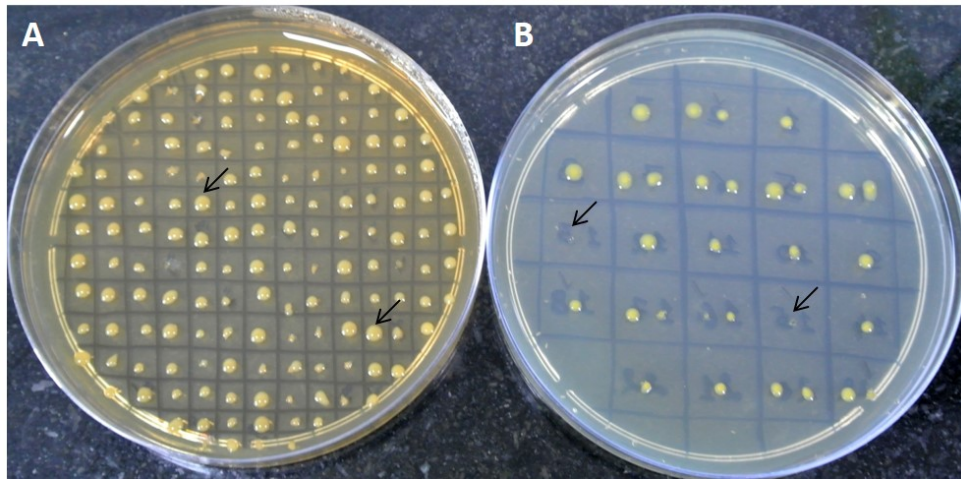
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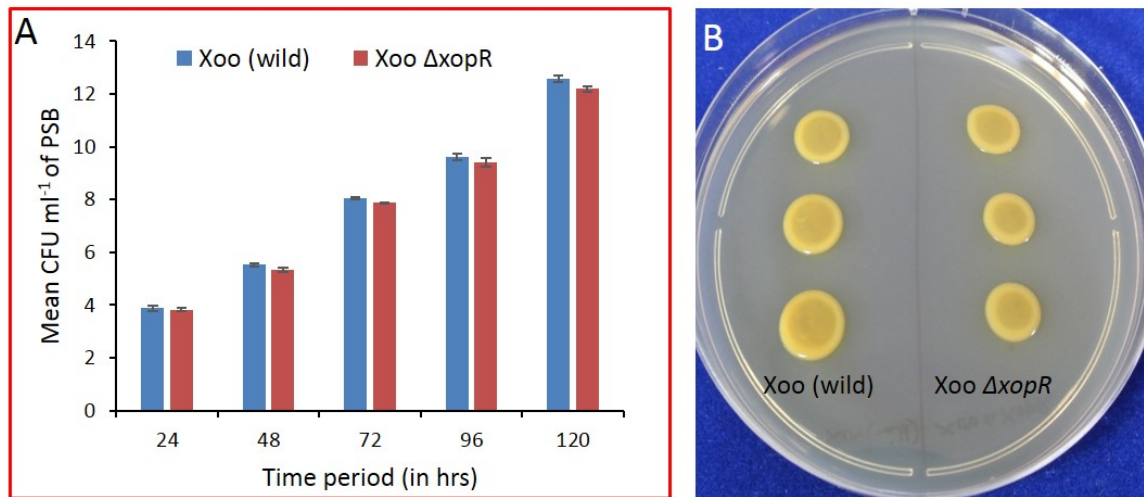
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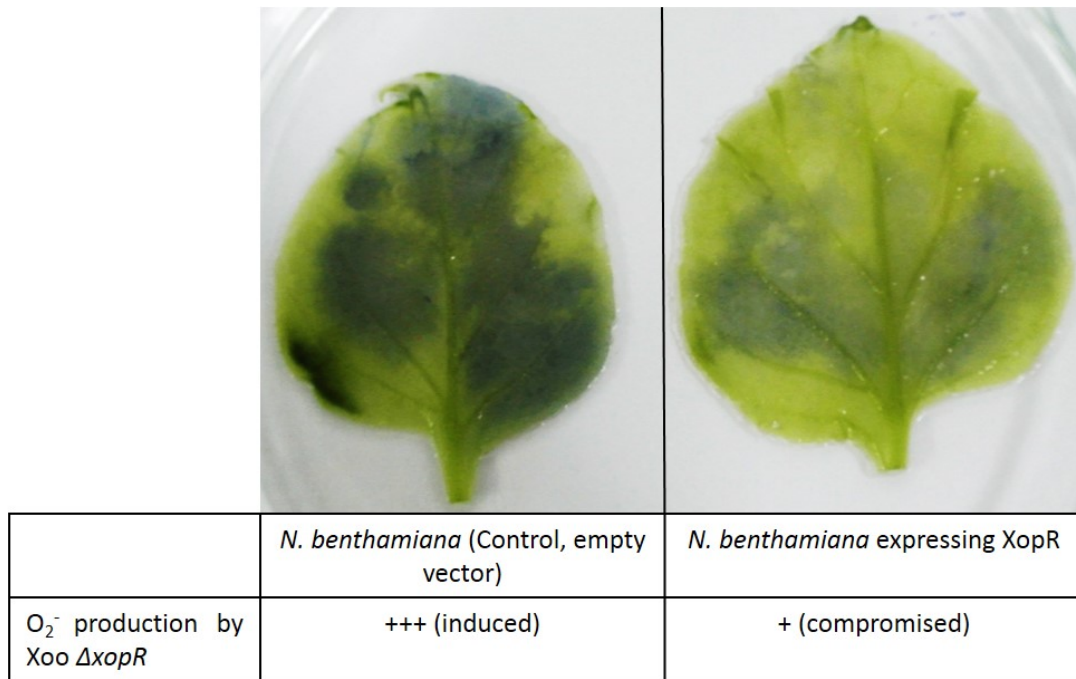
**Fig. S1.** Construction of complementary strain for *xopR* and subsequent phenotypic selection. Left panel: 1999 bp fragment containing *xopR* promoter (237 bp 5' of the ATG) and the *xopR* ORF (1-1999 bp) were PCR amplified as *EcoR*I and *Hind* III restricted fragment from *Xoo* (wild) genomic DNA. This DNA fragment (-237 to +1762) was then cloned into pGEMT and subsequently cloned as *EcoR*I and *Hind* III restricted fragment into pDSK600 having spectinomycin-resistance gene (pDSK600:*xopR*). Finally (pDSK600:*xopR*) moved into *Xoo*  $\Delta$ *xopR* by electroporation. Right panel: The transformed colonies selected on spectinomycin (50 ppm) plate are indicative of complemented strain.



**Fig. S2.** Phenotypic selection and confirmation of the Xoo mutants lacking *xopR* gene. (A) PSA supplemented with Rif<sup>100</sup> + Kan<sup>50</sup> showing growth of putative mutant colonies having kanamycin resistance gene; (B) Further confirmation of the selected colonies (marked with arrow) on Luria Bertani agar with Amp<sup>100</sup> showing no growth of the positive mutants.



**Fig. S3.** (A) *In vitro* CFU counts of Xoo (wild) and XopR mutant (Xoo  $\Delta$ xopR) on PSB (peptone 10g, sucrose 10g, sodium glutamate 1gm, distilled water 1000 ml) at different time period. Note: Growth pattern shows no significant difference in the growth habit of Xoo wild type and mutant. The  $P < 0.001$  vs wild by student's t test. (B) Colonies of Xoo wild type and Xoo  $\Delta$ xopR on PSA at 72h at 28°C, showing no aberration in the colony morphology.



**Fig. S4.** Transiently expressed XopR protein suppressed Xoo  $\Delta$ xopR- induced O<sub>2</sub><sup>-</sup> production on tobacco leaf.