



Supplementary Figure 1. Conditional GWAS identifies target-site variants associated with susceptibility to PCN and TET. Manhattan plots show unitig significance ($-\log_{10}$ transformed p -values) and unitig location determined by mapping to the WHO N reference genome, including the chromosome, *bla*_{TEM} encoding plasmid, *tetM* encoding conjugative plasmid, and cryptic plasmid. The significance threshold is denoted by the horizontal, dashed line. **A**) Manhattan plot of unitig association with PCN susceptibility. Unitigs significantly associated with increased PCN susceptibility ($\beta < 0$) are blue. **B**) Manhattan plot of unitig association with TET susceptibility. Unitigs significantly associated with increased PCN susceptibility ($\beta < 0$) are purple.