



Supplementary Figure 2. Manhattan and q-q plot of association mapping of tobacco bacterial wilt. The small figures (a–e) show significant QTNs in four environments and their BLUP values. The pink dots denote significant QTNs in the second step of the multi-locus models, while light green and light blue colors indicate the $-\log_{10} p$ -values in the first step. The dashed line on each small figure indicates the LOD score threshold. **E1**: Nanxiong (2013); **E2**: Nanxiong (2014); **E3**: Xikou (2014); **E4**: Nanxiong (2015).