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Genome-wide identification of the Sec-dependent secretory protease genes in *Erwinia amylovora* and analysis of their expression during infection of immature pear fruit

Key words: ***E. amylovora*, Sec secretory system, Protease, Gene expression, Plant infection**

Research Summary

The study identified the Sec-dependent secretory protease genes in *E. amylovora* on a genome-wide scale, and further explored their expression profiles when the bacterium infected immature pears.

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Innovation points

- ***E. amylovora*** **harbors all of the essential components of the Sec-denpedent secretory system.**
- **At least 15 putative Sec-dependent secretory proteases present in *E. amylovora.***
- **Eleven of the Sec-dependent secretory proteases have potential roles in plant infection.**

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