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Genome-wide identification of the Secdependent 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.

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.