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Functional proteomics assessment of sporulation in the wheat pathogen *Stagonospora nodorum*

Wednesday 5 September 2012 1pm

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Slatyer Seminar Room R. N. Robertson Building, Bldg 46, Linnaeus Rd, ANU



Stagonospora nodorum is a major fungal pathogen of wheat and every year costs the wheat industry millions of dollars through both control measures and crop losses. Asexual sporulation is a key pathogenicity factor that allows *S. nodorum* to propagate both horizontally and vertically through wheat crops and continue the infection cycle.

Here, I present results from the quantitative proteomic analysis of a series of previously characterised sporulation mutants of *S. nodorum*. From analysis of the data I have identified a selection of proteins that are differentially abundant across sporulation. This has led to the construction of a series of knock out mutants, and through characterisation of these mutants I have identified a novel protein that is required for sporulation under specific growth conditions. Further analysis of this protein's role in sporulation will hopefully lead to new targets for combating this pathogen and subsequently new disease management strategies.

Presented by

Division of
Plant Science
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