New gene disruption technology to understand blackleg disease

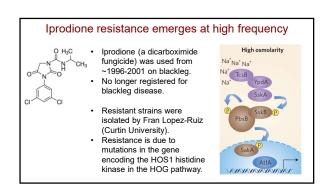
Alexander Idnurm

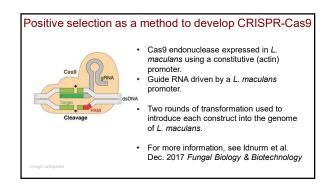
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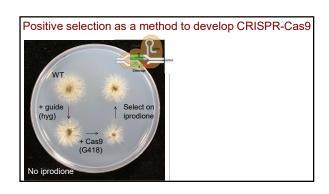


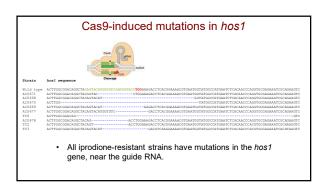
UM00050 "' 'Proof of concept' for approaches designed at increasing disease resistance in pathogens of canola"













- ① Genes encoding avirulence proteins.
- ② Genes expressed during stem cankering.
- $\ensuremath{\mathfrak{J}}$ Cell wall synthesis (or associated) proteins.

Strains with deletions in AvrLm genes ① Genes encoding avirulence proteins. - No Avr gene confirmed by gene disruption. - Complex interactions now known for Avr/R in blackleg. - Why are the wild type copies maintained – identify conditions that select for the avirulence copy of the gene. - Mutated AvrLm1 and AvrLm4.

