



Bio-Protection

Bioprotection science for New Zealand

Gene clusters in the *Dothistroma septosporum* genome.

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Location of Project: Massey University, Palmerston North (Manawatu campus)

Abstract: This bioinformatics project involves analysis of a newly sequenced fungal genome: that of the pine needle blight pathogen *Dothistroma septosporum*. The genome contains an unusual 'fragmented gene cluster' that may hold the key to understanding how secondary metabolite gene clusters evolved. As part of a larger programme, this project will involve analysis of other secondary metabolite genes in the *D. septosporum* genome to determine their level of clustering, and comparisons with genomes of related fungi. A student on this scholarship will be given a place on the Fungal Genomics Workshop to be held at Massey University 22-24 November 2010.