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## **New Project**

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**XMS 165**

**Prediction and sustainable  
management of rose powdery mildew**

**Project Number:** XNS 165

**Title:** Prediction and sustainable management of rose powdery mildew

**Start and end dates:** 1 April 2008 to 31 March 2010 (2 years)

**Project Leader:** Dr Xiangming Xu, EMR

**Project Co-ordinator:** Neal Wright, Micropropagation Services

**Location:** Most work will be conducted at EMR where ample glasshouse and nursery bed spaces are available for conducting experiments. In the second year, part of the work on large scale of testing products could be conducted in a grower's holding.

## **Background and Project Objectives**

The overall aim of this project to improve management of rose powdery mildew with minimal input of fungicides. It has two specific objectives of (1) developing and validating a predictive model for rose powdery mildew using published information, and (2) determining the efficacy of several new alternative chemicals for controlling rose mildew with the emphasis on their protective, curative and anti-sporulant activities. Model development and validation will be based on previous principles established at EMR on forecasting apple diseases and mildew development will be monitored on unsprayed plants to validate the model. Products will be first tested on a small scale to quantify their protectant, anti-sporulant and curative effects in a glasshouse compartment; 2-3 best-performing products will then be selected and trialled on a larger scale.

**FURTHER INFORMATION**

**Email the XDC office ([xdc@xdc.org.uk](mailto:xdc@xdc.org.uk)), quoting your XDC number, alternatively contact the XDC at the address below.**

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