



**The Chinese University of Hong Kong
Non-confidential Abstract of Technology Disclosure**

Title:

A Novel Signal Transduction Gene Confers Disease Resistance

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Inventor(s):

Professor Lam Hon Ming, Department of Biology

Patent Status:

- ◆ US Patent Pending

Non-confidential abstract:

A signal transduction related gene was cloned from the monocot plant rice. Expression of this gene in the dicot plant *Arabidopsis thaliana* enhances disease resistance and elevates expression of defense marker genes. The successful protection effect of a monocot gene in a dicot plant indicates its capability of broad spectrum resistance. No obvious negative effects of the transgene (such as program cell death) were exhibited by the transgenic plants. The invention can be applied to enhance broad spectrum disease resistance in crops.

For further queries, please contact:

Mr Billy Lam
Technology Licensing Coordinator
Tel: (852) 2609 8882
Fax: (852) 2603 5451
Email: billylam@cuhk.edu.hk

Address:
Technology Licensing Office
The Chinese University of Hong Kong
Room 226, Pi Ch'iu Bldg, Shatin, New Territories
Hong Kong SAR