

湖北恩施马铃薯一种新记录病害

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摘要

在湖北恩施从马铃薯上采集到一种叶斑病,病原菌鉴定为 *Mycovellosiella*(*Cercospora*) *concors*(*Casp.*) *Deighton*,经文献检索该病害为湖北省内新记录。初步调查,马铃薯灰斑病(*M. concors*) 在个别品种上零星发生。

关键词 湖北, 马铃薯, 病害

1996年7月在湖北恩施南方马铃薯中心附近采集到一种马铃薯叶斑病,进行症状描述和病害调查,然后进行室内病原菌鉴定。在另外两个马铃薯产区未发现此病。

初期病斑圆形,黄色至浅褐色,扩大后呈褐色不规则形,或者叶斑不太明显。在天气潮湿情况下,叶片背面形成致密的灰色霉层(分生孢子梗和分生孢子),可区别于晚疫病(*Phytophthora infestans*);没有同心轮纹可区别于早疫病(*Alternaria solani*)。该病一般在马铃薯后期发生,生产上危害不大。

1 病害症状

该病危害叶片和地上茎,块茎未见发病。

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ESTABLISHMENT OF IMPROVED ELISA METHODS

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ABSTRACT

Potato virus are detected by three methods. The first method is routin ELISA and the second and third methods are modified ELISA. The positive reaction and sentivity are the same for the three methods, but the precision of modified methods are higher than that of the routin ELISA. Furthermore, the modified methods need shorter time compared with the routin method.

KEY WORDS potato virus, ELISA, modified ELISA, precision

2 病原菌鉴定

病原菌为绒层尾孢 [*Mycovellosiella* (*Cercospora*) *concors* (Casp.) Deighton]。子座上密集多分枝的分生孢子梗, 曲膝状, 有隔膜。分生孢子圆筒形至倒棍棒形, 近乎无色至淡褐色, 直或微弯, 两端钝圆, 长度变化明显。大小: 14~80 μm × 3~6 μm, 隔膜 0~6 个(示病原菌图)。

经《中国真菌总汇》和中国农科院查新检索, 马铃薯灰斑病(*M. concors*) 为湖北省马铃薯新记录病害。

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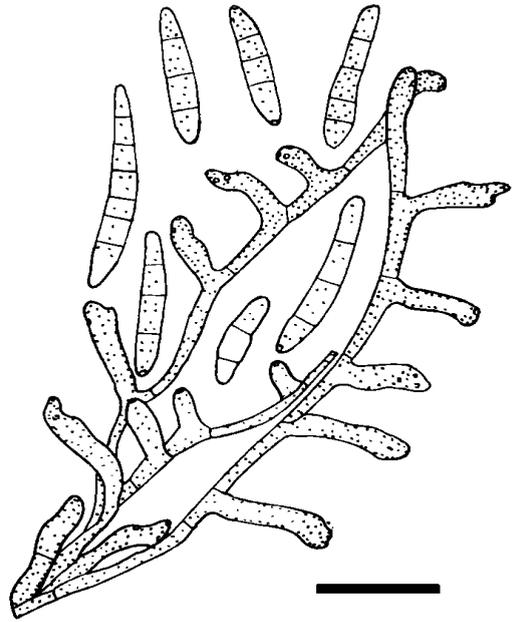


图 分生孢子梗和分生孢子
(棒代表 25 μm 仿 M. B. Ellis)

ONE NEW RECORD OF POTATO DISEASE IN HUBEI PROVINCE

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ABSTRACT

Samples of potato infected with a disease were collected in Enshi Hubei and the causal organism of this disease was proved to be *Mycovellosiella* (*Cercospora*) *concors* (Casp.) Deighton. This is the first report of the disease in Hubei province.

KEY WORDS: Hubei, potato, disease