

## **Contribution to the knowledge of diversity of *Fusarium* associated with maize in Malaysia**

### **ABSTRACT**

The *Fusarium* species associated with maize are widely distributed in Malaysia. Eight *Fusarium* species were obtained in this country. A series of field samplings was conducted from 2006 to 2008, when 167 *Fusarium* isolates were obtained from maize plants in seven locations throughout Malaysia. The determination was based on micro- and macromorphological features (growth rates, colony features, mode of production of microconidia, macroconidia, conidiophores, and chlamydospores). *F. proliferatum* (29.9% isolates), *F. semitectum* (22.2% isolates), *F. verticillioides* (13.7% isolates), and *F. subglutinans* (12.6% isolates) were found out most frequently. *F. equiseti*, *F. pseudograminearum*, *F. oxysporum*, and *F. solani* were also isolated. This is the first report on the occurrence of *F. equiseti*, *F. pseudograminearum*, and *F. subglutinans* associated with maize plants in Malaysia.

**Keyword:** *Fusarium* species; Distribution; Morphology; *Zea mays* L.