

## Screening for Sarawak Paddy Landraces with Resistance to Yellow Rice Stem Borer, *Scirpophaga incertulas* (Walker) (Lepidoptera: Crambidae)

Alvin Xian Rong Ling<sup>1</sup>, Freddy Kuok San Yeo<sup>1\*</sup>, Nur Najwa Hamsein<sup>2</sup>, Hieng Ming Ting<sup>3</sup>, Mogeret Sidi<sup>1</sup>, Wan Nurainie Wan Ismail<sup>1</sup>, Annebell Stphanie Taji<sup>1</sup> and Yin Hui Cheok<sup>1</sup>

<sup>1</sup>Faculty of Resource Science and Technology, Universiti Malaysia Sarawak, 94300 Kota Samarahan, Sarawak, Malaysia

<sup>2</sup>Agriculture Research Centre, Semongok, P.O.Box 977, 93720 Kuching, Sarawak

<sup>3</sup>Institute of Plant Biology, National Taiwan University, Taipei 10617, Taiwan

### ABSTRACT

The yellow rice stem borer, *Scirpophaga incertulas* (Walker) is a prevalent pest in paddy fields worldwide. In Sarawak, a survey on pest of paddy carried out from 2009 to 2011 covering 166 paddy fields revealed that rice stem borers caused 11.4% of total paddy damage. In order to reduce the damage, identifying resistance paddy variety is crucial. The objective of this study was to screen Sarawak paddy landraces with resistance to

*S. incertulas*. Twelve Sarawak paddy landraces were selected randomly for this study. Antixenosis resistance screening was performed in aquariums (60 x 28 x 33 cm). Three replications of one-month-old seedlings were randomly arranged in aquarium and exposed to adult *S. incertulas*. The number and position of egg mass on each plant were recorded. Egg mass abnormalities were also observed. For antibiosis, rice culms of two-month old seedlings from each landrace were infested with larvae. The length of surviving larvae from five rice culms was measured. The experiment revealed variations in landrace

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#### E-mail addresses:

[alvinlingxr@gmail.com](mailto:alvinlingxr@gmail.com) (Alvin Xian Rong Ling)

[yksfreddy@unimas.my](mailto:yksfreddy@unimas.my) (Freddy Kuok San Yeo)

[nurnh@sarawak.gov.my](mailto:nurnh@sarawak.gov.my) (Nur Najwa Hamsein)

[jimmytinghm@ntu.edu.tw](mailto:jimmytinghm@ntu.edu.tw) (Hieng Ming Ting)

[smogeret@unimas.my](mailto:smogeret@unimas.my) (Mogeret Sidi)

[wawnurainie@unimas.my](mailto:wawnurainie@unimas.my) (Wan Nurainie Wan Ismail)

[annebellannebell221@gmail.com](mailto:annebellannebell221@gmail.com) (Annebell Stphanie Taji)

[yinhui56@gmail.com](mailto:yinhui56@gmail.com) (Yin Hui Cheok)

\*Corresponding author