

# Effects of Priming Rice Seeds with Decoyinine on Fitness Traits and Virus Transmission Ability of the Small Brown Planthopper, *Laodelphax striatellus*

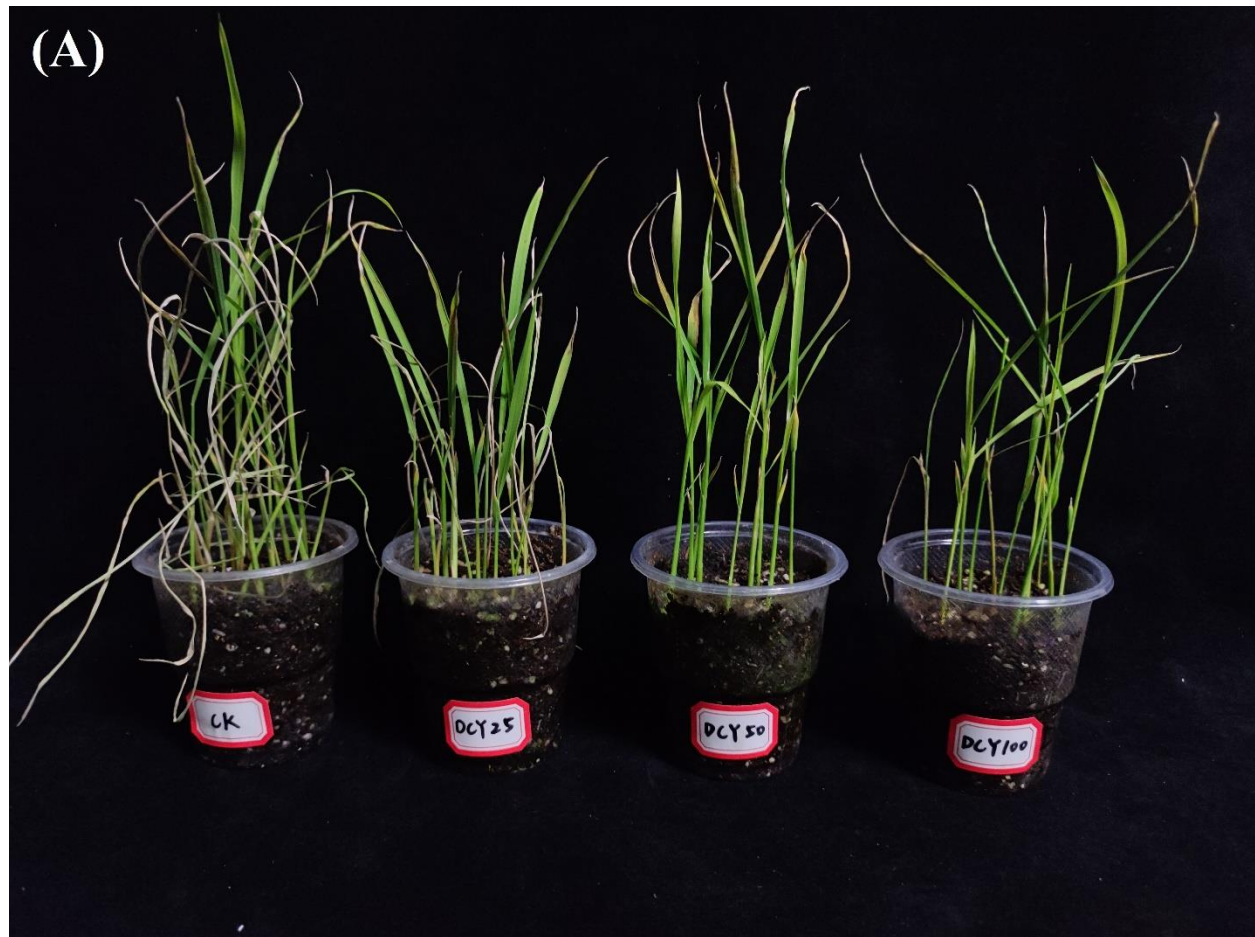
Amir Zaman Shah<sup>1</sup>, Yuanyuan Zhang<sup>1</sup>, Wei Gui<sup>1</sup>, Ming Shi Qian<sup>1</sup>, Youxin Yu<sup>1</sup>, Gang Xu<sup>1,2,3\*</sup> and Guoqing Yang<sup>1,2,3\*</sup>

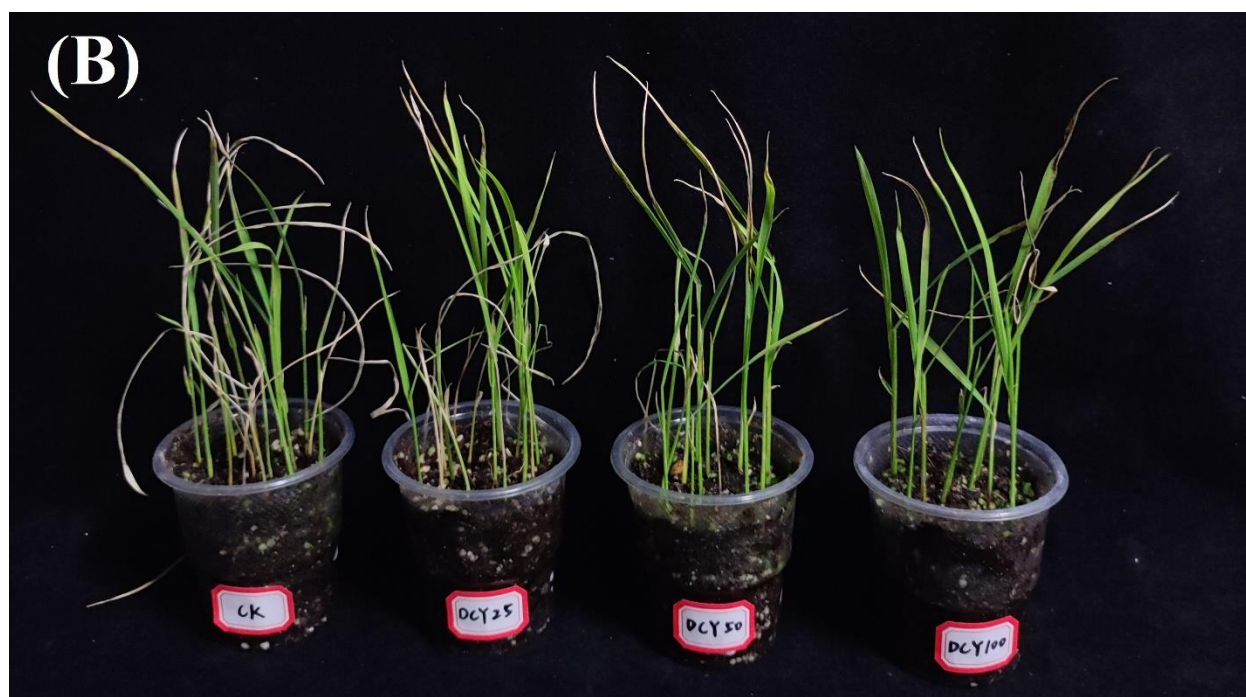
<sup>1</sup> College of Plant Protection, Yangzhou University, Yangzhou 225009, China

<sup>2</sup> Jiangsu Co-Innovation Center for Modern Production Technology of Grain Crops, Yangzhou University, Yangzhou, China

<sup>3</sup> Joint International Research Laboratory of Agriculture and Agri-Product Safety, the Ministry of Education of China, Yangzhou University, Yangzhou, China

\*Correspondence: gqyang@yzu.edu.cn (G.-Q. Y), xugang@yzu.edu.cn (G. X.)





**Figure S1.** (A) Rice seedlings after Non-RSV SBPH feeding, the label represents different concentrations of DCY. (B) Rice seedlings after RSV SBPH feeding, the label represents different concentrations of DCY.

**Table S1.** Two-way analysis of variance for biological parameters of SBPH fed on DCY-treated rice under laboratory conditions.

Biological Parameters		df	Mean Square	F	P
Female Body weight	SBPH (A)	1	0.380	29.059	<0.001
	DCY treatment (B)	3	1.174	89.749	<0.001
	Interaction (A×B)	3	0.042	3.241	0.024
	Error	152	0.013		
Male Body weight	SBPH (A)	1	0.039	4.079	0.045
	DCY treatment (B)	3	0.981	102.471	<0.001
	Interaction (A×B)	3	0.045	4.671	0.004
	Error	152	0.010		
Honeydew weight	SBPH (A)	1	0.156	20.981	<0.001
	DCY treatment (B)	3	0.362	48.619	<0.001
	Interaction (A × B)	3	0.010	1.309	0.274
	Error	152	0.007		
Fecundity	SBPH (A)	1	11645.156	338.901	<0.001
	DCY treatment (B)	3	16362.440	476.185	<0.001
	Interaction (A × B)	3	1290.506	37.557	<0.001
	Error	152	34.362		
Nymphal Survival	SBPH (A)	1	2738.000	27.797	<0.001
	DCY treatment (B)	3	246.000	2.497	0.061
	Interaction (A × B)	3	56.667	0.575	0.632
	Error	192	98.5		

SBPH feeding on DCY treatment (0, 25, 50, and 100 mg DCY L<sup>-1</sup>) water solution. Significant differences at  $P < 0.05$  by using Tukey's HSD test.