



杨亦桦

yhyang@njau.edu.cn

025-84396062

B408

对

培

2002.09–2005.06 对 全 对 , 对

1991.09–1994.06 对 全 对 , 对

1987.09–1991.06 对 全 对 , 对对

2010.01- 对 全 对 对 ,

2011.02-2011.07 Rothamsted Research BCH, 对

2004.07-2009.12 对 全 对 对 ,

2002.12-2003.11 Rothamsted Research BCH, 对

1997.01-2004.06 对 全 对 对 ,

1994.08-1996.12 对 全 对 对 ,

对 培  
对 对

1. 2018.07-2020.12 发
2. 2016.07-2020.12 培 国 培
3. 2016.01-2019.12 对 子培

1. Yayun Zuo, Huanhuan Ma, Wenjie Lu, Xingliang Wang, Shuwen Wu, Ralf Nauen, Yidong Wu and . Identification of the ryanodine receptor mutation I4743M and its contribution to diamide insecticide resistance in *Spodoptera exigua* (Lepidoptera: Noctuidae). *Insect Science*. doi.org/10.1111/ 1744-7917.12695.
2. Yayun Zuo, Jianlei Huang, Jing Wang, Yue Feng, Tiantian Han, Yidong Wu and \*. 2018. Knockout of a P-glycoprotein gene increases susceptibility to abamectin and emamectin benzoate in *Spodoptera exigua*. *Insect Molecular Biology* 27(1):36-45.
3. Laipan Liu, Meijing Gao, Song Yang, Shaoyan Liu, Yidong Wu, Yves Carrière and \*. 2017. Resistance to *Bacillus thuringiensis* toxin Cry2Ab and survival on single-toxin and pyramided cotton in cotton bollworm from China. *Evolutionary Applications* 10: 170-179.
4. Yayun Zuo, Hui Wang, Yanjun Xu, Jianlei Huang, Suwen Wu, Yidong Wu and \*. 2017. CRISPR/Cas9 mediated G4946E substitution in the ryanodine receptor of *Spodoptera exigua* confers high levels of resistance to diamide insecticides. *Insect Biochemistry and Molecular Biology* 89:79-85.
5. Wunan Che, Jianlei Huang, Guan Fang, Yidong Wu, . 2015. Cross-resistance and Inheritance of Resistance to Emamectin Benzoate in *Spodoptera exigua* (Lepidoptera: Noctuidae).

Journal of Economic Entomology 108(4): 2015-2020.

6. Haonan Zhang Bing Du Dawn M Higginson Yves Carriere Yidong Wu. 2014. Cadherin mutation linked to resistance to Cry1Ac affects male paternity and sperm competition in *Helicoverpa armigera*. Journal of Insect Physiology 70:67-72
7. Wunan Che Tian Shi Yidong Wu 2013. Insecticide Resistance Status of Field Populations of *Spodoptera exigua* (Lepidoptera: Noctuidae) From China. Journal of Economic Entomology 108