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Research Interests :

Regional Infestation regularity of *Lygocoris lucorum*

Overseas immigration and population trend of migratory insect disaster monitoring using satellite

Resistance mechanism for *Helicoverpa armigera* Against the Transgenic Bt Cotton

Publications

1. Gao Y., K. Wu#, F. Gould, and Z. Shen. 2009. Cry2Ab tolerance response of *Helicoverpa armigera* populations from Cry1Ac cotton planting region. *Journal of Economic Entomology*. 102: 1217-1223.
2. Yu H., Y. Zhang, K. Wu#, K. Wyckhuys, and Y. Guo. 2009. Flight potential of *Microplitis mediator*, a parasitoid of various lepidopteran pests. *BioControl*. 54: 183-194.
3. Zhang Y., K. Wu#, K. Wyckhuys, and G. Heimpel. 2009. Trade-offs between flight and reproduction in the soybean aphid, *Aphis glycines* Matsumura (Hemiptera: Aphididae). *Journal of Economic Entomology*. 102: 133-138.
4. Feng H, X. Wu#, B. Wu, and K. Wu. 2009. Seasonal migration of *Helicoverpa armigera* (Lepidoptera: Noctuidae) over the Bohai Sea. *Journal of Economic Entomology*. 102: 95-104.
5. Zhao X., K. Wu#, G. Liang and Y. Guo. 2009. Modified female calling behavior in Cry1Ac-resistant *Helicoverpa armigera* (Lepidoptera: Noctuidae). *Pest Management Science*. 65(4): 353-357.
6. Lu Y., K. Wu#, Wyckhuys K., and Y. Guo. 2009. Potential of mungbean, *Vigna radiatus* as a trap crop for managing *Apolygus lucorum* (Hemiptera: Miridae) on Bt cotton. *Crop Protection*. 28: 77-81.
7. Liu Y., K. Wu#, and Y. Guo. 2009. Population structure and introduction history of pink bollworm (*Pectinophora gossypiella*, Saunders) in China. *Entomologia Experimentalis et Applicata*. 130: 160-172.
8. Liu Y., Y. Liu, K. Wu#, K. Wyckhuys, and F. Xue. 2008. Lethal and sublethal effects of endosulfan on *Apolygus lucorum* Meyer-Dür (Hemiptera: Miridae). *Journal of Economic Entomology*. 101(6): 1805-1810.
9. Han L., P. Liu, K. Wu#, Y. Peng, and F. Wang. 2008. Population dynamics of *Sesamia inferens* on transgenic rice expressing Cry1Ac and CpTI in southern China. *Environmental Entomology*. 37: 1361-1370.

10. Wu# K., Y. Lu, H. Feng, Y. Jiang, and J. Zhao. 2008. Suppression of cotton bollworm in multiple crops in China in areas with Bt toxin-containing cotton. *Science*. 321(5896): 1676-1678.
11. Wan P., K. Wu#, M. Huang, D. Yu, and J. Wu. 2008. Population dynamics of common cutworm, *Spodoptera litura* Fabricius, on Bt cotton in the Yangtze River valley of China. *Environmental Entomology*. 37(4): 1043-1048.
12. Feng H., X. Zhao, X. Wu, B. Wu#, K. Wu, D. Cheng, and Y. Guo. 2008. Autumn migration of the oriental armyworm moth, *Mythimna separata* (Lepidoptera: Noctuidae) over the Bohai Sea in Northern China. *Environmental Entomology*. 37 (3) : 774-781.
13. Zhao X., K. Wu#, and Y. Guo. 2008. Altered mating behavior associated with Cry1Ac-resistance in *Helicoverpa armigera* (Lepidoptera: Noctuidae). *Journal of Applied Entomology*. 132: 360-365.
14. Zhang Y., L. Wang, K. Wu#, K. Wyckhuys, and G. Heimpel. 2008. Flight performance of the soybean aphid, *Aphis glycines* Matsumura (Hemiptera: Aphididae) under different temperature and humidity regimes. *Environmental Entomology*. 37(2): 301-306.
15. Lin# K., K. Wu, Y. Zhang, and Y. Guo. 2008. Naturally occurring populations of *Bemisia tabaci*, biotype B and associated natural enemies in agro-ecosystem in Northern China. *Biocontrol Science & Technology*. 18 : 169-182.
16. Zhao X., K. Wu#, and Y. Guo. 2008. Oil-soluble dyes in larval diet marking *Helicoverpa armigera* (Lepidoptera: Noctuidae). *Entomologia Experimentalis et Applicata*. 126 : 256-260.
17. Liang G., K. Wu#, H. Yu, K. Li, X. Feng, and Y. Guo. 2008. Changes of inheritance mode and fitness in *Helicoverpa armigera* (Lepidoptera: Noctuidae) along with its resistance evolution to Cry1Ac toxin. *Journal of Invertebrate Pathology*. 97:142-149.
18. Lu Y., K. Wu#, Y. Guo. 2008. Species composition and seasonal abundance of pestiferous plant bugs (Hemiptera: Miridae) on Bt cotton in China. *Crop Protection*. 27 : 465-472.
19. Liang G., K. Wu#, and Y. Guo. 2008. Diapause, cold hardiness and flight ability of Cry1Ac-resistant and -susceptible strains of *Helicoverpa armigera* (Lepidoptera: Noctuidae). *European Journal of Entomology*. 104: 699-704.
20. Liu Y., Z. Yang, and K. Wu#. 2007. Eight polymorphic microsatellite markers developed in the green leaf bug, *Lygus lucorum* Meyer-Dur (Hemiptera: Miridae). *Molecular Ecology Note*. 7: 29-31.
21. Han L., K. Wu#, Y. Peng, F. Wang, and Y. Guo. 2007. Efficacy of transgenic rice expressing Cry1Ac and CpTI against the rice leaffolder, *Cnaphalocrocis medinalis* (Guenée). *Journal of Invertebrate Pathology*. 96:71-79.
22. Lu Y., K. Wu#, and Y. Guo. 2007. Flight potential of the green plant bug, *Lygus lucorum* Meyer-Dür (Heteroptera: Miridae). *Environmental Entomology*. 36(5):1007-1013.
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26. Li Y., K. Wu#, Y. Zhang, and G. Yuan. 2007. Degradation of Cry1Ac protein within transgenic *Bacillus thuringiensis* rice tissues under field and laboratory conditions. *Environmental Entomology*. 36(5): 1275-1282.
27. Wu# K. 2007. Monitoring and management strategy for *Helicoverpa armigera* resistance to Bt cotton in China. *Journal of Invertebrate Pathology*. 95: 220-223.
28. Luo S., K. Wu#, Y. Tian, G. Liang, X. Feng, J. Zhang, and Y. Guo. 2007. Cross-resistance studies of Cry1Ac-resistant strains of *Helicoverpa armigera* (Lepidoptera: Noctuidae) to Cry2Ab. *Journal of Economic Entomology*. 100(3): 909 - 915.
29. Zhao X., K. Wu#, and Y. Guo. 2007. Comparisons of calling behavior in *Helicoverpa armigera* populations from different geographical climate regions. *Journal of Applied Entomology*. 131:684-689.
30. Liu Y., K. Wu#, and Y. Guo. 2006. Isolation and characterization of polymorphic microsatellite loci from the pink bollworm *Pectinophora gossypiella* (Saunders) (Lepidoptera: Gelechiidae). *Molecular Ecology Note*. 6: 847-849.
31. Han L., K. Wu#, Y. Peng, F. Wang, and Y. Guo. 2006. Evaluation of transgenic rice expressing Cry1Ac and CpTI against *Chilo Suppressalis* and intrapopulation variation in susceptibility to Cry1Ac. *Environmental Entomology*. 35(5): 1453-1459.
32. Feng H., K. Wu#, Y. Ni, D. Cheng, and Y. Guo. 2006. Nocturnal migration of dragonflies over the Bohai Sea in northern China. *Ecological Entomology*. 31: 511-520.
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