Ling MENG

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Research interest ： I am interested in crop plant-herbivore insect interactions, with an emphasis on insect life history, behavior and ecology. I also hold a great appeal for biological control by using insect natural enemies.

Biography

EDUCATION:

Bachelor of Agronomy: Plant Protection, 1982, ShiHezi University, Xinjiang, P. R. China.

Master of Science: Zoology, 2000, Xinjiang Agricultural University, P.R. China.

PROFESSIONAL EXPERIENCE

Research assistant: 1982-86, Research Institute of Agronomy, Academy of Sciences of Xinjiang Agricultural Reclamation, China.

Lecture: 1987-1993, Xinjiang Agricultural University, China.

Associate Prof. 1994-2000, Xinjiang Agricultural University, China.

Prof. 2001-2002, Xinjiang Agricultural University, China.

Prof. 2002- , Nanjing Agricultural University, China.

Research Projects

1. 2017-2021. **Natural Enemy Products and BioControl technique**. National Key R＆D Program of China (2017YFD0201000)
2. 2012-15: **Impact Evaluation of Climate Change on Agricultural Crops.** Key Project of China Department of Agriculture (2012BAC19B).

3. 2010-2015. **Biological control of Crop Pests**. The Special Fund for Agro-Scientific Research in the Public Interest of China (201103002).
4. 2009-2013: **Impacts of Climate Change on pest animals, pathogens and weeds of Agricultural Crops**. The Special Fund for Agro-Scientific Research in the Public Interest of China (200903003).
5. 2016-2019： **Kin selection in Cooperative Brood Tending Behaviors in quasi-social parasitoids.** Natural Science Foundation of China (NSFC 31570389)
6. 2016-2018: **Technique and Products of Control Alien Invasive Organisms.** National Key R&D Program of China (2016YFC1201200)
7. 2011-15**: Impact evaluation of Climate change on agricultural crops.** National Key R&D Program of China.
8. 2010-2015. **Biological control of Crop Pests.** The Special Fund for Agro-Scientific Research in the Public Interest of China (201103002).
9. **2009-2013. Impacts of Climate Change on Pest Animals, Pathogens and Weeds of Agricultural Crops.** The Special Fund for Agro-Scientific Research in the Public Interest of China (200903003).

Selected publications

1. RECENT PUBLICATIONS IN INTERNATIONAL JOURNALS

1) X. Li, B. Li, **L. Meng***. 2017. Belowground nematode herbivory of resistant soybean cultivars impairs the performances of an aboveground caterpillar and its parasitoid. ***Ecological Entomology***, 42(6): 712-720.
2) X. Li, B. Li, G. Xing, **L. Meng***. 2017. Effects of soybean resistance on variability in life history traits of the higher trophic level parasitoid *Meteorus pulchricornis* (Hymenoptera: Braconidae). ***Bulletin of Entomological Research***, 107(1):1-8.
3) Li X, Zhu L, Meng **L,** Li B. 2017. Brood size and sex ratio in response to host quality and wasp traits in the gregarious parasitoid *Oomyzus sokolowskii* (Hymenoptera: Eulophidae). ***PeerJ***, 2919. DOI 10.7717/peerj.
4) Song H, Meng **L,** Li B. 2017. Fitness consequences of body-size-dependent parasitism in a gregarious parasitoid attacking the 7-spot ladybird, *Coccinella septempunctata* (Coleoptera:

Coccinellidae). ***Biological Control***, 2017, 113: 73-79.

5) Zhou J, **Meng L**, Li B. 2017. Defensive behaviors of the Oriental armyworm *Mythimna separata* in response to different parasitoid species (Hymenoptera: Braconidae). ***PeerJ*** 5, 3690: e3690; DOI 10.7717/peerj.
6) Li X, **Meng L**, Xing G, Li B*. Constitutive and induced resistance in soybean interact to affect the performance of an herbivore and its parasitoid. ***Biological Control*** , 2016,101: 145–151
7) Hou X, **Meng L**., Pan G., Li L, Li B. 2015. Biochar amendment to soils impairs developmental and reproductive performances of a major rice pest *Nilaparvata lugens* (Homopera: Delphacidae). ***J. Appl. Entomol***. doi: 10.1111/jen.12218.
8) Tang X, **Meng L,** Kapranas A, Xu F, Hardy Ian, LI B**.** 2014. Mutually beneficial host exploitation and ultra-biased sex ratios in quasisocial parasitoids. ***Nature Communications,*** 5:4942. DOI: 10.1038/ncomms5942.
9) Guo H, **Meng L,** Wang Y, Wang Y, Zheng L, Li B**.** 2014. Oviposition Behavior of the Predatory Midge *Aphidoletes aphidimyza* in Response to Aphid Patch Quality. ***J Insect Behav*****,** 27: 816–825.
10) Zhang B, Li B, **Ling Meng**. 2014. Effects of self-superparasitism on developmental interactions between the solitary parasitoid wasp, *Meteorus pulchricornis* Weasmeal and sugar beet armyworm, S*podoptera exigua* Hübner. ***Journal of Insect Science***, 14(103).
11) Sheng S, Feng S, **Meng L**, Li B. 2014. Departure mechanisms for host search on high density patches in the parasitoid *Meteorus pulchricornis* (Wesmael) (Hymenoptera: Braconidae). ***Journal of Insect Science***, 14, 57: 1032-1036.
12) Cao Z, Wang H, **Meng L**, Li B. 2011. Risk to nontarget plants from *Ophraella communa* (Coleoptera: Chrysomelidae), a potential biological control agent of alien invasive weed *Ambrosia artemisiifolia* (Asteraceae) in China. ***Appl Entomol Zool.*** 46: 375–381.
13) Chen R, **Meng L,** Li B. 2011. Host preference between symbiotic and aposymbiotic *Aphis fabae* in aphid parasitoid, *Lysiphlebus ambiguus*. ***Journal of Insect Science,*** 11: 1-13. DOI: 10.1673/031.011.8101.
14) Chen R, **Meng L**, Li B. 2010. Effects of Aposymbiotic and Symbiotic Aphids on Parasitoid Progeny Development and Adult Oviposition Behavior Within Aphid Instars. ***Environ. Entomol.*** 39(2): 389-395; DOI: 10.1603/EN08312.

2. Books

Meng L. Insecta. In: Xu H, Qiang S. Eds. ***China Invasive Alien Species***. Beijing: Science Press. Pp. 465-630.