

- Fang HY, Zheng BZ, Wang JH, Yang XY, Tan HY, 2000. The occurrence regulaty of *Microplitis mediator* in 33^B cotton. *China Cotton*, 27(3): 29. [房慧勇, 郑丙占, 王敬军, 杨晓玉, 谭焕云, 2000. 新棉 33^B 中红侧沟茧蜂发生规律初探. 中国棉花, 27(3): 29.]
- Hang SB, Huang DL, Wu DZ, 1989. Studies on food consumption and development of *Chilo suppressalis* parasitied by *Apanteles chilonis*. *Journal of Jiangsu Agricultural College*, 10(3): 33–36. [杭三保, 黄东林, 吴达璋, 1989. 二化螟绒茧蜂对寄主二化螟幼虫取食量和生长发育的影响. 江苏农学院学报, 10(3): 33–36.]
- Jiang JX, Wang KW, Jiang ZR, 2003. Bionomics of *Microplitis* sp. (Hymenoptera), and the effect of parasitism on the development and food consumption of *Spodoptera litura* larvae. *Journal of Shanghai Jiaotong University (Agricultural Science)*, 21(2): 125–130. [蒋杰贤, 王奎武, 蒋祝瑞, 2003. 斜纹夜蛾侧沟茧蜂生态学特征及寄生对寄主发育和取食的影响. 上海交通大学学报(农业科学版), 21(2): 125–130.]
- Li JC, Yan FM, Coudron TA, 2006. Field release of the parasitoid *Microplitis mediator* (Hymenoptera: Braconidae) for control of *Helicoverpa armigera* (Lepidoptera: Noctuidae) in cotton fields in Northwestern China's Xinjiang Province. *Environ. Entomol.*, 35(3): 694–699.
- Qin QL, Gong H, Ding C, 2000. Embryogenesis and larval development of *Microplitis mediator* parasitizing *Mythimna separata* and occurrence of teratocytes. *Acta Entomologica Sinica*, 43(3): 280–284. [秦启联, 龚和, 丁翠, 2000. 中红侧沟茧蜂在粘虫体内的发育及畸形细胞的发生. 昆虫学报, 43(3): 280–284.]
- Qin QL, Wang FH, Gong H, 1999. Actions on teratocytes in coordinating the relationship between a parasitoid and its host-an overview. *Acta Entomologica Sinica*, 42(4): 431–438. [秦启联, 王方海, 龚和, 1999. 畸形细胞在协调寄生蜂同其寄主相互关系中的作用. 昆虫学报, 42(4): 431–438.]
- Shi ZH, Liu SS, 1999. Parasitism preference of *Cotesia plutellae* to host age and the effect of parasitism on the development and food consumption of the host *Plutella xylostella*. *Journal of Plant Protection*, 26(1): 25–29. [施祖华, 刘树生, 1999. 菜蛾绒茧蜂的寄生选择性及寄生对寄主发育和取食的影响. 植物保护学报, 26(1): 25–29.]
- Wang DA, Nan LZ, Sun X, Li XZ, 1984. The research on bionomics of *Helicoverpa armigera* young larvae parasitoid- *Microplitis* sp. *Natural Enemies of Insects*, 6(4): 211–212. [王德安, 南留柱, 孙洗, 李小珍, 1984. 棉铃虫低龄幼虫寄生蜂-侧沟茧蜂生物学研究. 昆虫天敌, 6(4): 211–212.]
- Yin LH, Wang CZ, Qin JD, 2001. Polydnavirus and its functions in parasitoid-host interactions. *Acta Entomologica Sinica*, 44(1): 109–118. [尹丽红, 王琛柱, 钦俊德, 2001. 多分 DNA 病毒及其在寄生蜂与寄主关系中的作用. 昆虫学报, 44(1): 109–118.]
- Zhejiang Agricultural University, 1982. *Agricultural Entomology* (second edition). Shanghai: Shanghai Science and Technologe Press. 249–259. [浙江农业大学, 1982. 农业昆虫学(第 2 版). 上海科学技术出版社. 249–259.]



危害枸杞的棉蚜 *Aphis gossypii* Glover

棉蚜 *Aphis gossypii* Glover 是一种常见害虫, 主要危害次生寄主棉花、玉米、大豆、西瓜、黄瓜、南瓜、茄子、西葫芦、月季、核桃、丁香、金橘等, 也危害原生寄主石榴、花椒、木槿和鼠李等。危害枸杞的蚜虫种类多为棉蚜, 无翅孤雌蚜体型宽椭圆形, 活体淡墨绿色, 腹管黑色, 玻片标本腹部背片 ~ 背中斑不显, 无愈合的大背斑(区别于豆蚜)。照片 2016 年 7 月 28 日拍摄于新疆精河枸杞叶片。

(张润志 中国科学院动物研究所)