
口頭発表

[D] 病理学・微生物の防除

2024年3月29日(金) 17:00 ~ 17:45 D会場(白檜2)

17:30 ~ 17:45

[D-26] Developmental strategy for *Beauveria bassiana* ERL836 GR and WP for thrips management

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Management of thrips vectoring terrible plant viruses encounters big challenges due to their serious resistances against chemical pesticides. In this work, as an alternative with targetting soil-dwelling larval and pupal stages, *Beauveria bassiana* ERL836 GR and WP have been developed based on solid culture and formulation technology, and successfully registered and commercialized with guaranteeing four-year of circulation. Farmers' reputation for ERL836 is very high since 2018 and now it becomes a No. 1 steady seller in this local market. ERL836 formulations could be directly applied to non-tillage soil before transplanting or drenched in the middle of growing. The whole genome of ERL836 was fully sequenced and different from other *B. bassiana* isolates in genome levels. When infecting thrips, ERL836 strongly up-regulates plasma membrane-mediated transporter activity and fatty acid degradation pathway including cytochrome P450. Finally, a concept of e-biopesticide is suggested for successful commercialization of microbial insecticides.