

## 2540: Competition of the cotton bollworm (*Helicoverpa armigera*), corn earworm (*Helicoverpa zea*) and fall armyworm (*Spodoptera frugiperda*) on non-Bt corn

Wednesday, September 28, 2016
11:30 AM - 11:45 AM

♥ Convention Center - Room W225 B

Helicoverpa armigera, Spodoptera frugiperda and Helicoverpa zea (Boddie) (Lepidoptera: Noctuidae) are among the main pests of corn crop in Brazil and are characterized by having the same feeding guild during the reproductive stage of the crop. The intraguild competition of these noctuides was evaluated through the survival of each specie under field conditions, on non-Bt corn. Different competition scenarios, alternating the larval stadium of development, were carried out in corn ear. The survival of *H. armigera* in competition with the other species was significantly low compared to the control. *H. zea* showed high aggressive behavior and high rate of cannibalism. Their survival was reduced when it was competing against *S. frugiperda* in the same size. The survival of *S. frugiperda* remained high in the different scenarios of competition, being reduced when it was in a lower development than *H. zea* and *H. armigera*. In general, *S. frugiperda* demonstrates advantage in the competition against *H. zea* and *H. armigera* on non-Bt corn.

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1 de 1 22/02/2017 12:27