

❖ Research publication and Posters presentation

➤ **Paper published:**

- 1) Jigar V. Shah, Shailesh B Lad, Rakeshkumar Yadav, Sanjay S Ingle (2016) “ Activity of two indigenous *Bacillus thuringiensis* isolates on lepidopteran insect pest *Amsacta albistriga* (Arctiidae)” *International Journal of Applied Research*; 2(2): 20-23.

➤ **Papers in communication :**

- 1) Jigar V. Shah, Rakeshkumar Yadav, Sanjay S Ingle (2017) Engineered Cry1Ac-Cry9Aa and Cry1Ac-Cry9AaMod hybrid *Bacillus thuringiensis* delta-endotoxins with improved insecticidal activity against *Helicoverpa armigera*. Under revision *Archives of Microbiology*.
- 2) Jigar V. Shah, SS Ingle (2017) Nanoencapsulation of recombinant Bt toxin in chitosan-TPP nanoparticles with efficient insecticidal activity to *H. armigera*. In communication to *Biological control*.
- 3) Jigar V. Shah, Darshna Solanki, SS Ingle (2017) Persistence of insecticidal activity of *Btk HD-1* microencapsulated formulation to *H.armigera* in *C.cajan* field In communication *Journal of invertebrate pathology*.
- 4) Jigar V. Shah, SS Ingle (2017) Insecticidal activity of rapid synthesized of silver nanoparticles against *Spodoptera litoralis*. In communication

➤ **Poster presentation :**

- 1) Jigar V. Shah, Sanjay S. Ingle (2016) “ Resistance management in *Helicoverpa armigera* (Hubner) by recombinant Cry1Ac - entomocidal toxin of *Bacillus thuringiensis* ” XIV Meeting of the IOBC-WPRS Working Group Biological Control of Fungal and Bacterial Plant Pathogens. Biocontrol and Microbial Ecology, 12-15 September 2016, Berlin, Germany.

- 2) Jigar V. Shah, Sanjay S. Ingle (2015) Box- Behnken design analysis of *Btk HD-1* spore- crystal formulation by microencapsulation method “International Symposium on “Emerging Discoveries in Microbiology” December 7-10, 2015
Venue: Convention Center, JNU, New Delhi.

- 3) Jigar V. Shah , Shailesh B. Lad, Rakeshkumar Yadav , Sanjay S. Ingle (2015)
Susceptibility of lepidopteran *Amsacta albistriga* (Arctiidae) to *Bacillus thuringiensis kurstaki HD-1* in UGS-SAP- National conference in Recent Trends in Microbial biotechnology -2015, Osmania University, Hyderabad, India .