

International Conference on  
**DIABETES AND HEALTHCARE**  
 &  
 International Conference on  
**FOOD SCIENCE AND TECHNOLOGY**  
 June 25-26, 2018 | Toronto, Canada

### Effect of Malathion on yield and AMF colonization in *Coriandrum sativum* (Coriander)

Tariq Ahmad Bhat<sup>2</sup>, Showkat Hussain Mir<sup>1</sup>, Avinash Tiwari<sup>1</sup> and Mansha Fatima<sup>3</sup>

<sup>1</sup>Jiwaji University, India

<sup>2</sup>Sher-e-Kashmir University of Agricultural Sciences and Technology, India

<sup>3</sup>Aligarh Muslim University, India

Malathion is a non-systemic broad spectrum organophosphate insecticide which is used for controlling sucking and chewing insects on fruits and vegetables. It has been analyzed that effects of different concentrations of malathion on yield and AMF colonization in *Coriandrum sativum*. It was found that, at recommended and low dosages, coriander does not show any significant reduction in yield and AMF infection percentage, but higher concentrations reduced yield and AMF infection percentage of coriander. After I sampling, the maximum AMF infection percentage was observed in Control and M ½ ND (62% and 52% respectively) and least was observed in M2ND

(i.e., 38%). After II sampling, the AMF infection percentage decreased in MND (i.e., from 50% to 48%) and M2ND (i.e., from 38% to 36%) plants. In Control plants the AMF percentage increased from 62% to 68%, although M ½ ND also recorded a slight increase in AMF infection percentage from 52% to 54%. After III sampling, the maximum AMF percentage colonization was observed in Control (74%), M2ND (42%) treatment showed least AMF percentage colonization. Similar trend was also observed after 95 days (IV sampling) i.e., maximum in Control (76%) and least in M2ND (48%).

#### Biography

Tariq Ahmad Bhat is pursuing PhD from SKUAST-K in Department of Microbiology. He has qualified JRF, NET, and SRF. He is the member of UGC board of studies for Kashmir University. Along with the publishing several papers in reputed journals he has published 2 books.

tariqbhatkash@yahoo.com

#### Notes: