Mycokey

Integrated and innovative key actions for mycotoxin management in the food and feed chain

Lay summaries

Knowledge transfer to stakeholders











Biocontrol

BIOCONTROL of Fusarium graminearum sensu stricto, as a tool to reduce deoxynivalenol accumulation in wheat





Biocontrol

Fusarium graminearum

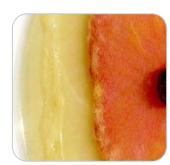
APPROACH

A strategy to reduce the impact of mycotoxins in the food and feed chains is to use biofungicides that can complement other strategies to reduce fungal growth and toxin accumulation













Biocontrol

Fusarium graminearum

OUTCOMES

Two formulated biocontrol agents were able to reduce incidence, severity and DON accumulation on durum wheat under field conditions.
Under greenhouse conditions biocontrol agents modulate resistance to F. graminearum through phytohormone production.

Bacillus velezensis RC 218 and Streptomyces albidoflavus RC 87B effectively reduced FHB incidence (up to 30%), severity (up to 25%) and DON accumulation (up to 51%) on durum wheat under field conditions.



Palazzini, J, Roncallo, P., Cantoro, R, Chiotta, M, Yerkovich, N, Palacios, S., Echenique, V, Torres, A, Ramírez, M, Karlovsky, P and Chulze, S. 2018 Toxins 10, 88; doi:10.3390/toxins10020088

