Meeting report

MycoKey App: An ICT Solution to Facilitate Mitigation of Mycotoxin Risks

Van der Lee T.A.J. 1,\*, Molendijk L.P.G. 1, Audenaert K. 2, landschoot S. 2, Verwaeren J. 2, Leggieri M.C. 3, Paola B. 3, Perrone G. 4, Logrieco A.F. 4 and Been T.H. 1

1 Wageningen University & Research, Wageningen, The Netherlands

2 Ghent University, Ghent, Belgium

3 Università Cattolica del Sacro Cuore, Piacenza, Italy

4 National Research Council, Institute of Sciences of Food Production, Bari, Italy

\* Correspondence: [theo.vanderlee@wur.nl](mailto:theo.vanderlee@wur.nl)

**Abstract:** The MycoKey app is developed as an ICT solution to facilitate mycotoxin risks mitigation by various stakeholders in the chain. Different work packages of MycoKey generate, validate and integrate knowledge that would provide useful information for risk assessment and would help to raise awareness, alert and specifically notify stake holders and provide options for mitigation of mycotoxin risks. This knowledge needs to be customized in order to effectively assist stakeholders. The MycoKey app, a mobile accessible platform, will deliver this customized information on a smartphone, tablet or computer. This app will generate a dashboard experience for accessing all relevant information for growers, advisors, grower associations, stakeholders in the production chain as well as policy-makers. It provides information on the risk of mycotoxins and, when required, will suggest management activities to mitigate and reduce risks. The app is user protected by a personal password and data can be private, shared with friends and advisors or anonymized and shared to other stakeholders. Governmental planners and policy makers will have access to shared, public databases and satellite data, as such biomass indices, land-use and mycotoxin risks can be estimated per region. The MycoKey app has different functionalities for smart phone (data entry and retrieval) and computer platforms (data entry and retrieval and analysis). Recalculation using different intervention strategies allows integration of management strategies in the risk model and calculations of “what if” scenarios. We hope to demonstrate the MycoKey app in Ghent for the first time!

**Keywords:** keyword 1; keyword 2; keyword 3 (List three to ten pertinent keywords specific to the article; yet reasonably common within the subject discipline.)