



MYCOHUNT



Rapid Biosensor for the Detection of Mycotoxin in Wheat

Work Package 10: Foreground and IPR management

D10.6. Report

Non-confidential report on the progress to be updated every 6 months

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Submitted by: MFKK – Project coordinator

Prepared by: Mr. Paul Della Tolla – Exploitation
Manager



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Publishable summary

In this document the D10.6 Deliverable of Mycohunt project is summarized. The aim of the project is to develop a cost-effective method to detect infection of mycotoxin deoxynivalenol in wheat grains. In this deliverable, the most important activities and major findings of the project are summarized.

Summary of the project

The Mycohunt project aims at increasing the competitiveness of a large group of SMEs by developing a cost-effective method to detect infection of mycotoxin deoxynivalenol in wheat grains, a major threat to the food and feed sector of the European industry. A group of SME-AGs, covering the two relevant sectors and representing vast number of sector SMEs, have put together this project in order to gain knowledge and resources to further exploit the results of the novel technology proposed by providing a thorough sampling and measurement method of grain.

The economic consequences of mycotoxin infection to animal husbandry and the cost of infected crop to farmers as well as mill and storage house owners are of increasing concern while human health and safety effects are and must be addressed additionally.

Objectives of D10.6 deliverable

The main objective of Work Package 10 is to ensure that the results of MycoHunt are disseminated to a wide audience and to ensure the success of it beyond the project. This is achieved through a number of goals. In order to ensure that non-confidential information about the MycoHunt project and its results are disseminated to as wide and relevant an audience as possible in order to extend the impact of the project results. All consortium members are actively involved in carrying out dissemination activities and they are all contributing with their networks of contacts.



Progress summary of the first 6 months of MYCOHUNT

Achievements of Work Package 1 - Determination of MycoHunt System Specifications

Work Package 1 was successfully completed. Based on the market needs, the system specifications were determined. The outputs of this deliverable is summarized in D1.1. First, the corresponding European regulations and current methods are summarized; essential background information was provided for market analyses. The market need was examined from two sites. On one hand a questionnaire was prepared, which was sent to partners and translated to the languages of the consortium members. The answers were collected continuously and the first results are now summarized. The results of questionnaire survey will be continuously up-dated on the confidential project web page. On the other hand, the market needs were analyzed, based on the experience of consortium members and on available public information. The technical specification of the MYCOHUNT device is also provided in details herein.

Achievements of Work Package 2 - Definition of correlation between DON in grain and DON in air/dust

The most important result of WP2 is Deliverable 2.1 - Laboratory facility for measurements. In this deliverable, the initial activities in the in-house laboratory facilities for dust collection and cleaning cereals are explained. In a second part, this apparatus is used to define particle size and amount of dust collected in fresh harvested wheat. To sum up the results, when the cleaning facility was used, approximately 1.5 % of the sample showed to be smaller than 2.5 mm and this is defined as small grains; when sieved on the vibratory system, 1.5 % of this fraction was found to be smaller than 1 mm.

Achievements of Work Package 3 - Antibody development and characterization

One of the major output of this Work Package is Report 3.1 - DON-immunogens and DON-enzyme labels. First the strategy of the synthesis is explained, followed by a detailed method description for each steps and finally a reference is given.



Another result of Work Package 3 is Deliverable 3.2 – Immunized mice with good response.

In the report, the synthesis methods are explained, followed by the detailed analysis of the results. The immunization of mice with synthesized conjugates is discussed. In the end, a reference list is given.

Achievements of Work Package 4 – Development of the sampling unit

The activities within this Work Package did not start yet.

Achievements of Work Package 5 – Immunosensor development and characterization

The activities within this Work Package did not start yet.

Achievements of Work Package 6 – System integration

The activities within this Work Package did not start yet.

Achievements of Work Package 7 – Validation of the MYCOHUNT system

The activities within this Work Package did not start yet.

Achievements of Work Package 8 – Guideline on prevention methods

The activities within this Work Package did not start yet.

Achievements of Work Package 9 – MYCOHUNT training

Although the activities within this Work Package already started, there are not significant results or deliverables yet.

Achievements of Work Package 10 – Foreground and IP Management

The first result of WP10 is deliverable 10.1 – Construction and maintenance of a public website. In this deliverable, the activities related to the design, creation and maintenance of



the project website were summarized. It contains a public part with major information of the project as well as a restricted area for consortium members with the possibility of up and down load documents and viewing restricted information. The website is updated at every important project related event, but at least in every three month. The address of the website: <http://www.mycohunt.eu>.

Achievements of Work Package 11 – Management of the consortium

The project started on 1st September 2010, and the kick-off meeting was held on 20-21 September 2010. The first M3 technical meeting was organized in Ghent on 30 November 2010. The next general project meeting will be held in Madrid on 8 March 2011, within the organization of the two SME Association partners in Spain.