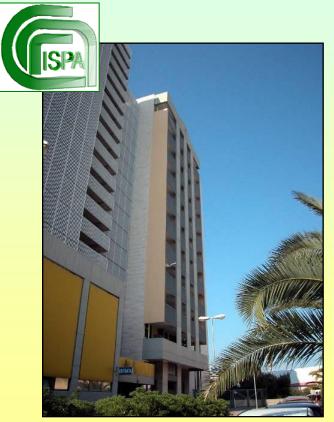
**Monitoring and Reduction of Mycotoxins in** 

## Food and Feed:

## **Outputs of Recent European Research**



# **ANGELO VISCONTI**

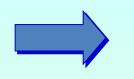
Consiglio Nazionale delle Ricerche Istituto di Scienze delle Produzioni Alimentari CNR-ISPA, Bari

Foggia, 8 Marzo 2010 Quarto workshop su: Gestione dell'innovazione nei sistemi agroalimentari della regione mediterranea

#### From FP6 to FP7

## **RAPID METHODS for MULTIPLEX DETECTION**









New Technologies to Screen **Multiple Chemical Contaminants in Food** 

Development of concept of multiplex detection applied to rapid methods.

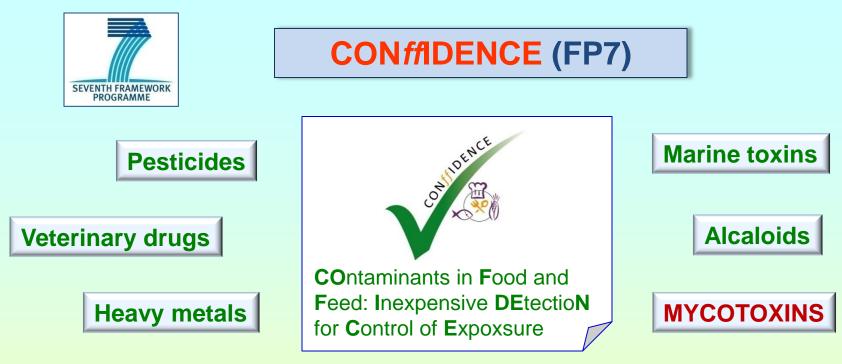
Ability to detect many contaminants in a single analysis.



Validation and application of multiplex technologies addressing regulatory needs. Matrices/contaminants ⇒ Legislation in force Sensitivity ⇒ Maximum permitted levels Validation ⇒ Official control purposes

#### Foggia, 8 Marzo 2010

Quarto workshop su: Gestione dell'innovazione nei sistemi agroalimentari della regione mediterranea



#### www.conffidence.eu

- Collaborative project, thematic priority: Food, Agriculture & Biotechnology
- Duration of the project: 2008-2012
- 18 Partners
- Development of new simplified inexpensive detection methods for chemical contaminants from farm to fork in order to ensure chemical safety and quality in European food supply.
- WorkPackage devoted to *Fusarium toxins*

*Foggia, 8 Marzo 2010 Quarto workshop su: Gestione dell'innovazione nei sistemi agroalimentari della regione mediterranea* 

#### WP 4c: Mycotoxins

Development of multiplex dipstick immunoassay for the detection of *Fusarium* toxins in cereals, cereal-based foods and feeds.





**WP** leader

#### Method development and validation



#### **Antibody production**



Dipstick design and assembly





#### Preparation of test materials



Impact demonstration, exploitation of project results

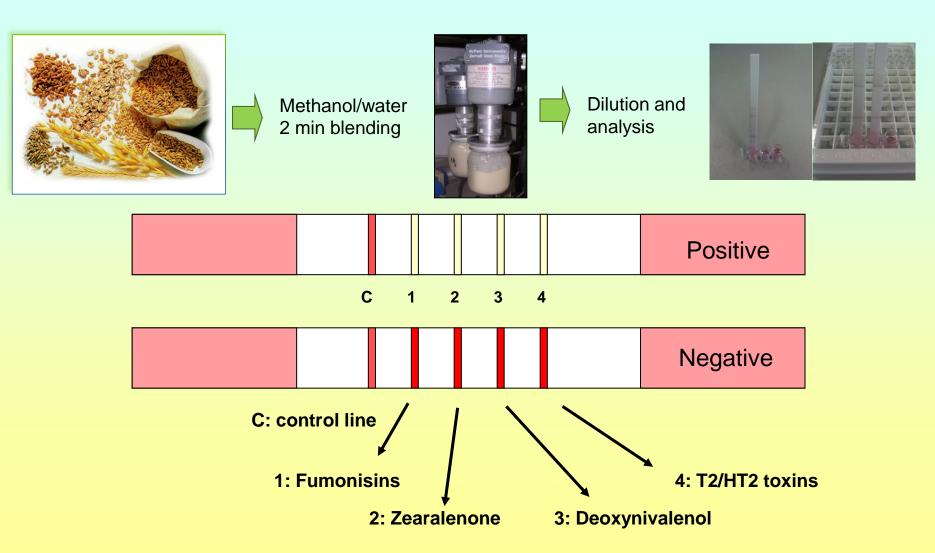


Foggia, 8 Marzo 2010

Quarto workshop su: Gestione dell'innovazione nei sistemi agroalimentari della regione mediterranea

WP 4c, Mycotoxins: activity in progress Development of multiplex dipstick immunoassay for the detection of *Fusarium* toxins in cereals, cereal-based foods and feeds.



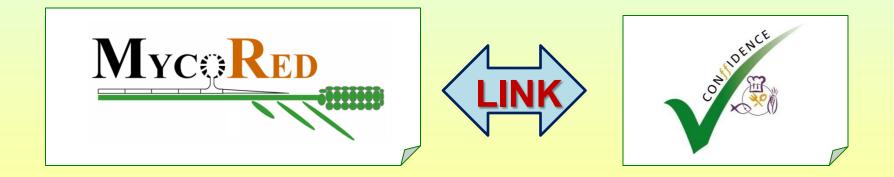




## **European Technology Platform "Food for Life"**

Focuses on effective integration of European research activities in the mutritional, food and consumer sciences and food-chain management.

To address ETP challenges is highly recommended:
✓ to build EU proposal upon results of previous EU research activities
✓ to intensively cooperate with other EU research projects



### **Cross-validation of rapid methods for mycotoxin analysis**