Thursday, February 27

10.00 Registration of Participants
Open Welcome Coffee
10.15 Welcome to the Participants Ettore Novellino, Head Department of Pharmacy
10.30 Nutraceuticals and Functional Foods Alberto Ritieni
11.00 Mycotoxins: a risk not perceived by consumers Carlo Brera
12.00 Mycotoxin and their metabolites implication on human health Isabelle Oswald
12.30 Biosynthesis of mycotoxin: example of patulin Olivier Puel
13.00 Biotechnological approach on mycotoxin detoxification Jordi Manes
13.30-15.00 LUNCH BREAK
15.00 Catabolic fate and bioactivity of mycotoxin conjugates in humans: an integrated approach Chiara Dall’Asta
15.30 Current situation of mycotoxins occurrences and novel approaches to detoxify Christina Schwab
16.00 Toxigenic fungi contamination of nutraceutical sources Antonio Moretti
16.30 Future and Prospective for Horizon 2020 Andreas Moser
20.30 Nutraceutical Wine Dinner

Friday, February 28

9.15 Open Welcome Coffee
9.30 The Benefits of using Orbitrap High Resolution Mass Spectrometry for Mycotoxin analysis in Food Ebru Sarikaya
10.00 Mycotoxin occurrence in food: a new challenge for probiotics Gabriel Vinderola
10.30 The possibility for targeted and untargeted analysis of mycotoxins and other natural products in food supplements and fungal cultures José Diana Di Mavungu
11.30 NMR in nutraceutical and functional foods Antonio Randazzo
12.00 Mycotoxin occurrence in nutraceutical sources: global perspective Antonello Santini
12.30 Conclusions and Remarks
13.00 BRUNCH

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FoodSeg project
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Napoli, Italy
February 27-28, 2014

Mycotoxin in Nutraceuticals and Functional Foods
An emerging risk for consumers
FOODSEG European Project

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Naples 2014
**Mycotoxin risk in Nutraceutical and Functional Foods**

Feed and food are crucial and critical for the health related possible conditions that imply the possible onset of debilitating chronic diseases with a very high social and economic impact. The new horizon ahead is the Nutraceuticals and the Functional Foods. These are concentrates of active molecules from vegetal sources and can provide both prevention and support to pharmaceutical therapy. Nutraceuticals safety and the possible mycotoxin contamination assessment are a new challenge for the future.

The possible mycotoxins contamination in raw materials and/or in transformed foods is a serious risk. The botanical origin of many of these plants originating from areas at risk of mycotoxins occurrence and the processes of extraction and concentration of the active principles represent some of the critical points to be monitored to provide, safe and "mycotoxins free" nutraceutical and/or functional food.

**Mycotoxins and Nutraceutical Sources**

Mycotoxins are a serious threat to human health, especially for the underestimation of the risk associated with their presence in the food chain. The mycotoxins chemical-physical characteristics make them co-extractable during the preparation of nutraceuticals and functional ingredients for the so-called "novel food". Mycotoxins are mainly involved in the aetiology of numerous diseases of the gastro-intestinal tract and their chemical reactivity makes them a challenging area of study to assess new functional activities potentially related to the "novel foods".

**Partecipants:**
- C. Brera - Istituto Superiore Sanità, Roma
- C. Dall’Asta - University of Parma
- J. Diana Di Mavungu-Ghent University, Belgium
- J. Manes - University of Valencia, Spain
- A. Moretti - CNR, Italy
- A. Moser - RTD Service, Austria
- I. Oswald - INRA, France
- O. Pouel - INRA, France
- G. A. Randazzo - University of Napoli Federico II
- A. Ritieni – University of Napoli Federico II
- A. Santini - University of Napoli Federico II
- E. Sarikaya - Thermo Fisher, Italy
- C. Schawab, Biomin, Austria
- G. Vinderola - CONICET, Argentina