



*Feed safety*

e-Newsletter



Issue 7 – October 8, 2010

## Welcome to the 7<sup>th</sup> *Feed safety* Newsletter

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## In the spotlight

### End of the SAFEED-PAP project: Main outputs



The SAFEED-PAP project entitled “Species-specific detection of processed animal proteins in animal feed” (FOOD-CT-2006-036221), closed in May 2010, having increased innovative research concerning feed and feed safety across Europe and around the world, some of which would not have been possible otherwise. The SAFEED-PAP network with its 7 Work Packages and 13 partners started at the end of 2006 under the coordination of the CRA-W in Gembloux, Belgium. The main objective of SAFEED-PAP was to complete the scientific conditions that should allow the repealing of the extended feed ban. During this three year project, the different partners and work packages have been working in the development and validation of methods that should allow reaching the scientific conditions for the amendment of the total feed ban by the use of the inherent differences and complementarities of the various methods in terms of their targets.

The project's main achievements are the development of a PCR kit, the identification and isolation of species specific proteins in order to develop a confirmatory method to detect and identify the selected targets using HPLC and MS/MS, the proposal of approaches for a semi-quantitative method based on NIR microscopy, the development of a combination technique of NIR microscopic method and PCR as well as the development of a method combining advanced microscopy with immuno-assays. The project has also allowed to define the key parameters for the production of a certified reference material. During the SAFEED-PAP project, a PCR method for the detection of bovine DNA in compound feed and a NIR microscopy method for the detection of animal protein in feed have been validated through two inter-laboratory studies. Two International conferences concerning Feed Safety were organised respectively in Belgium and in the Netherland as well as two specific workshops respectively in Lithuania and in China. Scientific papers summarising the outputs of the project have been published or submitted.

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## News from other projects

### EU-China research cooperation in the spotlight at World Expo in Shanghai June 2010



Between 15th to 18th June at the EU-Belgian pavilion at the World Expo in Shanghai, China a highly focused programme of science policy sessions, scientific workshops and media briefings was held to allow participants to showcase joint achievements, exchange success stories and explore new perspectives and collaboration opportunities between European and Chinese research organisations, focusing on the World Expo's theme of "Better City, Better Life". In particular, [CONfIDENCE](#), [EPIZONE](#), [NUE-CROPS](#), [ASEM AQUACULTURE 09](#) and [SEAT](#) were selected for dissemination at a workshop organised by DG RTD and a press briefing focusing on "Feeding cities and citizens with sustainable and safe food". The aim of the workshop was to explore how EU/China collaboration on food research can contribute to deliver sustainable food products for the consumers.

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### CONfIDENCE Open Day

On January 27, 2010 the CONfIDENCE project held its first open day in Noordwijkerhout, directly following the Rapid Methods Europe 2010 Conference (25-27 January 2010 in Noordwijkerhout, the Netherlands). The afternoon started with a number of 5 oral presentations giving an overview of the project activities and achievements thus far. After a coffee break the program continued in the adjacent room, where 19 posters from CONfIDENCE activities were on display as well as a number of posters from related EU projects [BioCop](#), [Feed for Health](#), [Feed Safety platform](#), [MoniQA](#), [MycoRed](#), [PerFood](#), [PHIME](#), [ProSafeBeef](#), [SaFeed-PAP](#) and [SEAFOODplus](#).



In addition, several methods were performed using portable equipment, enabling visitors to get an impression of the steps involved in performing the analytical procedures. Sample cleanup (using fish samples), lateral flow devices (easy to use "dip sticks") and flow cytometry (using a Luminex X100 machine) were exhibited. There was much interest in the methods on display, from scientific as well as industrial stakeholders. Two other methods (requiring large, difficult to transport equipment) were explained using animated slide shows: NIR camera for ergot detection and Surface Plasmon Resonance for marine biotoxins. The combination of posters, hands on activities

and oral presentations proved to be effective in generating interest and stimulating discussions. In total, 28 stakeholders and about 30 project members attended. The presentations and posters presented at the Open Day and a photo impression of the occasion are available on [http://www.confidence.eu/Project\\_output/OpenDay1.php](http://www.confidence.eu/Project_output/OpenDay1.php). The next CONFIDENCE Open Day will be organized in 2011 in the framework of the 5<sup>th</sup> RAFA in Prague – Czech Republic.

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## FeedSafety via an online micrograph collection

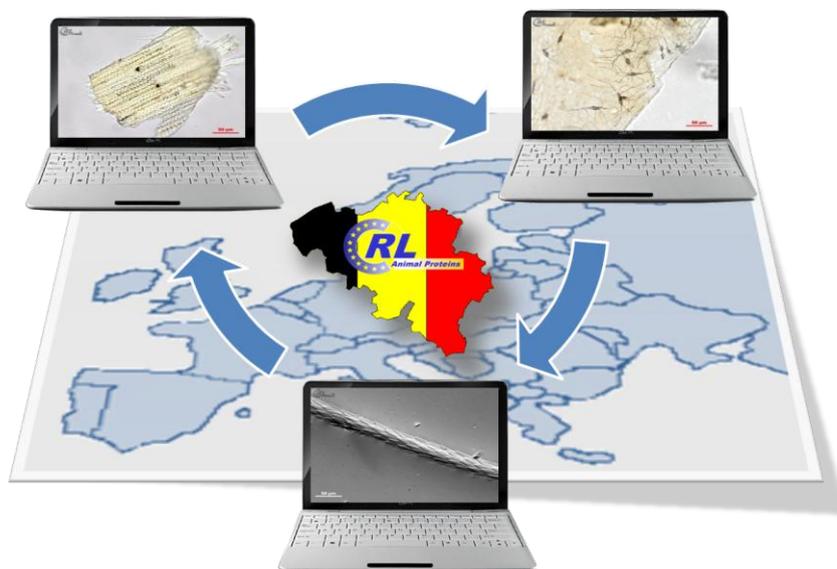
The reputation of the CRA-W feed quality controls in and outside Europe has been firmly established since, in 2006, the Research Centre was given the opportunity to host the Community Reference Laboratory for Animal Proteins in Feedingstuffs (CRL-AP).

In this framework, an online micrograph database to support the identification of suspect particles in animal feed has been building up. More than 700 pictures carefully selected are available via an Intranet platform (password-protected) to the European Union's network of National Reference Laboratories (NRLs) and also to scientists of the IAG (International Association for Feedingstuff Analysis, section Feedingstuff microscopy, [www.iag-micro.org](http://www.iag-micro.org)). A downloadable index with the picture ID, taxonomic and common name of species and all technical data linked to the micrographs is available for facilitated searching. All the pictures of this collection have a watermarked CRL-AP logo and a scale bar. Users are automatically notified about updates by e-mail. New pictures updates meet the needs of the scientific community in response to current issues.

People with access to this collection can use these pictures for purposes of publications, of course under specific conditions as the obligatory mention of CRL-AP and CRA-W.

The usefulness of the tool developed and the technical imaging expertise are explicitly acknowledged by the inclusion of some of those CRL-AP pictures in the new online version of the decision support system ARIES (The RIKILT, Wageningen, Netherlands) developed in the framework of the European STRATFEED and SAFEED-PAP projects.

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## 2nd International FEEDforHEALTH Conference

The 2nd COST Action Feed for Health Conference 2010 was held on 14-15 June in Tromsø, Norway. This meeting entitled 'Impact of animal feed on food quality and health elderly consumers' brought together scientists from more than 20 countries. The conference addressed international challenges and perspectives:

- Impact of new feedstuffs and additives on animal health and product quality
- Feed components improving animal health
- Feeding animals to produce functional foods for humans
- The control and reduction of feed contaminants and carryover from feed to food
- Better methods for the identification and monitoring of contaminants
- The impact of changes in feed formulations and diversification of the sources for feeds
- Consumer perception of live stock production, animal health and welfare and of the quality and safety of the resulting food products

In total 42 presentations were given. The Scientific Committee had invited a number of keynote speakers from industry, science and regulatory authorities and assisted in the selection of long or short scientific presentations from partners in the COST Action Feed for Health and others. Six 30 minutes presentations were given by invited keynote speakers. The rest of the presentations were mainly given by partners of the COST Action and a few by participants outside the COST Action. Approx. 25% of the presentations were so called speed presentations of 5 minutes. Three presentations were given by young researchers from Short Term Scientific Meetings. In total approx. 75 persons participated at the meeting.



Photographer: Wilhelm Andreas Solheim from Nofima

Special emphasis was placed during the Conference on foods that improve the health of elderly consumers and on foods of marine origin. The role of nutrition and lifestyle in staying active, healthy and fit was covered in one of the keynote presentations. The role of milk, meat, seafood and its constituents for an ageing population was presented.

How to ensure the continued growth of the aquaculture industry with sustainable feed ingredients was another important topic covered by a keynote speaker followed by several contributions on enrichment of food products by feed in animal production.

The role of old habits and new needs for meals for the elderly was discussed in a key presentation. Several presentations went into more depth on consumer perception of functional food, feed and food additives as well how consumers think about the origin of fish and aquaculture production.

The importance of safety and quality of fish feed was a key issue in the last session during the conference. The Conference was sponsored by COST the Action FEED for Health, Norwegian Research Council and Nofima.

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## Upcoming Events



**25 - 27 October 2010**

MYCORED INTERNATIONAL WORKSHOP:  
MYCOTOXICOLOGICAL RISKS IN MEDITERRANEAN  
COUNTRIES: ECONOMIC IMPACT, PREVENTION,  
MANAGEMENT AND CONTROL.

Cairo - Egypt

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**08 - 10 November 2010**

WORLD MYCOTOXIN FORUM 2010  
Noordwijkerhout - The Netherlands

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Aquafeed Platform  
EUROPE

**08 - 09 November 2010**

10th AQUAFEED TECHNOLOGY PLATFORM EUROPE  
AQUACULTURE FEED EXTRUSION, NUTRITION & FEED  
MANAGEMENT

Gent - Belgium

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**15 - 19 November 2010**

INTERNATIONALE COURSE ON ADVANCED FOOD ANALYSIS  
Wageningen - The Netherlands

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**01 - 04 December 2010**

GLOBAL MYCOTOXIN REDUCTION STRATEGIES: RESEARCH  
ADVANCES IN ASIA AND THE PACIFIC RIM

Penang - Malaysia

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**28 February - 04 March 2011**

TRAINING ON INFRARED SPECTROSCOPY AND  
CHEMOMETRICS

Gembloux - Belgium

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This work is funded by the European Commission, under the FP6 Food Quality and Safety Priority, within the framework of the STREP Project SAFEED-PAP – FOOD-CT-2006-036221 – entitled “Detection of presence of species-specific processed animal proteins in animal feed”. This project is carried out by a consortium coordinated by the CRA-W – Walloon Agricultural Research Centre (Be) and includes 13 partners. The information reflects the authors views, the European Commission is not liable for any use of the information contained therein.

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