Ensuring the Integrity of the European food chain

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Facilities

- **500 staff** including **350 scientists**
- **80 acre secure site with field plots, glasshouses and a specialist wildlife unit**
- **4km of lab benching**
- **90 controlled environment facilities**
- Containment - Cat 3 lab
- Latest chemical & molecular biological analysis tools

Institute for Agri-Food Research and Innovation
Multi disciplinary collaboration

Join FoodIntegrity network

Visit FoodIntegrity website
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The Centre for Crop Health and Protection
An international gateway for innovation that unites industry and non-industry partners to revolutionise how global farming deals with biotic crop threats like pests, pathogens and weeds.
FoodIntegrity Project: 2014-2018

€12M (€9M EC contribution) FP7 project with 60 partners (23 new in September 2016)
Welcome New Partners
To provide Europe with a state of the art and integrated capability for detecting fraud and assuring the integrity of the food chain.

To provide a sustainable body of expertise that can inform high level stakeholder platforms on food fraud / authenticity issues and priorities.

To bridge previous research activities, assess capability gaps, commission research and inform EU future research needs.

Adding value to the European Agri-food economy by providing food safety, authenticity and quality assurance.
Key Outputs: progress at M30/60

- **Expertise**
  - Global independent network of experts
  - Scientific opinions to support regulations and enforcement
  - Stakeholder secure forum

- **Evidence**
  - Food integrity database hub
  - Harmonisation/consolidation of existing methods/databases
  - Identifying research gaps

- **Innovation**
  - Anticipating food fraud: early warning system
  - Development of new analytical and screening methods for olive oil, fish, spirit drinks
  - Commissioning €3M of new research

- **Impact**
  - Industry integration
  - Global perspective (consumer behaviour at export)
  - Knowledge/technology transfer and dissemination
1st Outputs

3 x FI Conferences
13 workshops

Global focal point, >250 attendees

FI Network

Chinese consumer survey

Procurement of €3M of new research

>200 Members from 36 Countries
Up and coming results

- WP6 “Citizen” Science survey of restaurants to be reported next month.
- WP4 Olive oil results - nta
- WP2 KB data entry needed
- WP1 Publication of first SO imminent “Trends in Food Science and Technology”
FI Network (WP1)

Partners

Scientific Opinions

SO1 Use IRMS of geo-origin
SO2 Testing in Risk Man.
SO3 Targeted >non-targeted
SO4 Multi-variate statistics
SO5 Database use & Curation
SO6 Application of NMR
SO7 Application of NGS

Workshops:

Stakeholders - Brussels 2014
Industry - Lodi 2015
Food Analysts - Bilbao 2015
Food Crime - Prague 2016
Industry - Prague 2016
QA for NTA - Berlin 2016
Food safety 2016 - Shanghai
Stakeholders - Palma 2017
Scientific Opinions - progress

SO1

- Stable isotope techniques for verifying the declared geographical origin of food in legal cases. Lead author: Federica Camin (Fondazione Edmund Mach), submitted to Trends in Food Science and Technology, in Publication

SO2-SO7 in progress

- SO2 Testing in Risk Man.
- SO3 Targeted >non-targeted
- SO4 Multi-variate statistics
- SO5 Database use & Curation
- SO6 Application of NMR
- SO7 Application of NGS
Relevant Scientific Opinions

• **SO3 Targeted > non-targeted analysis**
  • What are the challenges/opportunities

• **SO4 Multi-variate statistics**
  • Issues/best practice

• **SO5 Database use & Curation**
  • Issues/best practice

• **SO6 Application of NMR**
  • Opportunities/Applications/issues

• **SO7 Application of NGS**
  • Opportunities/applications/issues
The FoodIntegrity Knowledge Base (WP2)

- Mapping of analytical methods for the detection of fraud and/or verification of integrity onto specific commodities or food authenticity issues
- Open source for industry and control bodies

Is it organic? PDO, PGI?
Adulterated? Diluted?
Enhanced? Counterfeit?

NEED YOUR PUBLICALLY AVAILABLE METHODS
Relevant new FI WPs starting 2016

- INTELLItrace (UPO)
  - *How can you validate non-targeted methods*

- Consumer and brand protection in complex foods (IFR)
  - *Proteomic methods for assuring complex foods*

- Integrity of Complex Foods (ITB-PTP)
  - *Integrating methods into traceability systems*
Food Integrity Website

FoodIntegrity

FoodIntegrity: 'the state of being whole, entire, or unimpaired or in perfect condition'. Providing assurance to consumers and other stakeholders about the safety, authenticity and quality of European food (integrity) is of prime importance in adding value to the European Agri-food economy.

Read full: FoodIntegrity Abstract

News

New report on food fraud and industry must think wider than known fraud issues. The food and drink industry is being urged to better protect itself from fraud in order to safeguard their business and consumers.

Read the full article


Read the full article

EU - NEW - monthly report on food fraud and authenticity

Read the full article

Events

4th FoodIntegrity Annual Conference - 10 - 11 May 2017 - Parma, Italy

Assuring the integrity of the food chain: turning science into solutions.

Read the full article

FoodIntegrity 2016 Roundtable Discussion

Write at the FoodIntegrity conference a free roundtable event about the gaps in current research in regards to food authenticity and its impact on the supply chain was hosted. To listen...

Read the full article

28-29 Nov 2016 International Symposium “Standardisation of non-targeted methods for food authentication”

On 28th – 29th November 2016 the German Federal Institute for Risk Assessment (BfR) will organise a two-day symposium (noon to noon) on “Standardisation of non-targeted methods for food auth

Read the full article

Twitter Feed

FI_Website

A Twitter feed by @FoodIntegrityEU

Prof Chris Elliott @CRIFoodProf

Why not donate a few quid to the mad megl with the purple beard? 6 november  http://ift.tt/rd2d5v or do you have a quid to spare for a good cause?

Read the full article

Prof Chris Elliott @CRIFoodProf

5-a-day, no 2-day. OK sucks, a fruit paste. Fantastic nutrition leadership from the Royal College of GPs http://ift.tt/rd2d5v or do you have a quid to spare for a good cause?

Read the full article
How to Get Involved

Visit FoodIntegrity Website
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FOOD INTEGRITY 2017

“Assuring the integrity of the food chain: turning science into solutions”

Parma, Italy 10-11 May 2017
Acknowledgements

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THANK YOU

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