



## Authent-Net: Food Authenticity Research Network

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696371: Horizon 2020 Coordination & Support Action

### Deliverable: D1.3

Title: **Food authenticity national status reports**

Beneficiaries: All possible users who have an interest in food authenticity

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all partners involved in NSR

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PU	Public	X
CO	Confidential, only for members of the consortium (including the Commission Services)	



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## 1. Description of Deliverable

This document represents deliverable D1.3 of work package 1 (WP1), of the H2020 project Authent-Net. The aim of the deliverable was to provide a list of member states (MS) national status reports (NSRs) outlining food authenticity state of the art in respective country. The NSRs provide relevant national information regarding food authentication.

The relevant task description, according to the Description of Actions (DoA), is as follows:

### **T1.3. Develop MS national status reports**

Country reports, summarising the status of food authenticity at a national level with reference to the lists generated in T1.1 and T1.2, and describing organisational responsibilities, current practice, initiatives, funding strategies and commodities of interests, will be produced. The country's reports will inform MSs about state of play in other countries, allow them to underline synergies and areas for potential collaborations; and avoid funding of similar researches/initiatives through the different MSs. All reports will use the same template that will be developed in consultation with the funders and the final documents will be reviewed and endorsed by the action partners from funding organisations. Within the action UK, Belgium, France, Iceland, Italy, Spain, Czech Republic and the Netherlands status reports will be issued and it is anticipated that other MSs will be interested commissioning similar reports to complete a European food authenticity capability map.

**Lead: RIKILT; contributors: Fera, Matis, UNIBO, CIRAD, VSCHT, CSIC, IZSPLVA, CRA- W**

## 2. Achievement of Deliverable

The NSRs were written, based on a template delivered to each partner involved in the NSR delivery (see milestone 4a: Template for the national status report). The leader of each country shared the NSR within the respective country in order to collect as much as possible and relevant information on food authenticity.

The status at this stage of the project (M14) is shown on the map (Figure 1) here below. Until now, 13 NSRs have been collected. In addition to the 8 NSRs planned in the DoA (Belgium, Czech Republic, France, Iceland, Italy, Spain, The Netherlands and UK), 4 NSRs have been provided (Bulgaria, Hungary, Ireland and Romania) as well as one International Status Report provided by the Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture. Two other NSRs are still expected (Denmark and Finland).

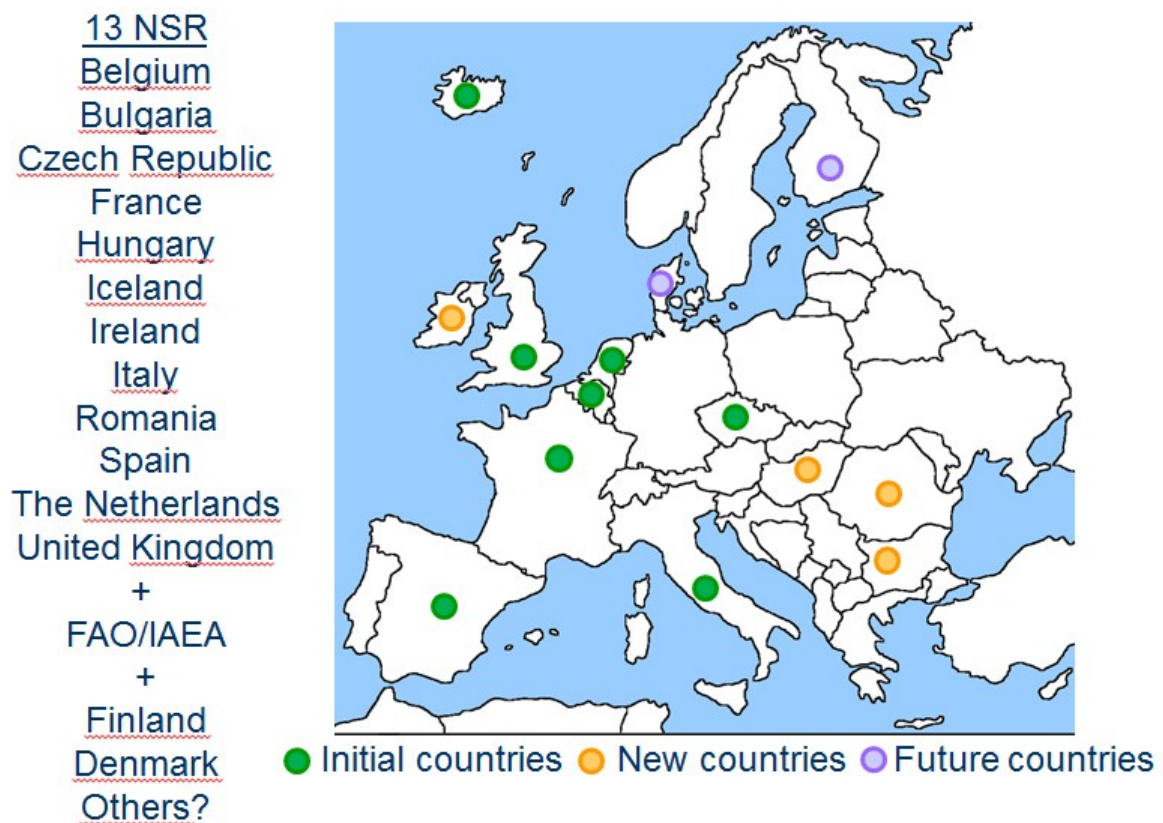


Figure 1: Map of countries providing NSRs.

This document presents the content of the NSRs through screenshots of the contribution provided by the different countries, as presented at the mid-term meeting held in Parma in 11-12 May 2017. The NSRs are accessible as annexes (1-13) in this deliverable. The content will be extracted and converted for the FARNHub tool, accessible from <http://farnhub.authent.cra.wallonie.be/> (See WP4 D4.1 and D4.2).

## 2.1 General information

**WP1 Task 1.3.** Lead: RIKILT  
Contributors: Fera, Matis, UNIBO, CIRAD, VSCHT, CSIC, IZSPLVA, CRA-W


**T1.3. Develop MS national status reports**

- same template for each country

**Authent-Net Member State (MS) National Status Report**

**Country: Bulgaria**

*Please note that the information provided here below will be put on the Food Authenticity Research Network Hub (FARNH) which will be publically accessible. So please do not include any confidential information.*



Authent-Net Mid-Term meeting, Parma, 11-12 May 2017

Figure 2: Screenshot of the NSR template: introduction (Annex 2: NSR Bulgaria).

## 2.2 List of organisations that fund food anti-fraud/food authenticity research

**NSR Report – Funding body**

List of organisations that fund food anti- fraud/food authenticity research and the type of research they fund

*Please provide a list of organisations (Government + NGO whatever the nationality) that are funding projects on food authenticity in your MS*



**1. Name** (Categorise into government/NGO, public/public-private)  
Address  
Web site link  
Short description of the funder  
**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**  
*Click here to privately contact the persons responsible for Food Authenticity funding.*  
(This would take you to a secure location [eg. LinkedIn private chat] to contact relevant funder, only once you're able to prove that you are from another funding organisation).

**1. RANNIS The Icelandic Centre for Research (Government, public)**  
Borgartún 30, IS-105 Reykjavík, Iceland.  
Web: <https://en.rannis.is/>  
The Icelandic Centre for Research (RANNIS) supports research, innovation, education and culture in Iceland. RANNIS cooperates closely with the [Icelandic Science and Technology Policy Council](#) and provides professional assistance in the preparation and implementation of the national science and technology policy.  
**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**  
Contact: [rannis@rannis.is](mailto:rannis@rannis.is)

Authent-Net Mid-Term meeting, Parma, 11-12 May 2017

Figure 3: Screenshot of the NSR template: List of organisations (Annex 6: NSR Iceland).

2.3 Plan/Strategy in terms of Authenticity Research Funding

## NSR Report – Plan strategy



**Plan/Strategy in terms of Authenticity Research Funding**

*Please provide a web link to a plan/strategy on food authenticity for each specific funding organisation (see 1<sup>st</sup> box), provided there is one, or anything the funding organisations are able to provide (general plan/strategy on food). That should include policy documents, research/surveillance documents where possible.*

**1. Funding organisation name + web link to plan + Key decision making committees**

**1. National Institute for Agricultural and Food Research and Technology (INIA)**

The INIA national strategy in relation to food quality and production is in this link:  
<http://www.inia.es/IniaPortal/goUrlDinamica.action?url=http://wwwsp.inia.es/Inia/Paginas/PlanEstrategico2014-2017.aspx>

The research topics of the INIA food technology department are in the link:  
<http://www.inia.es/IniaPortal/goUrlDinamica.action?url=http://wwwsp.inia.es/Investigacion/Departamentos>

**2. Ministry of Agriculture, Fisheries, Food and Environment (MAPAMA)**

The national strategies of MAPAMA in different areas are in the link:  
<http://www.mapama.gob.es/es/ministerio/planes-estrategias/default.aspx>



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Figure 4: Screenshot of the NSR template: Plan/strategy (Annex 11: NSR Spain).

2.4 Capabilities/Infrastructure of Authenticity research providers/relevant NRLs

## NSR Report – Capabilities/Infrastructure



**Capabilities/Infrastructure of Authenticity research providers/relevant NRLs**

*Please provide details of national capabilities (public and private) in terms of food authenticity analysis (relevant National Reference Laboratories, certified laboratories etc.) and in terms of Food Authenticity Research.*

**1. Name (Categorise into academic/research, general proficiency, expertise in a specific technique and/or commodity)**  
**Address**  
**Web site:**  
**Contact available through: (Any web sites where contact details of key personnel are available)**  
**Telephone:**

**1. Fera Science Ltd**  
National Agrifood Innovation Campus, Sand Hutton, York YO41 1LZ, UK  
Web: [www.fera.co.uk](http://www.fera.co.uk)  
Contact available through: <http://www.foodauthenticity.uk/uk-centres-of-expertise-coes-in-food-authenticity-testing>  
Tel: 01904 462556

**2. Nottingham Trent University (Academic/Research)**  
Burton Street, Nottingham, NG1 4BU, UK.  
<http://www.ntu.ac.uk/>  
Contact available through: <http://www.foodauthenticity.uk/uk-centres-of-expertise-coes-in-food-authenticity-testing>



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Figure 5: Screenshot of the NSR template: Capabilities/Infrastructure (Annex 12: NSR United Kingdom).

## 2.5 Recent key cases



## NSR Report – News stories

**Recent key Cases/Reports/Reviews (after 2010)**

*Please provide a list of web links to public outputs, documents, papers, reports, databases on incidents, detection methods, ... in relation to food authenticity your MS is involved (see T1.1)*

1. Title + web link

*Key information to be registered/extracted on/ from the Authent-Net Documents database (Mendeley)*

1. **Wine Fraud in 2014:**  
<http://www.economie.gouv.fr/dgccrf/faits-marquants-sur-fraudes-liees-au-vin>
2. **Geens affair: wine falsification**  
<http://www.20minutes.fr/bordeaux/1816551-20160331-bordeaux-plus-importantes-fraudes-vin-jugee-jeudi>
3. **Horse meat scandal:**  
[http://www.lexpress.fr/actualite/societe/le-scandale-de-la-viande-de-cheval\\_1219104.html](http://www.lexpress.fr/actualite/societe/le-scandale-de-la-viande-de-cheval_1219104.html)
4. **Fish label falsifications**  
<http://www.lefigaro.fr/conso/2015/11/04/05007-20151104ARTFIG00205-un-poisson-sur-trois-consomme-a-bruxelles-ne-correspond-pas-a-son-etiquette.php>

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Figure 6: Screenshot of the NSR template: Recent Key cases (Annex 4: NSR France).

## 2.6 Reports/Reviews (after 2010)



## NSR Report – Publications, reports

**Recent key Cases/Reports/Reviews (after 2010)**

*Please provide a list of web links to public outputs, documents, papers, reports, databases on incidents, detection methods, ... in relation to food authenticity your MS is involved (see T1.1)*

**Many brief work plans and reports of national projects** among which are those focusing on food authenticity; <http://www.wageningenur.nl/nl/Onderzoek-Resultaten/Projecten-EZ.htm>

**National Journal with various contributions 'Justitiele Verkenningen';**  
[http://www.bjtidjschriften.nl/tijdschrift/justitieleverkenningen/2014/2/JV\\_0167-5850\\_2014\\_040\\_002\\_002](http://www.bjtidjschriften.nl/tijdschrift/justitieleverkenningen/2014/2/JV_0167-5850_2014_040_002_002)

**Scientific peer-reviewed papers Wageningen UR 2010-2016:**

*Alewijn, M., van der Voet, H., van Ruth, S.M. (2016). New approach for the validation of multivariate classification methods for product authentication by analytical fingerprints – concept and case study on organic feed. Journal of Food Composition and Analysis. <http://www.sciencedirect.com/science/article/pii/S088915751630076X>.*

*Margraf, T., Neulyana Tabora Santos, E., Forville de Andrade, E., van Ruth, S.M., Granato, D. (2016). Effects of geographical origin, variety and farming system on the chemical markers and in vitro antioxidant capacity of Brazilian purple grape juices. Food Research International, 82, 145–155.*

*Acerno, V., Yener, S., Alewijn, M., Biasioli, F., van Ruth, S. (2016). Factors contributing to the variation in the volatile composition of chocolate: Botanical and geographical origins of the cocoa beans, and brand-related formulation and processing. Food Research International, 84, 86–95.*

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Figure 7: Screenshot of the NSR template: Reports/Reviews (Annex 9: NSR Netherlands).

## 2.7 Ongoing Projects (after 2010)

## NSR Report – Projects

**Ongoing Projects (after 2010) including national-international/public-private funded projects)**

*Please provide a list of ongoing projects on food authenticity your MS is involved in (see T1.1)*

**1. Name, funding, start/end date + Web site link**

*Key information to be registered/extracted on/from the Authent-Net Documents database (Mendeley)*

1. FoodIntegrity, EU, 2014/2018, <https://secure.fera.defra.gov.uk/foodintegrity/index.cfm>;  
<http://www.cra.wallonie.be/en/the-projects/foodintegrity>
2. Authent-Net, EU, 2016-2018, <http://www.authent-net.eu>; <http://www.cra.wallonie.be/en/the-projects/authent-net-1>
3. PhotonFruit, WBI-CAPES, 2014-2015, <http://www.cra.wallonie.be/en/the-projects/photonfruit>
4. Qsaffe, EU, 2011-2014, <http://www.qsaffe.eu/>; <http://www.cra.wallonie.be/en/les-projets/qsaffe>
5. Peptido-Génomique, WIV-ISP, 2012-2016
- 6 AutPlant, Authenticity of plant products, ILVO, 2006-...,  
[http://pure.ilvo.vlaanderen.be/portal/en/projects/authenticiteit-van-plantaardige-producten\(b5b5eaca-7b33-4f23-b974-65e3bb122f5f\).html](http://pure.ilvo.vlaanderen.be/portal/en/projects/authenticiteit-van-plantaardige-producten(b5b5eaca-7b33-4f23-b974-65e3bb122f5f).html)



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Figure 8: Screenshot of the NSR template: Projects (Annex 1: NSR Belgium).

## 2.8 Regulations

## NSR Report – Regulations

**Legal framework for food authenticity (in application at a national level)**


*Please provide a list of standards/regulations on food authenticity applied in your MS (see T1.2)*

**1. Title + web link + sources of expert advice on authenticity**

**IMPLEMENTATION OF EU REGULATIONS BY NATIONAL LAWS**

Consumer protection and human health

- Directive 2001/95/CE on general safety of products > D.lgs. 172/2004  
<http://www.camera.it/parlam/leggi/deleghe/04172dl.htm>
- Directive 2002/99/CE > D.lgs. 117/2005 on health police rules for production, processing, distribution and introduction of food of animal origin for human consumption  
<http://www.camera.it/parlam/leggi/deleghe/05117dl.htm>
- Reg. 178/2002 > d.lgs.190/06 on penalty rules for violations of the Reg. 178/2002  
<http://www.camera.it/parlam/leggi/deleghe/06190dl.htm>
- National guidelines for food and feed traceability as defined by the regulation 178/2002 approved by the conference between nation and regions  
[http://www.salute.gov.it/imgs/c\\_17\\_normativa\\_1834\\_allegato.pdf](http://www.salute.gov.it/imgs/c_17_normativa_1834_allegato.pdf)
- National guidelines to the regulation 852/2004 approved by the conference of state and regions  
<http://www.gazzettaufficiale.it/eli/id/2010/05/26/10A06350/sg>
- National guidelines to the regulation 853/2004 approved by the conference of state and regions  
[http://www.statoregioni.it/Documenti/DOC\\_037444\\_147%20csr%20punto%20%2016.pdf](http://www.statoregioni.it/Documenti/DOC_037444_147%20csr%20punto%20%2016.pdf)




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Figure 9: Screenshot of the NSR template: Regulations (Annex 8: NSR Italy).



## 2.9 Existing indicators used: intelligence sources

### NSR Report – Online Database



**Existing indicators used: intelligence sources**

*Please provide a list of intelligence tools used to detect/counter food fraud issues in your member state (e.g. Horizon Scanning, Interpol, Europol, National Crime agencies)*

**1. Title + web link**

**Key contacts:**

**1. Food Pillory**  
Portal on poor-quality, adulterated and dangerous food on the market operated by the Czech Agriculture and Food Inspection Authority (CAFIA)  
<http://www.potravinynapranryri.cz/>

**2. Food Safety Information Centre**  
<http://www.foodsafety.cz/>

**3. Czech Agriculture and Food Inspection Authority**  
<http://www.szpi.gov.cz/en/default.aspx>

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Figure 10: Screenshot of the NSR template: Existing indicators (Annex 3: NSR Czech Republic).

## 2.10 Commodities/products of interest and type of research of interest

### NSR Report – Interest



**Commodities/products of interest and type of research of interest**

**1. Commodities/products of interest**

*Please provide a list of the commodities/food products in priority order most important for each MS in terms of value to that country.*

1. Dairy
2. Beef
3. Prepared foods
4. Beverages

**2. Type of research of interest**

*Please provide a list of type of research (e.g. criminology, critical points, historical points, analytical methods, consumer behaviour, economic aspects) in priority order most important for each MS in terms of value to that country).*

1. Food Chain mapping and food fraud vulnerability analysis
2. Analytical analysis
3. Drivers of food fraud
4. Criminology

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Figure 11: Screenshot of the NSR template: Issues of interest (Annex 7: NSR Ireland).

### 3. Annexes

Annex 1: NSR Belgium

Annex 2: NSR Bulgaria

Annex 3: NSR Czech Republic

Annex 4: NSR France

Annex 5: NSR Hungary

Annex 6: NSR Iceland

Annex 7: NSR Ireland

Annex 8: NSR Italy

Annex 9: NSR Netherlands

Annex 10: NSR Romania

Annex 11: NSR Spain

Annex 12: NSR United Kingdom

Annex 13: NSR UN/FAO/IAEA

## Annex 1

### Authent-Net Member State (MS) National Status Report

#### Country: Belgium

*Please note that the information provided here below will be put on the Food Authenticity Research Network Hub (FARNH) which will be publically accessible. So please do not include any confidential information.*

#### List of organisations that fund food anti- fraud/food authenticity research and the type of research they fund

*Please provide a list of organisations (Government + NGO whatever the nationality) that are funding projects on food authenticity in your MS*

1. Name (Categorise into government/NGO, public/public-private)

Address

Web site link

Short description of the funder

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

*Click here to privately contact the persons responsible for Food Authenticity funding.*

(This would take you to a secure location [eg. LinkedIn private chat] to contact relevant funder, only once you're able to prove that you are from another funding organisation).

**1. FAVV-AFSCA: Belgian Federal Agency for the Safety of the Food Chain** (Federal government, public)

CA Botanique - Food Safety Center, Boulevard du Jardin Botanique 55, 1000 Brussels

<http://www.afsca.be>; <http://www.favv-afsca.be/rapportactivites/2014/luttefraude>

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

The Belgian federal agency for the safety of the food chain (FASFC) is a federal executive agency with authority over the entire Belgian nation. It sets the operational standards applicable to businesses and integrates all official monitoring and inspection services for the food chain. In accordance with the federal law dated February 4, 2000, the FASFC is responsible for setting, implementing and enforcing measures related to the analysis and the management of risks that may affect consumer health.

Contact: Jos Dusoleil, [JOS.DUSOLEIL@favv.be](mailto:JOS.DUSOLEIL@favv.be)

**2. FRS-FNRS: Scientific Research Fund** (French Community government, public)

Rue d'Egmond 5, 1000 Brussels

<http://www.frs-fnrs.be>

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

The mission of the Scientific Research Fund - FNRS is to develop fundamental scientific research within the context of initiatives put forward by the researchers. It encourages the production and development of knowledge by supporting, on the one hand, individual researchers and by financing, on the other hand, research programmes carried out within the laboratories and departments which are mainly located in the Universities of the Wallonia-Brussels Federation.

Contacts:

Arnaud Goolaerts, [Arnaud.goolaerts@frs-fnrs.be](mailto:Arnaud.goolaerts@frs-fnrs.be) - phone: +32 (0)2/504 93 28

Deborah Matteredne, [deborah.matteredne@frs-fnrs.be](mailto:deborah.matteredne@frs-fnrs.be)

**3. INNOVIRIS: the Brussels Institute for Research and Innovation** (Brussel Regional Government, public)

Chaussée de Charleroi 110, 1060 Bruxelles

<http://www.innoviris.be>

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

Formerly known under the acronym IRSIB (Institute for the Encouragement of Scientific Research and Innovation in Brussels), Innoviris is an administrative organisation whose mission is to support and stimulate research, development and innovation in and for Brussels through the funding of innovative projects by companies, research organisations and the non-commercial sector.

Contact: Xavier Hulhoven, [xhulhoven@innoviris.brussels](mailto:xhulhoven@innoviris.brussels)

**4. CRA-W: Walloon Agricultural Research Centre** (Walloon Regional government, public/private)

9, rue de Liroux, 5030 Gembloux

<http://www.cra.wallonie.be/en/unit-authentication-and-traceability>

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

Regionalised on 1 October 2002, the Walloon Agricultural Research Centre, now a public-interest organisation, is the only public agricultural research centre run by the Walloon Region. The various Departments of the Walloon Agricultural Research Centre offer complementary areas of expertise and together form a multidisciplinary research institution covering the main fields of interest in agriculture, horticulture and forestry as well as the food processing industries and environmental sciences. From biotechnology to plant and animal products, plant breeding and crop protection, agricultural engineering or product quality, all the Departments work in coordination to optimise products in terms of both quantity and quality by reducing inputs (creating tolerant varieties, precision farming, integrated management of fertilisation and phytosanitary protection, etc.) or by creating added value or differentiated quality products, while taking society's expectations into account. It thus takes part in numerous European, national and regional research projects. The Centre has contacts with a number of companies in Belgium and abroad in connection with assignments ranging from specific services (consultancy, routine analyses, etc.) to providing advice (scientific guidance over varying lengths of time) or research and development projects. CRA-W has considerable measuring and analytical capability comprising over 300 different analyses of a wide range of products.

Contact: René Poismans, [r.poismans@cra.wallonie.be](mailto:r.poismans@cra.wallonie.be) - phone: +32 (0)81/62 65 52

**5. DGO6: General Operational Directorate for Economy, Employment and Research** (Walloon Regional government, public)

Place de la Wallonie 1, 5100 Namur (Jambes)

<http://www.wallonie.be>

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

The General Operational Directorate for Economy, Employment and Research (DGO6), part of the Ministry of the Walloon Region, is the legal agency in charge of funding applied research for new technologies and energy for industries, academia and research centres, as well as related international scientific co-operation. It is therefore the key advisory body for the Walloon Regional government authorities regarding research and innovation policy.

Contact:

**6. EWI: Government of Flanders– Department of Economy, Science and Innovation** (Flemish Regional government, public)

Ellipsgebouw, Koning Albert II-laan 35 bus 10, 1030 Brussels

<http://www.ewi-vlaanderen.be>

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

The Department of Economy, Science and Innovation (EWI) prepares, monitors and evaluates policy in the Economy, Science and Innovation policy area. Their main aim is to develop Flanders into one of the most advanced and prosperous regions in the world. They strive to promote:

- Excellence in scientific research,
- An attractive and sustainable business climate and,
- A creative, innovative and entrepreneurial society.

Contact: Peter Spyns: [peter.spyns@ewi.vlaanderen.be](mailto:peter.spyns@ewi.vlaanderen.be)>

**7. FWO : Research Foundation-Flanders** (Flemish Regional government, private)

Egmontstraat 5, 1000 Brussels

<http://www.fwo.be/>

**Type of research funded: FUNDAMENTAL/BASIC RESEARCH INFRASTRUCTURE**

The FWO's mission is to stimulate and support groundbreaking fundamental and strategic basic research in all areas of science at the universities in the Flemish Community, including collaboration agreements between Flemish universities and other research institutes. It also funds research infrastructures and participation of researchers in research infrastructures.

The FWO funds excellent and promising researchers as well as research projects following an interuniversity competition and an evaluation by national and international experts.

The only criterion is the outstanding quality of the researcher and research proposal and for strategic basic research also valorisation.

The funds that the FWO makes available for fulfilling its obligations come primarily from the Flemish Government and the Federal Government. Within the policy lines of the political authorities, the FWO is scientifically completely autonomous when selecting and evaluating those benefiting from fellowships and grants.

Contact: Olivier Boehme: [Olivier.Boehme@fwo.be](mailto:Olivier.Boehme@fwo.be)

**8. WIV-ISP-Federal Public Service Health, Food Chain Safety and Environment** (Federal government, public)

Eurostation II – Place Victor Horta, 40 bte 10, 1060 Bruxelles

<http://www.health.belgium.be/fr/recherche-contractuelle>

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

The FPS Health, Food Chain Safety and Environment, annually provides grants for scientific research in support of food security policies and animal and plant health.

The group Contract Research manages the development of the research program, the launch of calls for project proposals and project selection. The subsidies are granted both to thematic research projects (RT) and free (RF) that transnational research projects (RI).

Contact: Nancy Roosens, [Nancy.Roosens@wiv-isp.be](mailto:Nancy.Roosens@wiv-isp.be) - phone: +32 (0)2/642 52 58

**9. WBI: Wallonia-Brussel-International** (Wallonia Region + Wallonia-Brussel Federation + French Community government, public)

Place Saintelette 2, Molenbeek Saint Jean, 1080 Bruxelles

<http://www.wbi.be/fr/page/propos-wallonie-bruxelles-international>

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

Wallonia-Brussel International (WBI) is the agency responsible for international relations Wallonie-Bruxelles. It is the instrument of international policy of Wallonia, the Federation Wallonia-Bruxelles and the French Community Commission. Under agreements with 70 countries and regions, WBI supports creators and entrepreneurs of Wallonia-Bruxelles. WBI promotes components of Wallonia-Bruxelles as entities with a capacity for international action and defends the values and interests of each party, in a spirit of cooperation and mutual assistance. Actions are carried out under scientific research, amongst other with Brazil (Photonfruit project).

Contact: Deborah Matteredne, [deborah.matteredne@frs-fnrs.be](mailto:deborah.matteredne@frs-fnrs.be)

**10. DGO3: General Operational Directorate for Agriculture, Natural Resources and Environment** (Walloon Regional government, public)

Avenue Prince de Liège 15, 5100 Namur (Jambes)

<http://spw.wallonie.be/dce/spip.php?article17>

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

DGO3 manages the natural and rural heritage of the Walloon Region, offers areas for development in the agricultural and environmental sectors (including natural resources), detects and manages environmental accidents, ensures compliance with the requirements of sustainable development. For example, AgriLabel is a research project financially supported by the Walloon Region since 2011. The main objective is to help local producers to obtain official quality labels for their products, which present particular characteristics. These products adhere to a precise set of specifications and are recognised either at European scale (Protected Designation of Origin, Protected Geographical Indication and Traditional Speciality Guaranteed) or at regional scale (differentiated quality system). For this project, applied research is conducted in Gembloux Agro-Bio Tech (Laboratoire Qualité et Sécurité des Produits Agroalimentaires).

Contact:

**11. ILVO: Institute for Agricultural and Fisheries Research** (Flemish Regional government, public/private)

Burg. van Gansberghelaan 96, 9820 Merelbeke

<http://www.ilvo.vlaanderen.be/language/nl-BE/EN/About-ILVO/Four-Units/>

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

The Institute for Agricultural and Fisheries Research (ILVO) performs multidisciplinary, innovative and independent research aimed at economically, ecologically and socially sustainable agriculture and fisheries. Through this research ILVO accumulates fundamental and applied knowledge which is vital for the improvement of products and production methods, for quality control and the safety of end products, and for the amelioration of policy instruments as a foundation for sector development and agricultural policy for rural areas.

ILVO has four research units (Plant Sciences, Animal Sciences, Social Sciences and Technology and Food Science). The Technology and Food Science Unit conducts research beyond the farm gate, with a focus on food safety, product innovation and the Food Pilot, which is housed at ILVO.

The Product Quality and Innovation research group focuses on the authenticity of animal and plant products, including GMOs and allergens, and the improvement of the functional quality and valorisation of foodstuffs.

#### **ILVO Visserij**

Ankerstraat 1, 8400 Oostende

Contact: Johan Robbens, [johan.robbers@ilvo.vlaanderen.be](mailto:johan.robbers@ilvo.vlaanderen.be) - phone: +32 (0)59/34 22 50

#### **12. VLAIO: Agency for Innovation and Entrepreneurship** (Flemish Regional government, public)

Ellipsgebouw, Koning Albert II-laan 35 bus 12, 1030 Brussels

<http://www.vlaio.be>

#### **Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

Flanders Innovation & Entrepreneurship (in Dutch: Agentschap Innoveren & Ondernemen) is a government agency, charged with implementing the economic, innovation and enterprise policy in Flanders, the Dutch speaking northern part of Belgium. The Agency supports companies with the startup of their activities, the grow and continuity of their business, but also with the search for the right location, information on permits, financing, investments in innovation and ecological technologies, and other topics. , in close cooperation with many partners that aim at stimulating entrepreneurship, one of which is Flanders Investment & Trade. Together they aim at helping foreign entrepreneurs and investors to establish or expand a business in Flanders. In short, the Flanders Innovation & Entrepreneurship confidentially guides entrepreneurs throughout the government landscape.

Contact: Marianne Claessens : [marianne.claessens@vlaio.be](mailto:marianne.claessens@vlaio.be)

#### **13. Federal Public Service Economy, SMEs, Self-Employed and Energy** (Federal government, public)

North Gate, Koning Albert II-laan 16, 1000 Brussels

<http://economie.fgov.be>

The Federal Public Service Economy, SMEs, Self-Employed and Energy is the federal market surveillance authority for all aspects of quality and authenticity of goods, both food and non-food, made available on the market on the entire Belgian territory. Samples of products are taken during surveillance campaigns, at the initiative of the FPS or imposed by the EU, or after having received complaints concerning these products and are analysed by contracted laboratories.

Contact: Hubert Verplaetse : [Hubert.Verplaetse@economie.fgov.be](mailto:Hubert.Verplaetse@economie.fgov.be)

#### **Plan/Strategy in terms of Authenticity Research Funding**

*Please provide a web link to a plan/strategy on food authenticity for each specific funding organisation (see 1<sup>st</sup> box), provided there is one, or anything the funding organisations are able to provide (general plan/strategy on food). That should include policy documents, research/surveillance documents where possible.*

**1. Funding organisation name + web link to plan + Key decision making committees**

Because of the division of Belgium into federal, regional and community levels, the management of Research, Development and Innovation policies is under the responsibility of each region. Topics are thus defined according to the regional needs and priorities by researchers and companies according to the programme they are applying for, and the implementation of research activities is set up through various institutions associated with the region and/ or the community. In spite of these socio economic and organisational differences, both the Flemish and Walloon systems intend to develop measures to increase the cooperation between research institutions and enterprises.

More information can be found in the study on investment in agricultural research: Review for Belgium. [http://www.impresa-project.eu/fileadmin/user\\_upload/IMPRESA/Filessharing/IMPRESA\\_country\\_report\\_Belgium.pdf](http://www.impresa-project.eu/fileadmin/user_upload/IMPRESA/Filessharing/IMPRESA_country_report_Belgium.pdf). This project aims to evaluate the impact of EU research on agriculture, collecting data on recent trends in investment in agricultural research, and developing a framework combining case studies, econometric analysis and modelling for assessing its impact. A first task is to prepare country-level analysis of the agricultural research expenditures and an assessment of the availabilities of data regarding public and private investments in agricultural research.

**Plan/Strategy by institution numbered according to the previous list of funding bodies.**

**1. FAVV-AFSCA: Belgian Federal Agency for the Safety of the Food Chain** (Federal government, public)

The thematic calls for proposals are based on from the needs of the Federal Food Agency (FASFC), current problems in the food chain and the advice of a scientific committee.  
<http://www.health.belgium.be/>

**2. FRS-FNRS: Scientific Research Fund** (French Community government, public)

The FRS-FNRS has six instruments to support researchers to perform and advertise their research work and to help create and support networks for exchanges with other researchers. Six instruments are available:

- Funding for researcher training
- Funding of research projects (including equipment, personnel and operation)
- Funding to organise conferences, congresses, scientific meetings
- Funding for attending conferences outside of Belgium
- Support for the creation of networks of researchers, contact groups
- Funding of scientific publications (journals and books)

The researchers and laboratories funded by the FRS-FNRS are located in academic institutions. The FRS-FNRS provides financial support for several research programmes in all disciplines.



The grants are only given to the French speaking community in Belgium.

**3. INNOVIRIS: Ministry of research and Innovation of Brussels Capital Region** (Brussel Regional Government, public)

All sectors of the Brussels economy are concerned by technological innovation and may benefit from financial aid. The Brussels strategy to promote research aims not only to stimulate economic development through innovation, but also to respect ethical values and improve well-being in the Region. Alongside traditional research sectors, such as the aeronautics and chemical industries, INNOVIRIS also fund other key sectors in Brussels life: ICT, agri-food, green technologies, energy-saving projects and sustainable development in general.

**4. CRA-W: Walloon Agricultural Research Centre** (Walloon Regional government, public/private)

CRA-W has an item in the research program to valorise the expertise in development of analytical methods for achieving measurable elements of differentiated quality or a specific mode of production as well as in development of methods for the authentication of products or fraud detection.

<http://www.cra.wallonie.be/en/article/tag/authentication>

<http://www.cra.wallonie.be/en/unit-authentication-and-traceability>

<http://www.cra.wallonie.be/en/unit-food-and-feed-quality>

**5. DGO6: General Operational Directorate for Economy, Employment and Research** (Walloon Regional government, public)

The General Operational Directorate for Economy, Employment and Research (DGO6) is in charge of allocating regional public funds to three broad categories of actors:

- Universities and university colleges: for research projects whose aim is to support socio-economic development of the region
- Research centres: for applied research and technology diffusion activities towards companies in the region
- Innovative companies: for research and innovation projects

The funds are allocated via a number of different programmes targeting these actors, and described under the templates of the research programmes. For public research organisations, this consists mainly of grants, while for the companies the majority of funds are allocated in the form of reimbursable loans.

The DGO6 has several departments addressing different target organisations. The Department of Technological Development addresses industrial research and experimental development, SME research support and R&D support. The Department of Research Programmes' mission is to improve the scientific and technical level of research centers, universities and high schools. The department funds research in universities, university-level institutions and research centres and ensures the participation of the Walloon Region in federal and international research programmes.

The DGO6 funds only projects from Wallonia.

**6. EWI: Government of Flanders– Department of Economy, Science and Innovation** (Flemish Regional government, public)

Flanders has several instruments to fund fundamental and strategic basic research by Flemish public research institutes, such as universities and university colleges. The EWI Department coordinates and evaluates these financial mechanisms.

The allotment of the specific grants, allowances, etc. is performed by the research facilities themselves or by the agencies belonging to the EWI policy domain (VLAIO, FWO). In addition, the Flemish government also funded the 2012-2015 Policy Research Centre Programme.

The policy research centres focus on problem-driven short-term research as well as fundamental long-term basic research. Research themes are determined according to the Flemish government's priorities and the theme's policy relevance.

#### **7. FWO: Scientific Research Foundation-Flanders** (Flemish Regional government, private)

The objective of the FWO's research projects is to advance fundamental and basic scientific research based on the initiative of researchers from all disciplines. . It also supports infrastructure projects. The research projects constitute an important tool with which to stimulate collaboration between different research teams.

Bench fees, equipment and personnel grants are made available to teams of researchers for conducting scientific high-value projects at the centre of scientific interest. Special attention is given to projects that position their own research within a wider scientific arena with an interuniversity approach.

Calls are announced each year during a specific period.

#### **Capabilities/Infrastructure of Authenticity research providers/relevant NRLs**

*Please provide details of national capabilities (public and private) in terms of food authenticity analysis (relevant National Reference Laboratories, certified laboratories etc.) and in terms of Food Authenticity Research.*

##### **1. Name** (Categorise into academic/research, general proficiency, expertise in a specific technique and/or commodity)

Address

Web site:

Contact available through: *(Any web sites where contact details of key personnel are available)*

Telephone:

##### **1. WIV-ISP: The Belgian Scientific Institute for Public Health** (Federal government, Research, expertise in GMO)

Rue Juliette Wytsmanstraat 14, 1050 Brussels

<https://www.wiv-isp.be>

Contact: Nancy Roosens : [Nancy.Roosens@wiv-isp.be](mailto:Nancy.Roosens@wiv-isp.be)

##### **2. FEVIA: Federatie Voedingindustrie - Federation de l'industrie alimentaire** (National organisation, Research)

Avenue des Arts 43, 1040 Brussels

<http://www.fevia.be>

- 3. BRUFOTEC: Brussels Food Technology Centre** (Brussel organisation, Research)  
Boulevard industriel 200, 1070 Brussels  
<http://www.brucefo.be>
- 4. ULB: Université Libre de Bruxelles** (Brussel university, Academic)  
Avenue Franklin Roosevelt 50, 1050 Bruxelles  
<http://www.ulb.ac.be/ulb/presentation/uk.html>
- 5. Agro- BioTech: University Liège –Gembloux campus** (Walloon university, Academic)  
Passage des Déportés 2, 5030 Gembloux  
<http://www.gembloux.ulg.ac.be>  
Contact : Marianne Sindic: [marianne.sindic@ulg.ac.be](mailto:marianne.sindic@ulg.ac.be)
- 6. UCL: Université catholique de Louvain** (Walloon university, Academic)  
Place de l'université 1, 1348 Louvain la Neuve  
<https://www.uclouvain.be/en-index.html>
- 7. WagrALIM: The Agro-industry's Competitive Cluster in Wallonia** (Walloon organisation, Research)  
Maison de l'Industrie Technologique, Rue Auguste Piccard 20, 6041 Gosselies  
<http://www.wagrallim.be/>
- 8. APAQ-W: Walloon Agency for the promotion of quality Agriculture** (Walloon Walloon Regional government, Research)  
Avenue Comte de Smet de Nayer 14, 5000 Namur  
<http://www.apaqw.be/>
- 9. IWT-FF: Flanders Food** (Flemish Regional government, Research)  
Kunstlaan 43 (4th floor), 1040 Brussel  
<http://www.flandersfood.com>  
Contact: Charlotte Boone: [charlotte.boone@flandersfood.com](mailto:charlotte.boone@flandersfood.com).
- 10. Food Pilot** (Flemish Regional government, Research)  
Business Unit and Service Centre, Brusselsesteenweg 370, 9090 Melle  
<http://www.foodpilot.be>
- 11. UGent: Ghent University** (Flemish university, Academic)  
Faculty of Bioscience Engineering, Coupure links 653, B-9000 Gent  
<http://www.ugent.be/bw/nl>  
Contact: Isabelle Sioen, PhD, Project manager – Food2Know [isabelle.sioen@UGent.be](mailto:isabelle.sioen@UGent.be)  
Phone: +32/(0)9 264 93 95
- 12. Katholieke Universiteit Leuven and its Kortrijk campus** (Flemish university, Academic)  
Oude Markt 13, Bus 5005, 3000 Leuven  
<http://www.biw.kuleuven.be/biosyst/mebios/>

**13. LFoRCe: Leuven Food Science and Nutrition Research Centre** (Flemish organisation, Research)

Kasteelpark Arenberg 20 box 2463 3001 Leuven

<http://www.lforce.kuleuven.be/main%20pages/Research%20Teams.aspx>

Contact: Kurt Gebruers, kurt.gebruers@kuleuven.be

**14. Catholic University College Odisee** (Flemish university, Academic)

Blekerijstraat 23-29, 1000 Brussel

<http://www.odisee.be>

**15. UA: University of Antwerp** (Flemish university, Academic)

Printstraat 13, 2000 Antwerp

<https://www.uantwerpen.be/en/>

**16. FOST: Social & Cultural Food Studies** (Flemish university, Research)

Avenue Franklin Roosevelt 50, 1050 Bruxelles

<http://research.vub.ac.be/food-history>

**17. VITO: Independent research and technology organisation** (Flemish organisation, Research)

Boeretang 200, 2400 MOL

<https://vito.be/en>

**18. FOOD2KNOW (Flemish organisation (ILVO+ Flemish universities, Research)**

Coupure Links 653, Blok B, gelijkvloers, lokaal 038, 9000 Gent

<http://food2know.org>

Contact: Isabelle Sioen, PhD, Project manager – Food2Know [isabelle.sioen@UGent.be](mailto:isabelle.sioen@UGent.be)

Phone: +32 (0)9/264 93 95

**19. ILVO: Technology and Food Science Unit** (Flemish research institute, Research)

Brusselsesteenweg 370, 9090 Melle, België

<http://www.ilvo.vlaanderen.be/language/nl-BE/EN/About-ILVO/Four-Units/>

### Recent key Cases/Reports/Reviews (after 2010)

*Please provide a list of web links to public outputs, documents, papers, reports, databases on incidents, detection methods, ... in relation to food authenticity your MS is involved (see T1.1)*

#### 1. Title + web link

*Key information to be registered/extracted on/ from the Authent-Net Documents database (FARNHub)*

#### 1. Horsemeat fraud

(2013), [http://www.eufic.org/article/en/artid/Tackling\\_food\\_fraud\\_in\\_Europe/](http://www.eufic.org/article/en/artid/Tackling_food_fraud_in_Europe/); <http://eurl.craw.eu/en/24/news/17>

### Ongoing Projects (after 2010) including national-international/public-private funded projects)

*Please provide a list of ongoing projects on food authenticity your MS is involved in (see T1.1)*

#### 1. Name, funding, start/end date + Web site link

*Key information to be registered/extracted on/ from the Authent-Net Documents database (FARNHub)*

#### 1. FoodIntegrity, EU,

2014/2018, <https://secure.fera.defra.gov.uk/foodintegrity/index.cfm>; <http://www.cra.wallonie.be/en/the-projects/foodintegrity>

2. Authent-Net, EU, 2016-2018, <http://www.authent-net.eu>; <http://www.cra.wallonie.be/en/the-projects/authent-net-1>

3. PhotonFruit, WBI-CAPEs, 2014-2015, <http://www.cra.wallonie.be/en/the-projects/photonfruit>

4. Qsaffe, EU, 2011-2014, <http://www.qsaffe.eu/>; <http://www.cra.wallonie.be/en/les-projets/qsaffe>

5. Peptido-Génomique, WIV-ISP, 2012-2016

6. AutPlant, Authenticity of plant products, ILVO, 2006-

..., [http://pure.ilvo.vlaanderen.be/portal/en/projects/authenticiteit-van-plantaardige-producten\(b5b5eaca-7b33-4f23-b974-65e3bb122f5f\).html](http://pure.ilvo.vlaanderen.be/portal/en/projects/authenticiteit-van-plantaardige-producten(b5b5eaca-7b33-4f23-b974-65e3bb122f5f).html)

7. AutDier, Authenticity of animal products,

ILVO, [http://pure.ilvo.vlaanderen.be/portal/en/projects/authenticiteit-van-dierlijke-producten\(72373411-6e48-4e17-8a0b-60b04a5c285a\).html](http://pure.ilvo.vlaanderen.be/portal/en/projects/authenticiteit-van-dierlijke-producten(72373411-6e48-4e17-8a0b-60b04a5c285a).html)

8. LaitHerbe, DGO6, 2011-2015, <http://www.laitherbe.be/>; <http://www.cra.wallonie.be/fr/les-projets/laitherbe>
9. EURL-AP, EU, 2006-..., <http://www.cra.wallonie.be/en/the-projects/eurl-ap>; <http://eurl.craw.eu/>
10. BioGeoCarbo, CRA-W, 2011-2013, <http://www.cra.wallonie.be/en/the-projects/biogeocarbo>
11. Beurre d'Ardenne, DG03, 2013-2014,
12. AgriLabel (formerly "Cellule d'Appui aux Indications géographiques"), DGO3, 2011-..., <https://caig.hypotheses.org/>

### **Legal framework for food authenticity (in application at a national level)**

*Please provide a list of standards/regulations on food authenticity applied in your MS (see T1.2)*

1. Title + web link

#### **1. General information on legal national framework**

The webpages where all Belgian legislation on alimentation can be found are:

<http://www.warenwetgeving.be> Belgian legislation on consumer products, published by Die Keure. The Belgian Federal Agency for the Safety of the Food Chain (FAVV-AFSCA) provides Die Keure with relevant legislation.

<http://www.favv.be/wetgeving> : additional legislation on food and animals is listed at the website of the FAVV-AFSCA. FAVV-AFSCA distinguishes between legislation regarding:

- animal production (see paragraph 3),
- vegetable food production (see paragraph 4),
- legislation on foodstuffs/food articles (see paragraph 5),
- and other legislation.

Although these two webpages were consulted to create this list, the links of the content of legislation refer to the publicly accessible webpage: <http://www.ejustice.just.fgov.be>

The concept 'food authenticity' is interpreted broadly, because non-compliance with a broad range of regulations could contribute to food inauthenticity. For example, food inauthenticity can be caused by food health claims being false, a product not being what it claims to be, or requirements of certain certificates not being met (e.g. concerning animal welfare, way of production, meeting pesticide requirements, etc). The following list is a selection of legislation that is considered relevant to food authenticity in this broad sense, but it is not an exhaustive list of all Belgian legislation applicable to food production and foodstuffs. In case only European legislation is applied to a specific theme in Belgium (without additional national legislation or implementation in Belgian law), this European legislation is not included in the following list. Most legislation listed here is federal,

and when regions are in charge of a legal domain the regional decrees are included. Very detailed Royal decrees and Ministerial decrees are not included.

### ***Certificates and labels***

Each member state of the European Union has a national accreditation body. In Belgium the national accreditation body is BELAC, which was established by the Royal Decree of 31 January 2006 and falls under the responsibility of the Federal Public Service (FOD) 'Economy, S.M.E.s. (Small or medium sized firms), Self-employed and Energy'. Regulation regarding the accreditation process can be found on the website of this Federal Public

Service: [http://economie.fgov.be/nl/ondernemingen/leven\\_onderneming/kwaliteitsbeleid/Accreditatie](http://economie.fgov.be/nl/ondernemingen/leven_onderneming/kwaliteitsbeleid/Accreditatie)

### ***Integrated Multi-Annual National Control Plan (MANCP) for Belgium***

By order of Regulation (EC) 882/2004 each member state needs to create MANCP's about official controls that ensure the verification of compliance with feed and food law, animal health and animal welfare rules. The MANCP for 2014-2017 for Belgium, including the authorities responsible for different legal domains and the control structure, can be found

here: <http://www.favv.be/overhettfavv/mancp/>.

### ***Self-control***

KB 14 november 2003 betreffende autocontrole, meldingsplicht en traceerbaarheid in de voedselketen, BS 12 december 2003. (Royal decree on self-control, duty to report and traceability)

## **2. Legal national framework food safety**

More legislation than listed here is related to food safety, including some of the legislation listed under paragraph 3-5. Here we only mention some of the general laws listed at [www.warenwetgeving.be](http://www.warenwetgeving.be) that are related to food safety and relevant articles from the criminal code.

### ***General***

Some of the general laws listed at are:

[KB 3 januari 1975 betreffende voedingswaren en -stoffen die gelden als schadelijk verklaard](#), BS 18 februari 1975. (Royal decree on food products and nutrients declared as harmful)

[Wet van 24 januari 1977 betreffende de bescherming van de gezondheid van de verbruikers op het stuk van de voedingsmiddelen en andere producten, BS 8 april 1977. \(Law on protection of consumers' health related to foodstuffs\)](#)

[Wetboek van Economisch recht 28 februari 2013 Boek IX: Veiligheid van producten en diensten \(a framework law that regulates safety prescriptions of products and services. Transposes the General Product Safety Directive 2001/95/EC of the European Parliament of 3 December 2001\).](#)

### ***Criminal Code***

[Strafwetboek](#) (selection of relevant articles based on [www.warenwetgeving.be](http://www.warenwetgeving.be)):

**Art. 193** (forgery)

**Art. 421** (causing disease or inability to work by administering substances that might cause severe health damage or even death)

**Art. 454** (mingling substances in food or drinks that might cause severe health damage or even death)

**Art. 455** (selling or offering foodstuffs while knowing these contain substances that can cause severe health damage or even death. And selling or offering the harmful substances, knowing these serve to falsify foodstuffs)

**Art. 456** (having feed, food, foodstuffs and drinks available in a warehouse, shop or other place that are meant for sale knowing these contain substances that might cause severe health damage or even death)

**Art. 458** (deceiving consumers: about nature or origin of product, delivering another product than what was agreed upon)

**Art. 496** (swindle)

**Art. 499** (swindle concerning the quantity of the product)

**Art. 500** (falsifying foodstuffs that are meant for sale, selling foodstuffs that are known to be falsified, spreading knowledge about how to falsify foodstuffs)

**Art. 501** (possessing foodstuffs meant for sale that are known to be falsified)

**Art. 501bis** (selling or offering foodstuffs without knowing they are falsified)

### **3. Legal national framework animal production**

#### ***Animal medication***

[Wet op de geneesmiddelen 25 maart 1964](#), BS 17 april 1964. (Medicines Act)

[Wet betreffende gemedicineerde diervoeders 21 juni 1983](#), BS 28 oktober 1983. (Law on medication in animal feed)



[Wet van 15 juli 1985 betreffende het gebruik bij dieren van stoffen met hormonale, anti-hormonale, beta-adrenergische of produktie-stimulerende werking](#), BS 4 september 1985. (law on illegal hormones/growth promotors)

### ***Animal welfare***

[Wet van 14 augustus 1986 betreffende de bescherming en het welzijn van dieren](#), BS 3 december 1986 (Law on animal welfare and protection)

[KB 16 januari 1998 inzake de bescherming van dieren bij het slachten of doden](#), BS 19 februari 1998. (Royal decree on protection of animals during slaughter/killing)

[KB 1 maart 2000 inzake de bescherming van voor landbouwdoeleinden gehouden dieren](#), BS 6 mei 2000. (Royal decree on protection of agricultural animals)

[KB 27 april 2005 betreffende de bescherming van dieren tijdens het vervoer en de erkenningsvoorwaarden van vervoerders, handelaars, halteplaatsen en verzamelcentra](#), BS 20 mei 2005. (Royal decree on protection of animals during transport)

[KB 27 april 2007 betreffende erkenningsvoorwaarden voor inrichtingen voor dieren en de voorwaarden inzake de verhandeling van dieren](#), BS 6 juli 2007 (Royal decree on establishments for animals and trade of animals)

### ***For specific animal types***

[KB 23 januari 1998 betreffende de bescherming van kalveren in kalverhouderijen](#), BS 3 april 1998. (Royal decree on protection of calves)

[KB 15 mei 2003 betreffende de bescherming van varkens in varkenshouderijen](#), BS 24 juni 2003. (Royal decree on protection of pigs)

[KB 17 oktober 2005 tot vaststelling van minimumnormen voor de bescherming van legkippen](#), BS 20 oktober 2005. (Royal decree on protection of laying hens)

### ***Since 1 July 2014 the regions are authorized for animal welfare***

[Besluit van de Vlaamse regering 19 februari 2016 betreffende de bescherming van dieren bij het slachten of doden](#), BS 14 maart 2016 (Decree of Flemish government on protection of animals during slaughter)

[Besluit van de Brusselse hoofdstedelijke regering 9 februari 2017 betreffende de bescherming van dieren bij het slachten en doden](#), BS 24 februari 2017. (Decree of Brussels government on protection of animals during slaughter)

### ***Hygiene of animal products***

[KB 7 januari 2014 betreffende de rechtstreekse levering, door een primaire producent, van kleine hoeveelheden van sommige levensmiddelen van dierlijke oorsprong aan de eindverbruiker of](#)

[aan de plaatselijke detailhandel](#), BS 24 januari 2014 (direct supply by primary producer of animal products to user or local retailer)

[KB 30 november 2015 betreffende de hygiëne van levensmiddelen van dierlijke oorsprong](#), BS 15 december 2015. (Royal decree on hygiene of animal products)

### ***Identification and registration of animals***

[KB 23 maart 2011 tot vaststelling van een identificatie- en registratieregeling voor runderen](#), BS 15 april 2011. (Royal decree on identification and registration of cattle)

### ***Labeling***

[KB 8 juni 1983 betreffende de fabricage van en de handel in bereid vlees en vleesbereidingen](#), BS 20 juli 1983. (Royal decree on production and trade of prepared meat)

[KB 8 maart 1985 betreffende de fabricage van en de handel in gehakt of gemalen vers vlees](#), BS 16 april 1985. (Royal decree on production and trade of minced/grinded meat)

[KB 22 mei 1996 houdende reglementering van de benamingen van visserijproducten en verwerkte visserijproducten](#), BS 7 augustus 1996. (Royal decree on names of fishery products)

[KB 9 juni 1999 betreffende de etikettering van het rundvlees en van de rundvleesproducten](#), BS 12 juni 1991. (labeling of beef and beef products)

### ***Public and animal health***

[Dierengezondheidswet 24 maart 1987](#), BS 17 april 1987. (Law on animal health)

[KB 13 mei 2005 houdende vaststelling van veterinairrechtelijke voorschriften voor de productie, de verwerking, de distributie en het binnenbrengen van voor menselijke consumptie bestemde producten van dierlijke oorsprong](#), BS 23 mei 2005. (Royal decree on production, processing, distribution of animal products meant for human consumption)

### ***Placing on the market***

[KB 30 december 1992 betreffende het vervoer van vers vlees, vleesproducten en vleesbereidingen](#), DS 31 december 1992 (Royal decree on transport of fresh meat/meat products)

[KB 4 juli 1996 betreffende de algemene en bijzondere exploitatievoorwaarden van de slachthuizen en andere inrichtingen](#), BS 3 september 1996 (Royal decree on conditions to place beef on the market, risk material, prohibition to use bones of ruminants for production of mechanically separated meat)

### ***Animal feed***

[KB 28 juni 2011 betreffende het in de handel brengen en het gebruik van diervoeders](#), BS 22 augustus 2011. (Royal decree on trade and use of resources used for animal feed)

### ***Specified risk material (GRM)***

[KB 4 juli 1996 betreffende de algemene en bijzondere exploitatievoorwaarden van de slachthuizen en andere inrichtingen](#), BS 3 september 1996. (Royal decree on conditions for slaughterhouses and other establishments concerning specified risk material)

[KB 22 december 2005 tot vaststelling van aanvullende maatregelen voor de organisatie van de officiële controles van voor menselijke consumptie bestemde producten van dierlijke oorsprong](#), BS 30 december 2005. (Royal decree on additional measures for inspection of animal products for human consumption)

[KB 13 juli 2014 betreffende levensmiddelenhygiëne](#), BS 29 augustus 2014 (hygiene of foodstuffs)

#### **4. Legal national framework vegetable food production**

##### ***General***

[Plant health measures](#) and plant passports

##### ***Pesticides***

[KB 16 januari 2006 tot vaststelling van de nadere regels van de erkenningen, toelatingen en voorafgaande registraties afgeleverd door het FAVV](#), BS 2 maart 2006. (Royal decree on rules about recognitions, permissions and registration by the FAVV-AFSCA)

[KB 4 september 2012 betreffende het federaal reductieprogramma van pesticiden, met inbegrip van hun gebruik in het kader van duurzame ontwikkeling](#), BS 19 september 2012. (Federal reduction program of pesticides)

[KB 19 maart 2013 ter verwezenlijking van een duurzaam gebruik van gewasbeschermingsmiddelen en toevoegingsstoffen](#), BS 16 april 2013. (Royal decree on sustainable use of pesticides)

[KB 15 december 2013 betreffende het federaal reductieprogramma van pesticiden voor de periode 2013-2017](#), BS 23 december 2013. (Royal decree on Federal reduction program of pesticides for 2013-2017)

[KB 13 juli 2014 betreffende levensmiddelenhygiëne](#), BS 29 augustus 2014 (Royal decree on hygiene of foodstuffs)

#### **5. Legal national framework foodstuffs/food articles**

##### ***Contact materials***

[KB 11 mei 1992 betreffende materialen en voorwerpen bestemd om met voedingsmiddelen in aanraking te komen](#), BS 24 juli 1992. (Royal decree on materials/objects that are in contact with foodstuffs)

### **Hygiene**

[KB van 26 april 2009 betreffende microbiologische criteria voor voedingsmiddelen](#), BS 8 juni 2009. (Royal decree on microbiological criteria for foodstuffs)

[KB 13 juli 2014 betreffende levensmiddelenhygiene](#), BS 29 augustus 2014 (Royal decree on hygiene of foodstuffs)

### **Labelling**

[KB 4 september 1972 betreffende de hoeveelheidsaanduiding](#), BS 28 september 1972. (Royal decree on quantity indications)

[KB 13 september 1999 betreffende de etikettering van voorverpakte voedingsmiddelen](#), BS 29 oktober 1999. (Royal decree on labeling of prepacked foodstuffs)

[KB van 17 juli 2014 tot vaststelling van de bepalingen inzake de mededeling van bepaalde stoffen en producten die allergieën of intoleranties veroorzaken voor niet-voorverpakte levensmiddelen](#), BS 12 augustus 2014. (Royal decree on information for allergies and intolerance on not-prepacked foodstuffs)

### **Specific product regulation**

#### **Frozen foods**

[KB 5 december 1990 betreffende diepvriesproducten](#), BS 26 januari 1991. (Royal decree on frozen foods)

#### **Genetically modified organisms**

[KB 21 februari 2005 tot reglementering van de doelbewuste introductie in het leefmilieu evenals van het in de handel brengen van genetisch gemodificeerde organismen of van producten die er bevatten](#), BS 24 februari 2005. (Royal decree on introduction and placing on the market of GMO's or products including GMO's)

#### **Novel foods**

Novel foods: lijsten met aanvaarde en niet-aanvaarde producten. (Lists of accepted and not-accepted products)

#### **Organic food products (decrees on production and labeling of organic products per region)**

Besluit van de Vlaamse regering 12 december 2008 betreffende de biologische productie en de etikettering van biologische producten. (Flemish decree)

[Besluit van de Brusselse hoofdstedelijke regering 3 december 2009 inzake de biologische productiemethode en de etikettering van biologische producten](#), BS 6 januari 2010. (Brussels decree)

[Besluit van de Waalse regering 11 februari 2010 inzake de productiemethode en etikettering van biologische producten en tot intrekking van het besluit van de Waalse Regering van 28 februari 2008](#), BS 2 oktober 2015 (Walloon decree)

***Protected Designation of Origin (PDO), Protected Geographical Indication (PGI) and Traditional Speciality Guaranteed (TSG) (per region)***

[Decreet van 19 december 2002 tot wijziging van het decreet van 7 september 1989 betreffende de toekenning van het Waalse kwaliteitslabel, de aanduiding van lokale herkomst en de aanduiding van Waalse herkomst](#), BS 5 februari 2003. (Walloon decree)

[Besluit van de Waalse Regering van 25 september 2003 houdende toepassing van het decreet van 7 september 1989 betreffende de aanduiding van lokale oorsprong en de aanduiding van het Waalse oorsprong alsmede het toepasselijk maken in het Waals Gewest van de verordeningen \(E.E.C.\) nr. 2081/92 en nr. 2082/92](#), last amended 14 juli 1016, BS 14 september 2016. (Walloon decree)

[Besluit van de Vlaamse Regering van 19 oktober 2007 betreffende de bescherming van geografische aanduidingen en oorsprongsbenamingen van landbouwproducten en levensmiddelen en de gegarandeerde traditionele specialiteiten voor landbouwproducten en levensmiddelen](#), BS 7 november 2007. (Flemish decree)

[Besluit van de Brusselse Hoofdstedelijke Regering van 22 oktober 2009 betreffende de bescherming van geografische aanduidingen en oorsprongsbenamingen van landbouwproducten en levensmiddelen en betreffende de gegarandeerde traditionele specialiteiten voor landbouwproducten en levensmiddelen](#), BS 20 november 2009. (Brussels decree)

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*

**Existing indicators used: intelligence sources**

*Please provide a list of intelligence tools used to detect/counter food fraud issues in your member state (e.g. Horizon Scanning, Interpol, Europol, National Crime agencies)*

1. Title + web link

Key contacts:

**1. Food fraud vulnerability assessment: Free online tool helps food companies fight fraud to protect consumers (SSafe + PwC)**

<http://www.pwc.be/en/documents/media-centre/publications/2016/food-fraud-vulnerability-assessment-tool-belgium.pdf>

2. Infolabel: <https://www.infolabel.be/>

## **Commodities/products of interest and type of research of interest**

### **1. Commodities/products of interest**

*Please provide a list of the commodities/food products in priority order most important for each MS in terms of value to that country.*

- 1) Dairy products : butter (Beurre d'Ardenne), cheese (Fromage de Herve)
- 2) Meat : pig (jambon d'Ardenne, paté Gaumais), poultry,
- 3) Beers : trappists, gueuzes, ...
- 4) Feed : cereals, feedingstuffs, DDGs,
- 5) Organic food
- 6) Vegetables: potato (Plate de Florenville)

See <http://www.apaqw.be/Qualite-identifiee.aspx>

### **2. Type of research of interest**

*Please provide a list of type of research (e.g. criminology, critical points, historical points, analytical methods, consumer behaviour, economic aspects) in priority order most important for each MS in terms of value to that country).*

- 1) Harmonisation of the analytical methods
- 2) Consumer confidence (traceability, local products)
- 3) Fraud prevention

## Annex 2

### Authent-Net Member State (MS) National Status Report

#### Country: Bulgaria

*Please note that the information provided here below will be put on the Food Authenticity Research Network Hub (FARNH) which will be publically accessible. So please do not include any confidential information.*

#### List of organisations that fund food anti- fraud/food authenticity research and the type of research they fund

*Please provide a list of organisations (Government + NGO whatever the nationality) that are funding projects on food authenticity in your MS*

**1. Name** (*Categorise into government/NGO, public/public-private*)

Address

Web site link

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

Short description of the funder

*Click here to privately contact the persons responsible for Food Authenticity funding.*

*(This would take you to a secure location [eg. LinkedIn private chat] to contact relevant funder, only once you are able to prove that you are from another funding organisation).*

**1. MoAF:Ministry of Agriculture and Food** (Government, public)

55, Hristo Botev Blvd., Sofia 1040

+3592/8187100,/81-87-202

<http://www.mzh.government.bg>

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

Government administration

Contacts: *Policy on Agri-food Chain Directorate*

+359 2985 11 858

+359 2985 11 384

**2. BNSF: Bulgarian National Science Fund** (Government, public)

239B, Al. Stambolijski Blvd.; Sofia 1309

+3592/8187100,/81-87-202

<http://www.fni.bg>

**Type of research funded: BASIC AND APPLIED RESEARCH**

Provide funding on competitive basis

Contact: *Prof. Dr. Vesselin Brezin - Chief Executive*

+359 28208842

## **Plan/Strategy in terms of Authenticity Research Funding**

*Please provide a web link to a plan/strategy on food authenticity for each specific funding organisation (see 1<sup>st</sup> box), provided there is one, or anything the funding organisations are able to provide (general plan/strategy on food). That should include policy documents, research/surveillance documents where possible.*

**1. Funding organisation name + web link to plan + Key decision making committees**

**Plan/Strategy by institution numbered according to the previous list of funding bodies.**

### **1. Directorate on Policies on Agri-food Chain at the Ministry of Agriculture and Food**

The directorate assists the minister in the development, coordination and implementation of state policies in the field of quality and safety of food and feed, animal health and welfare, plant health and plant reproductive material and develops and / or coordinate draft regulations relating to the safety of food and feed, animal health and welfare, plant health and plant reproductive material.

<http://www.mzh.government.bg>

Contact: Dr. Lora Pastuhova-Juparova  
55, Hristo Botev Blvd., Sofia 1040  
+3592/987 11 74

**Plan/Strategy by institution of no funding bodies on food authentication but involved in food control.**

### **2. BFSA: Bulgarian Food Safety Agency**

Bulgarian Food Safety Agency (BFSA) is a single authority to control the safety and quality of foods in Bulgaria. Established in early 2011, BFSA follows the best practices in the application of high standards in monitoring the safety and quality of food, food additives and drinks, veterinary medicine and animal welfare, plant protection and fertilizers, phytosanitary control feed, border control and others. BFSA implements consistent policy of cooperation with professional organizations in the country. The agency develops and creates standards aimed at improving the quality of traditional products such as bread, milk, dairy and meat products, as well as other traditional Bulgarian food

<http://www.babh.government.bg/en>

[http://babh.government.bg/bg/Page/about\\_us/index/about\\_us/For%20nas#sthash.bOck670R.dpuf](http://babh.government.bg/bg/Page/about_us/index/about_us/For%20nas#sthash.bOck670R.dpuf)

Contact: Dr. Damyan Iliev – Executive Director, email: [ceo@bfsa.bg](mailto:ceo@bfsa.bg)  
15A Pencho Slavejkov Blvd. Sofia 1000  
+3592/915 98 20



### **3. Risk Assessment Center**

Performs independent scientific risk assessment regarding food safety, human health, animal health and welfare, food additives and feed, genetically modified organisms, dietetic products, nutrition and allergies, materials and articles intended for contact food enzymes, flavorings and processing aids, biological hazards, contaminants, plant health and plant protection. The Center performs independent scientific assessment by the direct award by the European authority for food safety (EFSA) and the award of other public bodies and individuals and legal entities for payment according to the price list under Art. 3, para. 5 of the Law of the Bulgarian Food Safety Agency

<http://www.babh.government.bg/en/Page/34/index/34/Център%20за%20>

Contact: Prof. Boyko Likov  
136 Tzar Boris III Blvd., Sofia  
+3592/ 955 74 54

### **4. Regional Directorate for Food Safety – Sofia**

There are 20 in total regional directorates operating in Bulgaria under the umbrella of Bulgarian Food and Safety Agency for the main regions with offices in the following towns: Sofia-city, Sofia-county;

<http://www.babh.government.bg/en>

Contact: Dr. Anton Genov –Director, email: rvs\_22@nvms.government.bg  
7 Danail Nikolaev Str. Sofia 1000  
+3592/ 944 46 36

### **5. Specialized administration centres of the Bulgarian Agency for Food Safety**

There are 12 units.

<http://www.babh.government.bg/bg/Page/157/index/157/Специализи>

### **6. NCPHA: National Center of Public Health and Analyses**

<http://www.babh.government.bg/en>

Contact: Assoc. Prof. Hristo Hinkov - Director, email: h.hinkov@ncpha.government.bg  
7 Danail Nikolaev Str. Sofia 1000  
+ 3592/ 8056 331

## Capabilities/Infrastructure of Authenticity research providers/relevant NRLs

*Please provide details of national capabilities (public and private) in terms of food authenticity analysis (relevant National Reference Laboratories, certified laboratories etc.) and in terms of Food Authenticity Research.*

**1. Name** (Categorise into academic/research, general proficiency, expertise in a specific technique and/or commodity)

Address

Web site:

Contact available through: (Any web sites where contact details of key personnel are available)

Telephone:

### 1. Joint Genomic Center

8 Dragan Tsankov Blvd, floor 4, Sofia 1164

<http://www.jgc-bg>.

Contact: Prof. Dr. Atanas Attanasov (atanas\_atanassov@jgc-bg.org)

Tel: +35928167334

## Recent key Cases/Reports/Reviews (after 2010)

*Please provide a list of web links to public outputs, documents, papers, reports, databases on incidents, detection methods, ... in relation to food authenticity your MS is involved (see T1.1)*

**1. Title + web link**

**1. National Plan for Development of Organic Farming in Bulgaria in the period 2009-2013**

<http://www.mzh.government.bg/MZH/bg/ShortLinks/BiologichnoZemedelie/Actualno.aspx>

**2. Development of Organic Farming in Bulgaria – Report, Ministry of Agriculture and Food, 2014**

<http://www.mzh.government.bg/MZH/bg/ShortLinks/BiologichnoZemedelie/Actualno.aspx>

**3. Annual statistics for 2015 for the production of organic products, crop areas included in the control system in accordance with Article 36 of Regulation (EC) 834/2007**

[http://ec.europa.eu/eurostat/statistics-explained/index.php/Organic\\_farming\\_statistics](http://ec.europa.eu/eurostat/statistics-explained/index.php/Organic_farming_statistics)

*Key information to be registered/extracted on/ from the Authent-Net Documents database (FARNHub)*

## **Ongoing Projects (after 2010) including national-international/public-private funded projects)**

*Please provide a list of ongoing projects on food authenticity your MS is involved in (see T1.1)*

1. Name, funding, start/end date + Web site link

### **Projects funded by BNSF: Bulgarian National Science Fund**

<http://www.fni.bg>

1. OMIKS approach to analyse metabolic profile and biological activity of edible plants from the Bulgarian flora

Beneficiary: University of Food Technologies – Plovdiv

Start of project: 2016; End of project: 2018-2019

2. Molecular genetic characterization of pollen composition of Bulgarian bee honey

Beneficiary: Institute of Animal Sciences - Kostinbrod, Agricultural academy

Start of project: 2016; End of project: 2018-2019

3. Genetic polymorphism in the gene locus DMRT3 in horse breeds in Bulgaria

Start of project: 2016; End of project: 2019

4. Phenotyping and genotyping of samples pepper (*Capsicum annuum* L.) originating in the Balkans to create a core-collection

Beneficiary: Institute of Vegetable Crops "Maritsa" (OFF "Maritza") Plovdiv, Agricultural academy

Start of project: 2016; End of project: 2019

5. Identification of specific interactions between Potato Spindle Tuber Viroid and two Bulgarian pepper varieties

Beneficiary: Plovdiv University

Start of project: 2016; End of project: 2019

6. Study of the mechanism of accumulation of biologically active ingredients of plant origin in the body of the Bulgarian breeds of farm animals and their impact on the quality of meat as a natural functional food

Beneficiary: University of Food Technologies

Start of project: 2016; End of project: 2019

7. Study of adaptive mechanisms of drought tolerance in Bulgarian winter wheat varieties

Beneficiary: Institute of Plant Physiology and Genetics - Bulgarian Academy of Sciences

Start of project: 2016; End of project: 2019

**8.** Integration of molecular and genetic approaches to study the biodiversity of the honeybee (*Apis mellifera* L.: Hymenoptera: Apidae) and diagnostics of economically significant diseases in bees and brood in Bulgaria

Beneficiary: Institute of Biodiversity and Ecosystem Research

Start of project: 2016 End of project: 2019

**9.** The Challenges for quality and safety along the food chain

Beneficiary: New Bulgarian University

Start of project: 2016; End of project: 2019

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*

### **Legal framework for food authenticity (in application at a national level)**

*Please provide a list of standards/regulations on food authenticity applied in your MS (see T1.2)*

**1.** Title + web link

**1.** Law implementing the common organization of agricultural markets of the European Union

[www.mzh.government.bg/MZH/Libraries/МЛЯКО/Law\\_ZPOOPZPES\\_2016.sflb.ashx](http://www.mzh.government.bg/MZH/Libraries/МЛЯКО/Law_ZPOOPZPES_2016.sflb.ashx)

**2.** National Programme for prevention, control and eradication of animal diseases and zoonoses, the 2016-2018 (only available in Bulgarian language)

<http://www.babh.government.bg/bg/Page/npp/index/npp/Национална>

**3.** Ordinance№ 1 OF 7 February 2013 on the application of rules of organic production of plants Livestock and aquaculture, plant, animal products aquaculture products and food and their Labeling and control on production and labeling. only available in Bulgarian language

<http://www.mzh.government.bg/mzh/ShortLinks/BiologichnoZemedelie/BZNormativnaBaza.aspx>

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*

## **Existing indicators used: intelligence sources**

*Please provide a list of intelligence tools used to detect/counter food fraud issues in your member state (e.g. Horizon Scanning, Interpol, Europol, National Crime agencies)*

### **1. Title + web link**

#### **1.Center for Food Quality and Safety Education**

The Center operates under the auspices of the University of Food technologies – Plovdiv and provided training seminars on ensuring quality and safety of food, beverages and feed.

Dept. Biotechnology, University of Food Technologies,  
26 Maritza Blvd, 4000 Plovdiv  
<http://www.safefoodlab.com>

Contact: Prof. Angel Angelov (angelov@uft-bio.com)  
Tel: +359 32 603608

## **Commodities/products of interest and type of research of interest**

### **1. Commodities/products of interest**

*Please provide a list of the commodities/food products in priority order most important for each MS in terms of value to that country.*

- 1) Honey
- 2) Dairy (milk and milk products)
- 3) Wine and other alcoholic drinks
- 4) Cereals and rice
- 5) Herbs and spices

### **2. Type of research of interest**

*Please provide a list of type of research (e.g. criminology, critical points, historical points, analytical methods, consumer behaviour, economic aspects) in priority order most important for each MS in terms of value to that country).*

- 1) Analysis for allergenic potential
- 2) Detection of frauds (fats, proteins)
- 3) Detection of antibiotics
- 4) Confirmation of geographic origin of wine and honey, herbs and spices.

## Annex 3

### Authent-Net Member State (MS) National Status Report

Country: Czech Republic

*Please note that the information provided here below will be put on the Food Authenticity Research Network Hub (FARNH) which will be publically accessible. So please do not include any confidential information.*

#### List of organisations that fund food anti- fraud/food authenticity research and the type of research they fund

*Please provide a list of organisations (Government + NGO whatever the nationality) that are funding projects on food authenticity in your MS*

1. Name (Categorise into government/NGO, public/public-private)

Address

Web site link

Short description of the funder

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

*Click here to privately contact the persons responsible for Food Authenticity funding.*

(This would take you to a secure location [eg. LinkedIn private chat] to contact relevant funder, only once you're able to prove that you are from another funding organisation).

**1. Ministry of Agriculture of the Czech Republic** (Government, public)

Tesnov 17, 117 05, Prague 1

e-mail: [info@mze.cz](mailto:info@mze.cz)

<http://eagri.cz/public/web/en/mze/>

<http://eagri.cz/public/web/en/mze/consultancy-research/>

The Department of Research, Training and Consultancy

**National Agency for Agricultural Research (NAZV)**

Contact person : Jana Slaba, e-mail: [jana.slaba@mze.cz](mailto:jana.slaba@mze.cz), phone no.: +420 221 812 107

**Research, Education and Consultancy Dept.**

Contact person : Pavlina Adam, e-mail: [pavlina.adam@mze.cz](mailto:pavlina.adam@mze.cz)

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

The Ministry of Agriculture is the central public administrative authority for agriculture, the water sector and the food processing industry, and for forestry, game management, hunting and fishing. The Ministry is also the central public administrative authority for commodity exchanges which organise trade in goods originating from agricultural and forestry production. In addition to this, it acts as the central public administrative authority for veterinary and phytosanitary services, food safety and quality management, the prevention of cruelty to animals, and protection of rights in regard to new varieties of plants and breeds of animals. The Ministry of Agriculture is in charge of the Czech Agricultural and Food Inspection Authority, the State Veterinary Administration of the Czech Republic, the State Phytosanitary Administration of the Czech Republic, the Central Institute for Supervising and Testing in Agriculture and the Czech Breeding Inspection Authority.

The Ministry of Agriculture manages R&D for the entire agricultural sector, and invests significant funding into its support and development. Thanks to this funding, the results produced by some Czech research teams rank them among the best in their field both in Europe and worldwide.

#### SCIENCE AND RESEARCH

The Ministry of Agriculture conceptually and methodologically manages departmental organisations engaged in research. It is responsible for the implementation of the National Research Policy and the National Innovation Strategy at the Ministry, prepares a Concept for Research and Development within the Ministry's field of competence and ensures that it is implemented, and draws up a list of priorities for national and international programmes dealing with the issues of agricultural research, development and innovation. The Ministry also coordinates collaboration in the area of ministerial R&D&I within the Czech Republic, and the involvement of the ministerial scientific research teams in European research projects.

#### **2. Ministry of Education, Youth and Sports (Government, public)**

Karmelitska 529/5

118 12 Prague 1, Czech Republic

e-mail: [info@msmt.cz](mailto:info@msmt.cz);

a range of contact persons for individual types of  
calls <http://www.msmt.cz/index.php?lang=2>

**National support for Research and Development:** <http://www.msmt.cz/vyzkum-a-vyvoj-2/pro-odborniky>

**Support for international cooperation in Research and Development:** <http://www.msmt.cz/vyzkum-a-vyvoj-2/podpora-mezinarodni-spoluprace-ve-vavai>

#### **Type of research funded: BASIC/EXPERIMENTAL/APPLIED RESEARCH/DEVELOPMENT**

The Ministry of Education, Youth and Sports is the central organ of the state administration for preschool facilities, school facilities, elementary schools, secondary schools and higher education institutions, for scientific policy, research and development, including international cooperation in this area, and for scientific titles, for state care for children, youth, physical education, sport, hiking and the sport representation of the state.

The Central Administrative Office Responsible for Research and Development ensures mainly:

- a) the preparation of the National Research and Development Policy of the Czech Republic in accordance with international treaties and the monitoring of its implementation in the form of positions on the compliance of the programmes of research and development presented by the providers with the National Research and Development Policy of the Czech Republic before these programmes are approved by the Government;
- b) the preparation of the priorities in the form of the National Research Programme;
- c) the implementation of the priorities of research in the areas that are not within the scope of the activities of the providers in the form of ensuring parts of the National Research Programme;
- d) the preparation of the legal regulations on research and development and the evaluation of the consequences of other legal regulations on research and development;

e) international cooperation of the Czech Republic in research and development, including meetings with the organs and institutions of the European communities and the individual member states active in research and development, with the exception of international cooperation in defence research and development, for which the Ministry of Defence is responsible.

(3) When the representation of the Czech Republic in the relevant international organs and organisations is ensured by the Ministry, it presents a report to the Government on the course and results of the cooperation after discussion with the Research and Development Council and publishes the report after it has been discussed by the Government.

*(provisions of Section 33 of Act No. 130/2002 Coll., On Research and Development Support from Public Funds and on the Amendment of Some Related Acts (Act on Research and Development Support)*

### **3. The Ministry of Industry and Trade** (Government, public)

Na Frantisku 32, Praha 1, 110 15

mailto:[posta@mpo.cz](mailto:posta@mpo.cz)

<http://www.mpo.cz/en/> ; <http://www.mpo.cz/en/business/support-for-research-and-development/>

LinkedIn: <https://www.linkedin.com/company/ministry-of-industry-and-trade-of-the-czech-republic/>

#### **Type of research funded: INDUSTRIAL/EXPERIMENTAL/APPLIED RESEARCH/DEVELOPMENT**

Ministry of Industry and Trade is a central government body for economic and trade policy, issues of small and medium-sized enterprises and trades, energy and raw materials state policy and the coordination of foreign trade policy of the Czech Republic.

### **4. GACR (Czech Science Foundation)** (Government, public)

Evropska 2589/33b, 160 00, Praha 6

e-mail: [info@gacr.cz](mailto:info@gacr.cz)

<https://gacr.cz/en/>

#### **Type of research funded: BASIC RESEARCH/DEVELOPMENT**

The Czech Science Foundation (also known as the Grant Agency of the Czech Republic, GA CR) was established in 1993 as the main independent public organization with the aim to support basic research in the Czech Republic and promote international collaboration of researchers and research teams on the bilateral and multilateral levels.

On the basis of calls for proposals, the Czech Science Foundation provides financial support for experienced as well as young and early-stage researchers. Moreover, it funds bilateral projects together with projects carried out within international research programmes. The subject of a project proposal is determined by the applicant (bottom-up principle).

Around 2,500 project proposals are submitted to the GA CR every year, of which more than one-fourth obtain financial support. The GA CR invites proposals in all disciplines of basic research.



## **5. TA CR (Technology Agency of the Czech Republic) (Government, public)**

Evropska 1692/37

160 00 Praha 6

e-mail: [info@tacr.cz](mailto:info@tacr.cz)

<https://www.tacr.cz/index.php/en/>

### **Type of research funded: EXPERIMENTAL/APPLIED RESEARCH/DEVELOPMENT**

The Technology Agency of the Czech Republic is an organizational unit of the state that was founded in 2009 by the Act No. 130/2002 Coll. on the support of research, experimental development and innovation. The creation of TA CR is one of the cornerstones of the fundamental reforms in research and development (R&D) in the Czech Republic. The key features of the reform are the redistribution of financial support from the national budget. The Technology Agency of the Czech Republic simplifies the state support of applied research and experimental development which has been fragmented and implemented by many bodies before the reform.

### **Plan/Strategy in terms of Authenticity Research Funding**

*Please provide a web link to a plan/strategy on food authenticity for each specific funding organisation (see 1<sup>st</sup> box), provided there is one, or anything the funding organisations are able to provide (general plan/strategy on food). That should include policy documents, research/surveillance documents where possible.*

Funding organisation name + web link to plan + Key decision making committees

### **Plan/Strategy by institution numbered according to the previous list of funding bodies.**

#### **1. Ministry of Agriculture of the Czech Republic**

<http://eagri.cz/public/web/en/mze/subsidies/>

Concept and strategy:

<http://eagri.cz/public/web/en/mze/consultancy-research/>

<http://eagri.cz/public/web/mze/poradenstvi-a-vyzkum/vyzkum-a-vyvoj/koncepce-a-strategie/>

#### **2. Ministry of Education, Youth and Sports**

International cooperation in research and development

<http://www.msmt.cz/vyzkum-a-vyvoj-2/podpora-mezinarodni-spoluprace-ve-vavai?lang=1>

#### **3. The Ministry of Industry and Trade**

<http://www.mpo.cz/en/business/support-for-research-and-development/the-new-program-trio--160149/>

#### **4. GACR (Czech Science Foundation)**

<https://gacr.cz/en/about-gacr>

#### **5. TA CR (Technology Agency of the Czech Republic)**

<https://www.tacr.cz/index.php/en/>

## Capabilities/Infrastructure of Authenticity research providers/relevant NRLs

*Please provide details of national capabilities (public and private) in terms of food authenticity analysis (relevant National Reference Laboratories, certified laboratories etc.) and in terms of Food Authenticity Research.*

**1. Name** (Categorise into academic/research, general proficiency, expertise in a specific technique and/or commodity)

Address

Web site:

Contact available through: *(Any web sites where contact details of key personnel are available)*

Telephone:

### ACADEMIC:

#### 1. University of Chemistry and Technology, Prague

Metrological and Testing Laboratory, Department of Food Analysis and Nutrition

Address: Technicka 5, Prague 6, 166 28

Web site: <http://www.vscht.cz/testing-laboratory>; <http://uapv.vscht.cz/>

### RESEARCH INSTITUTES:

#### 2. Bee Research Institute

Address: Maslovice – Dol 94, Libcice nad Vltavou

Web site: <http://www.beedol.cz/>

#### 3. Veterinary Research Institute

Address: Hudcova 70, Brno

Web site: <https://www.vri.cz/>

#### 4. Institute of Animal Science

Address: Pratelstvi 815, Praha - Uhrineves

Web site: <http://www.vuzv.cz/>

#### 5. State Veterinary Institute

Address: Sidlistni 21, Prague 6; Contact : Jan Rosmus, [jan.rosmus@svupraha.cz](mailto:jan.rosmus@svupraha.cz)

Web site: <https://www.svupraha.cz/>

Address: Jakoubka ze Stribra 462/1, Olomouc

Web site: <http://www.svuolomouc.cz/index.php?nid=8804&lid=en&oid=1771240>

Address: Rantiovská 93/20, Jihlava

Web site: <http://www.svujihlava.cz/?jazyk=en>

### NATIONAL REFERENCE LABORATORIES:

#### 6. National Reference Laboratory (NRL) for Food Additives

Address: Srobarova 48, Praha 10

Web site: <http://www.szu.cz/nrl-pro-aditiva-v-potravinach>

Contact: Daniela Winklerova, tel.: +420 26708 2341

### **7. National Reference Laboratory (NRL) for Microbiology of Food, Items of Current Use and Indoor Environment**

Address: Srobarova 48, Praha 10

Web site: <http://www.szu.cz/nrl-pro-mikrobiologii-potravin-pbu>

Contact: RNDr. Vladimír Špelina, CSc. E-mail: [vspel@szu.cz](mailto:vspel@szu.cz)

### **8. National Reference Laboratory (NRL) for Genetically Modified Food**

Address: Srobarova 48, Praha 10

Web site: <http://www.szu.cz/narodni-referencni-laborator-pro-geneticky-modifikovane>

Contact: V. Ostry, Tel./Fax: +420 541211764, Tel.: +420 515577523

### **NATIONAL CONTROL BODIES:**

#### **9. Czech Agriculture and Food Inspection Authority (CAFIA)**

National contact point for Assistance and Cooperation System (AACs) in Europe that supports and facilitates communication among control authorities that are involved in the fight against food fraud in Europe.

Directorate: Kvetna 15, 603 00 Brno

Web site: <http://www.szpi.gov.cz/en/default.aspx>

Contact: Petr Cuhra (director of Prague inspectorate), Za Opravnou 300/6, 150 00 Prague 5, [Petr.Cuhra@szpi.gov.cz](mailto:Petr.Cuhra@szpi.gov.cz) ; tel: +420 257 199 511

#### **10. Customs Technical Laboratories**

Address: Budejovicka 7, Praha 4

Web site: <https://www.celnisprava.cz/cz/o-nas/nase-ukoly/Stranky/celne-technicke-laboratore.aspx>

### **LABORATORIES:**

#### **11. EUROFINS CZ, s.r.o.**

Address: Podebradska 56, Praha 9

Web site: <http://www.eurofins.cz/>

#### **12. ALS Czech Republic**

Address: Na Harfe 9, Praha 9

Web site: <http://alsglobal.cz/>

#### **13. BUREAU VERITAS CZECH REPUBLIC, spol. s r.o.**

Address: Beranovych 130, Praha 9

Web site: <http://www.bureauveritas.cz/>

#### **14. EKOCENTRUM OVALAB, s.r.o.**

Address: Martinovska 3248/166, Ostrava – Martinov

Web site: <http://www.ekocentrum.net/>

## Recent key Cases/Reports/Reviews (after 2010)

*Please provide a list of web links to public outputs, documents, papers, reports, databases on incidents, detection methods, ... in relation to food authenticity your MS is involved (see T1.1)*

### 1. Title + web link

*Key information to be registered/extracted on/ from the Authent-Net Documents database (FARNHub)*

#### 1. Food Pillory

Portal on poor-quality, adulterated and dangerous food on the market operated by the Czech Agriculture and Food Inspection Authority (CAFIA)

<http://www.potravinynapranryri.cz/>

A range of cases for various products reported by CAFIA.

#### 2. Food Safety Information Centre

<http://www.foodsafety.cz/>

#### 3. Methanol affair

[https://en.wikipedia.org/wiki/2012\\_Czech\\_Republic\\_methanol\\_poisonings](https://en.wikipedia.org/wiki/2012_Czech_Republic_methanol_poisonings)

<http://byznys.ihned.cz/zpravodajstvi-cesko/c1-57577550-z-ceska-se-nesmi-dostat-ani-kapka-alkoholu-ministr-zdravotnictvi-zakazal-jeho-vyvoz>

## Scientific papers on food authentication (published by UCT Prague):

Rubert J., Lacina O., Zachariasova M., Hajslova J.: *Saffron authentication based on liquid chromatography high resolution tandem mass spectrometry and multivariate data analysis*. Food Chem. 204: 201–209 (2016). (doi:[10.1016/j.foodchem.2016.01.003](https://doi.org/10.1016/j.foodchem.2016.01.003))

Hrbek V., Ovesná J., Demnerová K., Hajšlová J.: *Využití superkritické fluidní chromatografie pro lipidomické profilování sójového a kravského mléka: Autenticita a detekce falšování*. Chemické listy (2015) 109: 518-526. ([pdf](#))

Rubert J., Lacina O., Fahl-Hassek C., Hajslova J.: *Metabolic fingerprinting based on high resolution tandem mass spectrometry: a reliable tool for wine authentication?* Anal. Bioanal. Chem. (2015) 406: 6791–6803. (doi: [10.1007/s00216-014-7864-y](https://doi.org/10.1007/s00216-014-7864-y)).

Vermeulen P., Nietner T., Haughey S. A., Yang Z., Tena N., Chmelarova H., van Ruth S., Tomaniova M., Boix A., Han L., Elliott C. T., Baeten V., Fahl-Hassek C.: *Origin authentication of distillers' dried grains and solubles (DDGS)—application and comparison of different analytical strategies*. Analytical and bioanalytical chemistry (2015), 407, Issue 21, 6447–6461. (doi: [10.1007/s00216-015-8807-y](https://doi.org/10.1007/s00216-015-8807-y)).

Hrbek V., Ovesná J., Demnerová K., Hajšlová J.: *Lze využít metabolomické profilování pro autenticitu geneticky modifikované sóji?: pilotní studie*. Chem. Listy, (2014) 108: 875-881. (pdf)

Hrbek V., Vaclavik L., Elich O., Hajslova J.: *Authentication of milk and milk-based foods by direct analysis in real time ionization–high resolution mass spectrometry (DART–HRMS) technique: a critical assessment*. Food Control (2014) 36:138–145. (doi: 10.1016/j.foodcont.2013.08.003).

Cajka T., Danhelova H., Zachariasova M., Riddellova K., Hajslova J.: *Application of direct analysis in real time ionization–mass spectrometry (DART–MS) in chicken meat metabolomics aiming at the retrospective control of feed fraud*. Metabolomics (2013) 9:545–557. (doi: 10.1007/s11306-013-0495-z).

Cajka T., Danhelova ., Vavrecka A., Riddellova K., Kocourek V., Vacha F., Hajslova J.: *Evaluation of direct analysis in real time ionization–mass spectrometry (DART–MS) in fish metabolomics aimed to assess the response to dietary supplementation*. Talanta (2013) 115: 263-270. (doi:10.1016/j.talanta.2013.04.025).

Vaclavik L., Ovesna J., Kucera L., Hodek J., Demnerova K., Hajslova J.: *Application of ultra-high performance liquid chromatography–mass spectrometry (UHPLC–MS) metabolomic fingerprinting to characterize GM and conventional maize varieties*. Czech J. Food Sci. (2013), (pdf).

Novotná H., Kmiecik O., Galazka M., Krtková V., Hurajová A., Schulzová V., Rembialkowska E., Hajšlová J.: *Metabolomic fingerprinting employing DART-TOFMS for authentication of tomatoes and peppers from organic and conventional farming*. Food Addit. Contam. A (2012) 29:1335–1346. (doi:10.1080/19440049.2012.690348).

Vaclavik L., Schreiber A., Lacina O., Cajka T., Hajslova J.: *Liquid chromatography–mass spectrometry-based metabolomics for authenticity assessment of fruit juices*. Metabolomics (2012) 8:793–803. (doi: 10.1007/s11306-011-0371-7).

Cajka T., Riddellova K., Tomaniova M., Hajslova J.: *Ambient mass spectrometry employing a DART ion source for metabolomic fingerprinting/profiling: a powerful tool for beer origin recognition*. Metabolomics (2011) 7:500–508. (doi: 10.1007/s11306-010-0266-z).

Vaclavik L., Hrbek V., Cajka T., Rohlik B.-A., Pipek P., Hajslova J.: *Authentication of animal fats using direct analysis in real time (DART) ionization–mass spectrometry and chemometric tools*. J. Agric. Food Chem. (2011) 59:5919–5926. (doi: 10.1021/jf200734x).

Vaclavik L., Lacina O., Hajslova J., Zweigenbaum J.: *The use of high performance liquid chromatography–quadrupole time-of-flight mass spectrometry coupled to advanced data mining and chemometric tools for discrimination and classification of red wines according to their variety*. Anal. Chim. Acta (2011) 685:45–51. (doi: 10.1016/j.aca.2010.11.018).

- Cajka T., Riddellova K., Tomaniova M., Hajslova J.: *Recognition of beer brand based on multivariate analysis of volatile fingerprint*. J. Chromatogr. A (2010) 1217:4195–4203. (doi: 10.1016/j.chroma.2009.12.049).
- Cajka T., Riddellova K., Klimankova E., Cerna M., Pudil F., Hajslova J.: *Traceability of olive oil based on volatiles pattern and multivariate analysis*. Food Chem. (2010) 121:282–289. (doi: 10.1016/j.foodchem.2009.12.011).
- Cajka T., Hajslova J., Pudil F., Riddellova K.: *Traceability of honey origin based on volatiles pattern processing by artificial neural networks*. J. Chromatogr. A (2009) 1216:1458–1462. (doi: 10.1016/j.chroma.2008.12.066).
- Vaclavik L., Cajka T., Hrbek V., Hajslova J.: *Ambient mass spectrometry employing direct analysis in real time (DART) ion source for olive oil quality and authenticity assessment*. Anal. Chim. Acta (2009) 645:56–63. (doi: 10.1016/j.aca.2009.04.043).
- Grégrová A., Čížková H., Mazáč J., Voldřich M.: *Authenticity and quality of spirit vinegar: Methods for detection of synthetic acetic acid addition*. Journal of Food and Nutrition Research. 51, 123-131 (2012)
- Šnebergrová J., Čížková H., Rajchl A., Ševčík R., Voldřich M.: *Evaluation of aroma restoration of apple and orange juices from concentrates in the Czech Republic*. Journal of Food and Nutrition Research, 51 (3), 156-163 (2012).
- Grégrová A., Čížková H., Bulantová I., Rajchl A., Voldřich M.: *Characteristics of Garlic of the Czech origin*. Czech Journal of Food Sciences, 31, 581-588 (2013).
- Rajchl A., Čížková H., Ševčík R., Jodasová A., Voldřich M.: *Analytical data for plum paste as a tool for evaluation of plum paste authenticity*. Journal of Food and Nutrition Research, 52, 71-77 (2013).
- Grégrová A., Neradová E., Kružík V., Mazáč J., Havelec P., Čížková H.: *Determining adulteration of canned products using SNIF-NMR and IRMS: detection of undeclared addition of synthetic acetic acid*. Eur. Food Res. Tech. 239, 169-174 (2014). (doi: 10.1007/s00217-014-2209-9)
- Škorpilová T., Šimoniová A., Rohlík B., Pipek P.: *Differentiation between Fresh and Thawed Chicken Meat by the Measurement of Aconitase Activity*. Czech J. Food Sci. 32, (5) (2014) 509–513 ISSN 1212-1800. IF 0,741
- Rajchl A., Prchalova J., Kružík V., Ševčík R., Čížková H.: *Evaluation of ice-tea quality by DART-TOF/MS*. J. Mass Spectrom. 50, 1214-1221 (2015). (doi: 10.1002/jms.3639)
- Hurkova K., Rubert J., Stranska-Zachariasova M., Hajslova J.: *Strategies to Document Adulteration of Food Supplement Based on Sea Buckthorn Oil: a Case Study*. Food Analytical Methods, in press. (doi: 10.1007/s12161-016-0674-4)

**Ongoing Projects (after 2010) including national-international/public-private funded projects)**

*Please provide a list of ongoing projects on food authenticity your MS is involved in (see T1.1)*

1. Name, funding, start/end date + Web site link

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*

1. FoodIntegrity (Ensuring the Integrity of the European food chain), EU FP7, 2014-2018, <http://www.foodintegrity.eu>
2. QSAFFE (Quality and SAFety of Feeds and Food for Europe), EU FP7, 2011-2014, <http://www.qsaffe.eu/>
3. Authent-Net (AUTHENT-NET – Food Authenticity Research Network), EU H2020, 2016-2018, <http://www.authent-net.eu>
4. AuthenticFood (Fast methods for AUTHENTICation of organic plant based FOODs), ERA–NET–CORE ORGANIC II, 2011-2014, <http://www.coreorganic2.org/>
5. FoodFraud (Complex strategies for effective detection of food fraud in the chain production-consumer), Ministry of Agriculture of the Czech Republic, 2015-2018, <https://www.rvvi.cz/cep?s=jednoduche-vyhledavani&ss=detail&n=0&h=QJ1530272>
6. Methods for identification, traceability and authentication of food and feed components of animal origin, Ministry of Agriculture of the Czech Republic, 2015-2018, <https://www.rvvi.cz/cep?s=jednoduche-vyhledavani&ss=detail&n=0&h=QJ1530107>
7. Prague University Analytical Centre II and III - NPU 2015-2020, Ministry of Education, Youth and Sports, 2015-2020, <https://www.rvvi.cz/cep?s=jednoduche-vyhledavani&ss=detail&n=0&h=LO1601>
8. Methods and criteria for verifying the authenticity of food and food ingredients, Ministry of Agriculture of the Czech Republic, 2009-2013, <https://www.rvvi.cz/cep?s=jednoduche-vyhledavani&ss=detail&n=0&h=QI91B283>
9. Metabolomic fingerprinting and profiling as a tool for authentication and detection of saffron adulteration, Ministry of Education, Youth and Sports, 2012 – 2015, <https://www.rvvi.cz/cep?s=rozsiroene-vyhledavani&ss=detail&n=0&h=LD12035>
10. Diagnostic methods for laboratory control of poppy authentication, Ministry of Agriculture of the Czech Republic, 2017 – 2019, <https://www.rvvi.cz/cep?s=jednoduche-vyhledavani&ss=detail&n=0&h=QK1720263>

### **Legal framework for food authenticity (in application at a national level)**

*Please provide a list of standards/regulations on food authenticity applied in your MS (see T1.2)*

1. Title + web link

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*

**1. Act no. 110/1997 Coll. on food and tobacco products**

[http://eagri.cz/public/web/mze/legislativa/pravni-predpisy-mze/tematicky-prehled/Legislativa-MZe\\_uplna-zneni\\_zakon-1997-110-viceoblasti.html](http://eagri.cz/public/web/mze/legislativa/pravni-predpisy-mze/tematicky-prehled/Legislativa-MZe_uplna-zneni_zakon-1997-110-viceoblasti.html)

### **Existing indicators used: intelligence sources**

*Please provide a list of intelligence tools used to detect/counter food fraud issues in your member state (e.g. Horizon Scanning, Interpol, Europol, National Crime agencies)*

1. Title + web link

Key contacts:

**1. Food Pillory**

Portal on poor-quality, adulterated and dangerous food on the market operated by the Czech Agriculture and Food Inspection Authority (CAFIA)

<http://www.potravinynapranryri.cz/>

**2. Food Safety Information Centre**

<http://www.foodsafety.cz/>

**3. Czech Agriculture and Food Inspection Authority**

<http://www.szpi.gov.cz/en/default.aspx>

### **Commodities/products of interest and type of research of interest**

**1. Commodities/products of interest**

*Please provide a list of the commodities/food products in priority order most important for each MS in terms of value to that country.*

1) Honey

2) Wine

3) Meat

4) Fish

5) Cereals



6) Poppy

7) Food supplements

## 2. Type of research of interest

*Please provide a list of type of research (e.g. criminology, critical points, historical points, analytical methods, consumer behaviour, economic aspects) in priority order most important for each MS in terms of value to that country).*

1) Analytical methods

2) Control systems and fraud prevention

3) Consumer education

### **The National Research and Innovation strategy for smart specialization Czech Republic (National RIS3 strategy)**

Web site: <http://www.vyzkum.cz/FrontClanek.aspx?idsekce=741706>

### **Concept of research, development and innovation of the Ministry of Agriculture for the years 2016-2022**

Web

site: [http://eagri.cz/public/web/file/461417/Koncepcie\\_vyzkumu\\_vyvoje\\_a\\_inovaci\\_Ministerstva\\_z\\_emedelstvi\\_na\\_leta\\_2016\\_2022.pdf](http://eagri.cz/public/web/file/461417/Koncepcie_vyzkumu_vyvoje_a_inovaci_Ministerstva_z_emedelstvi_na_leta_2016_2022.pdf)

#### VII. 6. New methods to analyze the composition of food raw materials, food and properties

The research will involve primarily analytical methods, chemical, physico-chemical and microbiological and molecular genetics to be used for evaluating the quality of food (e.g. their falsification, authenticity, etc.), and their safety and further for process control or for control by authorized institutions in favour of the consumer. The research is directed into the following areas:

- a) indirect methods for monitoring of food quality,
- b) database of methods for food authentication,
- c) methods for the determination of selected food allergens,
- d) systems for quality and safety control,
- e) the development of selected rapid detection methods for physical, chemical, biological and microbiological feed and food contamination,
- f) monitoring of substances in the food chain – link food and farming practices,
- g) development of analytical methods based on principles of instrumental analysis, particularly chromatography and spectral analysis,
- h) development of microbiological and molecular biology methods for detection, identification and quantification of pathogenic, technologically undesirable and culture microorganisms,
- i) consumer education in knowledge on commodities and a healthy diet.

## Annex 4

### Authent-Net Member State (MS) National Status Report

#### Country: France

*Please note that the information provided here below will be put on the Food Authenticity Research Network Hub (FARNH) which will be publically accessible. So please do not include any confidential information.*

#### List of organisations that fund food anti- fraud/food authenticity research and the type of research they fund

*Please provide a list of organisations (Government + NGO whatever the nationality) that are funding projects on food authenticity in your MS*

**1. Name (Categorise into government/NGO, public/public-private)**

Address

Web site link

Short description of the funder

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

*Click here to privately contact the persons responsible for Food Authenticity funding.*

(This would take you to a secure location [eg. LinkedIn private chat] to contact relevant funder, only once you're able to prove that you are from another funding organisation).

**1. ANR: Agence Nationale de la Recherche**

Agence Nationale de la Recherche, 50, avenue Daumesnil, 75012 PARIS

Web: [www.agence-nationale-recherche.fr/](http://www.agence-nationale-recherche.fr/)

**Type of research funded: STRATEGIC and RESEARCH**

ANR funds project-based research in all science fields (both basic and applied research) through an internationally compliant competitive peer review process; grant recipients include public research organisations, universities, and companies big and small.

No private contact

**2. CNRS : Centre Nationale de la Recherche Scientifique**

3, rue Michel-Ange, 75794 Paris cedex 16

Web : <http://www.cnrs.fr/accueil.php>

**Type of research funded: STRATEGIC and RESEARCH**

Founded in 1939 by governmental decree, the CNRS aims to: Evaluate and carry out all research capable of advancing knowledge and bringing social, cultural, and economic benefits for society, Contribute to the promotion and application of research results, Develop scientific information, Support research training, Participate in the analysis of the national and international scientific climate and its potential for evolution in order to develop a national policy.

**3. CIRAD: Centre de coopération internationale en recherche agronomique pour le développement**

42, rue Scheffer, 75116 Paris

Web: <http://www.cirad.fr/>

**Type of research funded: STRATEGIC and RESEARCH**

CIRAD works with developing countries to generate and pass on new knowledge, support agricultural development and fuel the debate on the main global issues concerning agriculture. In the field of authenticity, safety and traceability, Cirad UMR Qualisud participated to different EU projects:

- 7th PCRDT project Collab4safety on the building of a worldwide net work of expert in food safety (2012-2016), member.
- Horizon 2020 project, Authent-Net (2016-2019), Network on food authenticity, member.
- Erasmus project Asifood (2016-2020), training in food safety in SE Asia, member.
- Director of the European project Europe Aid 3C Ivoire (2011-2015), creation of the food safety system of Ivory Coast.
- 7th PCRDT project, upgrading the food safety system of 60 ACP countries (2010-2014), member.
- 7th PCRDT project, After on African traditional fermented food (2010-2014), member.
- 7th PCRDT project, WP Traceability of the European project Innovkar (2006-2011), member.
- Member of the strategic European project Moniqa 2008.
- Member of the strategic European project SEA-EU Net and organizer of the expert workshop SE Asia-Europe on food Safety, 2008.

**4. INRA: Institut National de la Recherche Agronomique**

65 Boulevard de Brandebourg, 94200 Ivry-sur-Seine  
<http://www.inra.fr/>

**Type of research funded: STRATEGIC and RESEARCH**

INRA is a national public scientific research institution under the dual aegis of the Ministry of Research and the Ministry of Agriculture. Its missions are producing and disseminating knowledge, training future scientists, informing public policy, promoting innovation through technology transfer and partnerships, shaping national and European research strategies, fostering debate regarding science's role in society.

**5. SCL/ Service Commun des Laboratoires**

30 rue Wallenberg, 75019 Paris  
Web : <http://www.economie.gouv.fr/dgccrf/Le-service-commun-des-laboratoires-DGDDI-et-DGCCRF>

**Type of research funded: STRATEGIC and RESEARCH**

SCL is part of ministry of Economy, Industry and Numeric. Its missions are product control (food products, ...), advice and support (field agent), method development and cooperation.

**6. France Agrimer**

78 Rue de Varenne, 75007 Paris  
Web: <http://www.franceagrimer.fr/>

**Type of research funded: STRATEGIC and RESEARCH**

FranceAgriMer national institution agricultural products and the sea, is a place of information exchange, strategic thinking, arbitration and accompanying French sectors of agriculture and fisheries. FranceAgriMer missions are focused in three core businesses: economic expertise, support for sector operators, consultation and arbitration.

Additionally, FranceAgrimer is responsible for the management of agricultural and food projects for the future - P3A - which constitute the declination for the industry, the future investment program – PIA.

#### **7. CIVB: Conseil Interprofessionnel des vins de Bordeaux**

1, Cours du XXX juillet, 33075 Bordeaux Cedex

Web: <http://www.bordeaux.com>

##### **Type of research funded: STRATEGIC and RESEARCH**

The CIVB or Bordeaux Wine Council, founded in 1948, represents the three families of the Bordeaux wine industry: winegrowers, wine merchants and brokers. As such, the CIVB has 3 missions: • Marketing: develop the notoriety of Bordeaux wines in France and abroad through advertising campaigns, digital communications, public and press relations, and training. • Economic: acquiring data and improving knowledge relating to the production, the markets and the sale of Bordeaux wines throughout the world. • Technical: improve the industry's understanding of various technical issues relating to the production and quality of Bordeaux wines and anticipate new environment - and health-related requirements.

#### **8. CIVC: Comité interprofessionnel du vin de Champagne**

5, rue Henri Martin, CS 30 135, 51204 Epernay

Web: <http://www.champagne.fr/fr/accueil>

##### **Type of research funded: STRATEGIC and RESEARCH**

The Inter-professional Committee of Champagne wine, which brings together growers and Champagne houses, work in favor of the vine and wine, through actions: Management of economic equilibrium, technical valuation of the vineyard and wine, educational and promotional information, World defense of the appellation

#### **9. BIP : Bureau National Interprofessionnel du Pruneau**

2 rue des Magnolias - BP130, 47303 Villeneuve-sur-Lot Cedex

Web : <http://www.pruneau.fr/index.html>

##### **Type of research funded: STRATEGIC and RESEARCH**

BIP is funded by voluntary contributions levied on producers and processors organizations. Its missions revolve around the following: representation of the sector from official services, definition and monitoring of application of the interprofessional agreement, Product standardization, development of the image and reputation of Agen prunes, Applied technical research and its extension to the acceding, collection and analysis of statistical elements relating to prune market, scientific monitoring and development of the nutritional qualities of the Agen prune, laboratory analysis of qualitative parameters of the prune

#### **10. CSF: Comité des Salines de France**

31 rue du Rocher – 75008 Paris

<http://www.salines.com/>

##### **Type of research funded: RESEARCH**

The Committee of Salines de France actively monitors for its members, including regulatory, technical and scientific for its members on various issues that concern them.

## Plan/Strategy in terms of Authenticity Research Funding

*Please provide a web link to a plan/strategy on food authenticity for each specific funding organisation (see 1<sup>st</sup> box), provided there is one, or anything the funding organisations are able to provide (general plan/strategy on food). That should include policy documents, research/surveillance documents where possible.*

1. Funding organisation name + web link to plan + Key decision making committees

**1. ANR: Agence Nationale de la Recherche**

<http://www.enseignementsup-recherche.gouv.fr/cid71873/france-europe-2020-l-agenda-strategique-pour-la-recherche-le-transfert-et-l-innovation.html>

France Europe 2020: the strategic agenda for research , transfer and innovation

**2. CNRS : Centre Nationale de la Recherche Scientifique**

Web : <http://www.cnrs.fr/accueil.php>

**3. France Agrimer**

<http://www.franceagrimer.fr/Aides/Projets-agricoles-et-agroalimentaires-d-avenir-P3A>

Agricultural and food plans for the future ( P3A )

**4. SCL : Service Commun des Laboratoires**

<http://www.economie.gouv.fr/dgccrf/Le-service-commun-des-laboratoires-DGDDI-et-DGCCRF>

Missions and orientation of the DGCCRF

**5. CIVC: Comité interprofessionnel du vin de Champagne**

<http://www.champagne.fr/fr/comite-champagne/qui/rapports-activite/rapport-activite-2015>

Activities report

**6. INRA**

<http://www.metaprogrammes.inra.fr>

## Capabilities/Infrastructure of Authenticity research providers/relevant NRLs

*Please provide details of national capabilities (public and private) in terms of food authenticity analysis (relevant National Reference Laboratories, certified laboratories etc.) and in terms of Food Authenticity Research.*

**1. Name** (Categorise into academic/research, general proficiency, expertise in a specific technique and/or commodity)

Address

Web site:

Contact available through: *(Any web sites where contact details of key personnel are available)*

Telephone:

### **1. Service Commun des Laboratoires (SCL)**

30 rue Wallenberg, 75019 Paris

<http://www.economie.gouv.fr/dgccrf/Le-service-commun-des-laboratoires-DGDDI-et-DGCCRF>

### **2. SGS Group**

1 allée de l'Industrie , Z.I. des Pâtis, 76140 Le Petit-Quevilly

<http://www.sgsgroup.fr/fr-fr/Agriculture-Food.aspx>

### **3. Qualtech**

7 rue du Bois de la Champelle, BP 86, 54503 VANDŒUVRE cedex

<http://www.qualtech-groupe.com/>

### **4. Advance trace and Track**

99 av. de la Châtaigneraie, 92500 Rueil Malmaison

<https://www.att-fr.com/fr/att>

### **5. Iterg**

Parc Industriel Bersol 2, 11 Rue Gaspard Monge, 33600 Pessac

<http://www.iterg.com/>

### **6. Laboratoires Dubernet**

35, rue Combe du Meunier, 11100 Montredon des Corbières

<http://dubernet.com/fr/accueil/>

### **7. Eurofins**

9, Rue Pierre Adolphe Bobierre, BP 42301, F-44323 Nantes Cedex 3

<http://www.eurofins.fr/fr-fr.aspx>

**8. Merieux nutriscience**

SILLIKER SAS, 1 rue de la Croix des Maheux - 95031 CERGY PONTOISE cedex

<http://www.merieuxnutrisciences.fr/fr/fra/notre-offre/qualite-et-securite-des-aliments/nos-services/analyses-alimentaires/authenticity-testing/828>

**9. Company Phylogene Nimes**

62 RN 113, 30620 Bernis

[www.phylogene.com/](http://www.phylogene.com/)

**10. Company AQMC**

ECOPARC – ZAC de St Antoine, 135, rue de la Garriguette, 34130 Saint-Aunès

<http://aqmc.fr/>

**11. Intertek**

ZAC Ecoparc 2 – 27400 Heudebouville

[www.intertek-france.com](http://www.intertek-france.com)

**12. Lanagram**

20 rue Galibert Pons, 81200 Mazamet

[www.lanagram.fr/](http://www.lanagram.fr/)

**13. Laboratoire CERES**

Plaine de la Chapelle, 07170 Villeneuve de Berg

[www.lab-ceres.com/](http://www.lab-ceres.com/)

**14. CVPA - ALPA SENSO**

Les capucins, 73800 Montmelian

<http://www.alpagroupe.fr>

**15. SAVOIE LABO**

23 allée du lac d'aiguebelette, Savoie Technolac - BP 50251, 73374 Le Bourget du Lac Cedex

<http://www.savoie-labo.fr>

**16. LABORATOIRE LABHYA**

11 B Rue de Paraire, 12000 RODEZ

<http://www.labhya.fr>

**17. LABORATOIRE MICROSEPT**

15, Rue Denis Papin, Z.A. La Sablonnière, 49220 Le Lion d'Angers

<http://www.laboratoire-microsept.fr>

**18. CERECO - CTRE DE RECHERCHE ET DE CONSEIL CERECO**

Avenue Jean Monnet, F-59111 Lieu Saint Amand

<http://www.cereco.fr>

**19. SARL AGROQUAL**

Site Normandial, 8 avenue du Pays de Caen, 14460 Colombelles

<http://www.agroqual.fr>

**20. IANESCO - IANESCO CHIMIE**

6 rue carol Heitz, 86000 POITIERS

<http://www.ianesco.fr>

**21. Laboratoire Interprofessionnel d'Analyse Laitière**

42, rue de Châteaudun , 75314 Paris cedex 09

<http://infos.cniel.com/les-labos.html>

**22. Institut Français des Boissons et de la Brasserie Malterie**

7, rue du Bois de la Champelle, BP 267, F-54512 Vandoeuvre les Nancy cedex

<http://www.ifbm.fr>

**23. Cirad UMR Qualisud**

73 rue Jean-François Breton, 34398 Montpellier Cedex 5

<http://umr-qualisud.cirad.fr/>

**24. Qualisud**

2 Allée Brisebois – 31320 AUZEVILLE TOLOSANE

<http://www.qualisud.fr/>

**25. Anses**

14 rue Pierre et Marie Curie, 94701 Maisons-Alfort Cedex

[www.anses.fr](http://www.anses.fr)

**Recent key Cases/Reports/Reviews (after 2010)**

*Please provide a list of web links to public outputs, documents, papers, reports, databases on incidents, detection methods, ... in relation to food authenticity your MS is involved (see T1.1)*

**1. Title + web link**

*Key information to be registered/extracted on/ from the Authent-Net Documents database (FARNHub)*

**1. Wine Fraud in 2014:**

<http://www.economie.gouv.fr/dgccrf/faits-marquants-sur-fraudes-liees-au-vin>

**2. Geens affair: wine falsification**

<http://www.20minutes.fr/bordeaux/1816551-20160331-bordeaux-plus-importantes-fraudes-vin-jugee-jeudi>



### 3. Horse meet scandal:

[http://www.lexpress.fr/actualite/societe/le-scandale-de-la-viande-de-cheval\\_1219104.html](http://www.lexpress.fr/actualite/societe/le-scandale-de-la-viande-de-cheval_1219104.html)

### 4. Fish label falsifications

<http://www.lefigaro.fr/conso/2015/11/04/05007-20151104ARTFIG00205-un-poisson-sur-trois-consomme-a-bruxelles-ne-correspond-pas-a-son-etiquette.php>

<http://www.economie.gouv.fr/dgccrf/controle-des-especes-annoncees-et-additifs-employes-pour-filets-poisson>

## Ongoing Projects (after 2010) including national-international/public-private funded projects)

*Please provide a list of ongoing projects on food authenticity your MS is involved in (see T1.1)*

1. Name, funding, start/end date + Web site link

### 1. African traditional fermented food (AFTER) 2010-2014

<http://www.after-fp7.eu/en/>

### 2. Traceability (Innovkar) 2006-2011

<http://inco-innovkar.cirad.fr/project/>

### 3. SCL

Control of honey authenticity by 1H-NMR and stable isotope – Model development ( 2016-...)

Elaboration of a model to prevent Frenchifying of mushrooms, garlic, apples (2014 ... )

Tobacco Traceability by GC<sup>2</sup>-comprehensive (2013 - ...)

Recognition and quantification of meet origin in prepared meals by PCR (2010 ...)

Fish fillets carbonation and fish species identification (2015 - ...):

<http://www.economie.gouv.fr/dgccrf/a-recherche-ladn-des-produits-mer>

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*

## Legal framework for food authenticity (in application at a national level)

*Please provide a list of standards/regulations on food authenticity applied in your MS (see T1.2)*

1. Title + web link

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*

1. Légifrance: database de la législation Française.

<https://www.legifrance.gouv.fr/>

2. Eur-Lex : database de la législation Européenne

<http://eur-lex.europa.eu/homepage.html?locale=fr>

3. Réglementation Produits cidricoles

<http://www.lareglementationcidricole.com/>

4. Réglementation générale vin

<http://vins-france.com/fr/les-vins-de-france/la-reglementation/>

5. Principaux textes réglementaires sur produits carnés, poissons, lait, oeufs

[http://www.adoca.fr/veille\\_reglementaire\\_alimentaire.html](http://www.adoca.fr/veille_reglementaire_alimentaire.html)

6. Réglementation huile et corps gras

[http://www.alimentaire-pro.com/reglementation\\_agroalimentaire/recherche\\_texte.php?text=huiles%20et%20corps%20gras](http://www.alimentaire-pro.com/reglementation_agroalimentaire/recherche_texte.php?text=huiles%20et%20corps%20gras)

## Existing indicators used: intelligence sources

*Please provide a list of intelligence tools used to detect/counter food fraud issues in your member state (e.g. Horizon Scanning, Interpol, Europol, National Crime agencies)*

1. Title + web link

1. DGCCRF : direction Générale de la Concurrence et de la consommation et de la répression des Fraudes

<http://www.economie.gouv.fr/dgccrf/dgccrf>

2. DGDDI : Direction Générale des douanes et des droits indirects.

<http://www.douane.gouv.fr/>

3. OCLAESP : Office central de lutte contre les atteintes à l'environnement et à la santé publique

<http://www.gendarmerie.interieur.gouv.fr/Notre-Institution/Nos-missions/Police-judiciaire/Environnement-et-sante-publique-OCLAESP>

Commodities/products of interest and type of research of interest

## **1. Commodities/products of interest**

*Please provide a list of the commodities/food products in priority order most important for each MS in terms of value to that country.*

- 1) Animal origin (Meat, fish)
- 2) Fat compounds (olive oil origin, nut oil, oil mixtures)
- 3) Sugared compounds (Sweeteners ,Honey)
- 4) Vegetal species (potatoes, OGM detection, detection of insect flour in transported products)
- 5) Geographical Origin (apples, honey, châtaignes, garlic, chestnut, tobacco, beverages)

## **2. Type of research of interest**

*Please provide a list of type of research (e.g. criminology, critical points, historical points, analytical methods, consumer behaviour, economic aspects) in priority order most important for each MS in terms of value to that country).*

- 1) Analytical methods

## Annex 5

### Authent-Net Member State (MS) National Status Report

#### Country: Hungary

*Please note that the information provided here below will be put on the Food Authenticity Research Network Hub (FARNH) which will be publically accessible. So please do not include any confidential information.*

#### List of organisations that fund food anti- fraud/food authenticity research and the type of research they fund

*Please provide a list of organisations (Government + NGO whatever the nationality) that are funding projects on food authenticity in your MS*

**1. Name (Categorise into government/NGO, public/public-private)**

Address

Web site link

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

Short description of the funder

*Click here to privately contact the persons responsible for Food Authenticity funding.*

*(This would take you to a secure location [eg. LinkedIn private chat] to contact relevant funder, only once you are able to prove that you are from another funding organisation).*

**1. NEBIH: National Food Chain Safety Office** (government, public)

Address: Budapest, Keleti K. u. 24. 1024

<http://portal.nebih.gov.hu>

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

Government Decree 22/2012 established the NFCSO with its central office in Budapest. NÉBIH is headed by a President (Deputy CVO) who reports to the State Secretary for Food-Chain Safety (CVO). NÉBIH as central competent authority is responsible for supporting of decision-making of the Ministry of Agriculture and providing control plans, procedures and guidelines to county government offices. In case of events when immediate action is required the CVO has the right to give direct order to county government offices.

The Directorate for System Management and Supervision (SMSD) co-ordinates the MANCP and is responsible for risk assessment, strategic and risk based planning of official controls. This Directorate co-ordinates all kind of scientific activities such as cooperation with Universities, Research-Development-Innovation activities in the Office. The directorate is the national contact point for FAO/ WHO Codex Alimentarius and EFSA.

The Directorate for Food Safety Risk Assessment (NFCSD-DFSRA) supports the activities of the Competent Authorities in terms of risk management and communication. The directorate is the national contact point for the Commission services, RASFF network and WHO INFOSAN.

The Directorate for Priority Cases is responsible for controls of fraud and adulteration related to food chain, and cases representing risk to consumers' health in the country.

The Food and Feed Safety Directorate coordinates the safety and quality control in food and feed, responsible for coordination of investigation after RASFF or AAC alert. The FFSD has got countrywide laboratory network to analyse authenticity.

**2. NKFIH: National Research, Development and Innovation Office** (Government, public)

Budapest, Kéthly Anna tér 1, 1077

<http://nkfi.gov.hu>

**Type of research funded: BASIC and APPLIED RESEARCH/DEVELOPMENT**

Central governmental institution for applied and basic research, development and innovation funding

Contact: Orsolya Tóth, [orsolya.toth2@nkfi.gov.hu](mailto:orsolya.toth2@nkfi.gov.hu)

**3. MTA: Magyar Tudományos Akadémia** (Government, public)

Budapest, Széchenyi István tér 9, 1051

<http://mta.hu>

**Type of research funded: APPLIED RESEARCH**

Hungarian Academy of Sciences

**4. NBAC: Hamisítás Elleni Nemzeti Testület** (government and NGO, public)

Address: 1081 Budapest, II. János Pál pápa tér 7

<http://www.hamisitasellen.hu/>

**Type of research funded: SRATEGIC**

The National Board Against Counterfeiting in Hungary is a common platform for all the authorities and stakeholders involved in the protection and enforcement of intellectual property rights in Hungary since 2008. It was established due to the regulation named Government Decree No. 287/2010 (XII. 16.) on the National Board Against Counterfeiting. The **members of the Board** are both Governmental institutions and Non-governmental organizations.

**Plan/Strategy in terms of Authenticity Research Funding**

*Please provide a web link to a plan/strategy on food authenticity for each specific funding organisation (see 1<sup>st</sup> box), provided there is one, or anything the funding organisations are able to provide (general plan/strategy on food). That should include policy documents, research/surveillance documents where possible.*

**1. Funding organisation name + web link to plan + Key decision making committees**

**Plan/Strategy by institution numbered according to the previous list of funding bodies.**

**1. NEBIH: National Food Chain Safety Office** (government, public)

NEBIH funds development and research related with honey fraud cooperation with Szent István University Faculty of Food Science analyse flavonoids as markers

Food Chain Safety Strategy 2013-2022. It is a general strategy related with food-chain safety, quality, knowledge transfer, data-management. This is a Governmental Decision.

[http://elbs.hu/wp-content/uploads/2014/06/strategia\\_kiadvany\\_eng.pdf](http://elbs.hu/wp-content/uploads/2014/06/strategia_kiadvany_eng.pdf)

## Capabilities/Infrastructure of Authenticity research providers/relevant NRLs

*Please provide details of national capabilities (public and private) in terms of food authenticity analysis (relevant National Reference Laboratories, certified laboratories etc.) and in terms of Food Authenticity Research.*

**1. Name** *(Categorise into academic/research, general proficiency, expertise in a specific technique and/or commodity)*

Address

Web site:

Contact available through: *(Any web sites where contact details of key personnel are available)*

Telephone:

In Hungary we don't have dedicated, certified public laboratories for food authenticity. All of our official labs have some capabilities related to food authenticity.

Web site: <http://portal.nebih.gov.hu/kapcsolat/laboratoriumok/nebih-laboratoriumok>

See the list below:

### **1. National Food Chain Safety Office Food and Feed Safety Directorate**

Food Microbiological National Reference Laboratory  
H-1095 Budapest, Mester utca 81.

### **2. National Food Chain Safety Office Food and Feed Safety Directorate**

Food Toxicological National Reference Laboratory  
H-1095 Budapest, Mester utca 81.

### **3. National Food Chain Safety Office Food and Feed Safety Directorate**

Radioanalytical Reference Laboratory  
H-1182 Budapest, Fogoly utca 13-15.

### **4. National Food Chain Safety Office Food and Feed Safety Directorate**

Radioanalytical Reference Laboratory site of Szekszárd  
H-7100 Szekszárd, Tormay Béla u. 18.

### **5. National Food Chain Safety Office Food and Feed Safety Directorate**

Radioanalytical Reference Laboratory site of Szombathely  
H-9700 Szombathely, Zanati út 3.

### **6. National Food Chain Safety Office Food and Feed Safety Directorate**

Feed Investigation National Reference Laboratory  
H-1144 Budapest, Remény utca 42.

### **7. Food Chain Safety Centre Non-profit Ltd.**

Regional Food Chain Laboratory of Debrecen  
H-4030 Debrecen, Diószegi út 30.

**8. Food Chain Safety Centre Non-profit Ltd.**

Regional Food Chain Laboratory of Kaposvár  
H-7400 Kaposvár, Cseri major

**9. Food Chain Safety Centre Non-profit Ltd.**

Regional Food Chain Laboratory of Kecskemét  
H-6000 Kecskemét, Halasi út 34.

**10. Food Chain Safety Centre Non-profit Ltd.**

Regional Food Chain Laboratory of Székesfehérvár  
H-8000 Székesfehérvár, Csikvári utca 15.

**11. Food Chain Safety Centre Non-profit Ltd.**

Regional Food Chain Laboratory of Miskolc  
H-3534 Miskolc, Stadion u. 39/A.

**12. Food Chain Safety Centre Non-profit Ltd.**

Regional Food Chain Laboratory of Veszprém  
H-8200 Veszprém, Mártírok útja 11/A

**13. Food Chain Safety Centre Non-profit Ltd.**

Regional Food Chain Microbiological Laboratory of Veszprém  
H-8200 Veszprém, Dózsa György út 33.

**14. National Food Chain Safety Office Directorate of Oenology and Alcoholic Beverages**

Oenological Official Laboratory  
H-1118 Budapest, Budaörsi út 141-145.





## Legal framework for food authenticity (in application at a national level)

*Please provide a list of standards/regulations on food authenticity applied in your MS (see T1.2)*

### 1. Food Chain Safety Strategy 2013-2022

[http://elbs.hu/wp-content/uploads/2014/06/strategia\\_kiadvany\\_eng.pdf](http://elbs.hu/wp-content/uploads/2014/06/strategia_kiadvany_eng.pdf)

### 2. Hungarian Codex Alimentarius

<http://www.omgk.hu/magyarelelmiszerk.htm>

### 3. Act on Food Chain Safety No 46 of 2008

[https://net.jogtar.hu/jr/gen/hjegy\\_doc.cgi?docid=a0800046.tv](https://net.jogtar.hu/jr/gen/hjegy_doc.cgi?docid=a0800046.tv)

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*

## Existing indicators used: intelligence sources

*Please provide a list of intelligence tools used to detect/counter food fraud issues in your member state (e.g. Horizon Scanning, Interpol, Europol, National Crime agencies)*

We have access to European networks, but we have not got any intelligence tools, yet.

Contact:

Edina Bors ([borse@nebih.gov.hu](mailto:borse@nebih.gov.hu)) responsible for AAC, FFN (National Food Chain Safety Office, Food and Feed Safety Directorate)

Attila Nagy DVM ([nagyattila@nebih.gov.hu](mailto:nagyattila@nebih.gov.hu)) is a contact point related with AuthentNet and Food Integrity projects (National Food Chain Safety Office, Food and Feed Safety Directorate)

For investigation the NÉBIH has got formal and informal cooperation with TAX, police, human authority and other governmental agencies. In Hungary we have got an electronic system called EKÁER. EKÁER stands for Electronic Trade and Transport Control System. The new regulations making the use of the system mandatory in Hungary will take effect as of January 1st, 2015, aiming to filter out VAT fraud and minimize their possibility in public road transit to the fullest possible extent. Therefore it will monitor goods trafficking inside Hungary and also goods transported on public roads between member states of the European Union. Use this system we can investigate some authenticity aspect, too.

## **Commodities/products of interest and type of research of interest**

### **1. Commodities/products of interest**

*Please provide a list of the commodities/food products in priority order most important for each MS in terms of value to that country.*

- 1) Honey
- 2) Wine,
- 3) Pálinka (Hungarian spirit)
- 4) Meat (cattle, poultry, perch)
- 5) Food for special diet

### **2. Type of research of interest**

*Please provide a list of type of research (e.g. criminology, critical points, historical points, analytical methods, consumer behaviour, economic aspects) in priority order most important for each MS in terms of value to that country).*

- 1) Consumer behaviour
- 2) Historical points
- 3) Economic aspects

## Annex 6

### Authent-Net Member State (MS) National Status Report

#### Country: Iceland

*Please note that the information provided here below will be put on the Food Authenticity Research Network Hub (FARNH) which will be publically accessible. So please do not include any confidential information.*

#### List of organisations that fund food anti- fraud/food authenticity research and the type of research they fund

*Please provide a list of organisations (Government + NGO whatever the nationality) that are funding projects on food authenticity in your MS*

**1. Name (Categorise into government/NGO, public/public-private)**

Address

Web site link

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

Short description of the funder

*Click here to privately contact the persons responsible for Food Authenticity funding.*

(This would take you to a secure location [eg. LinkedIn private chat] to contact relevant funder, only once you're able to prove that you are from another funding organisation).

**1. RANNIS The Icelandic Centre for Research (Government, public)**

Borgartún 30, IS-105 Reykjavík, Iceland.

<https://en.rannis.is/>

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

The Icelandic Centre for Research (RANNIS) supports research, innovation, education and culture in Iceland. RANNIS cooperates closely with the [Icelandic Science and Technology Policy Council](#) and provides professional assistance in the preparation and implementation of the national science and technology policy.

Contact: [rannis@rannis.is](mailto:rannis@rannis.is)

**2. Agricultural Productivity Fund (Government, public)**

Hvanneyrargötu 3, 311 Borgarnes, Iceland

<http://www.fl.is/forsida/> (in Icelandic)

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

The Agricultural Productivity Fund aims to fund development on Icelandic farms and research providing new knowledge and productivity in Icelandic farming. The Fund is run by Icelandic law and governmental funding each year.

Contact: [fl@fl.is](mailto:fl@fl.is)

**3. AVS R&D Fund of Ministry of Fisheries and Agriculture in Iceland (Government, public)**

Byggðastofnun, Ártorgi 1, 550 Sauðárkrókur, Iceland.

<http://www.avs.is/> (in Icelandic).

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

AVS funds research and development in Icelandic fisheries and production aiming at increased value of marine products in Iceland.

Contact: [peturb@byggdastofnun.is](mailto:peturb@byggdastofnun.is)

**4. Working Group for Fisheries (AG-Fisk) (Government, public)**

The primary function of AG-Fisk is to implement the strategies established by EK-FJLS (Fisheries and Aquaculture) and the Nordic Council of Ministers, and to perform an advisory function towards EK-FJLS (Fisheries and Aquaculture) and the NCM.

Danmarks Tekniske Universitet, DTU-Aqua

Sektion for akvakultur

Nordsøen Forskerpark

Postboks 101

9850 Hirtshals, Denmark

<http://www.norden.org/en/nordic-council-of-ministers/council-of-ministers/nordic-council-of-ministers-for-fisheries-and-aquaculture-agriculture-food-and-forestry-mr-fjls/institutions-co-operative-bodies-working-groups-and-projects/working-group-for-fisheries-ag-fisk>

Phone: +45 35 88 32 11

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

The primary function of AG-Fisk is to implement the strategies established by EK-FJLS (Fisheries and Aquaculture) and the Nordic Council of Ministers, and to perform an advisory function towards EK-FJLS (Fisheries and Aquaculture) and the NCM.

Contact: Helge Paulsen [hep@dtu.aqua.dk](mailto:hep@dtu.aqua.dk)

**5. Nordic Innovation**

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

Nordic Innovation is a Nordic institution working to promote cross-border trade and innovation.

Contact: [info@nordicinnovation.org](mailto:info@nordicinnovation.org)

**6. NORA**

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

NORA (Nordic Atlantic Cooperation) is an intergovernmental organization under the Nordic Council of Ministers. NORA's goal is to contribute to the creation of a vital and dynamic North Atlantic region, characterized by a strong and sustainable economy. To reach this goal, NORA supports collaboration between businesses and research and development organizations in the region.

Contact: [nora@nora.fo](mailto:nora@nora.fo)

**7. NordForsk**

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

NordForsk is an organisation under the Nordic Council of Ministers that provides funding for and facilitates Nordic cooperation on research and research infrastructure.

Contact: [nordforsk@nordforsk.org](mailto:nordforsk@nordforsk.org)

## Plan/Strategy in terms of Authenticity Research Funding

*Please provide a web link to a plan/strategy on food authenticity for each specific funding organisation (see 1<sup>st</sup> box), provided there is one, or anything the funding organisations are able to provide (general plan/strategy on food). That should include policy documents, research/surveillance documents where possible.*

1. Funding organisations in Iceland do not have a plan/strategy of specially funding food authenticity but fund projects if applied and the application fulfils the qualifications of the funding organisations.

## Capabilities/Infrastructure of Authenticity research providers/relevant NRLs

*Please provide details of national capabilities (public and private) in terms of food authenticity analysis (relevant National Reference Laboratories, certified laboratories etc.) and in terms of Food Authenticity Research.*

### 1. MAST, Icelandic Food and Veterinary Authority.

An inspection and administrative body, responsible to the Ministry of Industries and Innovation. (Research/Expertise as the Competent Authority (AC) in Iceland in the field of food safety, animal health and welfare, control of feed, seed and fertilisers, plant health and water for human consumption).

Austurvegi 64, 800 Selfoss, Iceland

Web: <http://www.mast.is/english/frontpage/about-mast/>

Contact available through: mast@mast.is

Telephone: +354 530 4800

### 2. Keldur – The Institute for Experimental Pathology of the University of Iceland

(Academic/research/NRL for *Camphylobacter*, parasites (*Trichinella*, *Echinococcus*, *Anisakis*), transmissible spongiform encephalopathies, fish diseases, bivalve mollusc diseases and crustacean diseases).

Address: Keldnavegi 3, 112 Reykjavík, Iceland.

Web site: <http://keldur.is/>

Contact available through: [syni@keldur.is](mailto:syni@keldur.is)

Telephone: 354-585-5100

3. Matis Food and Biotech R&D / Laboratory (Academic/research/NRL for Salmonella and zoonosis, and viral and bacteriological contamination of bivalve mollusc).

Address: Vínlandsleið 12, 113 Reykjavík, Iceland.

Web site: <http://www.matis.is/>

Contact available through: <http://www.matis.is/um-matis-ohf/starfsfolk/svid/persona/156/fyrirtaeki/1>

Telephone: 354-422-5000

**4. Department of Immunology, University hospital** (Central Academic/research laboratory for Rheumatologic, Allergic and Immunologic diseases in Iceland).

Address: Hringbraut (Bldg. 14 Eiríksgata), 101 Reykjavík, Iceland

Web site: <http://www.landspitali.is/sjuklingar-adstandendur/klinisk-svid-og-deildir/rannsoknarsvid/onaemisfraedideild/information-about-the-department/>

Contact available through: [bjornlud@landspitali.is](mailto:bjornlud@landspitali.is)

Telephone: 354-543-5800

### Recent key Cases/Reports/Reviews (after 2010)

*Please provide a list of web links to public outputs, documents, papers, reports, databases on incidents, detection methods, ... in relation to food authenticity your MS is involved (see T1.1)*

1. Report on recorded food fraud incidents in the Icelandic seafood sector (from the project Food Integrity, see FARNHub database for report).

2. News of a court case in Iceland where an owner of a company which was accused of selling beef pies without beef won a case against MAST as of their inadequate proceedings toward the company <http://www.mast.is/frettaflokkar/frett/2016/06/03/Frettatilkynning-vegna-doms-Heradsdoms-Reykjavikur-i-mali-Kraesingar-ehf.-gegn-Matvaelastofnun/> (in Icelandic).

3. News of a verdict from the Ministry of Industry and Innovation of reimporting lumpfish roe caviar which was meant to go to Japan but due to wrong colour was resent to Iceland. The marking of the product was totally unacceptable and was therefore destroyed. <http://www.mast.is/frettaflokkar/frett/2016/02/23/Grasleppuhrognakaviar-Synjun-Matvaelastofnunar-stadfest/> (in Icelandic).

*Key information to be registered/extracted on/ from the Authent-Net Documents database (FARNHub)*

### Ongoing Projects (after 2010) including national-international/public-private funded projects)

*Please provide a list of ongoing projects on food authenticity your MS is involved in (see T1.1)*

1. Name, funding, start/end date + Web site link

1. FA0155 EU FP7

**Food integrity Project** - 01/2014 to 03/2018

The Food Integrity project is a large European project with the aim to develop methods and tools to fight food fraud in the European market.

**2. Authenticate:** Determining standardised methods of authenticating seafood products

May 2015 – August 2016

Nordic Workshop

Funded by AG-Fisk (Nordic Council of Ministers)

**3. FA0164**

**Authent-Net:** Food Authenticity Research Network - 04/2016 to 03/2018

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*

**Legal framework for food authenticity (in application at a national level)**

*Please provide a list of standards/regulations on food authenticity applied in your MS (see T1.2)*

Regulation 1294/2014 of labelling food,

<http://www.reglugerd.is/reglugerdir/allar/nr/1294-2014> (in Icelandic).

Regulation 102/2010 of food safety,

<http://www.reglugerd.is/reglugerdir/eftir-raduneytum/sjavaroglandbunadar/nr/15458>  
(in Icelandic).

Regulation 869/2011 states that all frozen and chilled beef should be marked with traceability information.

<http://www.reglugerd.is/reglugerdir/allar/nr/968-2011>

Regulation 288/2003 states that honey should be marked with traceability information.

<http://www.reglugerd.is/reglugerdir/allar/nr/288-2003>  
<http://www.mast.is/english/frontpage/import-export/export/meat/>  
<http://www.mast.is/pistlar/rekjanleiki/> (in Icelandic).

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*

**Existing indicators used: intelligence sources**

*Please provide a list of intelligence tools used to detect/counter food fraud issues in your member state (e.g. Horizon Scanning, Interpol, Europol, National Crime agencies)*

**1.** MAST, Icelandic Food and Veterinary Authority, an inspection and administrative body, responsible to the Ministry of Industries and Innovation.

Web: <http://www.mast.is/english/frontpage/about-mast/>

## **Commodities/products of interest and type of research of interest**

### **1. Commodities/products of interest**

*Please provide a list of the commodities/food products in priority order most important for each MS in terms of value to that country.*

- 1) Seafood
- 2) Livestock (Lamb, beef, poultry, pork)
- 3) Milk (including milk products)

### **2. Type of research of interest**

*Please provide a list of type of research (e.g. criminology, critical points, historical points, analytical methods, consumer behaviour, economic aspects) in priority order most important for each MS in terms of value to that country)*

- 1) Analytical methods
- 2) Contingency plans/strategy
- 3) Economic
- 4) Consumer behaviour



## Annex 7

### Authent-Net Member State (MS) National Status Report

#### Country: IRELAND

*Please note that the information provided here below will be put on the Food Authenticity Research Network Hub (FARNH) which will be publically accessible. So please do not include any confidential information.*

#### **List of organisations that fund food anti- fraud/food authenticity research and the type of research they fund**

*Please provide a list of organisations (Government + NGO whatever the nationality) that are funding projects on food authenticity in your MS*

**1. Name: FOOD SAFETY AUTHORITY OF IRELAND**

Government – public body

Development research

Address: Abbey Court, Lower Abbey Street, Dublin 1, Ireland

Web site link: [www.fsai.ie](http://www.fsai.ie)

Short description of the funder:

Government Agency coordinating the implementation and enforcement of food law in Ireland.

**2. Name: SAFEFOOD**

Government - public body

Basic research

Address: 7 Eastgate Avenue, Eastgate, Little Island, Co Cork T45 RX01

Web site link: [www.safefood.eu/](http://www.safefood.eu/)

Safefood is an all-island implementation body set up under the British-Irish Agreement Act with a general remit to promote awareness and knowledge of food safety and nutrition issues on the island of Ireland. Activities include: Promotion of food safety Research, Communication of nutritional advice, Promotion of scientific co-operation and laboratory linkages, Provide independent scientific advice, Deliver consumer focused review - See more at: <http://www.safefood.eu/Utility/About-Us.aspx#sthash.3H0NBego.dpuf>

[Safefood Food Fraud](#)

**3. Name: TEAGASC**

Government – public body

Basic/Applied/development research

Address: Ashtown, Dublin 15 D15 KN3K

Web site link: <https://www.teagasc.ie/>

Teagasc is the Irish Agriculture and Food Development Authority. It is a national body providing integrated research, advisory and training services to the agriculture and food industry and rural communities

#### **4. Name: DEPARTMENT OF AGRICULTURE, FOOD AND THE MARINE (DAFM)**

Government – public body

Basic/Applied/Development research

Address: Agriculture House, Kildare St, Dublin 2 D02 WK12

Web site link: <https://www.agriculture.gov.ie/>

Food Information Research Measure (FIRM)

<https://www.agriculture.gov.ie/research/>

The Food Institutional Research Measure (FIRM) is funded by the Department of Agriculture, Food and the Marine and is the primary national funding mechanism for food research in higher education institutions and other public research institutes. FIRM is a public good competitive programme, whereby multi-disciplinary teams from two or more institutions usually carry out the research projects. As this is a public good research measure, beneficiaries are required to widely disseminate the results of their research.

FIRM aims to develop public good technologies that will underpin a competitive, innovative and sustainable food manufacturing and marketing sector. The programme is creating a base of knowledge and expertise in generic technologies that will support a modern, consumer-focused industry and build Ireland's capacity for R&D. A key output of the FIRM is highly trained early stage researchers at PhD and postdoctoral level, with specialist skills particularly relevant to the Irish food sector.

<https://www.agriculture.gov.ie/research/foodinstitutionalresearchmeasurefirm/allfirmfundedprojects/>

#### **5. Name: Sea Fisheries Protection Authority (SFPA)**

Government – public body

Applied research

Address: Park Road, Clogheen, Clonakilty, Co. Cork.

Web site links: <http://www.sfpa.ie/>

The SFPA was established under the provisions of the Sea-Fisheries and Maritime Jurisdiction Act 2006 and is Ireland's competent authority for Seafood Safety and Sea-Fisheries Protection.

Each year the FSAI coordinates the sampling and analysis of fish and fish products on sale through various outlets in Ireland. This work is carried out to ensure that consumers can have confidence that the fish which is declared on the label or in associated advertisement material is actually contained in the product they purchase. DNA technology can identify the particular species of fish present in various fish products on the market in Ireland and is used by FSAI to ensure that it matches that on the label or in advertisements.

See section on recent key cases/reports

#### **6. Name: Health Service Executive (HSE)**

Government – public body

N/A - research

Web link: [www.hse.ie](http://www.hse.ie)

The HSE is a large organisation whose job is to run all of the public health services in Ireland. The HSE manages services through a structure designed to put patients and clients at the center of the organisation.

The Food Control work undertaken by the Environmental Health is done under a Service Contract between the HSE and the FSAI. Each year the FSAI coordinates a Microbiological and chemical sampling programme which may include checks for food authenticity

See section on ongoing projects

### **Plan/Strategy in terms of Authenticity Research Funding**

*Please provide a web link to a plan/strategy on food authenticity for each specific funding organisation (see 1<sup>st</sup> box), provided there is one, or anything the funding organisations are able to provide (general plan/strategy on food). That should include policy documents, research/surveillance documents where possible.*

1. Funding organisation name + web link to plan + Key decision making committees

#### **Food Safety Authority of Ireland**

The mission statement of the FSAI is 'We protect consumers by leading a collaborative food safety community to continuously raise food standards and create a culture of excellence'

FSAI's strategy 2016-2018 outlines the goals to provide safe and trustworthy food for everyone

FSAI chairs and coordinates the Food Fraud Task Force (FFTF) whose members include An Garda Síochána, Revenue/Customs, DAFM, HSE, SFPA, Local Authorities, Laboratories, Dept of Social Protection, Competition and Consumer Protection Commission, Health Products Regulatory Authority and Food Standards Agency in Northern Ireland. The FFTF meets three times per year and information on fraud and criminality in the food sector is shared among members.

FSAI represents Ireland on the EU Food Fraud Working Group and is the designated contact point for the Administrative Assistance and Cooperation (AAC) system which facilitates the exchange of information where suspected cross border non-compliances are perpetrated through fraudulent deceptive practices.

FSAI carries out its enforcement function through "**service contracts**" with official agencies. Section 48 of the FSAI Act, 1998 gives the legislative basis for this. These contracts outline an agreed level and standard of food safety activity that the agencies perform as agents of the Authority. All contracts include a proactive programme on food fraud.

[FSAI Act](#)

[FSAI Service Contracts](#)

## Capabilities/Infrastructure of Authenticity research providers/relevant NRLs

*Please provide details of national capabilities (public and private) in terms of food authenticity analysis (relevant National Reference Laboratories, certified laboratories etc.) and in terms of Food Authenticity Research.*

**1. Name** (Categorise into academic/research, general proficiency, expertise in a specific technique and/or commodity)

Address

Web site:

Contact available through: *(Any web sites where contact details of key personnel are available)*

Telephone:

Research or development laboratories for the detection and of food fraud are sourced by tender on a case by case basis depending on the immediate analytical requirements.

FSAI have used the following private and public laboratories for various authenticity tests

1. Dublin Public Analyst's laboratory (General proficiency/Alcohol)

Sir Patrick Duns,

Lower Grand Canal Street, Dublin 2

Web: <http://www.publicanalystdublin.ie/>

[Contact us](#)

Tel: + 353 (0)1 6612022

2. Identigen (General proficiency)

Unit 2, Trinity Enterprise Centre, Pearse St, Dublin 2

<http://www.identigen.com/>

Contact available through: N/A

Tel: 353 1 6770221

3. Cork University Laboratory (Salmon DNA)

Western Road

Co. Cork

[Contact us](#)

Tel: 353 (021) 490 3000

4. The State laboratory (Vodka analysis)

Backweston Laboratory Campus

Celbridge

Co. Kildare

Ireland

<http://www.statelab.ie/>

[Info@statelab.ie](mailto:Info@statelab.ie)

Tel: 353 (0)1 505 7000

## Recent key Cases/Reports/Reviews (after 2010)

*Please provide a list of web links to public outputs, documents, papers, reports, databases on incidents, detection methods, in relation to food authenticity your MS is involved (see T1.1)*

1. Title + web link

### Recent key cases:

Addition of Undeclared Horse Meat to Products

[https://www.fsai.ie/news\\_centre/press\\_releases/horsedna15012013.html](https://www.fsai.ie/news_centre/press_releases/horsedna15012013.html)

[https://www.fsai.ie/enforcement\\_audit/food\\_fraud/horse\\_meat.html](https://www.fsai.ie/enforcement_audit/food_fraud/horse_meat.html)

[https://www.fsai.ie/faqs/horse\\_pork\\_dna\\_meat\\_products.html](https://www.fsai.ie/faqs/horse_pork_dna_meat_products.html)

### FSAI press releases:

Falsely declaring Irish origin for beef imported from other Member States

[Keelaghan wholesale meats](#)

[Misleading honey claims](#)

[Counterfeit Smirnoff vodka](#)

### Reports:

[PAL Annual report 2014 - the detection of markers present in brands of \*\*authentic\*\* vodka](#)

[Fish Authenticity](#)

[Poultry labelling](#)

## Ongoing Projects (after 2010) including national-international/public-private funded projects)

*Please provide a list of ongoing projects on food authenticity your MS is involved in (see T1.1)*

1. Determining the production area of mussels using stable isotope analysis in conjunction with trace element analysis and FTIR analysis
2. PCR analysis to genetically identify the plant species in supplements and herbal products
3. FCVA project will review the Irish dairy sector to identify potential vulnerabilities which could provide opportunities for fraudulent activity that will impact consumers' health and/or interests. The project will produce a documented analysis of the dairy sector, its vulnerabilities and a range of control strategies that could be applied to prevent or mitigate the impact of fraudulent activities that could potentially threaten the safety, quality and integrity of food derived from the dairy industry. The project will be led by FSAI and may involve project partners. A report will be produced. The project will begin in Q1 2016 and finish in Q2 2017.

The FSAI service contracts with official agencies include a proactive programme on food fraud.

The HSE 2016 chemical sampling programme (part of the HSE Service Contract) includes a check on Counterfeit alcohol (specifically vodka)

The 2017 sampling programme is yet to be finalised but the following list of products have had below par compliance history under authenticity/adulteration and are being considered for inclusion

- Herbs and Spices (tests for bulking agents in products such as oregano, sage and thyme)
- Olive Oil (tests to ensure no dilution/adulteration of olive oil)
- Low value meat products (test for speciation of meat in low value meat products)
- Rice (Test to ensure Basmati rice not being bulked up by cheaper alternatives or the inclusion of plastics as a bulking agent)
- Fruit Juice (tests to ensure no dilution/adulteration of juices and they are authentic as per labels (not made from concentrate))

### **Legal framework for food authenticity (in application at a national level)**

*Please provide a list of standards/regulations on food authenticity applied in your MS (see T1.2)*

1. [Regulation \(EU\) No 1169/2011](#)
2. [Regulation \(EC\) No 258/97](#)
3. [FSAI Service Contracts](#)

### **Existing indicators used: intelligence sources**

*Please provide a list of intelligence tools used to detect/counter food fraud issues in your member state (e.g. Horizon Scanning, Interpol, Europol, National Crime agencies)*

1. FSAI conducts in-house risk assessments and uses external sources including media, other food law enforcement agencies, whistle-blowers, laboratory results, the EU Administrative Assistance and Cooperation system, Industry sources, intelligence directly received from other Member States, Rapid Alerts, Commission notifications, networks including the EU Food Fraud Working Group and the Food Integrity Research Programme, big data analysis and consumers.

Europol and Interpol – Operation Opson (Counterfeit food and beverages) – Ireland participates in the annual operational programme

[Europol press release 2016](#)

[Operation Opson V](#)

[Protected disclosure: The Protected Disclosure Act 2014 \(commonly referred to as whistle blower protection legislation\) offers protection to employees who report wrongdoing and came into effect on July 2014. The Minister has prescribed a list of 72 public bodies to whom protected disclosures can be made relating to specific issues. The Chief Executive of the Food Safety Authority of Ireland is listed.](#)

## [Protected Disclosures Act](#)

[Surveillance: FSAI has successfully used 'open source surveillance' to gather information on particular targets or group of targets and connected businesses. FSAI can also use more sophisticated surveillance techniques already in use by other state agencies \(for example Revenue and Customs\) investigating fraud. These are also used in other member states to investigate food fraud. To date FSAI has had limited use of these techniques.](#)

### FSAI Food Fraud Task Force

FSAI chairs and coordinates the Food Fraud Task Force (FFTF) whose members include An Garda Síochána, Revenue/Customs, DAFM, HSE, SFPA, Local Authorities, Laboratories, Dept of Social Protection, Competition and Consumer Protection Commission, Health Products Regulatory Authority and Food Standards Agency in Northern Ireland. The FFTF meets three times per year and information on fraud and criminality in the food sector is shared among members.

FSAI represents Ireland on the EU Food Fraud Working Group and is the designated contact point for the Administrative Assistance and Cooperation (AAC) system which facilitates the exchange of information where suspected cross border non-compliances are perpetrated through fraudulent deceptive practices.

## **Commodities/products of interest and type of research of interest**

### **1. Commodities/products of interest**

*Please provide a list of the commodities/food products in priority order most important for each MS in terms of value to that country.*

- 1) Dairy
- 2) Beef
- 3) Prepared foods
- 4) Beverages

### **2. Type of research of interest**

*Please provide a list of type of research (e.g. criminology, critical points, historical points, analytical methods, consumer behaviour, economic aspects) in priority order most important for each MS in terms of value to that country).*

- 1) Food Chain mapping and food fraud vulnerability analysis
- 2) Analytical analysis
- 3) Drivers of food fraud
- 4) Criminology

## Annex 8

### Authent-Net Member State (MS) National Status Report

#### Country: Italy

*Please note that the information provided here below will be put on the Food Authenticity Research Network Hub (FARNH) which will be publically accessible. So please do not include any confidential information.*

#### List of organisations that fund food anti- fraud/food authenticity research and the type of research they fund

*Please provide a list of organisations (Government + NGO whatever the nationality) that are funding projects on food authenticity in your MS*

**1. MINISTRY OF AGRICULTURAL, FOOD AND FORESTRY POLICIES (Ministero delle Politiche Agricole, Alimentari e Forestali - MIPAAF) (government, public)**

Via XX Settembre,n.20 – 00187 - Roma

Web: <https://www.politicheagricole.it>

**Type of research funded: APPLIED**

The Ministry of Agricultural, Food and Forestry Policies (MIPAAF) is the governmental department that develops and coordinates national agricultural, food and forestry policies and manages fishery activities at national and international level.

The Ministry directs specific control activities to protect certified typical Italian food products and to contrast food frauds; it also promotes research and progress in its areas of expertise.

Contact available through: Direzione generale per la Prevenzione ed il Contrasto alle frodi agroalimentari. [pref.direttore@politicheagricole.it](mailto:pref.direttore@politicheagricole.it)

**2. MINISTRY OF HEALTH (Ministero della Salute) (government, public)**

Viale Giorgio Ribotta, 5 – 00144 - Roma

Web: <http://www.salute.gov.it/>

**Type of research: APPLIED/STRATEGIC**

The Ministry of Health is the governmental Department that directs the National Health Service and coordinates official control activities on animal health, food hygiene and food safety; it also promotes research in human and animal health and in food safety areas of interest.

Contact available through: Direzione generale per l'Igiene e la Sicurezza degli Alimenti e la Nutrizione. [segreteriaadgsan@sanita.it](mailto:segreteriaadgsan@sanita.it)

**3. MINISTRY OF EDUCATION, UNIVERSITY AND RESEARCH (Ministero dell'Istruzione, dell'Università e della Ricerca – MIUR) (government, public)**

Via Michele Carcani, 61 – 00153 Roma

Web: <http://www.istruzione.it>

**Type of research: APPLIED/STRATEGIC**

The Ministry of Education, University and Research coordinates the National Education System and research activities; it funds research projects concerning topics of national interest and elaborates the general Italian Research Strategy.



Contact available through: Direzione generale per il Coordinamento, la Promozione e la Valorizzazione della Ricerca. [DGRIC.segreteria@miur.it](mailto:DGRIC.segreteria@miur.it)

#### **4. ITALIAN REGIONS (non government, public)**

The regional councils manage local official controls and policies on agricultural development, food safety and quality and fund research projects to develop local agriculture, protect environment and valorise typical traditional food products.

##### **Type of research: APPLIED**

Web:

Abruzzo - <http://www.regione.abruzzo.it/>

Basilicata - <http://www.regione.basilicata.it/giunta/site/giunta/home.jsp>

Calabria - <http://www.regione.calabria.it/>

Campania - <http://www.regione.campania.it>

Emilia Romagna - <http://www.regione.emilia-romagna.it>

Friuli Venezia Giulia - <http://www.regione.fvg.it>

Lazio - <http://www.regione.lazio.it>

Liguria - <http://www.regione.liguria.it/>

Lombardia - <http://www.regione.lombardia.it>

Marche - <http://www.regione.marche.it>

Molise - <http://www3.regione.molise.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/1>

Piemonte - <http://www.regione.piemonte.it/>

Puglia - <http://www.regione.puglia.it>

Sardegna - <http://www.regione.sardegna.it>

Sicilia - <http://pti.regione.sicilia.it/>

Toscana - <http://www.regione.toscana.it/>

Trentino Alto Adige - <http://www.regione.taa.it/>

Umbria - <http://www.regione.umbria.it/home>

Valle d'Aosta - <http://www.regione.vda.it/>

Veneto - <http://www.regione.veneto.it>

#### **5. AGER (Agroalimentare e ricerca) – AGER (Agrofood and research) (non government, private)**

Home office c.o. Cariplo Foundation, Via Manin, 23 – Milano

Web: <http://www.progettoager.it/>

##### **Type of research: APPLIED/STRATEGIC**

Ager is a partnership between 13 banks foundation that promotes and supports agro-food research. From 2008 to 2015 Ager funded 16 research projects highly specialized in cereal, fruit, wine and meat sectors.

Contact: [valentinacairo@fondazionecariplo.it](mailto:valentinacairo@fondazionecariplo.it)

## 6. ITALIAN UNIVERSITIES INVOLVED IN AUTHENTICITY RESEARCH (NGO, public)

### Type of research: APPLIED/STRATEGIC

- Università di Bologna - Alma Mater Studiorum

Dipartimento di Scienze e Tecnologie Agro-Alimentari (Department of Agricultural and Food Sciences)

Viale Fanin, 40 – 40127 Bologna

Piazza Goidanich, 60 – 47521 Cesena

web: <http://www.distal.unibo.it>

The University of Bologna is involved in the Research projects “OLEUM” and “AUTHENT-NET”.

- Università Carlo Cattaneo LIUC di Varese

Dipartimento di Studi Giuridici (Department of Law)

Corso Matteotti, 22 – 21052 Castellanza (VA)

web: <http://www.liuc.it/?s=GIURISPRUDENZA>

The University of Varese is involved in the Research project “SALTUM”

- Università di Firenze

- Dipartimento di Gestione dei Sistemi Agrari, Alimentari e Forestali (Department of Agricultural, Food and Forestry Systems)

Via S. Bonaventura, 13 – 50145 Firenze

web: <http://www.gesaaf.unifi.it/>

The Department is involved in the research project: “Winefinger”

- Dipartimento d’Ingegneria dell’Informazione (Department of Information Engineering-Media Integration and Communication Center)

Via Santa Marta, 3 – 50139 Firenze

Web: <http://lci.micc.unifi.it/labd/about/>

The department is involved in the project “SMARTVINO”

- Dipartimento di ingegneria industriale (Department of industrial Engineering)

Via Santa Marta,3 – 50139 Firenze

web: <http://www.dief.unifi.it/>

- Dipartimento di Chirurgia e Medicina Traslazionale (Department of Surgery and Translational Medicine)

Largo Brambilla,3 – 50134 Firenze

web: <http://www.dgmt.unifi.it/>

-Dipartimento di Scienze delle Produzioni Agroalimentari e dell'Ambiente (Department of Agri-food Productions and Environmental Sciences)

Piazzale delle Cascine, 18 – 50144 Firenze

web: <http://www.dispaa.unifi.it/>

The departments are involved in the research project “TRACS”

- Dipartimento di Scienze della Terra (Department of Earth Sciences)

Via La Pira, 4 – 50121 Firenze

web: <http://www.dst.unifi.it/>

The department is involved in the research project “GEOEVO”

- Università degli Studi di Foggia  
Dipartimento di Scienze Agrarie, degli Alimenti e dell'Ambiente (Department of Agricultural, Food and Environmental Science)  
Via Napoli, 25 – 71121 Foggia  
web: <http://www.agraria.unifg.it/it>  
The department is involved in the research project “PLASS”
  
- Università degli Studi di Milano  
Via Festa del Perdono, 7 – 20122 Milano  
- Dipartimento di Diritto pubblico italiano e sovranazionale (Department of Italian and Supranational Public Law)  
web: <http://www.dirittopubblico.unimi.it/ecm/home/organizzazione>  
  
- Dipartimento di Scienze sociali e politiche (Department of social and Political Sciences)  
web: <http://www.sps.unimi.it/ecm/home/organizzazione>  
The University of Milano is involved in the Research project “SALTUM”
  
- Università del Sacro Cuore di Milano  
Dipartimento di Scienze Sociali e Politiche (Department of Social and Political Science)  
Largo A. Gemelli, 1 – 20123 Milano  
web: <http://milano.unicatt.it/facolta/scienzepolitichesociali>  
The Catholic University of Milano is involved in the Research project “SALTUM”
  
- Università degli Studi di Modena e Reggio Emilia  
Dipartimento di Scienze Chimiche e Geologiche (Department of Chemical and Geological Sciences)  
Via Giuseppe Campi, 103 - 41125 Modena  
web: [www.dscg.unimore.it](http://www.dscg.unimore.it)  
The University of Modena and Reggio Emilia is involved in the research project: “Nuove tecnologie analitiche per la tracciabilità geografica e varietale dei prodotti enologici”  
Contacts available through: [andrea.marchetti@unimore.it](mailto:andrea.marchetti@unimore.it)
  
- Università di Palermo  
Piazza Marina, 61 - 90133 Palermo  
web: <http://www.unipa.it>  
The University of Palermo is involved in the research project PLASS.
  
- Università degli Studi di Parma  
Dipartimento di Scienze degli Alimenti (Department of Food Science)  
Parco Area delle Scienze, 59/A - 43124 Parma  
web: <http://www.foodscience.unipr.it/it>  
The University of Parma is involved in the Research Project “Food authenticity testing: identificazione di frodi con risvolto sanitario in preparazioni e prodotti a base di carne tramite tecniche di microscopia classica e confocale”
  
- Università degli Studi di Pavia

Dipartimento di Scienze Politiche e Sociali (Department of Political and Social Sciences)

Corso Strada Nuova, 65 - 27100 Pavia

web: <http://www-3.unipv.it/webdsps/it/>

The University of Pavia is involved in the Research Project "SALTUM"

- Università di Pisa

Dipartimento di Scienze Agrarie, Alimentari ed Agro-ambientali (Department of Agricultural, Food and Agri-Environmental Sciences)

via del Borghetto, 80 - 56124 Pisa

web: <http://www.agr.unipi.it>

The University of Pisa is involved in the project "winefinger"

- Università Campus Bio-Medico di Roma

Via Álvaro del Portillo, 21, Roma

web: <http://www.unicampus.it>

The University of Rome is involved in the research project "BACCUS"

- Università di Siena

Dipartimento di Scienze della vita (Department of Life Sciences)

San Miniato Via Aldo Moro, 2 – via Pier Andrea Mattioli, 4 53100 Siena

web: <http://www.dsv.unisi.it/it>

The University of Siena is involved in the research projects. "Winefinger", "Fishtrack", "Tosco magnatum trace"

- Università degli Studi di Torino

Dipartimento di Giurisprudenza (Department of Law)

Via Verdi, 8 – 10124 Torino

web: <http://www.dg.unito.it/do/home.pl>

The University of Torino is involved in the Research project "La disciplina in materia di alimenti e bevande tra Diritto dell'Unione Europea e ordinamento nazionale"

## **Plan/Strategy in terms of Authenticity Research Funding**

*Please provide a web link to a plan/strategy on food authenticity for each specific funding organisation (see 1<sup>st</sup> box), provided there is one, or anything the funding organisations are able to provide (general plan/strategy on food). That should include policy documents, research/surveillance documents where possible.*

**1. Funding organisation name + web link to plan + Key decision making committees**

### **Plan/Strategy by institution numbered according to the previous list of funding bodies.**

**1. Ministry of Education, University and Research**

[http://www.istruzione.it/allegati/2016/PNR\\_2015-2020.pdf](http://www.istruzione.it/allegati/2016/PNR_2015-2020.pdf)

PNR 2015-2020 – the National Research Plan presents an overview of the Italian applied research system and draws the future strategies and priorities to improve research activities, considering 12 main areas of interest. Among these areas, “Agri-food” is considered one of the principal sectors for industrial research.

**2. Cluster Agrifood** : it is one of the national technological clusters created to facilitate cooperation between public and private research providers and food producers.

Web: <http://www.clusteragrifood.it/>

<http://www.clusteragrifood.it/images/RoadmapOpuscolo.pdf>

Road map per la Ricerca e l'Innovazione - the “Road Map for Research and Innovation” is a document developed by Universities, Research Institutes and Industries to elaborate a specific research strategy for food, based on six main topics (food related disease prevention, food safety, food quality, increasing productions, improvement of productive implants, collection and utilization of food chain data).

**3. Ministry of Agricultural, Food and Forestry Policies**

<https://www.politicheagricole.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/9065>

Piano strategico per l'Innovazione e la Ricerca nel Settore agricolo, alimentare e forestale (2014-2020) – the “Strategic Plan for Agricultural, Food and Forestry Research” developed by the Ministry and the Italian Regions, describes the specific strategy for research in agricultural productivity, environment and food quality.

**4. Ministry of Health**

[http://www.salute.gov.it/imgs/C\\_17\\_publicazioni\\_2489\\_allegato.pdf](http://www.salute.gov.it/imgs/C_17_publicazioni_2489_allegato.pdf)

Programma nazionale della Ricerca sanitaria (PNRS 2014-2016) – the National Programme for Health Research defines the actual situation and objectives in specific areas of expertise: biomedical research, clinical research, job security research, animal health research and food safety research (analytical methods, improvement of surveillance systems, risk communication).

## Capabilities/Infrastructure of Authenticity research providers/relevant NRLs

*Please provide details of national capabilities (public and private) in terms of food authenticity analysis (relevant National Reference Laboratories, certified laboratories etc.) and in terms of Food Authenticity Research.*

**1. Name** (Categorise into academic/research, general proficiency, expertise in a specific technique and/or commodity)

Address

Web site:

Contact available through: (Any web sites where contact details of key personnel are available)

Telephone:

**1. Laboratori dell'Ispettorato Centrale Repressione frodi - ICQRF** (general proficiency and expertise in specific commodities or techniques)

The official laboratories of the "Central Inspectorate of Quality Protection and Fraud Repression" analyse specimens derived from official controls disposed by the Ministry of Agricultural, Food and Forestry Policies to verify food, feed, seed and fertilizer merchandise quality and carry out research activities concerning analytical methods to assess food authenticity. There are six laboratories territorially distributed.

Web site: <https://www.politicheagricole.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/7540>

- Laboratorio di Modena

Via J. Cavedone, 29 - 41100 Modena

Contact available through: [icqrf.modena.laboratorio@politicheagricole.it](mailto:icqrf.modena.laboratorio@politicheagricole.it)

Tel: +39 059358419

Commodities of expertise: feed, honey, meat products. National Reference laboratory for the determination of water content in poultry meat.

- Laboratorio di Perugia

Via della Madonna Alta, 138C/D - 06128 Perugia

Contact available through: [icqrf.perugia.laboratorio@politicheagricole.it](mailto:icqrf.perugia.laboratorio@politicheagricole.it)

Tel: +39 0755009126

Commodities of expertise: olive oil, milk and cheese

- Laboratorio di Salerno

Via Irno, 11 - 84098 Salerno

Contact available through: [icqrf.salerno.laboratorio@politicheagricole.it](mailto:icqrf.salerno.laboratorio@politicheagricole.it)

Tel: +39 089798144

Commodities of expertise: cereals, canned tomatoes, canned truffles, GMO products

- Laboratorio di Catania

Via Alessandro Volta, 19 - 95122 Catania

Contact available through: [icqrf.catania.laboratorio@politicheagricole.it](mailto:icqrf.catania.laboratorio@politicheagricole.it)

Tel: +39 095480411

Commodities and techniques of expertise: seeds, fertilizers, biological agriculture products, food additives, isotopic analysis.

- Laboratorio di Conegliano/Susegana  
Via Casoni, 13/B - 31058 Susegana  
Contact available through: [icqrf.conegliano.laboratorio@politicheagricole.it](mailto:icqrf.conegliano.laboratorio@politicheagricole.it)  
Tel: +39 0438453512  
Commodities of expertise: wine and spirit drinks

- Laboratorio Centrale di Roma  
Via del Fornetto, 85 - 00149 Roma  
Contact available through: [icqrf.roma.laboratorio@politicheagricole.gov.it](mailto:icqrf.roma.laboratorio@politicheagricole.gov.it)  
Tel: +39 065534161  
Specific tasks: coordination of research activities, analytical reviews

**2. Centro per l'Innovazione dei Sistemi di Qualità, Tracciabilità e Certificazione dell'Agroalimentare** – University of Palermo – Department of Agricultural and Forestry Sciences (academic/research)

The “Centre for Innovation of Quality systems, Traceability and Food Certification” was born thanks to European funds and provides advanced research services to ensure quality and safety of fresh and packaged food products.

Via delle Scienze - Edificio 4, Palermo  
Web: <http://www.agrigenomica.it/#>  
Tel: +39 09123896068

- Laboratory of agricultural genomics  
Contact available through: [baldassare.portolano@unipa.it](mailto:baldassare.portolano@unipa.it)

- Laboratory of environmental and food chemistry  
Contact available through: [claudio.depasquale@unipa.it](mailto:claudio.depasquale@unipa.it)

- Laboratory of food microbiology  
Contact available through: [luca.settanni@unipa.it](mailto:luca.settanni@unipa.it)

**3. Istituti Zooprofilattici Sperimentali** (general proficiency and expertise in specific commodities)

The official laboratories for veterinary prophylaxis analyse animal and food samples derived from official controls disposed by the Ministry of Health for monitoring and controlling veterinary and zoonotic diseases and to ensure food safety. Moreover, they carry out research activities concerning veterinary pathology and food safety topics. There are 10 institutes and 90 peripheral divisions territorially distributed.

- Istituto Zooprofilattico Sperimentale delle Venezie  
Viale dell'Università, 10 – 35020 – Legnaro (Padova)  
Web: <http://www.izsvenezie.it>  
Tel: +39 049 8084211

Centro di Riferenza Nazionale per l'Apicoltura  
The “National Reference Centre for Apiculture” performs and coordinates analytical activities related to the diagnosis of bee diseases and chemical, microbiological and genetic tests on honey at national level.

- Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise  
Via Campo Boario - 64100 Teramo

Web: <http://www.izs.it/IZS/Engine/RAServePG.php/P/250010010703/L/1>

Tel: +39 08613321

- Istituto Zooprofilattico Sperimentale del Mezzogiorno  
Via Salute, 2 - 80055 Portici (Napoli)

Web: <http://www.izsmportici.it/portale/index.php>

Tel: +39 0817865111

- Istituto Zooprofilattico Sperimentale del Lazio e della Toscana  
Via Appia Nuova, 1411 - 00178 Roma

Web: <http://www.izslt.it/new/en/>

Tel: +39 06790991

Centro di riferimento Nazionale per la Qualità del Latte e dei Prodotti derivati degli Ovicapri.  
The "National Centre for Sheep's and Goat's Milk and Milk Products Quality" carries out and coordinates analytical activities related to chemical and microbiological tests on sheep's and goat's milk and products at national level

- Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna  
Via A. Bianchi, 9 - 25125 Brescia

Web: [http://www.izsler.it/izs\\_bs/s2magazine/index1.jsp?idPagina=10](http://www.izsler.it/izs_bs/s2magazine/index1.jsp?idPagina=10)

Tel: +39 03022901

Centro di Riferenza Nazionale per la Qualità del Latte bovino.

The "National Centre for Cow's Milk Quality" performs and coordinates analytical activities related to chemical and microbiological tests on cow's milk at national level.

- Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta  
Via Bologna, 148 - 10154 Torino

Web: <http://www.izsto.it>

Tel: +39 01126861

Commodities and techniques of expertise: fishery products (histological test to differentiate between fresh and frozen-thawed fish, proteomic and genetic analysis to detect fish species substitutions) and meat.

- Istituto Zooprofilattico Sperimentale della Puglia e della Basilicata  
Via Manfredonia, 20 - 71121 Foggia

Web: <http://www.izsfg.it/izsportal/Base.aspx?frame=Home.ascx&lang=UK>

Tel: +39 0881786111

- Istituto Zooprofilattico Sperimentale della Sardegna  
Via Duca degli Abruzzi, 8 - 07100 Sassari

Web: <http://www.izs-sardegna.it/>

Tel: +39 079289200

- Istituto Zooprofilattico Sperimentale della Sicilia  
Via Gino Marinuzzi, 3 - 90129 Palermo

Web: <http://www.izssicilia.it>



Tel. +39 0916565111

- Istituto Zooprofilattico Sperimentale dell'Umbria e delle Marche  
via G. Salvemini, 1 – 06126 Perugia

Web: <http://www.izsum.it>

Tel: +39 0753431

#### **4. Istituto Superiore di Sanità** (National Health Institute) (expertise in specific commodities)

Laboratorio Nazionale di Riferimento per il Latte ed I Prodotti a Base di Latte

The “National Reference Laboratory for milk and milk products” carries out research related to this area of expertise and coordinates the analytical activity of the other official laboratories territorially distributed. It works in cooperation with the EU reference laboratory located in Maisons-Alfort (Laboratoire d'études et de recherches sur la qualité des aliments et sur les procédés agroalimentaires ).

Viale Regina Elena, 299 - 00161 Roma

Web: <http://www.iss.it/latte/>

Contact available through: [latte@iss.it](mailto:latte@iss.it)

Tel: +39 0649902368

#### **5. Laboratori di ricerca industriale** – Rete Alta Tecnologia Emilia Romagna (Industrial Research laboratories – Emilia Romagna High Technology Network) (General proficiency)

These laboratories - located in Emilia Romagna technical poles - develop and carry on industrial research activities focused on agro-food sectors, thus verifying also food quality, traceability and authenticity.

- BioDNA (Biodiversità e DNA Antico) (Biodiversity and ancient DNA)

Via Emilia Parmense, 84 - 29122 Piacenza

Web: <http://centridiricerca.unicatt.it/biodna>

Contact available through: [adriano.marocco@unicatt.it](mailto:adriano.marocco@unicatt.it)

Tel: +39 0523599204

- BIOGEST- SITEIA (Centro Interdipartimentale per il Miglioramento e la Valorizzazione delle Risorse Biologiche Agro-Alimentari) (Interdepartmental Research Centre for Agri-food Biological Resources Improvement and Valorisation )

Piazzale Europa, 1 - 42124 Reggio Emilia

Web: <http://www.biogest-siteia.unimore.it/site/home.html>

Contact available through: [andrea.antonelli@unimore.it](mailto:andrea.antonelli@unimore.it)

Tel: +39 0522522038

- CIRI Agroalimentare (Centro Interdipartimentale di Ricerca Industriale Agroalimentare)  
(Interdepartmental Centre of Industrial Agrofood Research)

Via Quinto Bucci, 336 - 47521 Cesena

Web: <http://www.agroalimentare.unibo.it>

Contact available through: [cirifood@unibo.it](mailto:cirifood@unibo.it)

Tel: +39 0547338111

- CRPV LAB (Centro Ricerche Produzioni Vegetali) (Crop Production Research Centre)  
Via dell'Arrigoni, 120 - 47522 Cesena  
Web: [http://www.crvp.it/index.php?option=com\\_content&view=article&id=5994&Itemid=9](http://www.crvp.it/index.php?option=com_content&view=article&id=5994&Itemid=9)  
Contact available through: [ortofrutticola@crpv.it](mailto:ortofrutticola@crpv.it)  
Tel: +39 0547313571

- SITEIA.PARMA (centro interdipartimentale sulla Sicurezza, Tecnologie e Innovazione Agroalimentare dell'Università degli Studi di Parma) (Interdepartmental Research Centre for agriculture and food safety, technology and innovation)  
Viale G.P. Usberti 181/A - 43124 Parma  
Web: <http://www.siteia-parma.it/Home.htm>  
Contact available through: [alessandro.pirondi@unipr.it](mailto:alessandro.pirondi@unipr.it)  
Tel: +39 0521905885

- SSICA (Stazione Sperimentale Industria Conserve Alimentari) – SSICA (Experimental Station for the Food Preserving Industry)  
Viale Faustino Tanara, 31/A – 43121 Parma  
Web: <http://www.ssica.it/index.php?lang=en>  
Contact available through: [info@ssica.it](mailto:info@ssica.it)  
Tel: +39 05217951

- TRACCIABILITA' (Laboratorio Enea per la Tracciabilità di Alimenti e Sicurezza dell'Aria) (Enea laboratory for food traceability and air security)  
Via Martiri di Monte Sole, 4 – 40129 Bologna  
Web: <http://www.tracciabilita.enea.it/>  
Contact available through: [edi.valpreda@enea.it](mailto:edi.valpreda@enea.it)  
Tel: +39 0516098052

**6. Panel Ufficiale di assaggio oli** (Official and Professional Tasters Panel of virgin olive oil)  
(expertise in specific commodities: olive oil)

This official Committee of tasters is recognized both at a national and international level (IOC) and is the Italian reference in case of legal opposition related to the commercial classification of virgin olive oils.

Viale Petrucci, 75 - 65013 Città Sant'Angelo (PE)  
Web: [http://sito.entecra.it/portale/cra\\_dati\\_istituto.php?id=253&lingua=EN](http://sito.entecra.it/portale/cra_dati_istituto.php?id=253&lingua=EN)  
Contact available through: [oli.pe@crea.gov.it](mailto:oli.pe@crea.gov.it)  
Tel: +39 074349743

**7. Fondazione Edmund Mach** - Unità di ricerca (TR) - Studio dei rapporti tra isotopi stabili di bioelementi per valorizzare e tutelare le produzioni di qualità e ad origine protetta (Edmund Mach Foundation - Research Unit (TR) - Stable Isotope and Traceability)  
(expertise in specific commodities and techniques)

This laboratory is a competence centre for the research in the field of the application of stable isotope ratios analysis of bio-elements (H, C, N, O, S) and collaborates with Official Control units

and European Research Institutes. Its principal activity is to develop analytical methods and statistical models to verify food authenticity and geographic origin.

Via E. Mach, 1 38010 S. Michele all'Adige (TN)

Web: <http://www.fmach.it/CRI/info-general/organizzazione/Qualita-alimentare-e-nutrizione/Tracciabilita>

Contact available through: [federica.camin@fmach.it](mailto:federica.camin@fmach.it)

Tel: +39 0461 615 149

**8. Istituto di Scienze alimentari - CNR** (Institute of Food Sciences – National Research Council of Italy)  
(academic/research)

The research activities of CNR-ISA are focused on the study of food quality and safety, as well as the relationship between food composition and health.

Topics:

- \* Food quality and biodiversity;
- \* Development of: nutraceuticals, fortified, functional and novel food;
- \* Characterization of biological and technological properties of food components and microorganisms, exploitable in the Food and Health sectors;
- \* Innovative processes of food transformation/storage;
- \* New active, smart and sustainable packaging system;s
- \* Valorization of products having a territorial dimension and monitoring of the agro-food chain.

Via Roma, 64 83100 Avellino

Web: <http://www.isa.cnr.it/web/>

Tel: +39 0825 299111

**9. CREA** – Centro di Ricerca per gli alimenti e la nutrizione (Research Centre for food and nutrition)  
(academic/research)

The centre performs research activities on food, having as main objective the improvement of food quality and productivity and the valorisation of typical national products

Via Ardeatina, 546 - 00178 Roma

Web: [http://nut.entecra.it/354/chi\\_siamo.html](http://nut.entecra.it/354/chi_siamo.html)

Tel: +39 06 51494.1

## Recent key Cases/Reports/Reviews (after 2010)

*Please provide a list of web links to public outputs, documents, papers, reports, databases on incidents, detection methods, ... in relation to food authenticity your MS is involved (see T1.1)*

### 1. Title + web link

#### **1. Relazione annuale al PNI (Piano Nazionale Integrato) 2014** (Annual report to the National Integrated Plan - 2014)

The National Integrated Plan is redacted every three years by the Ministry of Health supported by the Ministry of Agricultural, Food and Forestry policies, the Ministry of Environment, the Regions and the intelligence agencies to regulate and integrate the entire control activity on animal health and welfare, food and feed security and food authenticity along the food chain (from farm to fork) in accordance to the EU 882/2004 regulation.

<http://www.salute.gov.it/relazioneAnnuale2014/homeRA2014.jsp>

#### **2. Relazione annuale al PNI (Piano Nazionale Integrato) 2015** (Annual report to the National Integrated Plan – 2015)

<http://www.salute.gov.it/relazioneAnnuale2015/homeRA2015.jsp>

### **3. Specific reports on the control activities performed by national intelligence agencies.**

- ICQRF Report attività 2016 (ICQRF activity report 2016)

The Central Inspection Organization for Frauds Repression is the main organism that prevents illegal trade of adulterated food and carries out control activities on certified products. It has got 29 territorial offices and 6 laboratories

<https://www.politicheagricole.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/394>

- Rapporto attività 2013-2014-2015 – nuclei antifrodi carabinieri (NAC) (2013-2014-2015 NAC activity report)

The NAC is a police force that controls food trade and helps the ICQRF preventing food frauds.

<https://www.politicheagricole.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/4252>

- Agri-food Defence Report 2015 (Italian version) and 2014 (English version) – Corpo Forestale dello Stato

The Italian Forestry Corps is a police force that works preventing and fighting against environmental, agricultural and food crimes.

[http://www.corpoforestale.it/Ambientale\\_Alimentare](http://www.corpoforestale.it/Ambientale_Alimentare)

- Relazione controllo pesca 2014 – Comando generale del Corpo delle Capitanerie di Porto - Guardia costiera (Fishery control report -2014)

The General Command of Port authorities manages control activities on fishery, aquaculture and trade of seafood products

[http://www.eurofishmarket.it/files/GCrelazione\\_annuale\\_2014.pdf](http://www.eurofishmarket.it/files/GCrelazione_annuale_2014.pdf)

- Attività 2014 – Posti d'Ispezione Frontaliera e uffici veterinari per gli adempimenti comunitari (PIF and UVAC activity report 2014)

The “Border Inspection Departments “are 23 veterinary territorial offices dependent on the Ministry of Health that control live animals, food and feed products coming from foreign countries and entering the European Union.

The “Veterinary Departments for European Community Obligations “are 17 offices that direct veterinary inspections and manage the transfer of information concerning commodities imported in Italy from other European countries.

[http://www.salute.gov.it/imgs/C\\_17\\_pubblicazioni\\_2400\\_allegato.pdf](http://www.salute.gov.it/imgs/C_17_pubblicazioni_2400_allegato.pdf)

- Relazione 2015 sul sistema di allerta europeo RASFF – European Alert System report 2015

[http://www.salute.gov.it/imgs/C\\_17\\_pubblicazioni\\_2475\\_allegato.pdf](http://www.salute.gov.it/imgs/C_17_pubblicazioni_2475_allegato.pdf)

**4. Sondaggio condotto dal Ministero delle Politiche Agricole, Alimentari e Forestali (MIPAAF)** sull’etichettatura dei prodotti alimentari (Survey about food labeling carried out by the Ministry of Agricultural, food and Forestry policies)

<https://www.politicheagricole.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/8531>

**5. Rapporto frodi agroalimentari 2015** (Agrifood fraud report 2015) –movimento Fare ambiente  
- Movement “To make environment”

<http://www.fareambiente.it/documenti/rapporto%20frodi%202015.pdf>

**6. Conference paper:** “Main drivers to traceability systems in the food supply chain”.

[https://www.researchgate.net/publication/260247017\\_Main\\_drivers\\_to\\_traceability\\_systems\\_in\\_the\\_food\\_supply\\_chain](https://www.researchgate.net/publication/260247017_Main_drivers_to_traceability_systems_in_the_food_supply_chain)

**7. Link of a public association (Associazione “Cultura Facile” – “Easy Knowledge” Association)** that reports cases of food fraud and food safety incidents

<http://www.frodialimentari.it/>

*Key information to be registered/extracted on/ from the Authent-Net Documents database (FARNHub)*

**Ongoing Projects (after 2010) including national-international/public-private funded projects)**

*Please provide a list of ongoing projects on food authenticity your MS is involved in (see T1.1)*

1. Name, funding, start/end date + Web site link

**1. Projects financed by the Ministry of Health**

Finalized research financed projects -2013:

List of projects and abstracts:

[http://www.salute.gov.it/imgs/C\\_17\\_pagineAree\\_4357\\_listaFile\\_itemName\\_21\\_file.pdf](http://www.salute.gov.it/imgs/C_17_pagineAree_4357_listaFile_itemName_21_file.pdf)

-RF-2013-02359002 - No more emergencies in DNA species identification: development and harmonization of molecular and next generation methods to determine and quantify origin species in food and to discriminate frauds from unintentional contamination – Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta.

Current research projects:

- Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta

List of projects and abstracts:

[http://www.izsto.it/images/stories/Ricerche/BufferingRicerche\\_Ministeriali\\_IZSTOCapofila.html](http://www.izsto.it/images/stories/Ricerche/BufferingRicerche_Ministeriali_IZSTOCapofila.html)

- IZS PLV 01/14 Applicazione di tecnologie avanzate per ricerca e sviluppo nell'ambito della lotta alle frodi alimentari (Application of advanced technologies to research and development to fight against food frauds)

- IZS PLV 17/12 Food authenticity testing: identificazione di frodi con risvolto sanitario in preparazioni e prodotti a base di carne tramite tecniche di microscopia classica e confocale (Food authenticity testing: health frauds identification in meat products using classic and confocal microscopy techniques)

- IZS PLV 10/13 Oltre lo scandalo carne di cavallo: nuove strategie analitiche per lo smascheramento di alcune tra le principali frodi alimentari (Beyond the horse meat scandal: new analytical strategies to discover some of the major food frauds)

- IZS PLV 03/12 La disciplina in materia di alimenti e bevande tra diritto dell'Unione Europea e ordinamento nazionale (The food and beverage regulations in an European and National perspective)

- IZS PLV 03/11 "Implementazione di un sistema di sorveglianza sulle frodi sanitarie ittiche relative alla dichiarazione dello stato di conservazione" (Implementation of a surveillance system of health seafood frauds based on preservation status declaration)

- IZS PLV 02/11 Tracciabilità molecolare dei prodotti lattiero-caseari "from fork to farm"  
(Molecular traceability of milk products "from fork to farm")

- Collaborazione tra pubbliche amministrazioni sulle frodi nella rete (FRAUD-NET)- Creazione di un network per un'azione coordinata di contrasto alle frodi alimentari a tutela della salute del cittadino. (Collaboration between public health administrations on frauds – FRAUD-NET – Creation of a network for a coordinated action to fight against food frauds and protect citizens' health) from 01/2016 to 04/2017

- Istituto Zooprofilattico Sperimentale delle Venezie  
List of projects and abstracts:

<http://www.izsvenezie.it/ricerca/archivio-ricerche/>

- IZS VE 17/12 Ristorazione etnica e sicurezza alimentare: problematiche microbiologiche, reazioni avverse, frodi e percezione del rischio da parte del consumatore finale (Ethnic restaurants and food safety: microbiological problems, adverse reactions, frauds and how consumers perceive risk)

Project results: <http://www.izsvenezie.it/cibo-etnico-caratteristiche-abitudini-consumatori-italiani/>

- IZS VE 06/11 Indagine sulla qualità igienico sanitaria e sulla corretta identificazione dei prodotti ittici nelle mense pubbliche del Triveneto (Investigation on hygienic quality and correct identification of seafood products in public canteens in the Triveneto region)

Project results: <http://www.izsvenezie.it/prodotti-ittici-in-mensa-quali-rischi-alimentari-in-scuole-ospedali-e-case-di-cura/>

- IZS VE 18/11 Tracciabilità genetica quale approccio per promuovere i prodotti tradizionali e tipici ottenuti da razze bovine autoctone dell'arco alpino (Genetic traceability as an approach to promote traditional products from alpine cattle native breeds)

Project results: <http://www.izsvenezie.it/tracciabilita-genetica-per-promuovere-i-prodotti-tipici-ottenuti-da-razze-bovine-dell-arco-alpino/>

- Istituto Zooprofilattico Sperimentale della Lombardia ed Emilia Romagna  
Project database:

[http://www.izsler.it/pls/izs\\_bs/bd\\_edit\\_pr.risultati?p\\_nome=frodi&p\\_stato=&p\\_anno=&p\\_tipologia=&p\\_ruolo=&p\\_cup=&nome\\_resp=&tipo\\_resp=&rifi=&rifp=&p\\_pagina=717](http://www.izsler.it/pls/izs_bs/bd_edit_pr.risultati?p_nome=frodi&p_stato=&p_anno=&p_tipologia=&p_ruolo=&p_cup=&nome_resp=&tipo_resp=&rifi=&rifp=&p_pagina=717)

- IZS LER 14/14 La rilevazione delle frodi alimentari attraverso l'analisi della componente lipidica e l'analisi chemiometrica (Detection of frauds thanks to the lipid component analysis and chemometric analysis)

- Istituto Zooprofilattico Sperimentale della Puglia e Basilicata  
- IZS PB 03/14 Metodi molecolari innovativi finalizzati all'identificazione di specie animali per evidenziare frodi alimentari in prodotti a base di carne (New molecular methods used to identify animal species in order to detect food frauds in meat products)

- Istituto Zooprofilattico Sperimentale del Lazio e della Toscana  
Current research- project list:

[http://www.izslt.it/new/wp-content/uploads/2014/08/ricerche\\_correnti.pdf](http://www.izslt.it/new/wp-content/uploads/2014/08/ricerche_correnti.pdf)

- IZS LT 05/10 Tracciabilità ed etichettatura degli alimenti: sviluppo ed armonizzazione di metodologie analitiche biomolecolari per l'identificazione di specie (Food traceability and labelling: development and harmonization of biomolecular methods for species identification)

- IZS LT 06/12 Studio e valutazione degli aspetti critici nell'analisi di sostanze utilizzate come additivi autorizzati e non o presenti come contaminanti negli alimenti (Study and evaluation of critical aspects occurred analysing authorized and unauthorized additives and food contaminants)

- Istituto Zooprofilattico Sperimentale del Mezzogiorno  
- IZS ME 03/12 Messa a punto, validazione e verifica dell'applicabilità di un sistema informatico da utilizzare per la gestione della tracciabilità nella filiera bufalina (Development, validation and check of a computer system to manage traceability in products derived from buffalo)

- Istituto Zooprofilattico Sperimentale della Sicilia  
- IZS SI 10/12 Costruzione di una piattaforma multi diagnostica per la tracciabilità delle produzioni alimentari. Ottimizzazione di un saggio array per l'identificazione delle specie animali negli alimenti (Development of a multi diagnostic platform for food traceability . Optimization of a microarray method to identify animal species in food)

- Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise  
Project database:

[https://servizi.izs.it/gestioneProgetti/visualizza/fasegestione\\_search\\_list.do](https://servizi.izs.it/gestioneProgetti/visualizza/fasegestione_search_list.do)

- IZSTE 06/12 Caratterizzazione dell'origine geografica e valutazione dei livelli di contaminazione da metalli pesanti ed Arsenico nella mozzarella di bufala mediante tecniche spettroscopiche (Characterization of geographical origin and evaluation of heavy metal contamination level in buffalo mozzarella using spectroscopic techniques) from 08/2013 to 08/2016

## **2. Projects developed by private societies**

Safety for Food" (S4F) developed by Cisco Systems Italy srl (Cisco) and Penelope SpA

<http://www.quotidianosanita.it/allegati/allegato7760151.pdf>



### 3. Projects financed by the Ministry of Agriculture

Financed project list:

<https://www.politicheagricole.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/7705>

- Istituto Agrario di San Michele all'Adige Fondazione Edmund Mach Trento, AIAB Associazione Italiana per l'Agricoltura Biologica Roma,, BIOS s.r.l. di Marostica Vicenza

AUTHENTIC FOOD - Fast methods for authentication of organic plant based food

CREA (Consiglio per la Ricerca in Agricoltura e l'Analisi dell'Economia Agraria – Council for Agricultural Research and Analysis of Agricultural Economics)

<http://antares.crea.gov.it:8080/en/-/strumenti-di-supporto-per-la-valutazione-del-rischio-di-frodi-nel-sistema->

[agroalimentare?redirect=http%3A%2F%2Fantares.crea.gov.it%3A8080%2Fen%2Fsostenibilita%2Fprogetti%3Bjsessionid%3D52BD0C79B768FB8956195CE24D8BFADE%3Fp\\_p\\_id%3D101\\_INSTANCE\\_CE\\_2RP4ZTAYT5Du%26p\\_p\\_lifecycle%3D0%26p\\_p\\_state%3Dnormal%26p\\_p\\_mode%3Dview%26p\\_p\\_col\\_id%3D\\_118\\_INSTANCE\\_4W1qKSV6F081\\_column-2%26p\\_p\\_col\\_count%3D1](http://antares.crea.gov.it:8080/en/-/strumenti-di-supporto-per-la-valutazione-del-rischio-di-frodi-nel-sistema-agroalimentare?redirect=http%3A%2F%2Fantares.crea.gov.it%3A8080%2Fen%2Fsostenibilita%2Fprogetti%3Bjsessionid%3D52BD0C79B768FB8956195CE24D8BFADE%3Fp_p_id%3D101_INSTANCE_CE_2RP4ZTAYT5Du%26p_p_lifecycle%3D0%26p_p_state%3Dnormal%26p_p_mode%3Dview%26p_p_col_id%3D_118_INSTANCE_4W1qKSV6F081_column-2%26p_p_col_count%3D1)

-Strumenti di supporto per la valutazione del rischio di frodi nel sistema agroalimentare (support tools to fraud risk evaluation in agricultural and food system)

### 4. Projects financed by Italian Regions

- SALTUM- La tutela multilivello del diritto alla sicurezza degli alimenti: strumenti nazionali e internazionali per contrastare le frodi alimentari e il loro impatto sul territorio (SALTUM - multilevel protection of food safety law: national and international tools to fight against food frauds and their territorial impact ) - Università degli studi di Milano, Università degli Studi di Pavia, Università del Sacro Cuore di Milano, Università Carlo Cattaneo LIUC di Varese, Regione Lombardia

Project website:

<http://www-5.unipv.it/saltum/>

-Smartvino - Informazioni multimediali sul vino attraverso smart etichette (Smartvino – multimedia information on wine through smart-labels) – MICC (Media Integration and Communication Center) Università degli Studi di Firenze, Società Agricola Monteverdine (private farm) - from 05/2014 to 04/2016

Project website:

<http://www.smartvino.it>

- Winefinger-Sistemi innovativi per una tracciabilità molecolare integrata del Brunello di Montalcino (winefinger: innovative systems for an integrated molecular traceability of the “Brunello di Montalcino” wine) - Università di Firenze, Università di Siena, Università di Pisa - Regione Toscana - from 05/2014 to 05/2016

Project abstract

<http://www.regione.toscana.it/-/progetti-nel-settore-agroalimentare-i-progetti-finanziati>

- Fishtrack -Tracciabilità ed Identificazione Molecolare di Specie Ittiche (Fishtrack- traceability and molecular identification of fish) - Università di Siena, Istituto Per lo Studio degli Ecosistemi UOS Firenze, COOP Centro Italia – Regione Toscana – from 04/2014 to 04/2016

Project abstract

<http://www.regione.toscana.it/-/progetti-nel-settore-agroalimentare-i-progetti-finanziati>

-Tosco Magnatum Trace -Tracciabilità molecolare e digitale di prodotti a base di tartufo bianco toscano (Tosco magnatum trace- molecular and digital traceability of white truffle products from Tuscany) Università di Siena, Associazione Tartufai Senesi, Coop Il Tartufo delle Crete Senesi, Co.Ge.Pi.srl, Qr Quality srl – Regione Toscana – from 04/2014 to 04/2016

Project abstract

<http://www.regione.toscana.it/-/progetti-nel-settore-agroalimentare-i-progetti-finanziati>

-TRACS-"Tracciabilità degli Alimenti: valutazione di elementi Critici per le ricadute sulla Salute" (TRACS- food traceability: evaluation of critical elements for health consequences) - Università degli Studi di Firenze – Regione Toscana – from 02/2015 to 02/2017

Project abstract

<http://www.tracceditoscana.org/it/>

## 5. Projects of Italian Universities:

- “Nuove metodologie analitiche per la tracciabilità geografica e varietale di prodotti enologici” (“New analytical Methodologies for Geographical and Varietal Traceability of Oenological Products”)

AGER – Agroalimentare e Ricerca -from 07/2011 to 12/2014.

Project abstract

[http://progettoager.it/images/risultati/Progetto\\_Ager\\_Vitivinicolo\\_Tracciabilita\\_geografica\\_varietale.pdf](http://progettoager.it/images/risultati/Progetto_Ager_Vitivinicolo_Tracciabilita_geografica_varietale.pdf)

-Progetto PLASS- Platform for Agrofood Science and Safety - Università degli studi di Foggia, Centro per la Ricerca e la sperimentazione in agricoltura, Università degli Studi di Palermo

Project website:

<http://ponplass.it/progetto>

-Applicazione di tecniche spettroscopiche (UV-VISIBILE, FT-NIR, FT-IR) per la verifica dell'origine di oli extravergini di oliva e valutazione dell'attitudine alla frittura di oli vergini di girasole (Application of spectroscopic techniques (uv-visible, ft-nir, ft-ir) to verify the origin of extra-virgin olive oil and to evaluate the attitude to frying of virgin sunflower oil)

Università di Milano – Dipartimento di Scienze per gli alimenti, la nutrizione e l'ambiente

Project list

[http://www.defens.unimi.it/ecm/home/ricerca/progetti-finanziati?p\\_p\\_id=TOWERADDON\\_6\\_WAR\\_ssoproxyportlet\\_INSTANCE\\_yJra&p\\_p\\_lifecycle=0&p\\_p\\_state=maximized&template=ricercaDettaglioProgetto.vm&idprogetto=6475&backURL=http%3A%2F%2Fwww.defens.unimi.it%2Fecm%2](http://www.defens.unimi.it/ecm/home/ricerca/progetti-finanziati?p_p_id=TOWERADDON_6_WAR_ssoproxyportlet_INSTANCE_yJra&p_p_lifecycle=0&p_p_state=maximized&template=ricercaDettaglioProgetto.vm&idprogetto=6475&backURL=http%3A%2F%2Fwww.defens.unimi.it%2Fecm%2)

-GeOEVO - “Geolocalizzazione dell’olio extravergine d’oliva” (Goevo-“Geolocation of extra-virgin olive oil)

Camera di Commercio di Firenze - Università di Firenze

Project abstract

<http://www.egnews.it/geoevo-olio/?print=pdf>

## 6. European projects

-OLEUM - Advanced solutions for assuring the overall authenticity and quality of olive oil – from 09/2016 to 08/2020

Project description:

[http://cordis.europa.eu/project/rcn/204671\\_en.html](http://cordis.europa.eu/project/rcn/204671_en.html)

-PLANTLIBRA – Plant food supplements: levels of intake, benefit and risk assessment – from 01/06/2010 to 31/05/2014

Project description:

[http://cordis.europa.eu/project/rcn/94556\\_en.html](http://cordis.europa.eu/project/rcn/94556_en.html)

-Animal feed certification instrument and procedure to guarantee the quality of meat and dairy products through automatic, simple and rapid DNA barcode method based on tubulin-based polymorphism (TBP)"-from 12/2012 to 11/2015

Project website:

<http://www.feedcode-project.eu/>

-BACCUS- combating food Crime by strengthening law enforcement Cooperation from 04/2011 to 05/2014

Project website:

<http://baccus.unicampus.it/>

## **Legal framework for food authenticity (in application at a national level)**

*Please provide a list of standards/regulations on food authenticity applied in your MS (see T1.2)*

**1. Title + web link + sources of expert advice on authenticity**

### **1. IMPLEMENTATION OF EU REGULATIONS BY NATIONAL LAWS**

#### **Consumer protection and human health**

-Directive 2001/95/CE on general safety of products > D.lgs. 172/2004

<http://www.camera.it/parlam/leggi/deleghe/04172dl.htm>

-Directive 2002/99/CE > D.lgs. 117/2005 on health police rules for production, processing, distribution and introduction of food of animal origin for human consumption

<http://www.camera.it/parlam/leggi/deleghe/05117dl.htm>

-Reg. 178/2002 > d.lgs.190/06 on penalty rules for violations of the Reg. 178/2002

<http://www.camera.it/parlam/leggi/deleghe/06190dl.htm>

-National guidelines for food and feed traceability as defined by the regulation 178/2002 approved by the conference between nation and regions

[http://www.salute.gov.it/imgs/c\\_17\\_normativa\\_1834\\_allegato.pdf](http://www.salute.gov.it/imgs/c_17_normativa_1834_allegato.pdf)

-National guidelines to the regulation 852/2004 approved by the conference of state and regions

<http://www.gazzettaufficiale.it/eli/id/2010/05/26/10A06350/sg>

-National guidelines to the regulation 853/2004 approved by the conference of state and regions

[http://www.statoregioni.it/Documenti/DOC\\_037444\\_147%20csr%20punto%20%2016.pdf](http://www.statoregioni.it/Documenti/DOC_037444_147%20csr%20punto%20%2016.pdf)

#### **Controls**

-Directive 2004/41/CE > d.lgs.193/2007 on food safety controls and application of European regulations

<http://www.camera.it/parlam/leggi/deleghe/07193dl.htm>

-National guidelines to improve control activities on food safety approved by the conference of state and regions

[http://www.statoregioni.it/Documenti/DOC\\_039731\\_46%20%20csr%20punto%208.pdf](http://www.statoregioni.it/Documenti/DOC_039731_46%20%20csr%20punto%208.pdf)

-Integrated National Plan 2015-2018

<http://www.salute.gov.it/pianoNazionaleIntegrato2015/homePianoNazionaleIntegrato2015.jsp>

#### **Food labelling**

-Directives 395/89 and 396/89 > D.lgs 109/1992 and following edits on food labelling

[http://www.tuttocamere.it/files/attivita/1992\\_109.pdf](http://www.tuttocamere.it/files/attivita/1992_109.pdf)

#### **Specific product regulations**

- Cocoa and chocolate

Directive 2000/36/CE > D.lgs. 178/2003

<http://www.camera.it/parlam/leggi/deleghe/03178dl.htm>

-Food supplements

Directive 2002/46/CE >D.lgs.169/2004

<http://www.camera.it/parlam/leggi/deleghe/04169dl.htm>

- Frozen products

Directive 89/108/CE > D.lgs. 110/1992

[http://www.puntoqualita.com/pdf/normative/D.Lgs.%20110\\_92.pdf](http://www.puntoqualita.com/pdf/normative/D.Lgs.%20110_92.pdf)

-GMO

D.lgs 70/05 (penalty rules for violations of regulation 1829/2003 and 1830/2003 on food and feed GM)

<http://www.parlamento.it/parlam/leggi/deleghe/05070dl.htm>

-Honey

Directive 2001/110/CE > D.lgs. 179/2004 on honey production and trade

<http://www.parlamento.it/parlam/leggi/deleghe/04179dl.htm>

-Meat

Reg. 1760/2000> DM. 876/2015 (new instructions for bovine meat labelling)

<https://www.politicheagricole.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/8306>

DM 11715/2016 (applicative dispositions and modifications to DM 876/2015 and abrogation of DM 13/12/2001)

<https://www.politicheagricole.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/10131>

-Milk and milk products

Directive 2007/61/CE > D.lgs. 175/2011 on partially or totally dried milk for human consumption

<http://www.normattiva.it/uri-res/N2Ls?urn:nir:stato:decreto.legislativo:2011;175>

-Wine

Reg. 1493/1999 > Legge 82/2006 (Application of European regulations on the common trade organization for wine)

<http://www.camera.it/parlam/leggi/06082l.htm>

## **2. NATIONAL SPECIFIC REGULATIONS**

Civil laws

### **Consumer protection and human health**

-Legge n. 283 del 30/04/1962 on “the hygienic discipline concerning production and trade of food and beverages” > DPR 26/03/1980 n.327 (decree of implementation) and subsequent amendments

<http://www.izsto.it/images/stories/Osservatorio/Legge30aprile1962n283.pdf>

[http://www.salute.gov.it/resources/static/uffici/DPR\\_26marzo1980n327.pdf](http://www.salute.gov.it/resources/static/uffici/DPR_26marzo1980n327.pdf)

-D.lgs. 206/2005 (Consumer code)

<http://www.camera.it/parlam/leggi/deleghe/05206dl.htm>

### **Food labelling**

-D.lgs 109/1992 and following edits on food labelling

[http://www.tuttocamera.it/files/attivita/1992\\_109.pdf](http://www.tuttocamera.it/files/attivita/1992_109.pdf)

- Art. 16 subparagraph 1 (definition of “Made in Italy” products), D.lgs 135/2009 and subsequent law 223/2009

<http://www.parlamento.it/parlam/leggi/decreti/09135d.htm>

### **Specific products regulations**

-alcoholic drinks

Legge 1354/1962 and following edits (hygienic and health discipline of beer production and trade)

<http://www.ismea.it/flex/AppData/Redational/Normative/20050908000100244.pdf>

- Cereals and cereal products

Legge 580/1967 (discipline for processing and trade of cereals, flour, bread and pasta)

[http://www.apaconfartigianato.it/files/NormativeCategorie/Legge\\_580\\_1967\\_0.pdf](http://www.apaconfartigianato.it/files/NormativeCategorie/Legge_580_1967_0.pdf)

DPR 187/2001 (Regulation to review previous laws on trade of flour and pasta)

[http://www.ispettorisanitari.it/AREA\\_PROFESSIONALE/Sunto%20Vigilanza%20daquino/1872001.htm](http://www.ispettorisanitari.it/AREA_PROFESSIONALE/Sunto%20Vigilanza%20daquino/1872001.htm)

DM 22/07/2005 (Production and trade of specific confectionery products)

<http://gazzette.comune.jesi.an.it/2005/177/7.htm>

-milk and milk products

Legge 169/1989 on treatment and trade of food cow's milk

<http://www.ismea.it/flex/AppData/Redational/Normative/20050907000100132.pdf>

DM 185/1991 on particular characteristics of "high quality fresh pasteurized milk"

[http://www.granlatte.it/media/documents/granlatte\\_www/DL185\\_91.pdf](http://www.granlatte.it/media/documents/granlatte_www/DL185_91.pdf)

-Oil

Legge n.9 /2013 on quality and fairness of virgin olive oil chain

<http://www.gazzettaufficiale.it/eli/id/2013/01/31/13G00030/sg>

-Seafood products

DM 31 gennaio 2008 and following edits on italian name of commercial seafood products

<https://www.politicheagricole.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/2563>

Criminal code

<http://www.ipsoa.it/codici/cp/l2/t6>

-Art 439 (water and food poisoning)

-Art. 440 (food adulteration)

-Art.442 (trade of adulterated food)

-Art. 444 (harmful food trade)

-Art.515 (commercial frauds)

-Art.516 (adulterated food trade)

-Art.517 (trade of products providing incorrect information to consumers)

-Art 640 (crime of fraud)

Criminal code procedure

Art. 223 (Sample analysis and guarantees for the person concerned)

<http://www.ipsoa.it/codici/cpp/dispatcpp/t2>

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*

**Existing indicators used: intelligence sources**

**Existing indicators used: intelligence sources**

*Please provide a list of intelligence tools used to detect/counter food fraud issues in your member state (e.g. Horizon Scanning, Interpol, Europol, National Crime agencies)*

**1. Title + web link**

**1. NAS (Department for health protection)**

The NAS is a police force dependent on the Ministry of Health involved in control activities along the food chain in cooperation with local health authorities (ASL)

<http://www.carabinieri.it/multilingua/en>

**2. ICQRF**

<https://www.politicheagricole.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/394>

**3. NAC**

<http://www.carabinieri.it/cittadino/tutela/politiche-agricole/il-reparto>

**4. Forestry corps**

<http://www.corpoforestale.it/Home>

**5. Port Authorities**

<http://www.guardiacostiera.gov.it/>

**6. PIF and UVAC**

[http://www.salute.gov.it/portale/ministro/p4\\_5\\_3\\_3.jsp?lingua=italiano&label=ufficiPeriferici&dir=pif&menu=ufficiPeriferici](http://www.salute.gov.it/portale/ministro/p4_5_3_3.jsp?lingua=italiano&label=ufficiPeriferici&dir=pif&menu=ufficiPeriferici)

[http://www.salute.gov.it/portale/ministro/p4\\_5\\_3\\_2.jsp?lingua=italiano&label=ufficiPeriferici&id=1039&dir=uvac&menu=ufficiPeriferici](http://www.salute.gov.it/portale/ministro/p4_5_3_2.jsp?lingua=italiano&label=ufficiPeriferici&id=1039&dir=uvac&menu=ufficiPeriferici)

## **Commodities/products of interest and type of research of interest**

### **1. Commodities/products of interest**

*Please provide a list of the commodities/food products in priority order most important for each MS in terms of value to that country.*

Commodities identified as a priority for export activities

- 1) Wine
- 2) Confectionery
- 3) Milk and milk products
- 4) Cereal products (pasta)
- 5) Processed vegetables

<http://www.cibusexpo2015.it/wp-content/uploads/2015/02/atlante-geografico-federalimentare.pdf>

Commodities identified as a priority for fraud and safety risk in the national integrated plan

- 1) Olive oil
- 2) Milk and milk products
- 3) Bivalve molluscs
- 4) Honey

<http://www.salute.gov.it/pianoNazionaleIntegrato2015/capitoloPianoNazionaleIntegrato2015.jsp?cap=capitolo1>

### **2. Type of research of interest**

*Please provide a list of type of research (e.g. criminology, critical points, historical points, analytical methods, consumer behaviour, economic aspects) in priority order most important for each MS in terms of value to that country).*

- 1) Analytical methods
- 2) Support to the control system
- 3) Food regulation



## Annex 9

### Authent-Net Member State (MS) National Status Report

#### Country: The Netherlands

*Please note that the information provided here below will be put on the Food Authenticity Research Network Hub (FARNH) which will be publically accessible. So please do not include any confidential information.*

#### List of organisations that fund food anti- fraud/food authenticity research and the type of research they fund

*Please provide a list of organisations (Government + NGO whatever the nationality) that are funding projects on food authenticity in your MS*

**1. Name** (*Categorise into government/NGO, public/public-private*)

Address

Web site link

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

Short description of the funder

*Click here to privately contact the persons responsible for Food Authenticity funding.*

*(This would take you to a secure location [eg. LinkedIn private chat] to contact relevant funder, only once you are able to prove that you are from another funding organisation).*

#### Government/Public

##### 1. Ministry of Economic Affairs

<https://www.rijksoverheid.nl/ministeries/ministerie-van-economische-zaken>

Applied research and development

##### 2. Ministry of Finances

<https://www.rijksoverheid.nl/ministeries/ministerie-van-financien>

Applied research (customs)

##### 3. NWO, STW

<http://www.nwo.nl/en>

National scientific funding (Development)

##### 4. SKAL Biocontrole

<https://www.skal.nl/>

National certification body for organic produce

Applied research (analyses)

##### 5. BKD

<http://www.bkd.eu/>

National control body for the flower bulb sector

Development

## 6. COKZ

<http://www.cokz.nl/Pages/default.aspx>

National control body for the dairy sector

Applied research (analyses)

## 7. Chinese Scholarship Council

<http://en.csc.edu.cn/>

Finances studentships in the Netherlands

Development

**Public-private**

## 8. Topsector AgriFood

<http://www.tki-agrifood.nl/>

Finances public private partnerships

Applied research and development

## Plan/Strategy in terms of Authenticity Research Funding

*Please provide a web link to a plan/strategy on food authenticity for each specific funding organisation (see 1<sup>st</sup> box), provided there is one, or anything the funding organisations are able to provide (general plan/strategy on food). That should include policy documents, research/surveillance documents where possible.*

**1. Funding organisation name + web link to plan + Key decision making committees**

**Plan/Strategy by institution numbered according to the previous list of funding bodies.**

### 1. Ministry of Economic Affairs

- Kaderbrief; e.g. [http://www.boci-office.nl/media/kaderbrieven/Kaderbrief\\_DLO\\_2011\\_Bijlage.pdf](http://www.boci-office.nl/media/kaderbrieven/Kaderbrief_DLO_2011_Bijlage.pdf)

- National statutory tasks programme food safety; <http://www.wageningenur.nl/nl/Onderzoek-Resultaten/Projecten-EZ/Expertisegebieden/Wettelijke-onderzoekstaken.htm>

- Topsector programme; <http://www.tki-agrifood.nl/>

## Capabilities/Infrastructure of Authenticity research providers/relevant NRLs

*Please provide details of national capabilities (public and private) in terms of food authenticity analysis (relevant National Reference Laboratories, certified laboratories etc.) and in terms of Food Authenticity Research.*

**1. Name** (*Categorise into academic/research, general proficiency, expertise in a specific technique and/or commodity*)

Address

Web site:

Contact available through: (*Any web sites where contact details of key personnel are available*)

Telephone:

### Academic/research

1. Wageningen University and Research

Droevendaalsesteeg 2, 6708 PB Wageningen

Web site: <http://www.wageningenur.nl/en/Expertise-Services/Research-Institutes/rikilt.htm>

Contact available

through: [https://www.wewur.wur.nl/zoeken\\_naam/default.aspx](https://www.wewur.wur.nl/zoeken_naam/default.aspx); <http://www.wageningenur.nl/en/Expertise-Services/Research-Institutes/rikilt.htm>

Telephone: +31317480100

2. VU University Amsterdam

Boelelaan 1105, 1081 HV Amsterdam

Web site: <http://www.rechten.vu.nl/en/>

Contact available through: <http://www.rechten.vu.nl/nl/organisatie/medewerkers/index.aspx>

Telephone: +31205989898

### Laboratories

3. Laboratory of the Dutch Food and Product Authority

Akkermaalsbos 2, 6708 WB Wageningen

Web site: <https://english.nvwa.nl/>

Contact available through: <https://www.nvwa.nl/>

Telephone: +31 8 82 23 33 33

4. Dutch Customs Laboratory

Kingsfordweg 1, 1843 GN Amsterdam

Web site: <http://www.belastingdienst.nl/wps/wcm/connect/nl/douane/douane>

Contact available through <http://www.belastingdienst.nl/wps/wcm/connect/nl/douane/douane>

Telephone: +31206877900

5. Meron BCL wijnlaboratorium (wine laboratory)

Markerkant 12 606, 1314 AK Almere

Web site: <http://www.meron.nl>

Contact available through: <http://www.meron.nl>

Telephone: +31365333286

6. QLIP (dairy laboratory)  
Oostzeestraat 2a, 7202 CM Zutphen  
Web site: <http://www.qlip.nl/en/>  
Contact available through <http://www.qlip.nl/en/>  
Telephone: +31887547000

7. Eurofins (general laboratory)  
Among others: Leeuwarderstraatweg 129, 8441 PK Heerenveen  
Web site: <http://www.eurofins.nl/en.aspx>  
Contact available through: <http://www.eurofins.nl/en.aspx>  
Telephone: +31 888310000

#### Others

8. Netherlands Society for Food Law (Nederlandse Vereniging voor Levensmiddelenrecht)

#### Recent key Cases/Reports/Reviews (after 2010)

*Please provide a list of web links to public outputs, documents, papers, reports, databases on incidents, detection methods, ... in relation to food authenticity your MS is involved (see T1.1)*

##### 1. Title + web link

**1. Many brief work plans and reports of national projects** among which are those focusing on food authenticity; <http://www.wageningenur.nl/nl/Onderzoek-Resultaten/Projecten-EZ.htm>

**2. National journal with various contributions** 'Justitiele Verkenningen'; [http://www.bjutijdschriften.nl/tijdschrift/justitieleverkenningen/2014/2/JV\\_0167-5850\\_2014\\_040\\_002\\_002](http://www.bjutijdschriften.nl/tijdschrift/justitieleverkenningen/2014/2/JV_0167-5850_2014_040_002_002)

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Hoogenraad, E., Duivenvoorde, B. (2016). The Netherlands · Health Claims for Botanicals: ‘On Hold’, yet Forbidden? *Journal of European Food and Feed Law*, 11 (1), 58-59.

Hoogenraad, E., Duivenvoorde, B. (2015). Netherlands · Recent FIC Rulings of the Dutch Advertising Code Committee, *Journal of European Food and Feed Law*, 10 (6), 456-458.

Hoogenraad, E., Duivenvoorde, B. (2015). The Netherlands · The Best Tasting Cheese: Taste Test Claims in the Netherlands, *Journal of European Food and Feed Law*, 10 (3), 238-239.

Hoogenraad, E., Duivenvoorde, B. (2015). The Netherlands · Country Report on National Measures for Non-Prepackaged. *Food Journal of European Food and Feed Law*, 10 (2), 154.

Meulen, B.M.J. van der (2013).The Structure of European Food Law, *Laws 2 (2)*. - p. 69 - 98.

Meulen, S.M.M. van der; Meulen, B.M.J. van der (2013)Rosbief Juridische kanttekeningen bij het paardenvleesschandaal Over de gedaantewisseling van een paard, voedselveiligheid en misleiding van de consument, *Tijdschrift voor Agrarisch Recht*, 9, 290 – 294.

Scholten-Verheijen, I., Appelhof, T., van der Meulen, B., van der Meulen, S. (2013). *Landkaart Levensmiddelenrecht*, Den Haag, Sdu Uitgevers.

Vos, E. I. L., & Weimer, M. (2015). The Role of the EU in transnational regulation of food safety: extending experimentalist governance?. In J. Zeitlin (Ed.), *Extending experimentalist governance? The European Union and transnational regulation*. (pp. 51-80). Oxford: Oxford University Press.

### **Ongoing Projects (after 2010) including national-international/public-private funded projects)**

*Please provide a list of ongoing projects on food authenticity your MS is involved in (see T1.1)*

1. Name, funding, start/end date + Web site link

#### **1. Traceability cocoa and wood**

Ministry of Economic Affairs (BO)

Start date: 01-06-2016

End date: 31-12-2016

Link: NA

#### **2. Quickscan food fraud in the Netherlands**

Ministry of Economic Affairs (BO)

Start date: 2014

End date: 2015

Link: <http://www.wageningenur.nl/en/Publication-details.htm?publicationId=publication-way-343930373830>

#### **3. FoodFraudChecklist**

Topsector Agrifood programme

Start date: 2016

End date: 2018

Link: <http://www.wageningenur.nl/nl/project/AF-15214-FoodFraudChecklist-Ontwikkeling-assessment-voor-de-food-service.htm>

#### **4. Sustainable palm oil**

Topsector Agrifood programme

Start date: 2013

End date: 2014

Link: <http://www.tki-agrifood.nl/projecten/projecten-i/12101>

**5. Farmhouse cheese authentication**

COKZ

Start date 01-01-2016

End date 31-12-2016

Link: NA

**6. Olive oil: understanding intrinsic and extrinsic characteristics and developing rapid and novel analytical techniques to identify adulteration**

Chinese Scholarship Council

Start date 01-09-2015

End date 31-08-2019

Link: <http://en.csc.edu.cn/>

**7. Organic milk: understanding intrinsic characteristics and their origin and develop novel analytical techniques**

Chinese Scholarship Council

Start date 01-09-2014

End date 31-08-2018

Link: <http://en.csc.edu.cn/>

**8. Milk authenticity and fraud mitigation**

Sino Dutch Dairy Development Centre

Start date 01-09-2015

End date 31-08-2019

Link: <http://en.csc.edu.cn/>

**9. Reflectance of botanical , production and geographical origin on the unique compositional traits of purple grape juices**

Capes Nuffic programme

Start date 01-01-2015

End date 31-12-2016

Link: <http://en.csc.edu.cn/>

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*

## Legal framework for food authenticity (in application at a national level)

*Please provide a list of standards/regulations on food authenticity applied in your MS (see T1.2)*

### 1. Title + web link + sources of expert advice on authenticity

National legislation in the Netherlands on food and animals can be found through the NVWA, [www.nvwa.nl](http://www.nvwa.nl). The NVWA distinguishes between, on the one hand, legislation regarding animals and animal products and, on the other hand, legislation on food, drinks and smoking. We have interpreted the concept 'food authenticity' broadly, because non-compliance with a broad range of regulations could contribute to food inauthenticity. Food inauthenticity can be caused by food health claims being false and requirements or requirements of certain certificates not being met (e.g. concerning animal welfare, products being organic, having been produced with regard of pesticide requirements, etc). Also expectations that consumers may have of a product (e.g. that fishing takes place in accordance with EU and national regulations) may not be met in practice, as a result of which a product turns out not to be what it claims to be. Especially mislabeling or misleading labeling can thus be linked to non-compliance with a broad variety of food regulations.

### Legal national framework regarding animals and animal products

#### General

[Wet dieren](#) op Overheid.nl (animal welfare, medication, animal feed, slaughter)

[Besluit houders van dieren](#) (animal welfare, housing conditions, identification and registration, slaughter)

[Regeling houders van dieren](#) (slaughter)

[Gezondheids- en welzijnswet voor dieren \(Gwwd\)](#) (animal by-products, identification and registration, transport)

[Regeling handel levende dieren en levende producten](#) (identification and registration, transport, since 1 May 2016)

#### Animal by-products

[Besluit dierlijke producten](#)

[Regeling dierlijke bijproducten 2011.](#)

#### Animal medication

[Besluit diergeneesmiddelen van 2 november 2012](#)

[Regeling diergeneesmiddelen op Overheid.nl](#)

[Wijziging van de Regeling diergeneesmiddelen](#)

#### Identification and registration

[Regeling identificatie en registratie dieren;](#)

[Besluit identificatie en registratie van dieren;](#)

#### Protected species

[Visserijwet 1963 op wetten.nl](#)

[Flora- en faunawet](#)

[Reglement voor de binnenvisserij 1985](#)

[Uitvoeringsregeling visserij, art. 32a, lid 1](#)

[Natuurbeschermingswet 1998](#)

#### Public and animal health

[Regeling Preventie, bestrijding en monitoring van besmettelijke dierziekten en zoönosen en TSE's](#)

**Legal national framework regarding food and drinks** (some fields of regulation to be exclusively covered by EU-regulation, such as the microbiological criteria concerning listeria and salmonella, among others, and the use of stevia as a sweetener)

**Contact materials food**

- [Warenwetbesluit verpakkingen- en gebruiksartikelen](#)
- [Regeling Verpakkingen- en gebruiksartikelen](#)

**Frozen foods**

- [Warenwetregeling Diepgevroren levensmiddelen](#)

**Herbal preparations**

- [Warenwetbesluit Kruidenpreparaten](#)

**Hygiene**

[Warenwetbesluit Bereiding en behandeling van levensmiddelen](#)

[Warenwetbesluit Hygiëne van levensmiddelen](#)

**Labeling**

[Verordening \(EG\) nr. 1169/2011](#) (appears to have direct effect)

[Warenwetbesluit informatie levensmiddelen](#) concerns additional rules/regulates criminalization

[Warenwetregeling allergenen niet-voorverpakte levensmiddelen](#)

**Pesticides**

[Maximale Residu Limiet](#)

**'Special' foods**

[Warenwetbesluit Producten voor bijzondere voeding](#) (baby feed)

[Warenwetregeling Babyvoeding](#)

**Supplements**

[Warenwetbesluit voedingssupplementen;](#)

[Warenwetregeling voedingssupplementen;](#)

Warenwetregeling vrijstelling vitaminepreparaten

**Certificates and labels**

Each member state of the European Union has a national accreditation body. In the Netherlands it is the Raad voor Accreditatie (Dutch Accreditation Council: <https://www.rva.nl/en>)

(<http://wetten.overheid.nl/BWBR0026591/2014-01-25>). Its principal task concerns accrediting and renewing the accreditations of conformity-assessment bodies: laboratories, inspection bodies, certification bodies and verification bodies. This is to ensure that trust in the quality of products and services is genuinely justified.

Various beleidsregels (policy rules) regarding the accreditation process can be found on the website of the RVA:

<https://www.rva.nl/documenten/regels-en-besluiten>

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*



### **Existing indicators used: intelligence sources**

*Please provide a list of intelligence tools used to detect/counter food fraud issues in your member state (e.g. Horizon Scanning, Interpol, Europol, National Crime agencies)*

#### **1. Title + web link**

1. Agency: NVWA Intelligence and Investigation Service

<https://www.nvwa.nl/organisatie/opbouw-nvwa/nvwa-inlichtingen-en-opsporingsdienst>

Key contact:

2. Agency: Openbaar ministerie

<https://www.om.nl/organisatie/functioneel-parket-0/>

3. Agency: Europol

<https://www.europol.europa.eu>

Key contact: Chris Vansteenkiste

4. SSAFE food fraud vulnerability assessment tool

[www.ssafe.org](http://www.ssafe.org); [www.pwc.nl](http://www.pwc.nl)

Key contact: Saskia van Ruth (Wageningen University and Research, science behind the tool); Onno Nillesen (PwC; app use)

### **Commodities/products of interest and type of research of interest**

#### **1. Commodities/products of interest**

*Please provide a list of the commodities/food products in priority order most important for each MS in terms of value to that country.*

1) Generally those issues/foods with associated safety risks

2) Fish, meat, dairy, oils & fats, nuts

#### **2. Type of research of interest**

*Please provide a list of type of research (e.g. criminology, critical points, historical points, analytical methods, consumer behaviour, economic aspects) in priority order most important for each MS in terms of value to that country).*

1) Vulnerabilities in the food chain (critical points)

2) Offender characteristics and motives (criminology)

3) Ranking fraud vulnerable products for humans/animals

4) Prevalence food fraud (including economic aspects)

5) Development of methods that can detect anomalies widely instead of being specific for one kind of adulteration, for both use in and beyond the laboratory

## Annex 10

### Authent-Net Member State (MS) National Status Report

#### Country: ROMANIA

*Please note that the information provided here below will be put on the Food Authenticity Research Network Hub (FARNH) which will be publically accessible. So please do not include any confidential information.*

#### List of organisations that fund food anti- fraud/food authenticity research and the type of research they fund

*Please provide a list of organisations (Government + NGO whatever the nationality) that are funding projects on food authenticity in your MS*

**1. Name (Categorise into government/NGO, public/public-private)**

Address

Web site link

Short description of the funder

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

*Click here to privately contact the persons responsible for Food Authenticity funding.*

(This would take you to a secure location [eg. LinkedIn private chat] to contact relevant funder, only once you're able to prove that you are from another funding organisation).

**1. UEFISCDI (Executive Unit for Financing Higher Education, Research, Development and Innovation)**

Str. Mendeleev 21-25, 010362 Bucharest

Web: <http://uefiscdi.gov.ro/>

**Type of research funded: STRATEGIC/APPLIED RESEARCH**

UEFISCDI is a public body of the Central Administration under the ultimate authority of Romanian Ministry of Education and Scientific Research (MECS).

Mission: promote quality and leadership for higher education, research, development and innovation.

Prerogatives:

- to ensure the executive activity for the consultative councils with attributes in the domain of higher education, research, development and innovation of the MECS;
- to coordinate programmes of the National Research, Development and Innovation Plan, 2015 - 2020;
- to cooperate with other public or private, national or international institutions.

Contact: Luciana Bratu (Email: [luciana.bratu@uefiscdi.ro](mailto:luciana.bratu@uefiscdi.ro); Phone: + 40.213071910)

## **2. Ministry of Agriculture and Rural Development (MADR)**

B-dul Carol I 2-4, 020921 Bucharest

Web.: [www.madr.ro](http://www.madr.ro)

### **Type of research funded: STRATEGIC/APPLIED RESEARCH**

Minister Order 708/23.04.2015 – Sectoral Plan for agrifood and rural development research of Ministry of Agriculture and Rural Development, 2015-2018, "Agriculture and Rural Development - Horizon PAC 2020" – ADER 2020. Budget: 82.162.242 lei (18 mil euro).

The main objective of the Sectoral Plan is to find solutions for adaptation of agriculture to changing agro-eco-climate specific conditions and to establish a sustainable preservation and exploitation of national resources.

Specific objectives:

- crop technologies and animal production adaptation related to mitigation;
- improving of crop technologies to sustainable growth of agriculture;
- sustainable solutions for conservation and exploitation of agricultural resources (soil, water, genetic resources plant, animal genetic resources, manpower, financial resources);
- sustainable development of animal production;
- development of new, nutritious and personalized food and food safety assuring according with national and international requirements.

Contact: Viorel Morarescu (Email: [dgia@madr.ro](mailto:dgia@madr.ro); Phone: +40.372172512)

### **Organisations that can request TOP-DOWN researches (studies):**

## **3. National Authority Sanitary-Veterinary and for Food Safety (ANSVSA)**

Piața Presei Libere no. 1, Corp D1, Sector 1, 013701, Bucharest

<http://www.ansvsa.ro/prima-pagina/>

### **Type of research funded: STRATEGIC/APPLIED RESEARCH**

The National Sanitary Veterinary and Food Safety Authority (ANSVSA) operates as a regulator and control in the field of veterinary and food safety, specialized body of central public administration, with legal personality, subordinated to the Government and coordinated by the Minister of Agriculture and Rural Development.

Activities:

- Authorization and certification in the fields of veterinary and food safety
- Monitoring and controlling activities in the field of veterinary and food safety
- Making the legal framework and specific rulemaking activities in the field of veterinary and food safety
- Test lab
- Authorizing private laboratories
- Establishing protocols for export to third countries
- Risk management
- Pesticides monitoring
- Supports combating food waste

Contact: (Email: [office@ansvsa.ro](mailto:office@ansvsa.ro); Phone: +40.21.312.49.87)

#### **4. National Authority for Consumer Protection**

Bulevardul Aviatorilor no. 72, sector 1, 011865, Bucharest

E-mail: [cabinet@anpc.ro](mailto:cabinet@anpc.ro); web : <http://anpc.ro/>

Service Food and Non-food Products and Services: +40.213076762

Wine and Spirits Quality Analysis Laboratory

Address: Bucharest, General Berthelot Street 24, building A, sector 1

Phone:+40.213126759

E-mail: [daniela.potmischil@gmail.com](mailto:daniela.potmischil@gmail.com)

#### **Type of research funded: STRATEGIC/APPLIED RESEARCH**

The Authority has the following main competences:

- Participates in the development of the consumer protection strategy, ensuring its correlation with the one existing in the European Union;
- Ensures the harmonization of the national legislation with EU regulations in the field of consumer protection;
- Proposes consumer protection draft laws to the Government to adopt and endorse concerning manufacturing, packaging, labelling, preservation, storage, transportation, importation, marketing products, services, including financial services;
- Develops procedures regarding the objectives for cooperation in carrying out consumer protection activities;
- Initiates, negotiates and participates, within the law, at the establishment of conventions, agreements, protocols and other domestic and international understandings in the field of consumer protection with specialized central and local public administration authorities, as well as non-governmental entities;
- Participates in the execution of national/international programs in the field of consumer protection, working with domestic and international organizations, in compliance with its responsibilities according to the law in force;
- Carries out market surveillance activities for consumer intended products and services;
- Enforces legal provisions on consumer protection, related to the safety of products and services, as well as protecting the consumers' legitimate rights and interests, by conducting inspections on manufacturers, importers, distributors, retailers, service providers, including financial services and customs units, having access to places where products are manufactured, stored or sold or services are provided, as well as to related documents, excepting the food manufacturers sanitary and veterinary controls;
- Coordinates the fast information exchange with the competent national and international institutions and authorities, relating to products and services that present a risk to the consumers' health and safety;
- Informs the policy makers and operators involved in products/services quality certification system, based on its own findings and the information received from consumers and non-governmental entities, on non-compliant products and services in relation to certification documents and proposes the improvement or development or regulations in this field;
- Conducts analysis and testing of food and non-food samplings in accredited laboratories according to the law, or in its own or agreed laboratories;
- Performs or finances studies, comparative tests and research regarding the quality of products and services and informs the public about the findings etc.

#### **Plan/Strategy in terms of Authenticity Research Funding**

*Please provide a web link to a plan/strategy on food authenticity for each specific funding organisation (see 1<sup>st</sup> box), provided there is one, or anything the funding organisations are able to provide (general plan/strategy on food). That should include policy documents, research/surveillance documents where possible.*

1. Funding organisation name + web link to plan + Key decision making committees

**1. Executive Unit for Financing Higher Education, Research, Development and Innovation (UEFISCDI)**

- National Strategy for Research-Development-Innovation 2014-2020

[http://www.cdi2020.ro/wp-content/uploads/2014/02/STRATEGIA\\_Versiunea-tehnica\\_Februarie-2014.pdf](http://www.cdi2020.ro/wp-content/uploads/2014/02/STRATEGIA_Versiunea-tehnica_Februarie-2014.pdf)

- National Plan for Research-Development and Innovation 2015-2020

[http://uefiscdi.gov.ro/userfiles/file/legislatie/2015/HOT%C4%82R%C3%82RE%20nr\\_%20583%20din%2022%20iulie%202015.pdf](http://uefiscdi.gov.ro/userfiles/file/legislatie/2015/HOT%C4%82R%C3%82RE%20nr_%20583%20din%2022%20iulie%202015.pdf)

Programme 1: Development of National Research&Development System

Subprogramme 1.1. Human resources

Subprogramme 1.3. Infrastructures for research-development

Subprogramme 1.4. Support actions

Programme 2: Increasing the competitiveness of Romanian economy through research-development-innovation

Subprogramme 2.1. Competitiveness through research, development and innovation

Programme 3: European and international cooperation

Subprogramme 3.1. Bilateral/multilateral

Subprogramme 3.2. Horizon 2020

Subprogramme 3.5. Other European and international programmes and initiatives

Subprogramme 3.6. Support

Programme 4: Fundamental research and frontier

**2. Ministry of Agriculture and Rural Development (MADR)**

- Romanian Rural Development Programme for 2014-2020

[http://www.madr.ro/docs/english/rural-development/NRDP\\_2014\\_-\\_2020\\_EN.pdf](http://www.madr.ro/docs/english/rural-development/NRDP_2014_-_2020_EN.pdf)

- Strategy for development of agro-food sector in short and long term 2020-2030

<http://www.madr.ro/docs/agricultura/strategia-agroalimentara-2020-2030.pdf>

- Project Pilot EIR: Analyses regarding food integrity in Romania, July 2015, General Direction for Food Industry, contact persons: Viorel MORĂRESCU /Dana GAFIȚIANU, E-mail: politici publice@madr.ro

<http://www.madr.ro/docs/ind-alimentara/raport-proiect-eir-integritatea-alimentelor-ro.pdf>

- National Support Program of Romania in wine sector, during 2014 – 2018

<http://www.madr.ro/en/horticulture/viticulture-enology.html>

- National Beekeeping Program of Romania, during 2017 – 2019

<http://www.madr.ro/programul-national-apicol.html>

**Capabilities/Infrastructure of Authenticity research providers/relevant NRLs**

*Please provide details of national capabilities (public and private) in terms of food authenticity analysis (relevant National Reference Laboratories, certified laboratories etc.) and in terms of Food Authenticity Research.*

**1. National Institute of Research & Development for Food Bioresources – IBA Bucharest (IBA)  
(NMR, PCR, Sensory Evaluation of Food products, Chemistry, Chromatography Laboratories)**

Address: 5 Baneasa Ancuta, 020323, sector 2, Bucharest

Web: <https://erris.gov.ro/NMR-Laboratory>

Contacts : Denisa Duta, [denisa.duta@bioresurse.ro](mailto:denisa.duta@bioresurse.ro)

Valentin Ionescu, [valentin.ionescu@bioresurse.ro](mailto:valentin.ionescu@bioresurse.ro) Tel.: +40.31.6205833

**2. National R&D Institute for Cryogenics and Isotopic Technologies- ICSI Ramnicu Valcea**

Address: Uzinei Street no. 4, 240050, Ramnicu-Valcea

Contact available through: Roxana Elena Ionete, [office@icsi.ro](mailto:office@icsi.ro)

Web.: [http://www.icsi.ro/radacina/english/index\\_icsi\\_eng.html](http://www.icsi.ro/radacina/english/index_icsi_eng.html)

Tel.: +40.250.733890

**3. National Institute for Research and Development of Isotopic and Molecular Technologies**

Address: 67-103 Donat, 400293, Cluj-Napoca, Romania

Contact available through: Ioan Turcu, [itim@itim-cj.ro](mailto:itim@itim-cj.ro)

Web.: <http://www.itim-cj.ro/en/index.php>

Tel.: +40.264.584037

**4. University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca (UASVM Cluj)  
Faculty of Food Science and Technology**

Address: Calea Mănăştur 3-5, 400372, Cluj-Napoca

Web: <http://www.usamvcluj.ro/>

Contact available through: Carmen Socaciu, [carmen.socaciu@usamvcluj.ro](mailto:carmen.socaciu@usamvcluj.ro); [csocaciu@proplanta.ro](mailto:csocaciu@proplanta.ro)

Tel.: +40.264596384, -595825 int. 215

**5. "Petru Poni" Institute of Macromolecular Chemistry, Group of Biospectroscopy**

Address: Aleea Grigore Ghica Voda 41-A, Iasi, Romania

Contact available through: Calin Deleanu, [calin.deleanu@yahoo.com](mailto:calin.deleanu@yahoo.com)

Web.: [http://www.spectroteam.ro/engleza/index\\_eng.html](http://www.spectroteam.ro/engleza/index_eng.html)

Tel: +40.232260332; 26033; 26034 ext. 133 (NMR laboratories)

**6. University Dunarea de Jos Galati**

**Faculty of Food Science and Engineering**

Address: Str. Domnească, nr. 111, Galati

Web.: <http://www.sia.ugal.ro/>

Contact available through: Daniela Borda, [daniela.borda@ugal.ro](mailto:daniela.borda@ugal.ro)

Tel.: +40.0336130177

More on research areas at <http://sia.ugal.ro/en/index.php/research/research-areas>.

**7. University Dunarea de Jos Galati**

**Faculty of Sciences and Environment, Department of Chemistry, Physics and Environment**

Address: Str. Domneasca, Nr. 111, Cod 800201 Galati

Contact available through: Apetrei Constantin, [apetreic@ugal.ro](mailto:apetreic@ugal.ro)

Web.: <http://www.chem.ugal.ro/index.html>

Tel.: +40.0236460780

#### **8. University of Agronomic Science and Veterinary Medicine of Bucharest (UASVMB)**

##### **Faculty of Biotechnologies (Biotech)**

Address: Bd. Mărăști no. 59, Sector 1, 011464, Bucharest

Web.: <http://www.biotehnologii.usamv.ro/>

Contact available through: Mona Popa, [pandry2002@yahoo.com](mailto:pandry2002@yahoo.com)

Tel.: +40.0374022802

#### **9. University of Agronomic Science and Veterinary Medicine of Bucharest (UASVMB)**

##### **Faculty of Horticulture (Horti)**

Address: Bd. Mărăști no. 59, Sector 1, 011464, Bucharest

Web.: <http://www.horticultura-bucuresti.ro/>

Contact available through: Adrian Asanica, [adrian.asanica@horticultura-bucuresti.ro](mailto:adrian.asanica@horticultura-bucuresti.ro)

Tel.: +40.02131836.36

#### **10. Valahia University of Targoviste (VUT)**

##### **Faculty of Environmental Engineering and Food Science**

Address: 18-24, Unirii Street, 130082, Targoviste

Contact available through: Alexandru Stoica, [stoicaandi@yahoo.com](mailto:stoicaandi@yahoo.com)

Tel.: +40.722854773

Web.: <http://fimb.valahia.ro>

#### **11. University Stefan cel Mare Suceava**

##### **Faculty of Food Engineering**

Address: 13 Universitatii street, Suceava

Contact available through: Gabriela Constantinescu, [gabriela.constantinescu@fia.usv.ro](mailto:gabriela.constantinescu@fia.usv.ro)

Web.: <http://www.fia.usv.ro>

Tel: +40.230216147/ 516

#### **12. University of Agricultural Sciences and Veterinary Medicine Iasi (UASVM IASI)**

##### **Faculty of Horticulture**

Address: Aleea Mihail Sadoveanu 3, 700490, Iasi

Contact available through: Lucia Draghia, [lucia@univagro-iasi.ro](mailto:lucia@univagro-iasi.ro)

Web.: <http://www.uaiasi.ro/>

Tel.: +40.232407446; +40.232407504

#### **13. University of Oradea**

##### **Faculty of Environmental Protection, Department of Food Engineering**

Address: General Magheru, 26, Oradea

Contact available through: Adrian Vasile TIMAR, [atimar@uoradea.ro](mailto:atimar@uoradea.ro)

Web.: [http://protmed.uoradea.ro/english/faculty/departments/food\\_engineering.html](http://protmed.uoradea.ro/english/faculty/departments/food_engineering.html)

Tel.: +40.745827938

**14. National Agricultural Research and Development Institute Fundulea (NARDI Fundulea)**

Address: Nicolae Titulescu 1, 915200 Fundulea

Contact available through: Mariana Ittu, [office@incda-fundulea.ro](mailto:office@incda-fundulea.ro)

Web.: <http://www.incda-fundulea.ro/>

Tel.: + 40.213154040

**15. National Research-Development Institute for Biotechnology in Horticulture Stefanesti-Arges (INCDBH)**

Address: Sos. Bucuresti-Pitesti 37, Stefanesti, Arges

Contact available through: Marian Petre, [marian\\_petre\\_ro@yahoo.com](mailto:marian_petre_ro@yahoo.com)

Web.: <http://www.incdbh-stefanesti.ro>

Tel.: +40.248266814/+40.213184457

**16. Institute for Horticultural Products Industrialization and Marketing-Horting (Horting)**

Address: Str. Intrarea Binelui 1A, Bucharest

Contact available through: Miruna Bibicu, [contact@horting.ro](mailto:contact@horting.ro)

Web.: <http://horting.uv.ro/>

Tel.: +40.214610706

**17. R&D Unit for Wine-Growing and Wine-Making, Odobesti (SCDVV Odobesti)**

Address: Ștefan cel Mare 61, 625300 Odobesti, Vrancea

Contact available through: Enache Viorica, [scdvvodobesti@yahoo.com](mailto:scdvvodobesti@yahoo.com)  
or [enache\\_scdvv@yahoo.com](mailto:enache_scdvv@yahoo.com)

Web.: [www.scv-odobesti.ro/odobesti/index.php](http://www.scv-odobesti.ro/odobesti/index.php)

Tel.: +40.0237676623/ +04.0236340640

**18. Research &Development Unit for Viticulture and Enology Blaj (SCDVV Blaj)**

Address: Gh.Baritui 2, 515400 Blaj, Alba

Contact available through: Tomoiaga Liliana Lucia, Iliescu Maria Email: [scvblaj@crystalsoft.ro](mailto:scvblaj@crystalsoft.ro)

Web.: <http://www.scvblaj.ro>

Tel.: +40.258711623

**19. Research-Development for Fruit Growing Unit Voinesti Dambovita (RDFGU Voinesti)**

Address: Principala 1, 137525 Voinesti, Dambovita

Contact available through: Petre Gheorghe, [statiuneavoinesti@gmail.com](mailto:statiuneavoinesti@gmail.com)

Web.: -

Tel.: +40.723632178

**20. National Institute for Research and Development in Optoelectronics**

Address: Str. Donath, nr. 67,400293, Cluj-Napoca

Contact available through: [icia@icia.ro](mailto:icia@icia.ro)

Web.: <http://www.inoe.ro/en/about-us.html>; <http://icia.ro/en/>



Tel.: +40.264420590

### **21. Center for applied biochemistry and biotechnology (Biotehnol), Bucharest**

Address: Bd. Marasesti 59, 011464 Bucharest

Contact available through: Florentina Israel, [office@biotehnol.eu](mailto:office@biotehnol.eu)

Website: [www.biotehnol.eu](http://www.biotehnol.eu)

Tel.: +40.213180468

### **22. PROPLANTA SA**

Address: Str. Trifoiului nr. 12 G Cluj-Napoca

Contact available through: Carmen Socaciu, [cproplanta@yahoo.com](mailto:cproplanta@yahoo.com)

Web.: [www.proplanta.ro](http://www.proplanta.ro)

Tel.: +40.0364402446

### **23. Company of Applied Researches and Investments SA (ICA)**

Address: Splaiul Independentei 202, Bucharest

Contact available through: [ica@ccai-ro.com](mailto:ica@ccai-ro.com)

Web.: <https://www.ica-rd.ro/>

Tel.: +40.744153772

### **Recent key Cases/Reports/Reviews (after 2010)**

*Please provide a list of web links to public outputs, documents, papers, reports, databases on incidents, detection methods, ... in relation to food authenticity your MS is involved (see T1.1)*

#### **1. Title + web link**

*Key information to be registered/extracted on/ from the Authent-Net Documents database (Mendeley)*

**1.** Report Project Pilot EIR: Analysis of food integrity in Romania (by Ministry of Agriculture and Rural Development), July 2015

<http://www.madr.ro/docs/ind-alimentara/raport-proiect-eir-integritatea-alimentelor-ro.pdf>

**2.** Secrets of the horsemeat scandal, 2016, Food Fraud

Advisors, <https://www.foodfraudadvisors.com/facts-stories-news-advice/>

**3.** About the authenticity of Romanian traditional food,

2016, <https://www.bioshopromania.com/blog-en/about-the-authenticity-of-romanian-traditional-food/>

**4.** Horsemeat scandal: How often does food fraud happen?, BBC News Magazine,

2013, <http://www.bbc.com/news/magazine-21381689>

#### **Publications**

**1.** Bulancea, M., Răpeanu, G. (2009), **Authentication and identification of counterfeited food products**, "Editura didactică și pedagogică" Publishing House R.A, Bucharest

2. Palade, M., Popa, M.E. (2014), Wine Traceability And Authenticity – A Literature Review, Scientific Bulletin. Series F. *Biotechnologies*, Vol. XVIII, 2014  
ISSN 2285-1364, CD-ROM ISSN 2285-5521, ISSN Online 2285-1372, ISSN-L 2285-1364, <http://biotechnologyjournal.usamv.ro/pdf/2014/Art39.pdf>
3. Socaciu, C., Ranga, F., Fetea, F., Leopold, L., Dulf, F. and Parlog, R. (2009). Complementary Advanced Techniques Applied for Plant and Food Authentication, *Czech J. Food Sci.*, vol.27, S70-S75
4. Magdas, D. A., Cristea, G., Puscas, R., Tusa F. (2013). The use of isotope ratios in commercial fruit juices authentication, *Rom. Journ. Phys.*, Vol. 59, Nos. 3–4, P. 355–359, Bucharest, [http://www.nipne.ro/rjp/2014\\_59\\_3-4/0355\\_0359.pdf](http://www.nipne.ro/rjp/2014_59_3-4/0355_0359.pdf)
5. Magdas, D.A., Dehelean, A. and Puscas, R. (2014). Isotopic and Elemental Determination in Some Romanian AppleFruit Juices, *The Scientific World Journal* , Volume 2012, Article ID 878242, 7 pages doi:10.1100/2012/878242, <http://www.lgrinc.com/publications/Isotopic%20and%20Elemental%20etermination%20in%20Some%20Romanian%20Apple%20Fruit%20Juices.pdf>
6. Banc, R., Loghin, F., Miere, D., Fetea, F., Socaciu, C., (2014). Romanian Wines Quality and Authenticity Using FT-MIR Spectroscopy Coupled with Multivariate Data Analysis, *Not Bot Horti Agrobo*, 42(2):556-564. DOI:10.15835/nbha4229674, <http://www.notulaeobotanicae.ro/index.php/nbha/article/viewFile/9674/7768>
7. Vedeanu, N.S., Magdas, D.A., Bolojan, L., Damian, G. (2012). Antioxidant potential and authenticity of some commercial fruit juices studied by EPR and IRMS, *Chemical Papers* June 2012, Volume 66, Issue 6, pp 612–616, DOI: 10.2478/s11696-011-0115-1, <https://link.springer.com/article/10.2478/s11696-011-0115-1>
8. Oroian, M., Amariei, S. , Leahu, A., Gutt, G. (2015) Multi-Element Composition of Honey as a Suitable Tool for Its Authenticity Analysis, DOI: <https://doi.org/10.1515/pjfn-2015-0018>, *Polish Journal of Food and Nutrition Sciences*, Volume 65, Issue 2, <https://www.degruyter.com/view/j/pjfn.2015.65.issue-2/pjfn-2015-0018/pjfn-2015-0018.xml>
9. Petrescu, D. C. and Petrescu-Mag,R.M. (2015). Organic Food Perception: Fad, or Healthy and Environmentally Friendly? A Case on Romanian Consumers, *Sustainability*, 7, 12017-12031; doi:10.3390/su70912017, <file:///C:/Users/Denisa/Downloads/sustainability-07-12017.pdf>
10. Pîrnău, A., Bogdan, M., Măgdaş, D.A., Stătescu, D. (2013). Isotopic Analysis of some Romanian Wines by 2H NMR and IRMS, *Food Biophysics*, Volume 8, Issue 1, pp 24–28, <https://link.springer.com/article/10.1007%2Fs11483-012-9278-8>

**Ongoing Projects (after 2010) including national-international/public-private funded projects)**

*Please provide a list of ongoing projects on food authenticity your MS is involved in (see T1.1)  
Key information to be registered/extracted on/from the Authent-Net Documents database  
(Mendeley)*

1. Name, funding, start/end date + Web site link

1. Development and long-term sustainability of new pan-European research infrastructures (PRO-METROFOOD), Horizon 2020, H2020-INFRADEV-2016-2017, 2016-2017, <http://www.metrofood.eu/>

2. Transfer of knowledge and training for European traditional food producers related to innovative quality control methodologies (Tol4Food), LEONARDO DA VINCI Transfer of innovation, 2011-2013, <http://www.tol4food.eu/>

3. Strengthening cooperation in food safety research in the enlarged European Union (FoodSeg), FP7, 2011-2014, <http://www.foodseg.net/>

4. Animal feed certification instrument and procedure to guarantee the quality of meat and dairy products through automatic, simple and rapid DNA barcode method based on tubulin-based polymorphism (TBP), FP7, FEED-CODE, 2012-2016, <http://www.feedcode-project.eu/>

5. Exploratory Workshop "Traditional foods-authenticity and quality", National Programme II – Ideas Programme - Exploratory Workshops 2012

<http://vechi.diaspora-stiintifica.ro/diaspora2012/index.php?page=programe-workshop&id=13>

6. Complex researches on the establishment of specific biochemical markers for regional dairy products in order to improve their traceability on the total food chain (TRASAREG), 2008-2011, National Authority for Research,

[http://www.biotehnologii.usamv.ro/images/Proiecte/RA\\_2009 TRASAREG.pdf](http://www.biotehnologii.usamv.ro/images/Proiecte/RA_2009 TRASAREG.pdf)

7. Development of innovative methods, implementation of demonstrative and functional methods for promoting on the market the traditional cheeses from Transylvania (Tradfood), 2014-2017, UEFISCDI (call PN-II-PT-PCCA-2013)

<https://www.cianet.ro/tradfood/rezumaten.php>

8. Trace element concentrations in raw milk and harmonization of respective methods to test the authenticity of milk samples in Carpathian and Alpine regions (CARLA), Bilateral Cooperation Romania-Austria, UEFISCDI, 2014-2015

9. Multi-element analysis of apples, pears fruits, leaves and blossom flowers as indicators for yield and sites of origin, Bilateral Cooperation Austria- Romania, UEFISCDI, 2012 – 2013.

### **Legal framework for food authenticity (in application at a national level)**

*Please provide a list of standards/regulations on food authenticity applied in your MS (see T1.2)*

1. Title + web link

*Key information to be registered/extracted on/from the Authent-Net Documents database (Mendeley)*

**1. National Authority Sanitary-Veterinary and for Food Safety (ANSVSA)** – legislation for food safety and public health (general regulation for food safety, food additives, flavours, drinkable water, guidance document on official controls concerning microbiological sampling and testing of foodstuffs, contaminants control, Directives concerning food hygiene and health conditions for the production and placing on the market of certain products of animal origin intended for human consumption, food enzymes, food labelling, hormones, GMOs, animal health rules governing the production, processing, distribution and introduction of products of animal origin for human consumption, traditional foods.

<http://www.ansvsa.ro/legislatie/igiena-si-sanatate-publica/>

**2. Ministry of Agriculture and Rural Development** - European quality schemes and geographical indications, Romanian traditional products

<http://www.madr.ro/en/food-ind.html>

Organic farming: <http://www.madr.ro/en/organic-farming.html>

**Existing indicators used: intelligence sources**

*Please provide a list of intelligence tools used to detect/counter food fraud issues in your member state (e.g. Horizon Scanning, Interpol, Europol, National Crime agencies)*

1. Title + web link

Key contacts:

National Authority Sanitary-Veterinary for Food Safety (ANSVSA) is member RASFF - Food and Feed Safety Alerts, [https://ec.europa.eu/food/safety/rasff\\_en](https://ec.europa.eu/food/safety/rasff_en)

Food service against fraud (Romanian Police General Inspectorate)

<https://b.politiaromana.ro/ro/structura/servicii-centrale/serviciul-de-investigare-a-fraudelor>

INFOCONS- Association for Consumers' Protection

<http://www.infocons.ro/ro/teste-comparative/produse-alimentare-144/>

**Commodities/products of interest and type of research of interest**

1. Commodities/products of interest

*Please provide a list of the commodities/food products in priority order most important for each MS in terms of value to that country.*

- 1) Dairy products : cheese
- 2) Food supplements
- 3) Wine and other alcoholic drinks
- 4) Processed meat products
- 5) Honey
- 6) Organic food

## **2. Type of research of interest**

*Please provide a list of type of research (e.g. criminology, critical points, historical points, analytical methods, consumer behaviour, economic aspects) in priority order most important for each MS in terms of value to that country).*

- 1) Harmonisation and validation of analytical methods
- 2) Rapid screening methods
- 3) Consumer confidence (traceability, local products)
- 4) PCR based methods
- 5) Geographic origin determination

## Annex 11

### Authent-Net Member State (MS) National Status Report

#### Country: SPAIN

*Please note that the information provided here below will be put on the Food Authenticity Research Network Hub (FARNH) which will be publically accessible. So please do not include any confidential information.*

#### List of organisations that fund food anti- fraud/food authenticity research and the type of research they fund

*Please provide a list of organisations (Government + NGO whatever the nationality) that are funding projects on food authenticity in your MS*

1. Name (Categorise into government/NGO, public/public-private)

Address

Web site link

Short description of the funder

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

*Click here to privately contact the persons responsible for Food Authenticity funding.*

(This would take you to a secure location [eg. LinkedIn private chat] to contact relevant funder, only once you're able to prove that you are from another funding organisation).

**1. National Institute for Agricultural and Food Research and Technology (INIA).** (public)

Address: Ctra. de A Coruña Km. 7,5, 28040 Madrid

Website: <http://www.inia.es>

INIA is a Public Research Organisation (OPI) of the State Secretariat of Research, Development and Innovation of the Ministry of Economy and Competitiveness. Its unique mandate entails a dual responsibility 1) as coordinator of the national network of agrifood research centers is responsible for the harmonization, resource allocation, monitoring and evaluation of scientific, technical research activities and funds research through the National Program INIA Autonomus Regions System; 2) as an agrifood research institution is responsible for the execution of its own research and technology projects (including technology transfer) under the General Deputy Directorate of Research and Technology (SGIT).

Type of research funded: APPLIED RESEARCH/DEVELOPMENT

**2. Ministry of Economy, Industry and Competitiveness** (public)

Address: P. Castellana, 162, 28046 Madrid

Website: <http://www.mineco.gob.es/portal/site/mineco/>

The Ministry of Economy, Industry and Competitiveness is responsible for the implementation of government policy on economic and reforms to improve competitiveness, scientific research, technological development and innovation in all sectors, trade policy and business support and all other powers and duties conferred by law.

Type of research funded: STRATEGIC/APPLIED RESEARCH/DEVELOPMENT

### **3. Ministry of Agriculture, Fisheries, Food and Environment (MAPAMA) (public)**

Address: Pº Infanta Isabel, 1 - 28014 Madrid

Website: <http://www.mapama.gob.es/es/>

MAPAMA is the Ministry responsible for the implementation of government policy in relation to food, agriculture and marine resources, measures against climatic change, rural development and natural and biodiversity protection.

Type of research funded: STRATEGIC/DEVELOPMENT

### **4. Centre for the Development of Industrial Technology (CDTI) (public)**

Address: 4 Cid St. - 28001, Madrid

Website: <https://www.cdti.es/>

CDTI is a Public Business Entity, answering to the Ministry of Economy and Competitiveness, which fosters the technological development and innovation of Spanish companies. It is the entity that channels the funding and support applications for national and international R&D&i projects of Spanish companies. The CDTI thus seeks to contribute to improving the technological level of the Spanish companies

Type of research funded: APPLIED RESEARCH/DEVELOPMENT

### **5. Agencia Estatal Consejo Superior de Investigaciones Científicas (CSIC) (public)**

Address: Serrano, 117. 28006 Madrid

Website: <http://www.csic.es/>

CSIC is the largest public institution dedicated to research in Spain and the third largest in Europe. Belonging to the Spanish Ministry of Economy and Competitiveness through the Secretary of State for Research, Development and Innovation, its main objective is to develop and promote research that will help bring about scientific and technological progress, and it is prepared to collaborate with Spanish and foreign entities in order to achieve this aim. Its research is driven by its centres and institutes, which are spread across all the autonomous regions, and its more than 15,000 staff, of whom more than 3,000 are staff researchers and the same number again are doctors and scientists who are still training.

Its multidisciplinary and multisectorial nature means CSIC covers all fields of knowledge. Its activity, which covers everything from basic research to technological development.

Type of research funded: APPLIED and BASIC RESEARCH/DEVELOPMENT

### **6. Autonomic Research Institutions:**

#### **Andalucía**

-Secretaría General de Innovación, Industria y Energía-Junta de Andalucía (General Secretary of Innovation, Industry and Energy-Government of Andalusia) (Regional Government, currently integrated in "Consejería de Empleo, Empresa y Comercio", Counseling of employment, Enterprise and Commerce, although its integration in different counselings may be subjected to changes)

Address: Albert Einstein, 4, 41092 Sevilla, Spain

Website: <http://www.juntadeandalucia.es/organismos/empleoempresaycomercio.html>

Type of research funded: APPLIED RESEARCH/DEVELOPMENT

-Andalusian Institute of Agricultural Research and Training, Fishing, Food and Organic Production (IFAPA) (public)

Website: <http://www.juntadeandalucia.es/agriculturaypesca/ifapa/web>

## **Aragón**

-Center for Agro-Food Research and Technology of Aragon (CITA) (public)

Address: Avda. Montañana 930, 50059 Zaragoza

Website: <http://www.cita-aragon.es>

-Gobierno de Aragón. Departamento de Innovación, Investigación y Universidad (Department of Innovation, Investigation and University, Regional Government)

Address: Edificio Pignatelli. PªMaría Agustín, 36. 50071 – Zaragoza

Website: <http://www.aragon.es/DepartamentosOrganismosPublicos/Departamentos/InnovacionInvestigacionUniversidad>

## **Asturias**

-Regional Service Agri-Food Research and Development (SERIDA) (public)

Website: <http://www.serida.org/>

-Gobierno del Principado de Asturias. Consejería de Empleo, Industria y Turismo (Counseling of Employment, Industry and Tourism, Regional Government)

Address: Pza. España, 1 - Planta 2ª. 33007 Oviedo

Website:

<https://www.asturias.es/portal/site/webasturias/menuitem.6ae732be36e43aef9fe97477f2300030/?vgnextoid=0d08dacb4c42c010VgnVCM100000bb030a0aRCRD&vgnnextchannel=8b6b090dc76ed210VgnVCM1000002f030003RCRD>

## **Baleares**

-Institute of Agricultural and Fishing Research and Training (IRFAP) (public)

Website: <http://irfap.caib.es>

-Gobierno de las Islas Baleares. Dirección General de Innovación e Investigación (General Directorate of Innovation and Investigation, Regional Government)

Address: Ctra. de Valldemossa, km 7,4. ParcBit. Edificio Norte, bloque A, 2ª planta - 07121 Palma

Website: <http://www.caib.es/govern/organigrama/area.do?coduo=2390343&lang=es>

## **Canarias**

-Instituto Canario de Investigaciones Agrarias (ICIA) (Canary Institute for Agriculture Research) (public)

Website: <http://www.icia.es>

-Gobierno de Canarias. Agencia Canaria de Investigación, Innovación y Sociedad de la Información (Canarian Agency of Investigation, Innovation, and Society Information, Regional Government).

Address: Calle León y Castillo, 200, 35071 Las Palmas de Gran Canaria, Las Palmas

Website: <http://www.gobiernodecanarias.org/aciisi/>

## **Cantabria**

-Center for Agricultural Research and Training (CIFA) (public)

Website: <http://www.cifacantabria.org>

-Gobierno de Cantabria. Consejería de Innovación, Industria, Turismo y Comercio (Counseling of Innovation, Industry, Tourism and Trade, Regional Government)

Address: C/ Albert Einstein, 2. 39011 - SANTANDER

Website: <http://www.cantabria.es/web/consejeria-de-innovacion-industria-turismo-y-comercio>

## **Castilla-La Mancha**



-Agricultural Research Department of the Castile-La Mancha Regional Ministry of Agriculture (JCCM)  
(public)

Website: <http://www.castillalamancha.es/tema/agricultura/agricultura>

-Consejería de Educación, Cultura y Deportes-Gobierno de Castilla La Mancha (Counseling of Education, Culture and Sports-Government of Castilla La Mancha)

Address: Bulevar Río Alberche, s/n. Polígono Residencial "Santa María de Benquerencia" 45071. Toledo, Spain.

Website: <http://www.educa.jccm.es/es/consejeria-educacion-cultura-deportes>

Type of research funded: APPLIED RESEARCH/DEVELOPMENT

### **Castilla y León**

-Agrarian Technological Institute of Castilla-Leon Deputy directorate of Science and Technology (ITACYL) (public)

Website: <http://www.itacyl.es>

-Dirección General de Universidades e Investigación-Junta de Castilla y León (General Directorate of University and Research-Government of Castilla y Leon) (Integrated in Consejería de Educación, Counseling of Education, although its integration in different counselings may be subjected to changes)

Website: <http://www.educa.jcyl.es/universidad/es>

-Agencia de Innovación y Financiación Empresarial de Castilla y León (ADE) (public)

Calle Jacinto Benavente 2, 47195 Arroyo de la Encomienda, Valladolid, Spain

Website: <http://www.ade.jcyl.es/>

### **Cataluña**

-Dirección General de Alimentación, Calidad e Industrias Agroalimentarias (General Directorate of Food, Quality and Agrofood industry)

Website: [http://sac.gencat.cat/sacgencat/AppJava/organisme\\_fitxa.jsp?codi=15794](http://sac.gencat.cat/sacgencat/AppJava/organisme_fitxa.jsp?codi=15794)

-Dirección General de Investigación (General Directorate of Research)

Website: [http://sac.gencat.cat/sacgencat/AppJava/organisme\\_fitxa.jsp?codi=139](http://sac.gencat.cat/sacgencat/AppJava/organisme_fitxa.jsp?codi=139)

-Institute of Agriculture and Food Research and Technology (IRTA) (public)

Website: <http://www.irta.es>

### **Extremadura**

-Agri-food Technological Institute of Extremadura (INTAEX) (public)

Website: <http://intaex.juntaextremadura.net/>

-Secretaría General de Ciencia Tecnología e Innovación-Junta de Extremadura (General Secretary of Science, Technology and Innovation-Government of Extremadura) (Regional Government, currently integrated in "Consejería de Economía e Infraestructura", Counseling of Economy and Infrastructure, although its integration in different counselings may be subjected to changes)

Address: Plaza del Rastro, s/n 06800, Mérida, Spain.

Website: <http://www.gobex.es/con02/secretario-general-de-ciencia-tecnologia-e-innovacion>

Type of research funded: APPLIED RESEARCH/DEVELOPMENT

### **Galicia**

-Instituto Gallego de Calidad Alimentaria (INGACAL) (Galicia Institute of Food Quality) (public)

-Agricultural Research Center of Mabegondo (CIAM) (public)

Website: <http://www.ciam.es>

Junta de Galicia. Consejería de Economía, Empleo e Industria. (Counseling of Economic, Employment and Industry, Regional Government).

Address: Edificios Administrativos - San Caetano, s/n 15781 Santiago de Compostela

Website: <http://www.xunta.gal/ceei>

### **La Rioja**

-Agri-Food Research and Technological Development Service (CIDA) (public)

Website: <http://www.larioja.org>

-Gobierno de La Rioja. Sistema Riojano de la Innovación (Innovation System of Rioja. Regional Government).

Website: <https://www.larioja.org/innovacion/es>

### **Madrid**

-Madrid Institute for Rural World Development and Agricultural and Food Research (IMIDRA) (public)

Website: <http://www.madrid.org>

-Dirección General de Universidades e Investigación-Gobierno de la Comunidad de Madrid (General Secretary of Universities and Research-Government of Community of Madrid) (Integrated in Consejería de Educación, Juventud y Deporte, Counseling of Education, Youth and Sport, although its integration in different counselings may be subjected to changes)

Address: C/ Alcalá, 30 – 32 Código Postal: 28014, Madrid, Spain

Website: <http://www.madrid.org/>

Type of research funded: BASIC RESEARCH/APPLIED RESEARCH/DEVELOPMENT

### **Murcia**

-Instituto Murciano de Investigación y Desarrollo Agrario y Alimentario (IMIDA) (Murcia Institute for Food and Agricultural Research and Development)

<http://www.imida.es/>

-Instituto de Fomento de la Región de Murcia (INFO MURCIA) (public)

Website: <http://www.institutofomentomurcia.es/web/portal/what-is-info>

-Secretaría General de Universidades e Investigación-Gobierno de la Región de Murcia (General Secretary of Universities and Research-Government of Region of Murcia) (Integrated in Consejería de Educación y Universidades, Counseling of Education and Universities, although its integration in different counselings may be subjected to changes)

Address: Edificio Administrativo Infante, Avenida Infante Juan Manuel, nº 14, 30011 - Murcia, Spain.

Website: [http://www.carm.es/web/pagina?IDCONTENIDO=77&IDTIPO=140&RASTRO=c\\$m22660](http://www.carm.es/web/pagina?IDCONTENIDO=77&IDTIPO=140&RASTRO=c$m22660)

Type of research funded: APPLIED RESEARCH/DEVELOPMENT

### **Navarra**

-Institute of Technology and Agrofood Infrastructures of Navarra (INTIA) (public)

Website: [http:// www.intiasa.es](http://www.intiasa.es)

-National Centre for Technology and Food Safety (CNTA) (public)

Website: <http://www.cnta.es>

-Gobierno de Navarra. Dirección General de Industria, Energía e Innovación (General Directorate of Industry, Energy and Innovation. Regional Government)

Address: Parque Tomas Caballero 1, 5º 31006 - Pamplona

Website: [http://www.navarra.es/home\\_es/Gobierno+de+Navarra/Vicepresidencia+Desarrollo+Economico/DG+Industria+Energia+Innovacion.html](http://www.navarra.es/home_es/Gobierno+de+Navarra/Vicepresidencia+Desarrollo+Economico/DG+Industria+Energia+Innovacion.html)

### **País Vasco**

-Neiker Tecnalia, Instituto Vasco de Investigación y Desarrollo Agrario (Basque Institute for Agriculture research and development)

<http://www.neiker.net/?lang=es>

-Quality and Food Industries Directorate-Department for Economic Development and Competitiveness – Basque Government (DIIA-GV) (public)

Website: <http://www.nasdap.ejgv.euskadi.net/r50-2397/es/>

-Basque Foundation for Agro-Food Safety (ELIKA) (public)

Website: <http://www.elika.net>

-Gobierno Vasco. Departamento de Desarrollo Económico y Competitividad. (Department of Economic Development and Competitiveness, Regional Government).

Address: Gran Vía, 85 48011 Bilbao (Bizkaia)

Website: <http://www.industria.ejgv.euskadi.eus/r44-indust/es/>

### **Valencia**

-Valencian Institute for Agriculture Research (IVIA) (public)

Website: <http://www.ivia.es>

-Dirección General de Universidad, Investigación y Ciencia –Generalidad de Valencia (General Directorate of University, Research and Science) (Integrated in Consejería de Educación, Investigación, Cultura y Deporte, Counseling of Education, Research, Culture and Sport, although its integration in different counselings may be subjected to changes)

Address: C/ Gregorio Gea nº14, 46009 – Valencia, Spain

Website: <http://www.ceice.gva.es/va/>

Type of research funded: APPLIED RESEARCH/DEVELOPMENT

**Plan/Strategy in terms of Authenticity Research Funding**

*Please provide a web link to a plan/strategy on food authenticity for each specific funding organisation (see 1<sup>st</sup> box), provided there is one, or anything the funding organisations are able to provide (general plan/strategy on food). That should include policy documents, research/surveillance documents where possible.*

1. Funding organisation name + web link to plan + Key decision making committees

**1. National Institute for Agricultural and Food Research and Technology (INIA)**

The INIA national strategy in relation to food quality and production is in this link:

<http://www.inia.es/IniaPortal/goUrlDinamica.action?url=http://wwwsp.inia.es/Inia/Paginas/PlanEstrategico2014-2017.aspx>

The research topics of the INIA food technology department are in the link:

<http://www.inia.es/IniaPortal/goUrlDinamica.action?url=http://wwwsp.inia.es/Investigacion/Departamentos>

**2. Ministry of Agriculture, Fisheries, Food and Environment (MAPAMA)**

The national strategies of MAPAMA in different areas are in the link:

<http://www.mapama.gob.es/es/ministerio/planes-estrategias/default.aspx>

**3. Ministry of Economic, Industry and Competitiveness**

The national strategies (Estrategía Española de Ciencia y Tecnología y de Innovación 2013-2020) of this Ministry in different areas are in the link:

[http://www.idi.mineco.gob.es/stfls/MICINN/Investigacion/FICHEROS/Estrategia\\_espanola\\_ciencia\\_tecnologia\\_Innovacion.pdf](http://www.idi.mineco.gob.es/stfls/MICINN/Investigacion/FICHEROS/Estrategia_espanola_ciencia_tecnologia_Innovacion.pdf)

**4. Agencia Estatal Consejo Superior de Investigaciones Científicas (CSIC)**

The CSIC national strategy (Plan de actuación 2014-2017) in relation to Science and Technology Food are in the link:

<http://www.csic.es/plan-de-actuacion-2014-2017>

**Capabilities/Infrastructure of Authenticity research providers/relevant NRLs**

*Please provide details of national capabilities (public and private) in terms of food authenticity analysis (relevant National Reference Laboratories, certified laboratories etc.) and in terms of Food Authenticity Research.*

**1. Name** (Categorise into academic/research, general proficiency, expertise in a specific technique and/or commodity)

Address

Web site:

Contact available through: *(Any web sites where contact details of key personnel are available)*

Telephone:

**1. Ministry of Agriculture, Fisheries, Food and Environment (MAPAMA)**

The Network of MAPAMA laboratories in Food quality and agriculture can be accessed in the link:

<http://www.mapama.gob.es/es/alimentacion/temas/laboratorios-agroalimentarios/red-de-laboratorios-agroalimentarios/>

**2. Spanish Agency for food security, consumption and nutrition (AECOSAN).**

AECOSAN is a public agency depending on the Ministry of Health. There are three reference laboratories included in the Agency, that perform official analysis but also research activities:

The National Food laboratory is the reference laboratory for food security and depends directly from the AECOSAN.

<http://www.aecosan.msssi.gob.es/AECOSAN/web/laboratorios/seccion/CNA.shtml>

National centre for research and quality control (CICC) is the reference laboratory for assuring that the composition of food products is according the national regulations.

<http://www.aecosan.msssi.gob.es/AECOSAN/web/laboratorios/seccion/CIC.shtml>

National and European reference laboratory for marine bio-toxins (EURLMB) is the reference laboratory for the control of marine bio-toxins in food products.

<http://www.aecosan.msssi.gob.es/AECOSAN/web/laboratorios/seccion/EURLMB.shtml>

In AECOSAN there is also a link to the national reference laboratories in relation to food consumption is:

[http://www.aecosan.msssi.gob.es/AECOSAN/web/laboratorios/detalle/otros\\_laboratorios.shtml](http://www.aecosan.msssi.gob.es/AECOSAN/web/laboratorios/detalle/otros_laboratorios.shtml)

Research in national Institutes of the Food Science and Technology area: Instituto de la Grasa, ICTAN, CIAL, CEBAS, IPLA, IVM, and IATA ([www.csic.es](http://www.csic.es)).

**Recent key Cases/Reports/Reviews (after 2010)**

*Please provide a list of web links to public outputs, documents, papers, reports, databases on incidents, detection methods, ... in relation to food authenticity your MS is involved (see T1.1)*

**1. Title + web link**

The list of organizations (professional, food and agriculture producers) in relation to food authenticity is in the link:

<http://www.magrama.gob.es/es/alimentacion/temas/interprofesionales-y-contratos-agroalimentarios-tipo-/organizaciones-interprofesionales-agroalimentarias/default.aspx>

Some relevant cases are:

1. Ministry of Agriculture, Food and Environment. Caracterización de la producción de alimentos diferenciados protegidos bajo denominaciones de origen y/o indicaciones geográficas protegidas (en términos de competitividad y eficiencia comercializadora). October, 2014.

2. Boletín Oficial del Estado. Ley para la defensa de la calidad alimentaria. July, 2015.

**2. Planes Nacionales Específicos de Control Oficial (AECOSAN) (National Specific Plans for Official Control)**

[http://www.aecosan.msssi.gob.es/AECOSAN/web/seguridad\\_alimentaria/seccion/control\\_oficial.shtml](http://www.aecosan.msssi.gob.es/AECOSAN/web/seguridad_alimentaria/seccion/control_oficial.shtml)

*Key information to be registered/extracted on/ from the Authent-Net Documents database (FARNHub)*

**Ongoing Projects (after 2010) including national-international/public-private funded projects)**

*Please provide a list of ongoing projects on food authenticity your MS is involved in (see T1.1)*

**1. Name, funding, start/end date + Web site link**

**1. National Institute for Agricultural and Food Research and Technology (INIA)**

The link to INIA projects in food and agriculture area is:

<http://portagra.inia.es/Paginas/default.aspx>

The INIA has a browser for projects in the link:

<http://www.agripa.org/proyectos>

Some relevant projects performed in INIA in relation to pig meat authenticity are:

1. RZ2012-00006-00-00. Desarrollo de un panel reducido de SNPs para la verificación del origen racial en reproductores inscritos en el libro genealógico de la raza porcina Ibérica (Development of a reduced panel of SNPs for the verification of breed origin in breeding animals registered on the Iberian pig Herd Book) Funding organization: INIA, Start date: 2013, End date: 2015

2. TREASURE-634476- Diversity of local pig breeds and production systems for high quality traditional products and sustainable pork chains. Funding organization: EU-H2020. Start date: 2015, End date: 2018.

## **2. Ministry of Economy, Industry and Competitiveness. Secretariat of Research and Development**

The link to CSIC projects in science and technology food area is:

<http://www.idi.mineco.gob.es/portal/site/MICINN>

Some relevant projects related to authenticity and quality are the following:

1. AGL2011-30371-C02-02. Evaluación de la liberación de flavor del aceite de oliva virgen. (Evaluation of flavour of Virgin olive oil) Funding organization: MINECO, Start date: 2012, End date: 2014.
2. AGL2013- 44101-R. Nuevas estrategias para la caracterización de aceites de oliva y para la detección de fraudes (New strategies for olive oils characterization and fraud detection). Funding organization: MINECO, Start date: 2014, End date: 2016
3. AGL2015-65246-R Bases genéticas de la composición y Propiedades biofísicas de la cutícula del fruto de tomate: aprovechamiento de la variabilidad natural (Genetic basis of composition and bio-physical characteristics of tomato peel: use of natural diversity)Funding organization: MINECO, Start date: 2016, End date: 2018.
4. AGL2015-69320-R. Nuevas estrategias de verificación del tiempo de vida útil y la fecha de consumo preferente del aceite de oliva virgen mediante indicadores. Espectroscópicos (New strategies for verification of lifetime and date of consumption of Virgin olive oil using indicators). Funding organization: MINECO, Start date: 2016, End date: 2018.
5. CTM2015-66676-C2-1-R. Dinámica del reclutamiento de la merluza europea (Recruitment dynamics of European hake). Funding organization: MINECO, Start date: 2016, End date: 2018.

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*

## **Legal framework for food authenticity (in application at a national level)**

*Please provide a list of standards/regulations on food authenticity applied in your MS (see T1.2)*

1. Title + web link

### **1. Ministry of Agriculture, Fisheries, Food and Environment (MAPAMA)**

The link to national regulations in Food security and authenticity:

<http://www.magrama.gob.es/es/alimentacion/legislacion/recopilaciones-legislativas-monograficas/default.aspx>

[This information is divided into different sections \(in Spanish\). In each section there is national and European legislation about the product:](#)

- Food and labelling information for consumers (Información alimentaria facilitada al consumidor y otras normas complementarias sobre el etiquetado de los alimentos)
- Quantity control in food packaged products (Cantidades nominales para productos envasados y al control de su contenido efectivo)
- Additives, enzymes and flavours (Aditivos, enzimas y aromas alimentarios)
- Addition of vitamins, minerals and specific substances to food products (Adición de vitaminas, minerales y otras sustancias determinadas a los alimentos)
- Conservation, storing and transport (Conservación, almacenamiento y transporte de los alimentos)
- Official control of food quality (Control oficial de la calidad alimentaria)
- New food and new food ingredients (Nuevos alimentos y nuevos ingredientes alimentarios)
- Meat and meat products (Carne y derivados cárnicos)
- Fish products (Productos de la pesca)
- Milk and milk products (Leche y los productos lácteos)
- Edible vegetable oils (Aceites vegetales comestibles)
- Eggs and egg products (Huevos y derivados)
- Edible fats (Grasas comestibles)
- Cereals (cereales)
- Legumes (Leguminosas)
- Derived from tubers (Derivados de los tubérculos)
- Flours and derivatives (Harinas y derivados)
- Fruit derivatives (Derivados de frutas)
- Vegetables and greens derivatives (Derivados de hortalizas y verduras)
- Natural Sweeteners and derivatives (Edulcorantes naturales y derivados)
- Condiments and spices (Condimentos y especias)
- Stimulant foods and derivatives (Alimentos estimulantes y derivados)
- Canned food (Conservas)
- Soups, creams and other food preparations (Caldos, consomés, sopas, cremas y otros preparados alimenticios)
- Bottled drinking water (Aguas de bebida envasadas)
- Ice creams (Helados)
- Non-alcoholic drinks: fruit and vegetables juices and refreshing drinks and “horchata” (Bebidas no alcohólicas: zumos de frutas y de otros vegetales y sus derivados, bebidas refrescantes y horchatas)
- Wine sector (Sector vitivinícola)
- Documents for transport and registration of wine products (Documentos que acompañan el transporte de los productos vitivinícolas y a los registros que se deben llevar en el sector vitivinícola)
- Spirits, Beer, Cider and apple-derived drinks (Bebidas espirituosas, la cerveza, la sidra y otras bebidas derivadas de la manzana)

## 2. Ministry of Health, Social Services and Equality

Agencia Estatal Boletín Oficial del Estado (<https://www.boe.es/>)

## 3. Counseling of Health, Regional Government of Andalusia

Plan de Inspección basado en el Riesgo de los Establecimientos Alimentarios de Andalucía -2012 (Inspection Plan based on risk assessment of food facilities in Andalusia). [http://www.juntadeandalucia.es/salud/sites/csalud/contenidos/Informacion\\_General/c\\_3\\_c\\_3\\_seguridad\\_de\\_los\\_alimentos/planes\\_en\\_seguridad\\_alimentaria/plan\\_inspeccion\\_riesgo](http://www.juntadeandalucia.es/salud/sites/csalud/contenidos/Informacion_General/c_3_c_3_seguridad_de_los_alimentos/planes_en_seguridad_alimentaria/plan_inspeccion_riesgo)

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*



## Existing indicators used: intelligence sources

*Please provide a list of intelligence tools used to detect/counter food fraud issues in your member state (e.g. Horizon Scanning, Interpol, Europol, National Crime agencies)*

1. Title + web link

**1. Ministry of Interior.** Guardia civil (Civil Guard's Special Services). Competences in food fraud

<http://www.guardiacivil.es/es/index.html>

**2. Ministry of Economy, Industry and Competitiveness**

The link to national inspections in trade quality:

<http://www.comercio.gob.es/es-ES/comercio-exterior/control-calidad-asistencia-tecnica-exportador/Paginas/inspeccion-de-calidad-comercial.aspx>

## Commodities/products of interest and type of research of interest

### 1. Commodities/products of interest

*Please provide a list of the commodities/food products in priority order most important for each MS in terms of value to that country.*

- 1) Olive oil, edible oils,
- 2) meat,
- 3) Ewe's Cheese,
- 4) eggs,
- 5) cow's milk,
- 6) meat of small ruminants,
- 7) paté,
- 8) fruit juices,
- 9) honey,
- 10) saffron,
- 11) paprika,
- 12) nuts,
- 13) coffee

### 2. Type of research of interest

*Please provide a list of type of research (e.g. criminology, critical points, historical points, analytical methods, consumer behaviour, economic aspects) in priority order most important for each MS in terms of value to that country).*

- 1) Analytical methods
- 2) Consumer behaviour
- 3) Geographical origin
- 4) Authentication
- 5) Characterization
- 6) Food composition.

## Annex 12

### Authent-Net Member State (MS) National Status Report

#### Country: UK

*Please note that the information provided here below will be put on the Food Authenticity Research Network Hub (FARNH) which will be publically accessible. So please do not include any confidential information.*

#### List of organisations that fund food anti- fraud/food authenticity research and the type of research they fund

*Please provide a list of organisations (Government + NGO whatever the nationality) that are funding projects on food authenticity in your MS*

**1. Name** (*Categorise into government/NGO, public/public-private*)

Address

Web site link

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

Short description of the funder

*Click here to privately contact the persons responsible for Food Authenticity funding.*

*(This would take you to a secure location [eg. LinkedIn private chat] to contact relevant funder, only once you are able to prove that you are from another funding organisation).*

**1. DEFRA: Department for Environment, Food & Rural Affairs** (Government, public)

Nobel House, 17 Smith Square, London SW1P 3JR

<https://www.gov.uk/government/organisations/department-for-environment-food-rural-affairs>

**Type of research funded: STRATEGIC/APPLIED RESEARCH**

The Department for Environment, Food and Rural Affairs (Defra) is the government department responsible for environmental protection, food production and standards, agriculture, fisheries and rural communities in the United Kingdom of Great Britain and Northern Ireland.

Contact: Lucy Foster / Sophie Rollinson

**2. FSA: Food Standards Agency** (Government, public)

125 Kingsway, London WC2B 6NH

<http://www.food.gov.uk/>

**Type of research funded: STRATEGIC/APPLIED RESEARCH**

The Food Standards Agency is a non-ministerial government department of the Government of the United Kingdom. It is responsible for protecting public health and other consumer interests in relation to food in England, Wales and Northern Ireland.

Contact: Penny Bramwell

**3. Innovate UK** (Government, public)

North Star House, North Star Avenue, Swindon, SN2 1UE

<http://www.innovateuk.gov.uk>

**Type of research funded: APPLIED RESEARCH**

Innovate UK is the operating name of the Technology Strategy Board (TSB), the UK's innovation agency. It is an UK non-departmental public body operating at arm's length from the Government reporting to the Department for Business, Innovation and Skills (BIS).

**4. BBSRC: Biotechnology and Biological Sciences Research Council** (Government, public)

Polaris House, North Star Avenue, Swindon, Wiltshire, SN2 1UH

<http://www.bbsrc.ac.uk/>

**Type of research funded: BASIC RESEARCH**

Biotechnology and Biological Sciences Research Council (BBSRC) is an UK Research Council and Non-Departmental Public Body (NDPB), which is the largest UK public funder of non-medical bioscience. It predominantly funds scientific research institutes and university research departments in the UK.

**5. EPSRC: Engineering and Physical sciences research council** (Government, public)

Polaris House, North Star Avenue, Swindon SN2 1ET

<https://www.epsrc.ac.uk/>

**Type of research funded: APPLIED RESEARCH**

The Engineering and Physical Sciences Research Council (EPSRC) is a British Research Council that provides government funding for grants to undertake research and postgraduate degrees in engineering and the physical sciences mainly to universities in the United Kingdom.

**6. AHDB: Agriculture and Horticulture Development Board** (Government, public)

Stoneleigh Park, Kenilworth, Warwickshire CV8 2TL

<http://www.ahdb.org.uk/>

**Type of research funded: STRATEGIC/APPLIED RESEARCH**

The Agriculture and Horticulture Development Board (AHDB) is a statutory levy board, funded by farmers, growers and others in the supply chain and managed as an independent organisation (independent of both commercial industry and of Government).

**7. FSS: Food Standards Scotland** (Government, public)

Food Standards Scotland, 4th floor, Pilgrim House, Aberdeen AB11 5RL

<http://www.foodstandards.gov.scot/>

**Type of research funded: STRATEGIC/APPLIED RESEARCH**

Food Standards Scotland (FSS) is the public sector food body for Scotland. We are here to ensure that information and advice on food safety and standards, nutrition and labelling is independent, consistent, evidence-based and consumer-focused. We are defined in law as a 'competent authority' and an 'enforcement authority' to implement and monitor Scottish and EU food and feed regulations. We ensure that Scottish Ministers' policy is fed into European Union policy making on the regulation of food and animal feed.

**8. DEFA: Isle of Man government - Department of Environment, Food and Agriculture**

(Government, public)

Thie Slieau Whallian, Foxdale Road, St John's, Isle of Man IM4 3AS

<https://www.gov.im/about-the-government/departments/environment-food-and-agriculture/>

**Type of research funded: STRATEGIC/APPLIED RESEARCH**

The Department of Environment, Food and Agriculture (DEFA) works to protect and enhance the Island's natural assets within the core principles of environmental, economic and social sustainability; whilst optimising quality of life, international reputation, food production energy security and outdoor amenity. DEFA works in partnership with all sectors of the Manx Community to protect and enhance the essentials of life – food, air, land and water and to minimise the impact of work activities and food borne and infectious disease on the people who live, work and visit our Island. It has policy responsibility for animal health and welfare, environmental protection, food, farming and fisheries.

**9. DFID: Department for International Development** (Government, public)

Abercrombie House, Eaglesham Road, East Kilbride G75 8EA

<https://www.gov.uk/government/organisations/department-for-international-development>

**Type of research funded: BASIC RESEARCH**

The Department for International Development (DfID) is a United Kingdom government department responsible for administering overseas aid. The goal of the department is "to promote sustainable development and eliminate world poverty".

**10. DAERA: Department of Agriculture, Environment and Rural Affairs** (Government, public)

Dundonald House, Upper Newtownards Road, Ballymiscaw, Belfast BT4 3SB

<https://www.daera-ni.gov.uk/>

**Type of research funded: STRATEGIC/APPLIED RESEARCH**

The Department of Agriculture, Environment and Rural Affairs (DAERA) has responsibility for food, farming, environmental, fisheries, forestry and sustainability policy and the development of the rural sector in Northern Ireland. The Department assists the sustainable development of the agri-food, environmental, fishing and forestry sectors of the Northern Ireland economy, having regard for the needs of the consumers, the protection of human, animal and plant health, the welfare of animals and the conservation and enhancement of the environment. DAERA is responsible to the Department of the Environment, Food and Rural Affairs (Defra) in Great Britain for the administration of schemes affecting the whole of the United Kingdom. The Department also oversees the application of European Union agricultural, environmental, fisheries and rural development policy to Northern Ireland.

**11. Home Office** (Government, public)

Direct communications unit, 2 Marsham Street, London SW1P 4DF

<https://www.gov.uk/government/organisations/home-office>

**Type of research funded: STRATEGIC/APPLIED RESEARCH**

The Home Office leads on immigration and passports, drugs policy, crime policy and counter-terrorism and works to ensure visible, responsive and accountable policing in the UK.

The Home Office is the lead government department for immigration and passports, drugs policy, crime, counter-terrorism and polices.

**12. STFC: Science and Technology Facilities Council** (Government, public)

Polaris House, North Star Avenue, Swindon SN2 1SZ

<http://www.stfc.ac.uk>

**Type of research funded: APPLIED RESEARCH**

Support an academic community of around 1,700 in particle physics, nuclear physics, and astronomy including space science, who work at more than 50 universities and research institutes in the UK, Europe, Japan and the United States, including a rolling cohort of more than 900 PhD students.

**Plan/Strategy in terms of Authenticity Research Funding**

*Please provide a web link to a plan/strategy on food authenticity for each specific funding organisation (see 1<sup>st</sup> box), provided there is one, or anything the funding organisations are able to provide (general plan/strategy on food). That should include policy documents, research/surveillance documents where possible.*

**1. Funding organisation name + web link to plan + Key decision making committees**

**Plan/Strategy by institution numbered according to the previous list of funding bodies.**

**1. DEFRA: Department for Environment, Food & Rural Affairs** (Government, public)

- Defra's Evidence strategy published in 2014:

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/318610/evidence-strategy-defra.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/318610/evidence-strategy-defra.pdf)

- Link to the published report of the FoodIntegrity conference at Fera Science Ltd- 'food fraud the analytical tools workshop' 2014, gives an overview of authenticity research in the UK:

<http://randd.defra.gov.uk/Default.aspx?Menu=Menu&Module=More&Location=None&ProjectID=19149&FromSearch=Y&Status=3&Publisher=1&SearchText=FA0&GridPage=3&SortString=ProjectCode&SortOrder=Asc&Paging=10#Description>

**2. FSA: Food Standards Agency** (Government, public)

- UK Food Standards Agency forward evidence plan:

<https://www.food.gov.uk/sites/default/files/forward-evidence-plan-2016-17.pdf>

- The FSA's Science, Evidence and Information Strategy 2015-20 Delivery Plan sets out how we will use science, evidence and information to deliver food we can trust:

<https://www.food.gov.uk/sites/default/files/multimedia/pdfs/scistrat.pdf>

- FSA's National Food Crime Unit publishes a Food Crime Annual Strategic Assessment:

<http://www.food.gov.uk/news-updates/news/2016/15017/the-food-standards-agency-fsa-has-today-published-the-first-assessment-of-food-crime-in-the-uk>

## Capabilities/Infrastructure of Authenticity research providers/relevant NRLs

*Please provide details of national capabilities (public and private) in terms of food authenticity analysis (relevant National Reference Laboratories, certified laboratories etc.) and in terms of Food Authenticity Research.*

**1. Name** (*Categorise into academic/research, general proficiency, expertise in a specific technique and/or commodity*)

Address

Web site:

Contact available through: (*Any web sites where contact details of key personnel are available*)

Telephone:

### **1. Fera Science Ltd** (General proficiency)

National Agrifood Innovation Campus, Sand Hutton, York, YO41 1LZ, UK.

http:// [www.fera.co.uk](http://www.fera.co.uk)

NRL for 'food, feed and food contact materials' [mycotoxins/ heavy metals/dioxins & polychlorinated biphenyls (PCBs) in in food and feed; polycyclic aromatic hydrocarbons (PAHs) in food; materials and articles in contact with food], 'pesticide residues' [cereals and feeding stuff, fruits and vegetables with high water content, single residue methods], 'veterinary medicine residues' [A6-chloramphenicol, nitrofurans in honey, dapson; B1, B2a and B2b- ionophores]

Contact: <http://www.foodauthenticity.uk/uk-centres-of-expertise-coes-in-food-authenticity-testing>

Tel: +44 (0)1904 462556

### **2. Nottingham Trent University** (Academic/Research)

50 Shakespeare Street, Nottingham, NG1 4FQ,UK.

<http://www.ntu.ac.uk/>

Contact: <http://www.foodauthenticity.uk/uk-centres-of-expertise-coes-in-food-authenticity-testing>

Tel: +44 (0)115 941 8418 (general contact)

### **3. Campden BRI** (General Proficiency)

Station Rd, Chipping Campden, GL55 6LD, UK.

<https://www.campdenbri.co.uk>

Contact: <http://www.foodauthenticity.uk/uk-centres-of-expertise-coes-in-food-authenticity-testing>

Tel: +44 (0)1386 842000 (general contact)

### **4. Eurofins Food Testing UK Limited** (General proficiency)

54 Business Park, Valiant Way, Wolverhampton, WV9 5GB, UK.

Email: [info@eurofins.co.uk](mailto:info@eurofins.co.uk)

Contact: <http://www.foodauthenticity.uk/uk-centres-of-expertise-coes-in-food-authenticity-testing>

Tel. +44 (0)845 266 6522

**5. Institute of Food research (IFR) (General proficiency)**

Norwich Research Park, Colney Ln, Norwich NR4 7UA, UK.

Email: [info@ifrexta.co.uk](mailto:info@ifrexta.co.uk)

Contact: <http://www.foodauthenticity.uk/uk-centres-of-expertise-coes-in-food-authenticity-testing>

Tel: +44 (0)1603 255342

**6. Laboratory of the Government Chemist ( LGC) (General proficiency)**

Queens Road, Teddington, Middlesex , TW11 0LY, UK

NRL for 'additives for use in animal feeds', 'genetically modified organisms (GMOs)', 'pesticide residues–food of animal origin and commodities with high fat content', 'veterinary medicine residues' (B2d, B3c, B3d, B3e)

Contact: <http://www.foodauthenticity.uk/uk-centres-of-expertise-coes-in-food-authenticity-testing>

Tel: +44(0)20 8943 7675

**7. Leatherhead Food Research (General proficiency)**

Great Burgh, Burgh Heath, Yew Tree Bottom Rd, Epsom, KT18 5XT, UK

Contact: <http://www.foodauthenticity.uk/uk-centres-of-expertise-coes-in-food-authenticity-testing>

Tel: +44 (0)1372 822201

**8. Premier Foods trading as Premier Analytical Services (PAS) (General proficiency)**

The Lord Rank Centre, Lincoln Road, High Wycombe, Buckinghamshire, HP12 3QS, UK

Contact: <http://www.foodauthenticity.uk/uk-centres-of-expertise-coes-in-food-authenticity-testing>

Tel: +44 (0)1494 428292

**9. Reading Scientific Services Ltd (General proficiency)**

Reading Science Centre, Whiteknights Campus, Pepper Lane, Reading, Berkshire, RG6 6LA, UK

Contact: <http://www.foodauthenticity.uk/uk-centres-of-expertise-coes-in-food-authenticity-testing>

Tel: +44 (0)118 918 4000 / +44 (0)118 986 8932

**10. West Yorkshire Analytical Services (General proficiency)**

Nepshaw Ln S, Gildersome, Leeds LS27 0UQ, UK

Contact: <http://www.foodauthenticity.uk/uk-centres-of-expertise-coes-in-food-authenticity-testing>

Tel: +44 (0) 1133939712

**11. AgriFood and Biosciences Institute (AFBI-NI) (e.g. Bovine DNA Testing)**

18a Newforge Lane, Belfast, Co Antrim, Northern Ireland, BT9 5PX, UK

Contact: <http://www.afbini.gov.uk>/Email: [info@afbini.gov.uk](mailto:info@afbini.gov.uk)

Tel: +44 (0)2890 519424

**NRL** for 'milk and milk products', 'monitoring of marine biotoxins', 'veterinary medicine residues' (A1, A2, A3, A4, A6- nitrofurans and nitroimidazoles, B2f – carbox and olaquinox, A5, B2b-nicarbazine)

Contact: <http://www.foodauthenticity.uk/uk-centres-of-expertise-coes-in-food-authenticity-testing>. OR +44 (0)28 9025 5636 or 5689 (general contact)

**12. Food Forensics Ltd** (Stable Isotope Ratio Analysis ,SIRA)

Innovation Centre, Norwich Research Park, Norwich, NR4 7GJ, UK.

Contact: <http://www.foodauthenticity.uk/uk-centres-of-expertise-coes-in-food-authenticity-testing>.

Tel: +44 (0)1603 274456

**13. Genon Laboratories** (Molecular and immunological detection techniques)

Contact: <http://www.foodauthenticity.uk/uk-centres-of-expertise-coes-in-food-authenticity-testing>.

Tel: +44 (0) 1422 884287

**14. Minerva Scientific** (Honey authenticity)

Stoney Gate Rd, Spondon, DE21 7RY, UK.

Contact: <http://www.foodauthenticity.uk/uk-centres-of-expertise-coes-in-food-authenticity-testing>.

Tel: +44(0)1332 890384

**Recent key Cases/Reports/Reviews (after 2010)**

*Please provide a list of web links to public outputs, documents, papers, reports, databases on incidents, detection methods, ... in relation to food authenticity your MS is involved (see T1.1)*

**1. Title + web link**

**1. Elliott review outputs**

1.a) Defra's independent Authenticity Methods Working Group (AMWG). Response to Elliott review on 'integrity and assurance of food supply networks' recommendation 4th March 2015

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/409253/amwg-elliott-response.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/409253/amwg-elliott-response.pdf)

1.b) Addressing current weaknesses in our food supply networks

<https://www.gov.uk/government/publications/elliott-review-into-the-integrity-and-assurance-of-food-supply-networks-final-report>

1.c) Elliott review in to the integrity and assurance of food supply networks: Final report:

[http://api.ning.com/files/KL21eAugVN6btJGGxCi7YY965hcC0zzb8NRUAW\\*0fzSNSi74Ba6UDo2jCGkhsUKBh396KRDL4Cfbfk5Z-Bo4jniaLav7fy3/elliottreviewfinalreportjuly2014.pdf](http://api.ning.com/files/KL21eAugVN6btJGGxCi7YY965hcC0zzb8NRUAW*0fzSNSi74Ba6UDo2jCGkhsUKBh396KRDL4Cfbfk5Z-Bo4jniaLav7fy3/elliottreviewfinalreportjuly2014.pdf)

1.d) Government response to the Elliott review of the integrity and assurance of food supply

networks <http://api.ning.com/files/uX0ODFdMLafCUvvdKsh72n0jmlrgKSZMAxRakZszATTUc0FMZ7nhvXCaNpHRMCVKo-LddsO4h7Nea9SABQonQlf41BICxnl/elliottreviewgovresponsessept2014.pdf>



## **2. Food Authenticity Network (FAN):**

- 2.a) <http://www.foodauthenticity.uk/>
- 2.b) Food authenticity programme reports:
  - 2.b-1) <http://www.foodauthenticity.uk/research#FA01>
  - 2.b-2) <http://www.foodauthenticity.uk/asg-and-amg>

## **3. Key decision-making committees**

- 3.a) Committee: AW/275 Food analysis - Horizontal methods:  
<https://standardsdevelopment.bsigroup.com/Home/Committee/50229715>
- 3.b) UK food authenticity steering group:  
<https://www.gov.uk/government/groups/food-authenticity-steering-group>
- 3.c) Animal Feed Law Enforcement Liaison  
Group: <https://www.food.gov.uk/enforcement/enfcomm/aflelg>
- 3.d) National Animal Feed Ports Panel:  
<https://www.food.gov.uk/enforcement/enfcomm/nafpp>
- 3.e) National Agricultural Panel :  
<https://www.food.gov.uk/enforcement/enfcomm/national-agricultural-panel>

## **4. Surveys**

- 4.a) UK national co-ordinated food and sampling programme:  
<https://www.food.gov.uk/enforcement/sampling>
- 4.b) The work of the independent committees and working groups that advise the Food Standards Agency helps ensure that the Agency's advice to consumers is always based on the best and most recent scientific evidence: <https://www.food.gov.uk/science/ouradvisors>
- 4.c) The UK Annual Business  
Survey: <http://www.ons.gov.uk/businessindustryandtrade/business/businessservices/datasets/uknonfinancialbusinesseconomyannualbusinesssurveysectionsas>
- 4.d) To better understand consumers' concerns in relation to food and represent their interests in UK Food standards agency policy, they carried out consumer research and used the results to inform the development of their strategy for 2015-2020:
  - 4.d-1) <https://www.food.gov.uk/science/research/ssres/crosscutss/fsa-strategy-2015-2020-citizen-forums>
  - 4.d-2) <https://www.food.gov.uk/sites/default/files/fsa-strategy-omnibus-survey.pdf>
  - 4.d-3) <https://www.food.gov.uk/sites/default/files/fsa-strategy-report-stage2.pdf>
  - 4.d-4) The citizens' forums used reconvened focus groups to explore consumers' interests in depth and enable consumers to deliberate on complex or challenging issues:  
<https://www.food.gov.uk/sites/default/files/fsa-strategy-research-report.pdf>

*Key information to be registered/extracted on/ from the Authent-Net Documents database (FARNHub)*

**Ongoing Projects (after 2010) including national-international/public-private funded projects)**

*Please provide a list of ongoing projects on food authenticity your MS is involved in (see T1.1)*

1. Name, funding, start/end date + Web site link

### 1. DEFRA Science and Research Projects

At any one time, Defra is responsible for around 1000 research projects. This covers research in natural and social sciences as well as projects on economic analysis, monitoring, testing and surveillance activities. They have been commissioned to provide evidence which underpins Defra's policy formulation and development.

Defra has a searchable system providing a range of information on completed and ongoing projects (e.g. title, cost, contractor, duration, description, reports, etc) and is accessible through the following link: <http://randd.defra.gov.uk/>

Project number	Project title	Project run time
FA0155	EU Food Integrity Project	01/2014 to 03/2018
FA0157	Evaluation of quantitative molecular biology methods	12/2014 to 07/2016
FA0159	The development of isotopic and fingerprinting techniques to verify the production origin and geographical origin of food and feed	03/2015 to 11/2018
FA0160	Development of Metagenomic Methods for Determination of Origin - phase 2	03/2015 to 11/2018
FA0164	Authent-Net: Food Authenticity Research Network	04/2016 to 03/2018
FA0165	Method to determine the animal origin of gelatine-extension of methodology including transfer to triple quadruple technology - transfer to a high throughput, low cost platform with single lab validation	03/2017 to 03/2018

### 2. UK Food standards agency (FSA) projects

The UK Food standards agency carries out research surveys for monitoring, and not for law enforcement. However, the FSA liaises with the enforcement authorities if an urgent food safety problem is found and the survey results are made available to enforcement authorities prior to publication so that appropriate follow up action can be taken:

<https://www.food.gov.uk/science/research/surveillance/food-surveys>

This project followed an agreement with industry for data to be provided to FSA for publication in support of the ongoing investigations following the discovery of substitution with horse meat in the meat supply chain.

<https://www.food.gov.uk/science/research/supportingresearch/strategievidenceprogramme/x02pr ojlist/fs102051>

This study looked at whether beef, pork, lamb, apple juice, tomatoes and honey labelled as being from the UK, or the Republic of Ireland, were actually from where it was claimed. SIRA was used to

screen foods against their country of origin claims and allowed targeted follow-up investigations using traceability.

<https://www.food.gov.uk/science/research/supportingresearch/strategievidenceprogramme/x02projlist/fs515018>

The research and survey work funded by the Food Standards Agency is focused on helping the FSA understand food issues and meet its policy aims and objectives. FSA does not provide research grants, but contracts research groups to address specific questions aimed at producing the background evidence on which it can base its policies:

<https://www.food.gov.uk/science/research-reports>

There are about eight hundred reports collected in the database. You can search for reports using the following link: <http://tna.europarchive.org/20141103165934/http://www.foodbase.org.uk/>

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*

## **Legal framework for food authenticity (in application at a national level)**

*Please provide a list of standards/regulations on food authenticity applied in your MS (see T1.2)*

1. Title + web link + sources of expert advice on authenticity

### **1. UK Food standards agency (FSA): Framework Agreement**

The Agreement applies to local enforcement of all feed and food laws, and incorporates the latest guidance and standards on feed and food law

enforcement: <https://www.food.gov.uk/enforcement/enforcework/frameagree>

THE FRAMEWORK AGREEMENT ON OFFICIAL FEED AND FOOD CONTROLS BY LOCAL AUTHORITIES, version 5 – April

2010: <https://www.food.gov.uk/sites/default/files/multimedia/pdfs/enforcement/frameworkagreementno5.pdf>

### **2. Labelling guidance**

2.a) UK food standards agency:

<https://www.food.gov.uk/business-industry/guidancenotes/labelregsguidance>

2.b) Food labelling and packaging overview:

<https://www.gov.uk/food-labelling-and-packaging/overview>

### **3. Legislations on food labelling**

3.a-1) The current UK Statutory Instrument is The Wine Regulations 2011 S.I No 2936 (as amended by SI 2013 No 3235): <http://www.legislation.gov.uk/uksi/2011/2936/contents/made>

3.a-2) [http://www.legislation.gov.uk/uksi/2011/2936/pdfs/uksi\\_20112936\\_en.pdf](http://www.legislation.gov.uk/uksi/2011/2936/pdfs/uksi_20112936_en.pdf)

3.b) UK statutory instruments for food

labelling: <http://www.legislation.gov.uk/uksi?title=food%20labelling>

4. **Food authenticity network:** 'policy and legislation'

<http://www.foodauthenticity.uk/policydocs> ; see 'legislation' = summary of documents

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*

### **Existing indicators used: intelligence sources**

*Please provide a list of intelligence tools used to detect/counter food fraud issues in your member state (e.g. Horizon Scanning, Interpol, Europol, National Crime agencies)*

1. Title + web link

#### **1. UK food standards agency**

1.a) Food alerts: <https://www.food.gov.uk/enforcement/alerts>

1.b) The FSA's National Food Crime Unit (NFCU) works with partners to protect consumers from food and drink that is either unsafe or not authentic because of serious criminal activity: <https://www.food.gov.uk/enforcement/the-national-food-crime-unit>

#### **2. Forming a Global System for Identifying Food-related Emerging**

**Risks:** <http://www.efsa.europa.eu/en/supporting/pub/rn-224>

Report of the EFSA Service Contract EFSA/SC/Tender/01/2004 "Forming a Global System for Identifying Food-Related Emerging Risks - EMRISK", coordinated by the Dutch Food and Consumer Product Safety Authority (VWA)

#### **3. HorizonScan**

There is a mountain of data on Global food safety available from many sources. HorizonScan draws this data together into a tool which provides a meaningful understanding of the situations, in a quick, easy to understand format. HorizonScan informs hazard and risk assessments across all food commodities. Specific countries and commodities can be interrogated for known and emerging issues: <https://secure.fera.defra.gov.uk/deskcheck/global-food-safety-information.cfm>

### **Commodities/products of interest and type of research of interest**

#### **1. Commodities/products of interest**

*Please provide a list of the commodities/food products in priority order most important for each MS in terms of value to that country.*

- 1) Livestock (poultry meat, beef and veal, pork, lamb and mutton)
- 2) Cereals (wheat, barley)
- 3) Vegetable oil (oil seed rape)
- 4) Milk (including milk products)
- 5) Allergens in food

## **2. Type of research of interest**

*Please provide a list of type of research (e.g. criminology, critical points, historical points, analytical methods, consumer behaviour, economic aspects) in priority order most important for each MS in terms of value to that country).*

- 1) Analytical methods
- 2) Economic
- 3) Consumer behaviour

## Annex 13

### Authent-Net Member State (MS) National Status Report

#### Country: United Nations FAO/IAEA Joint Division

*Please note that the information provided here below will be put on the Food Authenticity Research Network Hub (FARNH) which will be publically accessible. So please do not include any confidential information.*

#### List of organisations that fund food anti- fraud/food authenticity research and the type of research they fund

*Please provide a list of organisations (Government + NGO whatever the nationality) that are funding projects on food authenticity in your MS*

**1. Name** (*Categorise into government/NGO, public/public-private*)

Address

Web site link

Short description of the funder

**Type of research funded: APPLIED RESEARCH/DEVELOPMENT**

*Click here to privately contact the persons responsible for Food Authenticity funding.*

*(This would take you to a secure location [eg. LinkedIn private chat] to contact relevant funder, only once you're able to prove that you are from another funding organisation).*

**1. Joint FAO/IAEA Division of Nuclear Applications in Food and Agriculture, Department of Nuclear Sciences and Applications, International Atomic Energy Agency, Vienna International Centre**

PO Box 100, 1400 Vienna, Austria

<http://www-naweb.iaea.org/nafa/fep/index.html>

**Type of research funded: APPLIED AND ADAPTIVE RESEARCH**

The Food and Environmental Protection Section of the Joint Programme and its associated Food and Environmental Protection Laboratory of the FAO/IAEA Agricultural and Biotechnology Laboratory in Seibersdorf provide assistance and support to countries in their efforts to ensure the safety and quality of food and agricultural commodities and food security while at the same time facilitating international trade. Our activities primarily focus on strengthening Member State capacities for the application of international standards on irradiation as well as on the use of nuclear and related analytical technologies and capacity building in the control of food and environmental hazards as well as food traceability and authenticity. These efforts are based on a coordinated and comprehensive “farm to fork” approach to food production systems that ensure the application of good agricultural practices throughout the food chain.

Contacts: Mr Andrew Cannavan / Mr Simon Kelly

#### Plan/Strategy in terms of Authenticity Research Funding

*Please provide a web link to a plan/strategy on food authenticity for each specific funding organisation (see 1<sup>st</sup> box), provided there is one, or anything the funding organisations are able to*

*provide (general plan/strategy on food). That should include policy documents, research/surveillance documents where possible.*

**1. Funding organisation name + web link to plan + Key decision making committees**

**Plan/Strategy by institution numbered according to the previous list of funding bodies.**

**1. Joint FAO/IAEA Division of Nuclear Applications in Food and Agriculture, Department of Nuclear Sciences and Applications, International Atomic Energy Agency, Vienna International Centre**

<http://www-naweb.iaea.org/nafa/fep/crp/coordinated-research-fep.html>

The FEP Subprogramme develops, formulates and coordinates Coordinated Research Projects (CRPs). CRPs bring together laboratories in both developing and developed Member States to collaborate on research topics of common interests. Each CRP is implemented through the Agency's Research Contracts Administration and consists of a network of 10-15 national research institutes from developing (contract holders) and developed Member States as agreement holders. Each CRP commonly lasts for five to six years, during which normally four Research Coordination Meetings (RCMs) are held to evaluate the progress, to coordinate and develop technical documents.

### **Capabilities/Infrastructure of Authenticity research providers/relevant NRLs**

*Please provide details of national capabilities (public and private) in terms of food authenticity analysis (relevant National Reference Laboratories, certified laboratories etc.) and in terms of Food Authenticity Research.*

**1. Name** *(Categorise into academic/research, general proficiency, expertise in a specific technique and/or commodity)*

*Address*

*Web site:*

*Contact available through: (Any web sites where contact details of key personnel are available)*

*Telephone:*

#### **1. Food and Environmental Protection Laboratory**

FAO/IAEA Agriculture and Biotechnology Laboratories

1 Frieden Strasse, Seibersdorf, 2400, Austria

<http://www-naweb.iaea.org/nafa/fep/fep-laboratory.html>

The Food and Environmental Protection Laboratory (FEPL) is located at the FAO/IAEA Agriculture and Biotechnology Laboratories, Seibersdorf. The laboratory assists Member States to improve laboratory and regulatory practices and methodologies in the areas of food traceability and authenticity, food safety and food quality in order to safeguard the health of consumers, help to facilitate international trade and enhance food security.

This is achieved through applied research and method development, technology transfer and the provision of data and expertise to support the development of international standards and guidelines. Since food safety is a very dynamic field, FEPL maintains the capability to respond to emerging and emergency food safety issues affecting Member States.

### **Recent key Cases/Reports/Reviews (after 2010)**

*Please provide a list of web links to public outputs, documents, papers, reports, databases on incidents, detection methods, ... in relation to food authenticity your MS is involved (see T1.1)*

1. Title + web link

#### **1. Newsletters and annual reports:**

<http://www-naweb.iaea.org/nafa/fep/public/newsletters-fep.html>

#### **2. Books and proceedings:**

<http://www-naweb.iaea.org/nafa/fep/public/proceedings-fep.html>

#### **3. Scientific papers:**

<http://www-naweb.iaea.org/nafa/fep/public/scientific-papers-fep.html>

#### **4. Manuals and protocols:**

<http://www-naweb.iaea.org/nafa/fep/public/manuals-fep.html>

*Key information to be registered/extracted on/ from the Authent-Net Documents database (FARNHub)*

### **Ongoing Projects (after 2010) including national-international/public-private funded projects)**

*Please provide a list of ongoing projects on food authenticity your MS is involved in (see T1.1)*

1. Name, funding, start/end date + Web site link

#### **1. Implementation of Nuclear Techniques to Improve Food Traceability**

This coordinated research project (CRP) will address some of the challenges that developing countries are facing in ensuring food traceability. In particular, it will help laboratories in member states to establish robust analytical techniques to determine provenance of food through the assessment of the isotopic and elemental composition of foodstuffs using an integrated and multidisciplinary approach. The immediate benefit to laboratories will be the implementation and



application of state-of-the-art nuclear measurement techniques to determine the provenance of foodstuffs. These will complement screening methods to detect residues and contaminants in food to provide holistic food safety systems.

<http://www.naweb.iaea.org/nafa/fep/crp/fep-improve-traceability.html>

## **2. Accessible Technologies for the Verification of Origin of Dairy Products as an Example Control System to Enhance Global Trade and Food Safety**

This coordinated research project (CRP) will address some of the challenges that developing countries are facing in ensuring food traceability. It will develop a complete end-to-end system, using dairy milk, which has been recently involved in fraud issues endangering the public health (cases of melamine in milk), as an example commodity. Dairy is a priority commodity due to its simple processing procedures, high level of trade, and use as an ingredient in sensitive products such as infant formula. This system will then be available as a template that can be transferred to other commodities as required.

<http://www.naweb.iaea.org/nafa/fep/crp/fep-global-trade-food-safety.html>

## **3. Field-deployable Analytical Methods to Assess the Authenticity, Safety and Quality of Food**

The aim of this CRP is to close the gap between capabilities confined to sophisticated research labs, and technologies that can be utilised by various national gate-keepers in developing countries, namely national customs authorities & food regulators. The opportunity to accomplish this ambitious goal stems from a rapid and on-going reduction in the cost of analytical equipment and a rapid increase in its portability. Throughout the last decade the analytical instrument industry has delivered new families of handheld, portable and transportable tools. This project will consider applications based on hand-held and portable devices including (but not limited to) ion mobility spectrometry (IMS), near infra-red (NIR) and X-ray fluorescence (XRF) spectrometers and some bench-top laboratory instruments that have become 'field' transportable including laser induced breakdown spectrometry (LIBS), laser ablation molecular isotopic spectrometry (LAMIS), nuclear magnetic resonance (NMR) spectroscopy, mass spectrometry (MS) and multi-spectral imaging (MSI). This CRP is conducted jointly with the Nuclear Sciences Instrumentation Laboratory inside IAEA under CRP G42007.

<http://cra.iaea.org/cra/explore-crps/all-opened-for-proposals.html>

*Key information to be registered/extracted on/from the Authent-Net Documents database (FARNHub)*

## **Legal framework for food authenticity (in application at a national level)**

*Please provide a list of standards/regulations on food authenticity applied in your MS (see T1.2)*

NOT APPLICABLE – Our Member States will need to comply with relevant National regulations.

### **Existing indicators used: intelligence sources**

*Please provide a list of intelligence tools used to detect/counter food fraud issues in your member state (e.g. Horizon Scanning, Interpol, Europol, National Crime agencies)*

**1.**

NOT APPLICABLE

### **Commodities/products of interest and type of research of interest**

#### **1. Commodities/products of interest**

*Please provide a list of the commodities/food products in priority order most important for each MS in terms of value to that country.*

- 1) Livestock (Poultry meat, Beef and veal, pork, lamb and mutton)
- 2) Cereals (Wheat, Barley,
- 3) Vegetable oil (oil seed rape)
- 4) Milk (including milk products)

#### **2. Type of research of interest**

- 1) Analytical methods
- 2) Economic

*Please provide a list of type of research (e.g. criminology, critical points, historical points, analytical methods, consumer behaviour, economic aspects) in priority order most important for each MS in terms of value to that country).*