



EURL CPS, Lm, MMP

European Union Reference Laboratory for
Coagulase Positive Staphylococci
Listeria monocytogenes

Milk and Milk Products

Maisons-Alfort Laboratory for Food Safety

Panoramica della actività su laboratorio di riferimento dell'Unione europea (EURL) per Listeria monocytogenes

I Laboratori Nazionali di Riferimento per Listeria monocytogenes e Campylobacter Seminario *Istituto G. Caporale, Teramo 12/12/2012*

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Agenzia Francese per la sicurezza sanitaria su alimentazione, lavoro e ambiente





Rapporti con il governo e il parlamento

Ministry for ecology and sustainable development

Ministry for labour

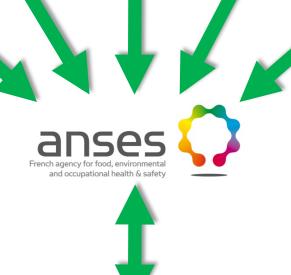
Ministry for health

Ministry for food, agriculture and fisheries

Ministry for consumer affairs

5 supervisory ministries
State Goals & Resources
Contract

Vote of the annual grant, annual report



Parliament





Missioni

Assess nutritional and health risks and benefits

Recommend public health measures

Monitor health safety

Conduct,
coordinate and
initiate research
projects

Coordinate the R 31 network of scientific organisations

Provide laboratory reference missions

Provide training and information and contribute to public debate

Authorise marketing of veterinary medicinal products





ANSES in breve

- √ 1350 staff
- √ 800 external experts solicited (20 Expert Committees, working groups)
- ✓ Annual budget: 140 million Euros
- ✓ More than 8000 Opinions issued since 1999
- √ 51 National Reference Laboratory mandates, 8 EURL mandates
- √ 250 scientific publications per year
- ✓ More than 100 doctorate and post-doctorate students





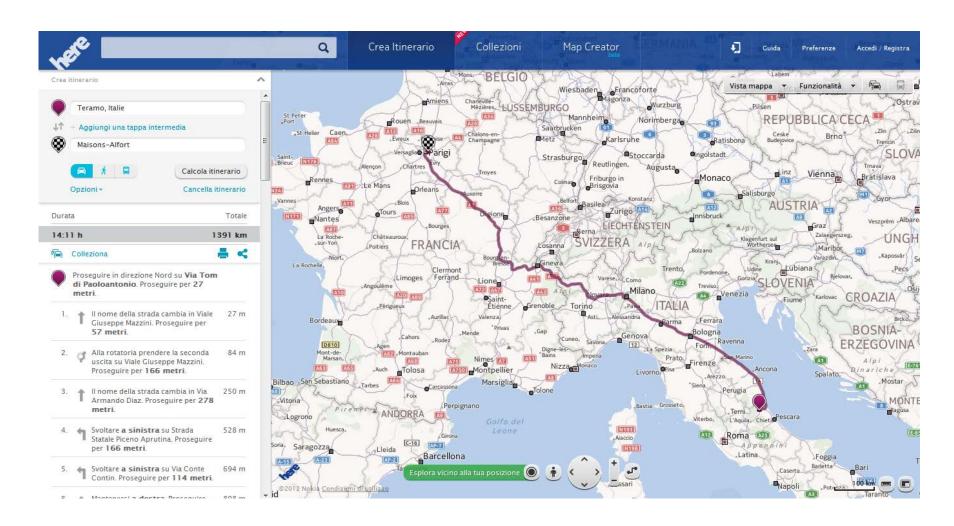
Laboratory for Food Safety

- Specialised in biological (raw or process) and chemical (environment or process) hazards which have an effect on food safety for humans;
- Activities:
 - Reference
 - Research
 - Surveillance/epidemiosurveillance
 - Scientific and technical expertise



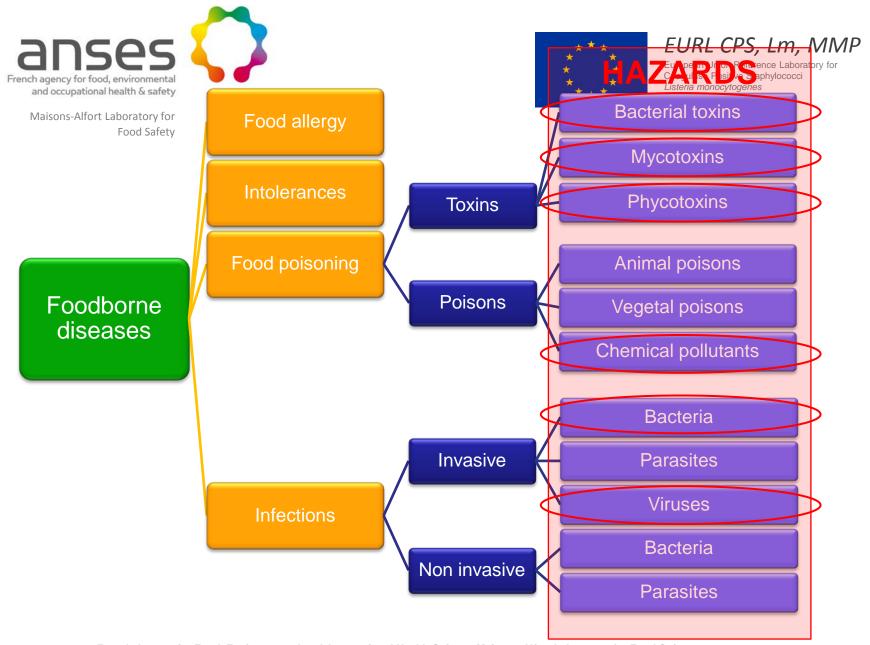


Dove Siamo?

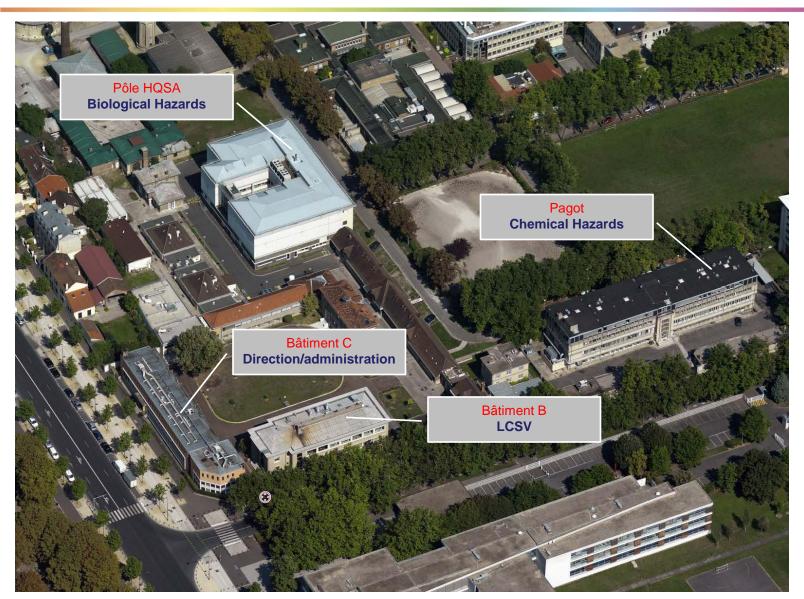








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Laboratorio de sicurezza alimentare in breve

- √ 150 staff
- ✓ Between 55000 and 85000 analytical controls each year
- ✓ Annual budget: 12,6 million Euros
- √ 10 NRL mandates, 3 EURL mandates
- √ 50 scientific publications per year
- √ 30 technical expertise reports per year
- ✓ Around 10 doctorate and post-doctorate students





Pericolo chimique et biologique

Origine

- o in food
- o generated by processing or preparation

Missioni

- To improve knowledge on the identification of hazards
- To develop methods for detecting, characterizing and measuring these hazards
- To investigate why these hazards appear and what causes their development
- To contribute to the implementation of control tools (FBO, OCB)
- To assess the risks associated to these hazards
- To perform molecular epidemiosurveillance





Reference activities

EU Reference Laboratory for

- •Milk and milk products
- Staphylococci and staphylococcal enterotoxins
- •Listeria monocytogenes

National Reference Laboratory for

- Milk and milk products
- Staphylococci and staphylococcal enterotoxins
- •Listeria monocytogenes
- •Salmonella (with Anses-Ploufragan)
- Antimicrobial resistance (with Anses-Fougères)
- Marine biotoxins
- Pesticides residues
 - •In food of animal origin
 - •Single residue methods
- Heavy metals in food of animal origin
- Mycotoxins in food of animal origin





European Union Reference Laboratory

- Presciber European Commission/Health of consumer Directorate
- COMMISSION REGULATION (EC) No 776/2006 of 23 May 2006 - amending Annex VII to Regulation (EC) No 882/2004 of the European Parliament and of the Council as regards Community reference laboratories
 - EC Regulation 2073/2005 on microbiological criteria for foodstuffs





EURL requirements

- suitably qualified staff with adequate training;
- equipment and products needed;
- appropriate administrative infrastructure;
- ensure confidentiality;
- sufficient knowledge of international standards and practices;
- take account of research activities at national and EU level;
- trained personnel available for emergency situations occurring within the Community.





Role of EURL (1)

- deal with analytical aspects related to the corresponding legislation
 - Reg. EC 2073/2005 on Microbiological criteria
- Criteria for Lm checked by Official Reference EN ISO methods



Food safety criteria from Annex I (Reg EC 2073/2005)

Chapter 1. Food safety criteria

| Food category | | Micro-organisms/their toxins, metabolites | Sampling plan (1) | | Limits (2) | | Analytical reference method (3) | Stage where the criterion applies |
|---------------|--|--|----------------------|---|--|-------|------------------------------------|---|
| | | toxins, metabolites | n | c | m | M | memod (*) | |
| 1.1 | Ready-to-eat foods intended for infants and ready-to-eat foods for special medical purposes (4) | Listeria monocytogenes | 10 | 0 | Absence in 25 g | | EN/ISO 11290-1 | Products placed on the market during their shelf-life |
| 1.2 | Ready-to-eat foods able to support the growth of <i>L. monocytogenes</i> , other than those intended for infants and for special medical purposes | Listeria monocytogenes | 5 | 0 | 100 cfu/g (⁵) Absence in 25 g (⁷) | | EN/ISO 11290-2 (6) | Products placed on the market during their shelf-life |
| | The second secon | | 5 | 0 | | | EN/ISO 11290-1 | Before the food has left the immediate control of the food business operator, who has produced it |
| 1.3 | Ready-to-eat foods unable to support the growth of $L.\ monocytogenes$, other than those intended for infants and for special medical purposes (4) (8) | Listeria monocytogenes | 5 | 0 | 100 | cfu/g | EN/ISO 11290-2 (°) | Products placed on the market during their shelf-life |



Role of EURL (2)

Coordinating application by National Reference Laboratories (NRLs) of the methods

- 35 NRLs: 1/member state
- Annual workshops
- Training sessions
- PT inter-laboratory studies
- Queries







Role of EURL (3)

To conduct analytical development

- Internal lab work
- To develop/to improve reference methods for official control



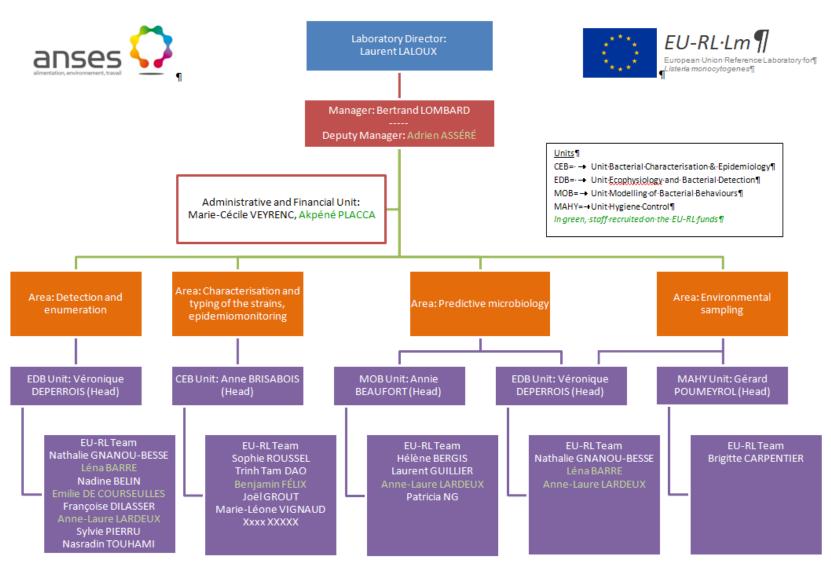
Role of EURL (4)

To provide scientific & technical support to EC/DG SANCO

- Upon the needs
- Confirmatory analyses
- Development/implementation of European legislation
 - Ex 1: preparation of Reg. 2073/2005
 - Ex 2: Implementation of Annex II of Reg. 2073/2005
 - Guidelines on challenge tests, durability studies
 - Food classification
- Participation for DG SANCO to European/international technical meetings/activities
 - Ex: CEN/ISO standardization











Focus on some activities

Methods:

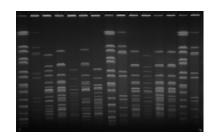
- Enhancement of Lm enumeration method
 - CEN mandate to validate the update 11290-1/2
 - filtration
 - reduction of the enrichment step
- PFGE protocole for Lm
- EURL Lm DB PFGE profile database



2010-11 EU baseline study in RTE:

opportunity for Typing database

- Taken part to EFSA plans
- Opportunity for subtyping the strains
- NRLs in charge of collecting the strains
- Collaboration of the NRLs to type the strains
- 1st use of the EURL database
- Work to be transfered to EFSA





Guidance documents

- Some aspects of the Reg on microbiological needed to be precised:
 - Shelf-life studies
 - Surfaces sampling



Article 3

General requirements

- 2. As necessary, the food business operators responsible for the manufacture of the product shall conduct studies in accordance with Annex II in order to investigate compliance with the criteria throughout the shelf-life. In particular, this applies to ready-to-eat foods that are able to support the growth of *Listeria monocytogenes* and that may pose a *Listeria monocytogenes* risk for public health.
- Food businesses may collaborate in conducting those studies.
- Guidelines for conducting those studies may be included in the guides to good practice referred to in Article 7 of Regulation (EC) No 852/2004.



Guideline document on shelf-life studies for *Listeria monocytogenes* in RTE foods

- On demand of DG SANCO
- Written in collaboration with representatives of 7 National Reference Laboratories for Listeria monocytogenes (BE, NL, IE, NO, RO, SE, UK) – version 2 (Nov 2008)
- Revising after 4 years of practices new members (SK, PT)
- Available on www.ansespro.fr/eurl-listeria





Article 5

Specific rules for testing and sampling

 Food business operators manufacturing ready-to-eat foods, which may pose a *Listeria* monocytogenes risk for public health, shall sample the processing areas and equipment for *Listeria* monocytogenes as part of their sampling scheme.



Guidelines on sampling the food processing area and equipment for the detection of *Listeria monocytogenes*

- Enquiry
- Document drafted by a WG
- 137 respondents from 15 EU MSs
- Presented after by my colleague Léna BARRE
- Available on our website homepage





Role of NRL

- Very similar to EURL, but at National level
- To manage the network of laboratories approved by the Compentent Authority in to perform official control analyses
- 2. To perform analytical development
- 3. Ensure dissemination of information
- Provide scientific and technical assistance to the competent authority



Grazie per la vostra attenzione

• Informazioni su www.ansespro.fr/eurl-listeria

