

ANSES at the 2019 Paris International Agricultural Show
Water and fishery products

From 23 February to 3 March 2019
Parc des Expositions
Hall 4, Aisle B, Stand 112

Water quality and fishery products: expertise for "One Health"

As a leading public agency responsible for the indivisible health of humans, animals and ecosystems, ANSES strives constantly to meet the challenges of agriculture today and in the future.

For the 2019 edition of the Paris International Agricultural Show, ANSES has decided to publicise its missions through the theme of water. As an environment for living organisms and a source of nutrition in its own right, water is a common good and a major health and food issue, but also a challenge for our agriculture, which must adapt to climate change and our changing lifestyles.

ANSES helps guarantee the quality of drinking water and the control of risks associated with aquaculture and fishing, from fish health through to food safety. Water is one of the key themes common to ANSES's wide range of activities.

Water is essential for life and for maintaining ecosystems, but can also be a source of exposure to various contaminants that may be harmful to health and biodiversity. ANSES draws on its scientific expertise to assess the health risks associated with the presence in water of micro-organisms such as bacteria and cyanobacteria, viruses and parasites, or of physico-chemical contaminants such as pesticide and drug residues, metabolites, heavy metals and microplastics.

In France, tap water is one of the most closely scrutinised foods and is subject to permanent health monitoring. ANSES contributes to water quality regardless of what it is used for: drinking or bathing. It provides scientific and technical support with the drafting of national and European regulations and assesses the risks at each stage of water distribution, from the source through to the consumer's tap. The ANSES National Reference Laboratory for Hydrology in Nancy conducts research in this regard and develops new methods to analyse the various types of water contamination and better understand emerging contaminants.

Water can also be a vector of hazards for fish and other aquatic products. ANSES monitors the safety of fishery and aquaculture products and assesses the benefits and risks associated with their consumption. Regarding fish health, ANSES's Ploufragan-Plouzané-Niort Laboratory studies the viruses that affect farmed fish and assesses the impact of environmental pollutants or resistance to infectious diseases in the production sector. The Laboratory for Food Safety (Maisons-Alfort and Boulogne-sur-Mer) investigates biological and chemical hazards that can affect the quality and safety of food and fishery products. ANSES also works on the issue of antimicrobial resistance, monitoring levels of resistance to antibiotics in freshwater fish and fishery products, and assessing water contamination by antibiotics and resistant bacteria.

ANSES, scientific expertise devoted to safeguarding health

Our mission: investigate, evaluate, protect

A range of hazards (biological, chemical or physical) can potentially affect the health of humans, animals or plants. ANSES assesses risks to human health associated with food and nutrition, the environment and the workplace; it also assesses risks to animal health and welfare, and to plant health. Input for the Agency's health risk assessment missions comes from the knowledge generated by its monitoring, research and reference activities. In return, risk assessment guides the monitoring initiatives and helps identify new avenues for research. The Agency's expert appraisals lead it to issue opinions and recommendations for informing public action in order to implement effective risk management measures. In this way, ANSES contributes to the safety of populations in their everyday lives.

Our areas of activity

Research and reference

The nine ANSES laboratories located throughout the country conduct research to acquire scientific knowledge on health hazards that threaten **animal health and welfare, food safety and plant health**. More than 600 scientists and technicians are working to better detect, identify, characterise, monitor and prevent known and emerging pathogens.

The ANSES laboratories hold **national, European and international reference mandates**. As such, they develop and validate official analytical methods for the pathogens or contaminants for which they have been appointed, manage the network of laboratories accredited for carrying out these analyses and contribute to epidemiological surveillance.

ANSES also operates the **National Research Programme for Environmental and Occupational Health (PNR EST)**, financed from budgets delegated by the Ministries of the Environment and Labour, as well as funds from partner institutions. The research projects it finances generate data of use for risk analysis in the areas of occupational and environmental health.

Expert appraisal

Drawing on all the available scientific knowledge, ANSES conducts scientific expert appraisals to support public policymaking. It takes into account the exposure of citizens in a cross-cutting and all-encompassing way that enables it to assess the risks they face while reflecting as closely as possible the realities of their everyday lives, at work, during their leisure activities, etc. To carry out its assessment missions, ANSES calls on the expertise of its in-house scientists and more than **800 scientific experts**, chosen in both cases on the basis of **their competence and independence**, who it mobilises in its **expert groups** (Expert Committees and Working Groups) as well as in its laboratories located throughout France.

ANSES has also been tasked with assessing **chemicals** within the framework of the European **REACH** (Registration, Evaluation and Authorisation of Chemicals) and **CLP** (Classification, Labelling and Packaging) regulations. As such, it proposes risk management measures for certain chemicals and communicates them to its supervisory ministries and/or to the European Chemicals Agency (ECHA).

Assessment and marketing of regulated products

The Agency also assesses the effectiveness of plant protection products, fertilisers, growing media, adjuvants, active substances and biocidal products, as well as the risks associated with their use. On the basis of the conclusions of its scientific assessments, it then issues, amends or withdraws marketing

authorisations (MAs) and permits for all of these products, in compliance with European and national regulatory frameworks.

The French Agency for Veterinary Medicinal Products (ANMV), part of ANSES, is the competent authority for assessing and managing risks and granting marketing authorisations concerning veterinary medicinal products in France.

Monitoring, vigilance and surveillance

ANSES has vigilance and surveillance capabilities that are integrated into the national health monitoring system. Its different efforts in this field feed into its risk assessments by informing it of actual conditions in the field, through the reporting of alerts, and enable it to respond more efficiently in the event of a health crisis. The Agency is responsible for five vigilance schemes and is involved in numerous surveillance schemes, each operating according to different rules, principles, governance and data sources:

- Nutrivigilance, for adverse effects associated with the consumption of food supplements;
- Toxicovigilance, for the toxic effects on humans of everyday products, plants, etc.;
- Veterinary pharmacovigilance, for the adverse effects of veterinary medicinal products;
- Phytopharmacovigilance, for the adverse effects of pesticides;
- The National Network for Monitoring and Prevention of Occupational Diseases (RNV3P), for risks in the workplace.

ANSES carries out its missions in complete independence and full transparency, in accordance with the principles of ethics and scientific integrity and using multiple data sources. It explains its work and makes it available to all stakeholders, to better safeguard health, contribute to public debate and inform the population about health risks and their prevention.

Our key figures

1400 employees at **16** sites in metropolitan France and the overseas territories

9 research and reference laboratories

65 national reference mandates

9 European reference mandates

27 international reference mandates

More than **800** independent scientific experts

5 vigilance schemes

More than **250** opinions and reports issued in response to formal requests each year

4000 decisions issued each year in the field of regulated products

700 scientific publications per year

We have a presence throughout France

