



Research needs as collected from the outgoing EFSA panels

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Background

- On occasion of current Panels ending their mandate, EFSA is collecting the views of exiting Panels on research priorities
- In this presentation the preliminary findings of identified research priorities are listed(still pending input)

THEME: Integrated approaches for microbiological hazards

PANEL(S): BIOHAZ

Use of meta-genomics and meta-transcriptomics in food safety

Development of biomonitoring for cross domain monitoring and exposure assessments

Investigating the role of foodborne infections in mental health

Use of social science and economic analyse to incentivise food safety initiatives (cross-cutting)

Safety of micro- organisms used in the food and feed chain (cross-cutting)

THEME: Tackling AMR

PANEL(S): BIOHAZ and AHAW

Use of bacterial isolates from EU surveillance for molecular epidemiology studies

Epidemiology of AMR in animal primary production environment

Biosecurity in livestock production to reduce disease introduction and AMR

Role of environment and food of non-animal origin in transmission of AMR

THEME: Dealing with new opportunities from the human microbiome

PANEL(S): ANS and GMO

Microbiome as a protection goal: how can a healthy microbiome be defined and preserved?

Approaches to evaluating and interpreting effects on the microbiome

THEME: Migration and food safety

PANEL(S): BIOHAZ and NDA

Human migration – unusual pathogens, new food habits, and food safety (cross-cutting)

Assessment of nutrient intake and nutritional status of immigrant populations in the EU

THEME: Integrated approaches to pests and diseases in plants and animal production

PANEL(S): PLH, AHAW and BIOHAZ

Wildlife surveillance to reduce introduction of transboundary diseases in livestock (cross-cutting)

Plant health crisis preparedness - breeding plant resistance & improving agroecosystems resilience

THEME: Tools for data-driven food systems

PANEL(S): ANS and PPR

Improving tools and approaches in exposure assessment in risk analysis

Databases representing today's reality in Europe (populations and sub-populations), using established and new statistical, sampling and refinement methods

Biomonitoring studies

Developing PBPK models and methods to convert external into internal exposure

Non dietary cumulative exposure and risk assessment

THEME: Food safety - systems approaches to HRA

PANEL(S): NDA, GMO, CEF and PPR

Methods for evaluation of nanoparticles in food

Integration of big molecular datasets in risk assessment of GMO products

Identification of Adverse Outcome Pathways, including integration of large molecular datasets

Protein toxicity and allergenicity

RA of RNAi-derived applications

Analytical tools to improve the risk assessment of food contact materials (FCMs)

New tools for assessing genotoxicity potential, of chemical substances, with an emphasis on mixtures

Developmental Neurotoxicity Testing Strategy

THEME: Food safety - systems approaches to ERA

PANEL(S): NDA, GMO, CEF, PPR

Understanding the functioning of ecosystems and their contribution to ecosystem services – impact of regulated stressors on ecosystem services

Landscape based environmental scenarios for all non-target organisms

Environmental Fate and Behaviour of plant protection products (e.g. spray drift)

Risk assessment for microorganisms used as plant protection products

THEME: Ensure food, feed, nutrition security

PANEL(S): FEEDAP and NDA

Methods for assessing environmental impact of diets in nutrition

Interactions between food security and food safety

Development of novel food and feed and their safety

Development of GMO organisms (plants or animals) and safety (cross-cutting)

Parameters of efficient production of edible protein of animal origin

Advanced glycation end products and ageing-related diseases

Next steps

June

- Mid June: share document with AF for feedback and input of idea

Sept

- AF members to reply by early September

Oct

- Consolidation of received proposals (from Panels and AF) into high-level fundable research proposals that following prioritisation will be compiled in a report to be submitted to the Commission

Autumn

- Preparation of technical report on EFSA's priority research topics