Update from 86th SC Plenary in November 2017

75th Management Board 12th December 2017

efsa
European Food Safety Authority

RISK ASSESSMENT METHODOLOGY

UNCERTAINTY GUIDANCE

Draft Guidance Document on Uncertainty analysis in scientific assessment

- Concise, step by step guidance, flexible, scalable

Draft opinion on principles and methods behind EFSA's Guidance on Uncertainty Analysis in Scientific Assessment

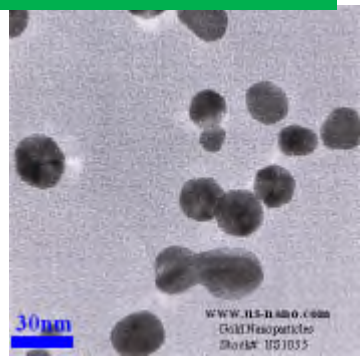
- Supporting document, text book, toolbox

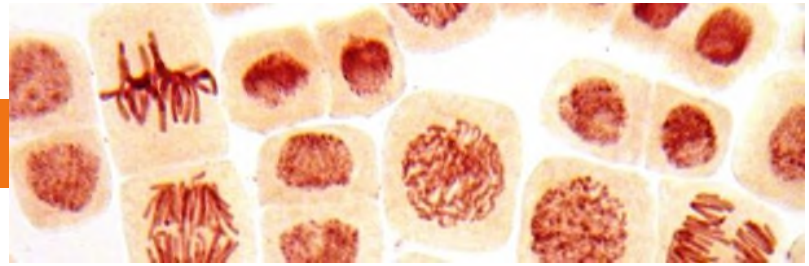
DRAFT GUIDANCE ON NANOMATERIALS

- Revision of EFSA Guidance 2011
- Criteria Novel Food Regulation (EU 2015/2283)
- Part 1 – human and animal health
- Pa
- 6

Endorsed for Public Consultation (early New Year 2018)

- Novel foods
- Food additives
- Food Contact Materials
- Feed
- Nanopesticides
- Nanocarriers





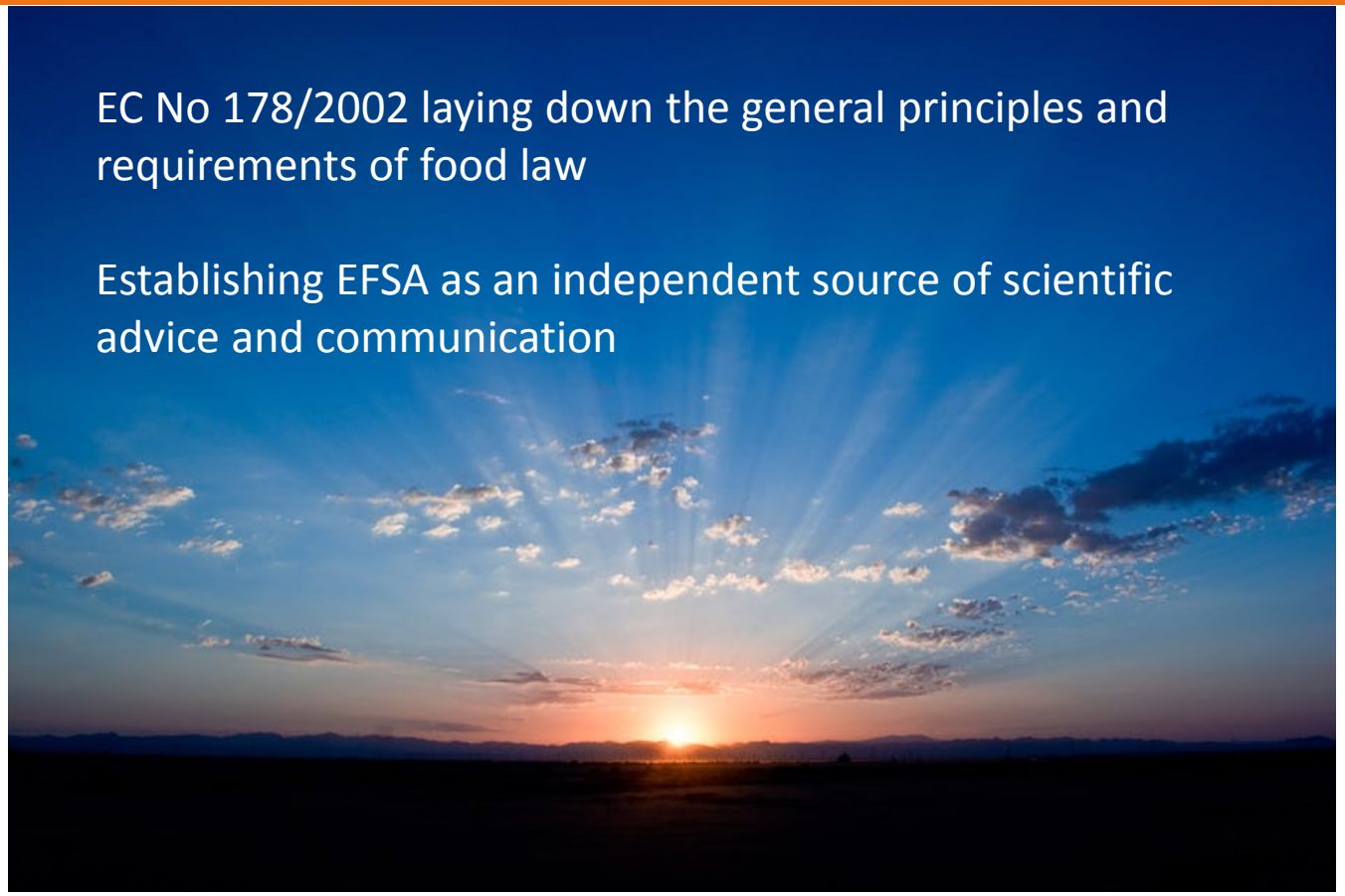
Draft opinion on genotoxicity assessment

- Adequacy of a historical assay used to follow up *in vitro* gene mutation tests
- Adequacy of demonstrating target tissue exposure in *in vivo* tests
- The use of data in a weight-of-evidence approach to conclude on the genotoxic potential of substances and the consequent setting of health-based reference values for use in human health risk assessment

A NEW DAWN IN FOOD SAFETY?

EC No 178/2002 laying down the general principles and requirements of food law

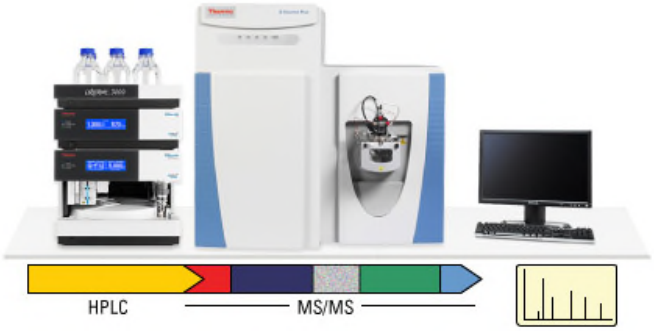
Establishing EFSA as an independent source of scientific advice and communication



DRIVERS FOR CHANGING RISKS IN THE FOOD CHAIN

- Climate change
- Global trade
- Complexity of the food chain
- Global sourcing, year-round growing season
- Chemical usage
  - Application systems
  - Precision
  - Environmental contamination
- Agricultural crops and breeding technologies

IMPROVED DETECTION



Technology of detection systems

- Increased sensitivity

Traceability

Monitoring

- Rapid reporting
- Rapid spread through the food chain

Chemical and biological agents

- Tracking of farm animals

EVIDENCE AND USE OF DATA

Transparency

Sources of data

- *In silico,* modelling, prediction, read across
- Testing strategies
  - *In vitro* technology (cell lines)
  - *In vivo* RRR (refinement, reduction, replacement)
- Bias reduction, systematic reviews

Shared and expanded databases

CHALLENGES FOR THE FUTURE (1)

Data

- Interpretation
- Methodology
- Exploitation
- Big data
- Artificial intelligence (machine learning)

Collaboration

- How can we build the capacity for the next generation of risk assessors?
- How can we be prepared for the unknown?
- How can we be agile enough to deal with the challenges?

CHALLENGES FOR THE FUTURE (2)

Global harmonisation of risk assessment

Global approach to food safety in an increasingly complex environment characterised by

- New risks, complexity of the food chain
- Declining societal trust
- Shrinking public budgets

GRAZIE MILLE

UNCERTAINTY IS AN UNCOMFORTABLE POSITION. BUT CERTAINTY IS AN ABSURD ONE

VOLTAIRE

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