Management Board

17 December 2020

Highlights from 101st SC Plenary

(11-12 November 2020)

Trusted science for safe food

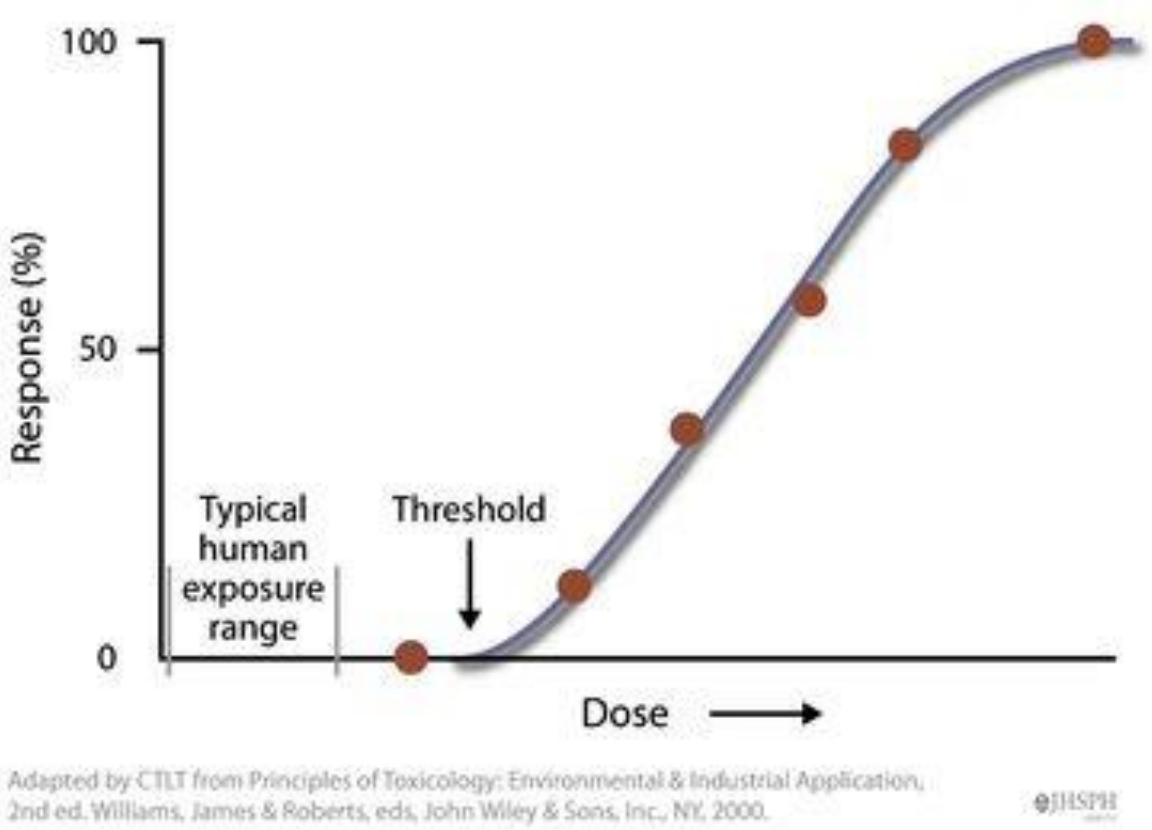
efsa

European Food Safety Authority

Non-monotonic dose response

EFSA contact: José Tarazona

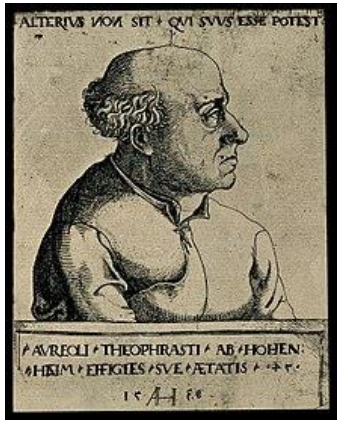
Monotonic dose response



All things are poison, and nothing is without poison; the dosage alone makes it so a thing is not a poison

The dose makes the poison
[Sola dosis facit venenum]

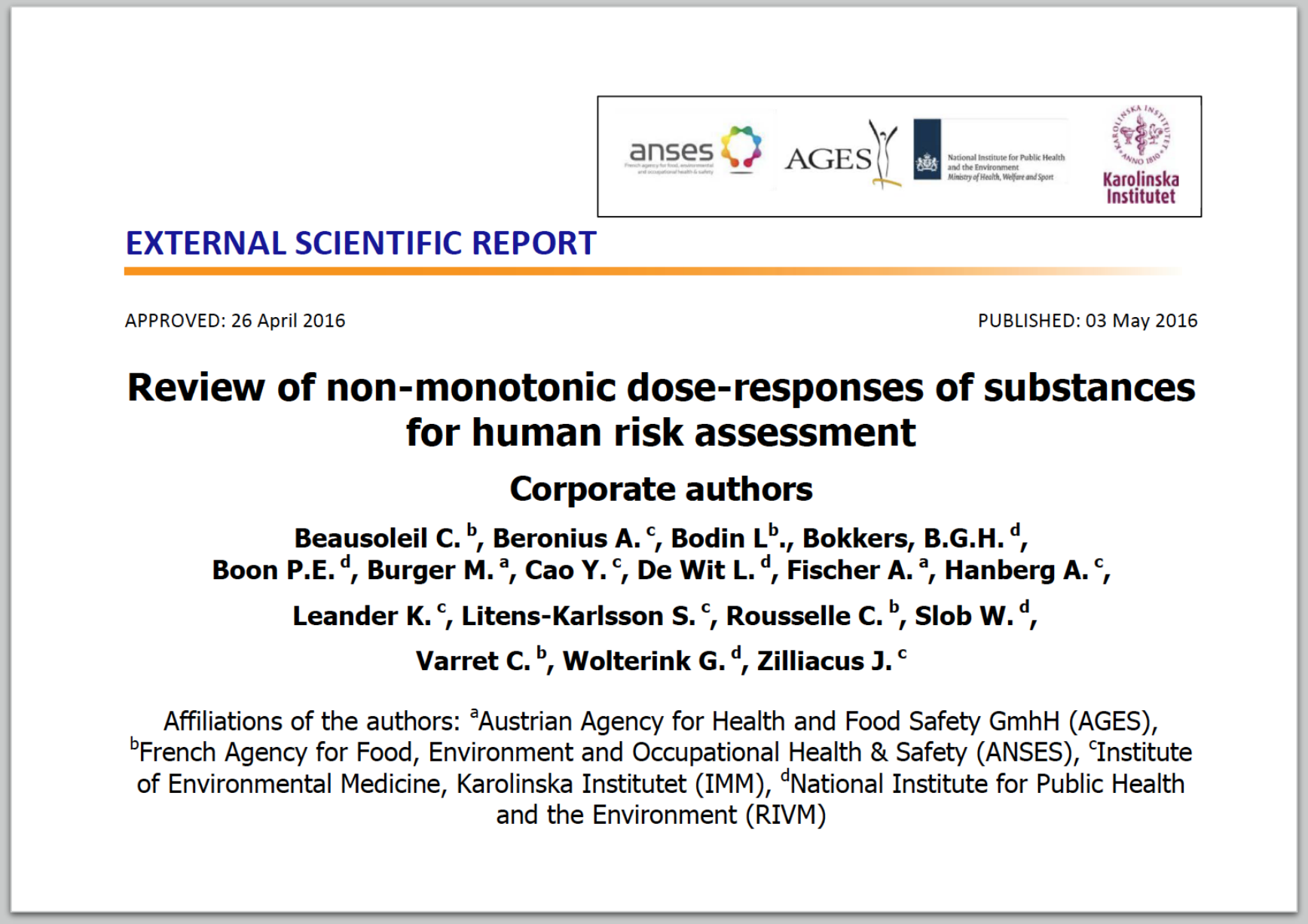
Paracelsus (1493/4-1541)



https://en.wikipedia.org/wiki/Paracelsus

The evidence for the NMDR hypothesis

Critical review of scientific peer-reviewed literature over the last decade (from 2002 onwards) for substances (other than essential nutrients) in the area of food safety



EXTERNAL SCIENTIFIC REPORT

APPROVED: 26 April 2016 PUBLISHED: 03 May 2016

Review of non-monotonic dose-responses of substances for human risk assessment

Corporate authors

Beausoleil C. [b], Beronius A. [c], Bodin L[b]., Bokkers, B.G.H. [d], Boon P.E. [d], Burger M. [a], Cao Y. [c], De Wit L. [d], Fischer A. [a], Hanberg A. [c], Leander K. [c], Litens-Karlsson S. [c], Rousselle C. [b], Slob W. [d], Varret C. [b], Wolterink G. [d], Zilliacus J. [c]

Affiliations of the authors: [a]Austrian Agency for Health and Food Safety GmhH (AGES), [b]French Agency for Food, Environment and Occupational Health & Safety (ANSES), [c]Institute of Environmental Medicine, Karolinska Institutet (IMM), [d]National Institute for Public Health and the Environment (RIVM)

EFSA Nano Network


EFSA contact: Reinhilde Schoonjans

GUIDANCE

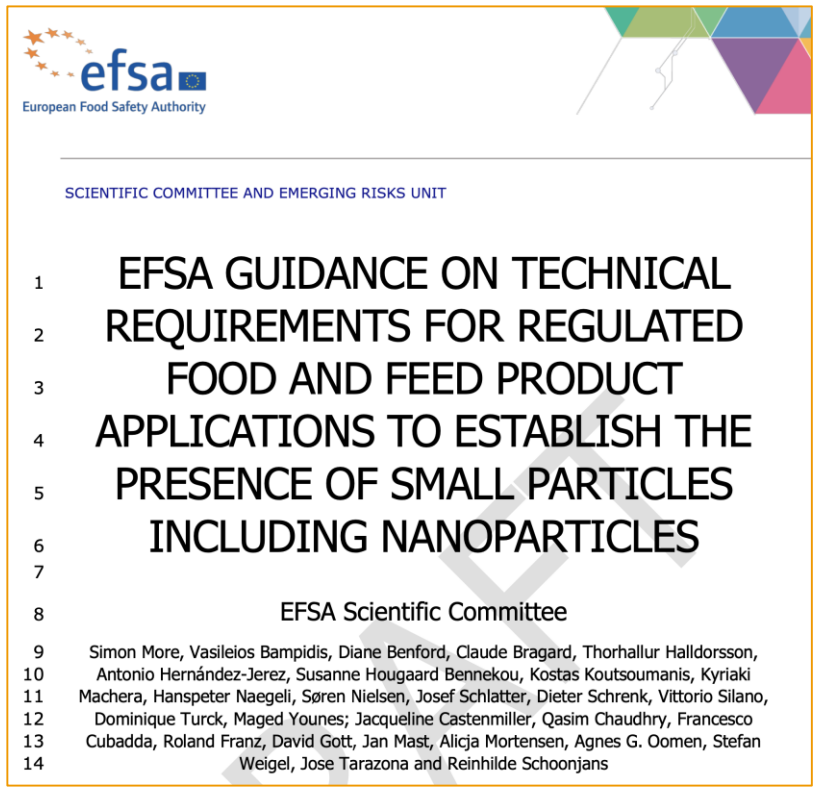
EFSA Journal

ENDORSED: 29 May 2018

doi: 10.2903/j.efsa.2018.5327

Guidance on risk assessment of the application of nanoscience and nanotechnologies in the food and feed chain: Part 1, human and animal health

EFSA Scientific Committee,
Anthony Hardy, Diane Benford, Thorhallur Halldorsson, Michael John Jeger, Helle Katrine Knutsen, Simon More, Hanspeter Naegeli, Hubert Noteborn, Colin Ockleford, Antonia Ricci, Guido Rychen, Josef R. Schlatter, Vittorio Silano, Roland Solecki, Dominique Turck, Maged Younes, Qasim Chaudhry, Francesco Cubadda, David Gott, Agnes Oomen, Stefan Weigel, Melpo Karamitrou, Reinhilde Schoonjans and Alicja Mortensen



efsa European Food Safety Authority

SCIENTIFIC COMMITTEE AND EMERGING RISKS UNIT

EFSA GUIDANCE ON TECHNICAL REQUIREMENTS FOR REGULATED FOOD AND FEED PRODUCT APPLICATIONS TO ESTABLISH THE PRESENCE OF SMALL PARTICLES INCLUDING NANOPARTICLES

EFSA Scientific Committee

Simon More, Vasileios Bampidis, Diane Benford, Claude Bragard, Thorhallur Halldorsson, Antonio Hernández-Jerez, Susanne Hougaard Bennekou, Kostas Koutsoumanis, Kyriaki Machera, Hanspeter Naegeli, Søren Nielsen, Josef Schlatter, Dieter Schrenk, Vittorio Silano, Dominique Turck, Maged Younes; Jacqueline Castenmiller, Qasim Chaudhry, Francesco Cubadda, Roland Franz, David Gott, Jan Mast, Alicja Mortensen, Agnes G. Oomen, Stefan Weigel, Jose Tarazona and Reinhilde Schoonjans

SC Guidance on Nano-RA

Definition, RA guidance

Public consultation: Jan-Mar 2018

Stakeholder workshop: April 2019

Pilot phase to end of 2020

Guidance on Particle-TR

Establishes criteria to assess the presence of a fraction of small particles

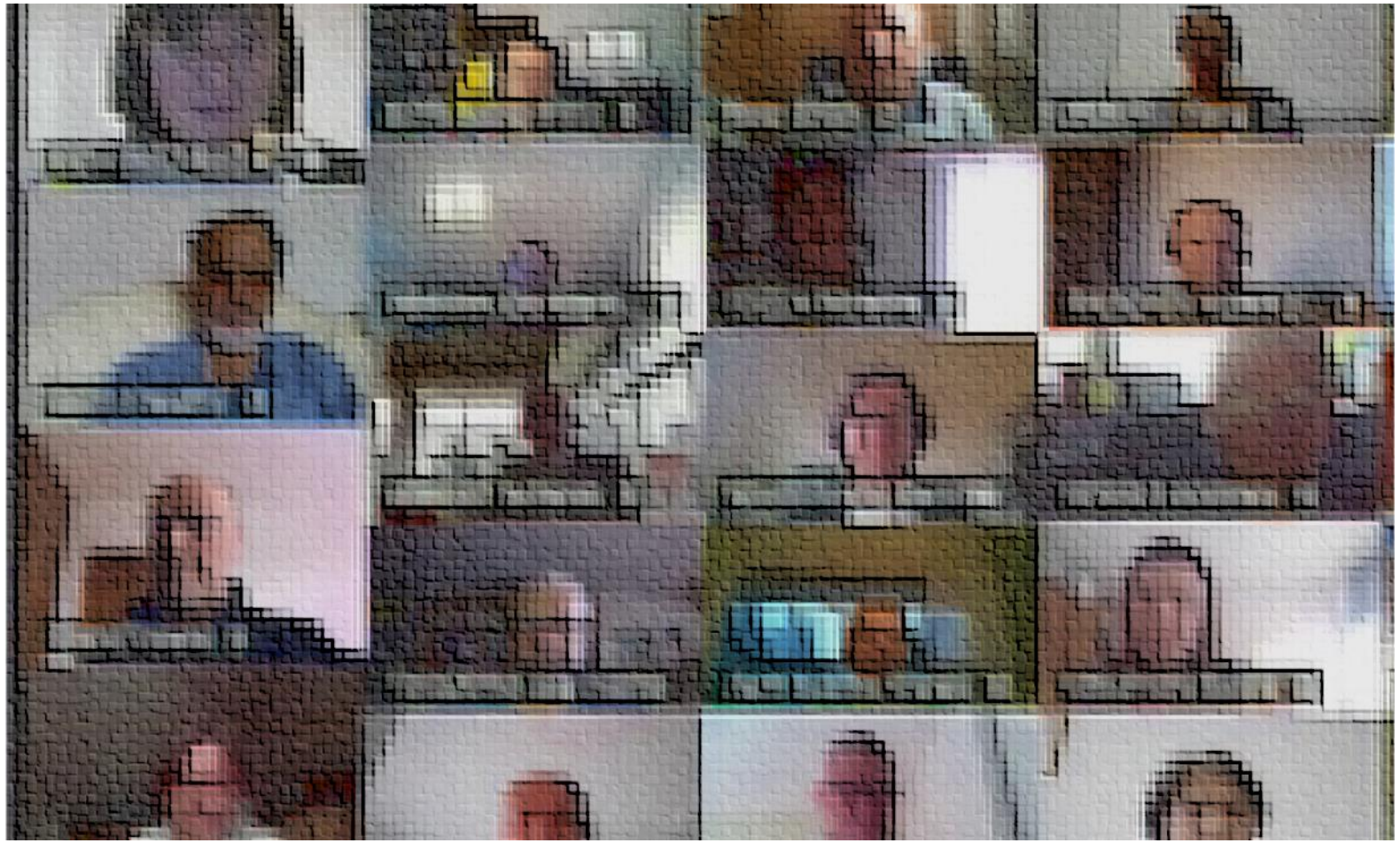
Public consultation: July-Sept 2020

Activities

- A focus on **EFSA guidance documents**
  - Explanation of *'SC Guidance on Nano-RA'* and 'Guidance on Particle-TR'
  - Clarifying the comments of public consultation
  - Assisting with implementation at national level
    - Sporadic implementation in national research, RA teaching or national seminars.
    - Involvement in various H2020 projects or OECD activities.
- Detailed discussion on the **similar activities across Member States** *(i.e. ANSES opinion published in June)*

Nano Network
Stresa, 2019

Contributing to international discussions on research priorities for regulatory science in the area of nanotechnology



Nano Network *Online*, 2020

(21-22 October 2020)

MUST-B scientific opinion

EFSA contact: Agnès Rortais

John Sullivan, public domain