

Technical Terms - 2020 Workshop Report

In this guide

[In this guide](#)

1. [Cover Page - 2020 Workshop Report](#)
2. [Abstract - 2020 Workshop Report](#)
3. [About the Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment \(COT\) - 2020](#)
4. [About the FSA - 2020 Workshop Report](#)
5. [Executive Summary - 2020 Workshop Report](#)
6. [Introduction and Background - 2020 Workshop Report](#)
7. [Mission and Vision: Objectives and outline of workshop - 2020](#)
8. [Presentations and panel discussions - 2020 Workshop Report](#)
9. [Panel Discussion Sessions Outputs - 2020 Workshop Report](#)
10. [Future Steps - 2020 Workshop Report](#)
11. [Overarching conclusions and recommendations - 2020 Workshop Report](#)
12. [Abbreviations - 2020 Workshop Report](#)
13. [References - 2020 Workshop Report](#)
14. [Technical Terms - 2020 Workshop Report](#)
15. [Workshop Organizing Committee - 2020](#)

Bayesian statistics

Bayesian statistics is a theory in the field of statistics based on the Bayesian interpretation of probability where probability expresses a degree of belief in an event.

Exposomics

Exposomics is the study of the exposome and relies on the application of internal and external exposure assessment methods. Internal exposure relies on fields of study such as genomics, metabonomics, lipidomics, transcriptomics and proteomics.

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| Internal Dose | Internal dose: the amount of a substance that entered the body through the skin, eyes, lungs, or digestive tract and was taken up by organs or particular tissues). |
| Molecular Initiating Event (MIE) | A Molecular Initiating Event is the initial interaction between a molecule and a biomolecule or biosystem that can be causally linked to an outcome via a pathway. |
| muscarinic receptor antagonist | A muscarinic receptor antagonist is a type of anticholinergic agent that blocks the activity of the muscarinic acetylcholine receptor |
| Protein Corona | The term 'protein corona' was proposed in 2007 to describe such spontaneous self-assembly and layering of proteins onto NP surfaces (Cedervall, T., Lynch, I., Lindman, S., Berggård, T., Thulin, E., Nilsson, H., Dawson, K.A. and Linse, S., 2007. Understanding the nanoparticle–protein corona using methods to quantify exchange rates and affinities of proteins for nanoparticles. Proceedings of the National Academy of Sciences, 104(7), pp.2050-2055.) |
| Toxicity tiered testing | Toxicity tiered testing is a set of biologically based toxicity testing decision triggers, developed and analysed within a tiered testing and decision-making framework for evaluating potential human health hazards and risks associated with chemical exposures. |
| Transcriptome | The transcriptome is the set of all RNA transcripts, including coding and non-coding, in an individual or a population of cells. |
| Zettabytes | Zettabytes are 1,000,000,000,000,000,000 bytes. Zettabyte is approximately equal to a thousand Exabytes, a billion Terabytes, or a trillion Gigabytes. |