

Resource Summary Report

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Evidence Based Toxicology

RRID:SCR_008507

Type: Tool

Proper Citation

Evidence Based Toxicology (RRID:SCR_008507)

Resource Information

URL: <http://www.ebtox.org>

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Description: This website is an invitation. an invitation to join scientists and stakeholders in an effort to review the scientific basis of traditional toxicological risk assessment, to provide the toxicological community with the tools it needs to efficiently and transparently judge risks of a diversifying nature and to make toxicology thus fit to meet the challenges of the 21st century. an invitation to participate in the inception and continuous implementation of a new movement in toxicology that aims at adopting an evidence-based approach. an invitation to help bridging the gap between modern toxicological science and risk assessment in order to exploit the wealth of information from new technologies in modern life sciences & toxicological research and to arrive at informed, transparent, judicious and conscientious decisions made on the basis of all evidence available. an invitation to develop a framework that allows combining precious expert insight grown over years of practical experience with structured approaches in basic science, in method assessment and in decision-making. Such evidence-based toxicology might help to make the best possible use of all sources of evidence in an efficient, productive, reliable, acceptable and transparent manner. Why do we need evidence-based toxicology (EBT)? Toxicology and the delivery of effective safety assessment critically relies on concepts and understanding generated by basic scientific research and must therefore adapt constantly to advances in knowledge. However, particularly from the perspective of regulatory toxicology, some of the assessment paradigms and methodologies were established decades ago and have changed little in response to scientific progress. At the same time, changes in our understanding of human disease, changes in the types of product now requiring safety assessment, and changes in the legislative landscape and public expectations pose significant challenges for industry, academia and regulators alike. It is necessary to challenge the status quo and ensure that as a matter of course best scientific practice and technical sophistication is reflected in safety assessment practices such that current and future challenges can be met. It is important therefore to ensure that structures are available that will encourage, facilitate and support a process of critical appraisal and renewal of the toxicological repertoire available for safety assessment. Part

of this process is to embrace evidence-based toxicology such that the best possible scientific evidence is applied to judge product safety and likely risks to human health.

Synonyms: EBT

Resource Type: data or information resource, department portal, organization portal, portal

Resource Name: Evidence Based Toxicology

Resource ID: SCR_008507

Alternate IDs: nif-0000-30537

Record Creation Time: 20220129T080247+0000

Record Last Update: 20260912T195705+0000

Ratings and Alerts

No rating or validation information has been found for Evidence Based Toxicology.

No alerts have been found for Evidence Based Toxicology.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Sill?? FCM, et al. (2026) Charting exposomethics: a roadmap for the ethical foundations of the human exposome project. Human genomics, 20(1), 34.

Luechtefeld T, et al. (2026) Evidence-based AI: from trailblazer to trustblazer? Frontiers in artificial intelligence, 9, 1818128.

Hartung T, et al. (2025) Assessing risk of bias in toxicological studies in the era of artificial intelligence. Archives of toxicology, 99(8), 3065.

Maertens A, et al. (2022) Probabilistic risk assessment - the keystone for the future of toxicology. ALTEX, 39(1), 3.

Leenaars C, et al. (2021) Reviewing the animal literature: how to describe and choose between different types of literature reviews. Laboratory animals, 55(2), 129.

Stephens ML, et al. (2019) Adaptation of the Systematic Review Framework to the Assessment of Toxicological Test Methods: Challenges and Lessons Learned With the

Zebrafish Embryotoxicity Test. *Toxicological sciences : an official journal of the Society of Toxicology*, 171(1), 56.

Smirnova L, et al. (2018) 3S - Systematic, systemic, and systems biology and toxicology. *ALTEX*, 35(2), 139.

Archibald K, et al. (2018) Better science for safer medicines: the human imperative. *Journal of the Royal Society of Medicine*, 111(12), 433.

Hartung T, et al. (2009) A toxicology for the 21st century--mapping the road ahead. *Toxicological sciences : an official journal of the Society of Toxicology*, 109(1), 18.