

Monotonic dose-response testing for Nanomaterial toxicity

Commonly used acronym: NMTox

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SCOPE OF THE METHOD

The Method relates to	Animal health, Human health
The Method is situated in	Basic Research, Translational - Applied Research
Type of method	In silico
This method makes use of	Animal derived cells / tissues / organs

DESCRIPTION

Method keywords

data exploration

dose response

monotonic trend

Scientific area keywords

nanomaterials

Method description

NMTox is an R-software package and a Shiny app that can be used to explore and subset large datasets and can identify and test for monotonic dose responses. The package was developed within the NanoInformaTIX project where a platform is developed that aims to predict nanomaterial toxicity.

Lab equipment

Method status

Internally validated

PROS, CONS & FUTURE POTENTIAL

Advantages

Versatile tool to be used for several applications.

Challenges

Learning curve if the R-package is used.

REFERENCES, ASSOCIATED DOCUMENTS AND OTHER INFORMATION

Associated documents

Links

PARTNERS AND COLLABORATIONS

Organisation

Name of the organisation Thomas More University of Applied Sciences

Department RADIUS

Country Belgium

Name of the organisation University of Hasselt (UHasselt)

Department Centrum voor Statistiek

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