Monotonic dose-response testing for Nanomaterial toxicity

Commonly used acronym: NMTox

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SCOPE OF THE METHOD

<table>
<thead>
<tr>
<th>The Method relates to</th>
<th>Animal health, Human health</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Method is situated in</td>
<td>Basic Research, Translational - Applied Research</td>
</tr>
<tr>
<td>Type of method</td>
<td>In silico</td>
</tr>
</tbody>
</table>

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.

**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**

**Links**

Dose-response modelling for NanoInformatics toxicity