SCREEN EARLY WITH *IN VITRO* TOXICOLOGY

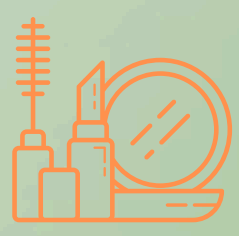
Remain competitive, compliant, and responsible

Applying *in vitro* toxicology early to assess the safety of your compound saves significant program time and costs

Roper Toxicology Consulting Limited

90%

Failure rate of pharmaceuticals in clinical translation



30%-50%

Amount of cosmetics that never reach market due to safety concerns

70%-90%

Percentage of agrochemical products that never reach market due to failed approval

Consequences of Not Using *In Vitro* Methods

Failure to adopt *in vitro* toxicology early can lead to significant consequences across various industries, research fields, and regulatory frameworks

Regulatory Issues

Strict regulations or bans on animal testing require the use of *in vitro* toxicology methods to avoid non-compliance, legal action, fines, product approval delays, or market entry barriers.

Longer Development Timelines & Higher Costs

In vivo testing methods are more expensive and time-consuming than in vitro approaches, increasing research costs and product development timelines leading to lost revenue opportunities and competitive disadvantages.

Less Human Relevant Data

Using animal models that don't accurately predict human responses can lead to faulty data, increasing the risk of adverse effects in trials, post-market failures, recalls, lawsuits, and health risks.

Failure to Detect Early Toxicity

Products lacking thorough toxicity assessments in early development are more likely to face safety issues post-market, leading to severe financial, legal consequences, and long-term viability.

Poor Alignment with Scientific Advances

Companies not aligned with advancing *in vitro* toxicology technologies risk falling behind in innovation, hindering research, and losing market share to competitors adopting cutting-edge testing methods.

Negative Brand Perception

Continued use of animal testing, despite available *in vitro* alternatives, can raise ethical concerns, harm brand reputation, and erode trust in the process.

Why Roper Toxicology Consulting Limited?

Remove the guess work to ensure informed decisions are made about continuing or halting work

COLLABORATION & PROJECT MANAGEMENT

Collaborates with specialized vendors to ensure their assays meet scientific and regulatory standards and your expectations

PROBLEM SOLVING & STRATEGIC PLANNING

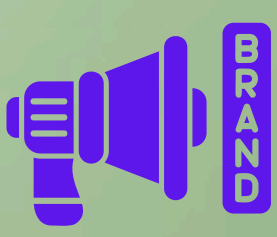
Proven track record of identifying and solving specific problems that impede program progress and deciding whether to advance or halt a project based on scientific data

REGULATORY COMPLIANCE & REPORTING

Ensures studies meet regulatory requirements and prepares reports summarizing findings, including opinions on the scientific validity of evidence

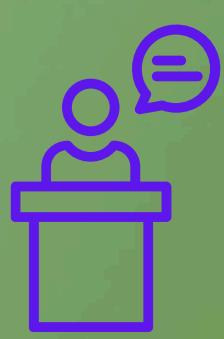
INNOVATION & TEST DEVELOPMENT

Partners with clients to develop new tests and methodologies, innovating within the constraints of existing regulatory frameworks. Acts as a guide for the use of new approaches for testing.



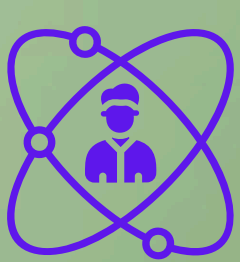
BRAND & STAFF DEVELOPMENT SERVICES

Supports companies with brand development, staff engagement, and career progression, as well as fostering a continuous improvement culture.



EXPERT WITNESS

Acts as a legal expert in cases where scientific and regulatory experience is key offering objective analysis, explaining complex scientific concepts, and interpreting data or evidence to assist the court in understanding technical matters relevant to the case.



INDUSTRY-SPECIFIC SCIENTIFIC EXPERTISE

Offers technical knowledge required to address complex scientific questions related to toxicity and safety testing

3RS SUPPORT STRATEGY

Provides replacement options to screen for toxicity before *in vivo* testing, facilitating the identification of any toxicity and determining whether or not to halt the program

Roper Toxicology Consulting Limited

J JANIAK CONSULTING

Sources: Communications Medc | (2022)2:154 | https://doi.org/10.1038/s43856-022-00209-1 | www.nature.com/commsmed, Acta Pharmaceutica Sinica B 2022;12(7):3049e3062

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