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INOVOTION Expands its Technology to Ecotoxicity Testing

Grenoble, France –

Inovotion is taking a major step forward in ecotoxicity testing through the *Wings of Change* project, financed through the NC3Rs¹. Phase I of the project aims to develop proofs-of-concepts for the use of *New Approach Methodologies* (NAMs) to assess chemical toxicity in birds. Agricultural chemicals play a significant role in modern farming, and it is necessary to characterise and minimize the possible risks to bird populations and biodiversity. Traditional avian toxicity studies require large numbers of birds, posing ethical, regulatory, and financial challenges. Inovotion's CAM (ChorioAllantoic Membrane) model offers a groundbreaking alternative by providing a non-animal approach to evaluate chemical safety.

The project brings together key players in ecotoxicology: the **Helmholtz Centre for Environmental Research (UFZ)**, which leads the project; **Inovotion**, applying its CAM model for non-animal toxicity screening; and **ibacon GmbH**, specializing in ecotoxicological testing and modelling. The consortium aims to develop NAMs, including *in silico*, *in vitro* and *in ovo* approaches, and incorporate them into a framework to reduce the number of animals used for regulatory risk assessment.

The project is backed by some of the largest industrial players in the area: BASF, Bayer Crop Science, Corteva, and Syngenta. These sponsors play a pivotal role in integrating innovative testing strategies to ensure environmental safety. Their involvement underscores the potential of NAM-based methodologies to revolutionize risk assessment while reducing reliance on animal testing. Additionally, industry collaboration will help validate and implement these alternative testing methods in real-world regulatory settings.

“Via Wings of Change, Inovotion ambitions to be a key player in modern ecotoxicity testing, leveraging on its ground-breaking CAMs technology platform.” – Jean Viallet - Inovotion CEO



Inovotion, a pioneer in *in vivo* preclinical testing using its innovative CAM model, is expanding its impact beyond oncology and biocompatibility testing. The company is committed to developing a NAMs approach to reduce animal testing while enhancing the accuracy and efficiency of toxicological assessments.

For years, Inovotion has revolutionized *in vivo* preclinical testing for new cancer therapies, leveraging its CAM model to deliver rapid, ethical, and cost-effective solutions. Unlike traditional rodent-based models, the CAM model provides a physiological microenvironment that enables early-stage tumor growth analysis, offering unparalleled insights into drug efficacy and toxicity. More recently, the company has successfully extended its technology to biocompatibility testing for new biomaterials, supporting advancements in medical device development, tissue engineering, and regenerative medicine. These applications highlight the versatility of the CAM model and its potential to address multiple 3Rs-compliant research and industry needs and applications.

inovotion.com



The **NC3Rs** is a UK-based scientific organisation and a globally recognized leader in advancing alternatives to animal testing. Primarily funded by the UK Government, the NC3Rs is also supported by charities and private donations. It collaborates with organisations from across the life sciences sector, nationally and internationally, including universities, industries, other research funders and regulatory authorities. As a UK-based funding agency, it drives scientific innovation by supporting cutting-edge research that improves human and environmental safety while reducing reliance on animal models. Through

¹ NC3Rs : National Centre for the Replacement, Reduction and Refinement of Animals in Research

strategic partnerships with academia, industry, and regulatory bodies, the NC3Rs plays a pivotal role in shaping policy, validating new testing methodologies, and ensuring their adoption in regulatory frameworks worldwide. By funding projects like *Wings of Change*, the NC3Rs fosters the development of New Approach Methodologies (NAMs) that enhance scientific robustness, improve efficiency, and uphold the highest ethical standards. Its commitment to replacing, refining, and reducing animal testing is transforming the landscape of biomedical and toxicological research, setting new benchmarks for sustainable and humane science.

nc3rs.org.uk

For more information about Inovotion and its role in the *Wings of Change* “CRANE” project, write to contact@inovotion.com.

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