

# About Toxys

Toxys is a Dutch biotech company that offers a broad spectrum of innovative *in vitro* toxicology solutions. We are experts in the field of genetic and developmental toxicology with a focus on Mode-of-Action. We are dedicated to bringing relevant information to our clients on potential human health hazards of novel and existing drugs, chemicals and other substances.

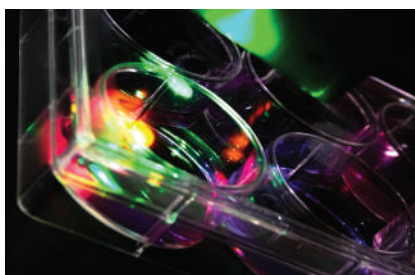
## Core technologies

Toxys has long-standing expertise in generating mammalian cell reporter systems. We have adopted and created a wide spectrum of reporters in various cell lines, including different stem cell lines. For reporter cell line generation, we apply various genome editing technologies, including standard gene promoter cloning, bacterial artificial chromosomes and CRISPR/Cas-mediated genome engineering. The expertise on reporter systems is complemented with the extensive experience in working with both mouse and human stem cells. The combination of these technologies has resulted in the development of ToxTracker and ReproTracker, our unique mechanistic assays.

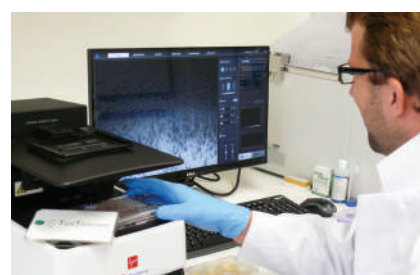
Genotoxicity



Developmental Toxicity



Cytotoxicity



ToxTracker® and ReproTracker® are high throughput stem cell-based reporter assays allow for reliable carcinogenicity and developmental toxicity hazard identification. The assays provide mechanistic insight into the reactive properties of chemicals and can be particularly useful in Adverse Outcome Pathway (AOP) approaches for chemical safety assessment.

*“At Toxys, we strongly believe in bringing high quality information to our partners and clients. The future for human safety assessment is not with simple tests that only provide a yes-or-no answers, but advanced in vitro models that provide reliable and relevant insight into the Mechanism-of-Action of novel chemicals and materials. We are committed to support our partners in understanding their latest compounds and in making the right decisions during R&D of novel products.”*

– G. Hendriks (CEO Toxys)

