

In Vitro Toxicology

Early *in vitro* toxicology studies provide insights into the toxicant activities at the fundamental cellular level without the interplay of complex physiological effects at the whole organism level, thus enabling researchers to isolate and better understand toxicity in specific tissue types or models.

Many drug development programs failed due to pre-clinical toxicity and adverse drug reaction. To accurately predict drug effects and toxicities in patients, innovative and clinically relevant *in vitro* toxicology screening methods are needed. These are key to decrease the attrition of novel drug candidates as they progress through the discovery and development phases.

Creative Bioarray is the ideal partner to assist you in understanding the toxicity of your compounds using a variety of techniques. We can identify compounds that have the optimal ADME and safety profile. Our focus on state-of-the-art technology and automation allows high-quality data to be generated rapidly and cost-effectively.

Our *in vitro* toxicology testing services include:

-  Cytotoxicity
-  Hepatotoxicity
-  Genotoxicity
-  Cardiotoxicity
-  Nephrotoxicity
-  Phototoxicity

Our *in vitro* toxicology testing services can be used to:

-  Prioritize candidates for the possibility of adverse effects
-  Identify the potential toxicity of lead candidates
-  Reveal toxicity mechanisms
-  Increase the likelihood of success in clinical trials with safer lead candidates

Creative Bioarray also has a team of experts with extensive experience designing studies to meet the specific needs of our clients.

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