



Genetic and Molecular Toxicology

For more than three decades, SRI International has been a leader in the fields of genetic toxicology and mechanisms of carcinogenesis. Many of the widely used genotoxicity tests were either developed or validated at SRI. Our staff members have been involved in the writing of many of the international guidelines for genotoxicity test methods. Major portions of the current databases of the Environmental Protection Agency (EPA) and the National Toxicology Program were developed at SRI. We have considerable experience in solving unusual genetic toxicology problems related to pharmaceuticals, biotechnology products, chemicals such as dyes and inks, agrochemicals, and medical devices.

Test Systems

SRI offers the following array of test systems, all in compliance with GLP regulations:

- Microbial mutagenesis assays including the Salmonella/microsome (Ames test) and E. coli mutation assays
- Mouse lymphoma gene mutation assay
- Transgenic rodent mutagenesis assays (Big Blue®)
- Chromosome aberrations in Chinese hamster ovary (CHO) and Chinese hamster lung (CHL) cells, human lymphocytes, rodent bone marrow, and spermatogonial cells
- Sister-chromatid exchange assays, in vitro and in vivo
- Micronucleus assays in bone marrow, peripheral blood, and various human cells
- Unscheduled DNA synthesis (UDS) in isolated hepatocytes from rodents or large animals or in human hepatocytes, following in vitro or in vivo treatment



Bridging the drug development gap

Molecular Toxicology

SRI offers a range of molecular toxicology services including mutation analysis, DNA sequencing, and quantitative RT-PCR for conducting tissue biodistribution studies of nucleotide products such as DNA vaccines. We can develop research and testing programs to determine mechanism of action of specific mutagenic products.

Automated Data Systems

Our laboratories utilize state-of-the-art computer data acquisition systems. Data summary for nearly all assays is performed automatically on completion of data collection, allowing rapid study turnaround.

You Make the Call

For further information, contact our Client Services Team:

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