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Toxicogenomics

National Cancer Institute

Source

National Cancer Institute. *Toxicogenomics*. NCI Thesaurus. Code C20179.

Toxicogenomics is a new scientific field that elucidates how the entire genome is involved in biological responses of organisms exposed to environmental toxicants/stressors.

Toxicogenomics combines information from studies of genomic-scale mRNA profiling (by microarray analysis), cell-wide or tissue-wide protein profiling (proteomics), genetic susceptibility, and computational models to understand the roles of gene-environment interactions in disease. (from National Center for Toxicogenomics homepage)