

Table S1. Types and Descriptions of Data Currently Stored in CEBS

Data Types	Description
Clinical Chemistry	Analysis of metabolites in blood
Enzymology	Tissue enzyme activity
Developmental	Observation of effects on the developing fetus e.g. implantation count, number of litter resorptions
Genetic Toxicology	NTP genetic toxicity testing assay e.g. micronucleus, Ames assays
Gross Observation	Observations made at necropsy
Hematology	Assays of blood cell number and characteristics
Histopathology	Histopathology data: microscopic neoplastic and non-neoplastic lesions
Immunology	Assessment of toxic effects on immune system and response
In-Life Observations	Observations of animals in life
Microarray	Microarray analysis
Nematode HTS	Medium throughput assays performed on <i>C. elegans</i>
Organ Weight	Organ weight data
PCR	Polymerase chain reaction analysis of gene activity
Pup Gross Observations	Observations made on pups at necropsy
Reproductive	Andrology, gynecology data and measures of reproductive success e.g. estrus stage, cycle length, sperm density, sperm motility
Respiration	Bronchial lavage or other measures of lung function
Tissue Burden	Levels of test articles in tissues
Tox21 HTS	In-vitro high throughput screening assays from the Tox21 Initiative
Urinalysis	Analysis of urine and metabolites in urine