

Genetic Variation in Tissue Responses to Low Dose Radiation

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- **Low dose radiation exposure has been implicated as both a risk and a benefit to health**
- **Results to date from this project suggest that genetic variation in humans, as modeled by inbred strains of mice, significantly impacts the response to low dose radiation exposures**
- **This project combines mouse genetics with high throughput microarrays to identify heritable factors that modify the gene expression response to 10cGy of whole animal irradiation**
- **Currently a bank of 1,939 exposed tissue samples from 5 tissues across 13 inbred strains of mice**
- **Results will impact understanding of variability of risk in humans**

