# Rebecca Fry, Ph.D.

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Rebecca Fry's lab focuses on understanding how environmental exposures are associated with human disease with a particular focus on genomic and epigenomic perturbations. Using environmental toxicogenomics and systems biology approaches, the lab aims to identify key molecular pathways that associate environmental exposure with diseases. A current focus in the lab is to study prenatal exposure to various types of metals including arsenic, cadmium, and lead. The aim is to understand molecular mechanisms by which such early exposures are associated with long-term health effects in humans. This research will enable the identification of gene and epigenetic biomarkers of metal exposure. The identified genes can serve as targets for study to unravel potential molecular bases for metal-induced disease. Ultimately, Fry's lab aims to identify mechanisms of metal-induced disease and the basis for inter-individual disease susceptibility.

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Research, Health Care - Facilities, Education/Learning

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Toxicology, Genetics, Epigeneitcs, Epidemiology, Public Health, Cancer Biology, Cell Biology, Health Education, Clinical Research

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**Tulane University**
Ph.D. Biology

**Tulane University**
M.S. Biology

**Hobart and William Smith Colleges**
B.S. Biology

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**Infinite Mile Award**
Awarded by MIT to teams and individuals for significant accomplishments in their departments, labs, or centers or in other DLCs with which they collaborate.

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