Environmental Toxicology

Research emphasis:

Dr. Meyer studies the effects of genotoxic agents on human and wildlife health. He is interested in understanding the mechanisms by which environmental agents cause DNA damage, the molecular processes that organisms employ to protect prevent and repair DNA damage, and genetic differences that may lead to increased or decreased sensitivity to DNA damage. Mitochondrial DNA damage and repair are a particular focus. He studies DNA repair and other responses to DNA damage via PCR-based analysis of DNA damage and repair, genomic and systems biology approaches, and organismal-level responses.

Application:

- Environmental Toxicology
- Mitochondria and Mitochondrial DNA
- Nanomaterials
- Caenorhabditis elegans

Collaboration potential:

- DNA repair to DNA damage via PCR-base analysis
- Genomics and system biology approaches
- Mitochondrial function and dysfunction

Selected publications:


