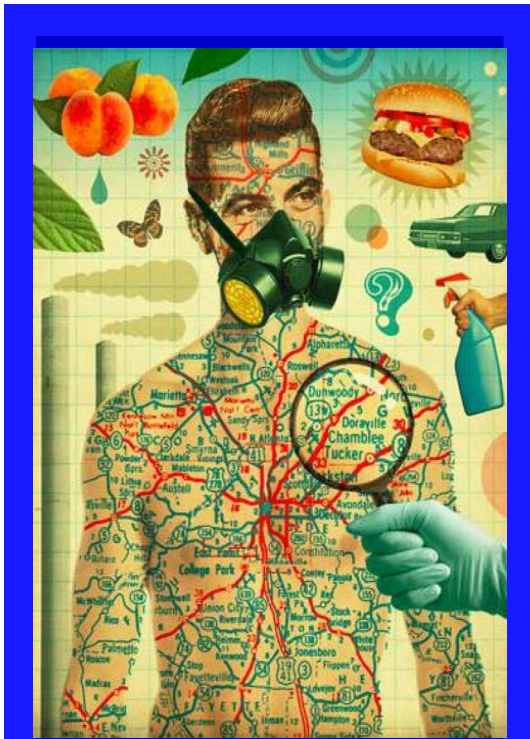


DNA structure discovered-1952  
Human genome sequenced-2003  
Human exposome.....?

## Genome, Exposome, and Health (HLTH485)

....exploring next steps in exposome research



SPRING 2015

FRIDAYS 1:00-2:50PM

2 credits

Gary W. Miller, PhD

Dean P. Jones, PhD

Expert scientists from  
Emory and elsewhere

Genetics can only explain a portion of human disease. Environmental factors and their interaction with our genetic make up comprise the rest, yet the environmental component has been underrepresented in research.

### *The exposome—the environmental equivalent of the genome*

The course will introduce students to emerging concepts and approaches for understanding human health and disease. Special emphasis will be placed on enabling technologies, integrating technologies and data management that can be used to address environmental influences.

Topics covered include:

- Human genome sequencing
- Epigenetics
- Complex exposures
- Detection systems
- Metabolomics
- Toxicogenomics
- Microbiome