

Diego Hernández-Saavedra

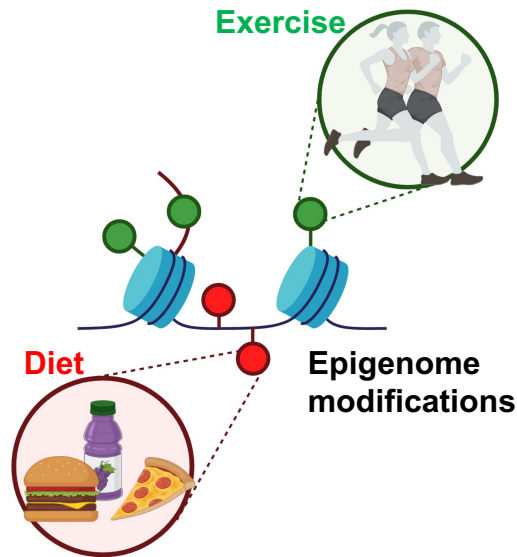
Assistant Professor

Department of Health and Kinesiology
[Affiliate Research Page](#)

Email: dhrndz2@illinois.edu

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Lifestyle factors such as diet and physical activity play crucial roles in shaping long-term health outcomes. Diet and exercise can induce lasting changes to the epigenome, potentially impacting future generations.



Keywords

Epigenetics, exercise, diet, lipidomics, lipid mediators, metabolic memory, intergenerational effects

Research Interests

- Elucidating the metabolic memory of exercise
- Determining the impact of parental exercise across generations
- Study of lipidomic signatures of health and disease
- Identify novel age-related lipid biomarkers

Current Projects

- Intestinal sphingolipids as mediators of age-dependent dysfunction
- Muscle and liver epigenetic memory of exercise
- Effect of paternal exercise on offspring metabolism

Interest Areas for Collaboration/Future Work

We are interested in analyzing multi-omic data including lipidomic analysis (structural and bioactive lipids) for the identification of novel biomarkers of aging, stress, and physical inactivity.