

Yuan-Xiang Pan

Professor

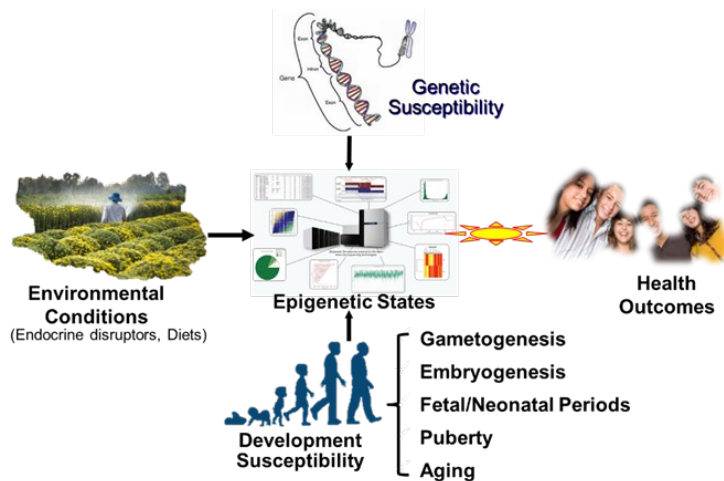
Department of Food Science & Human Nutrition

[Affiliate Research Page](#)

Email: yxpan@illinois.edu

Created: April 2024

My research focuses on discovering novel epigenomic mechanisms that control physiological functions and chronic disease processes. The long-range goal is to identify the adaptation of epigenetic modifications that will lead to individualized nutritional interventions to enhance human health.



Keywords

Development, chronic diseases, aging, epigenetics, personalized nutrition, environmental endocrine disruptors, early-life experience, biomarkers, mental health

Research Interests

- Diets influence the epigenetic status and probable effects on GI health
- Impacts of environmental chemical exposures on health outcome
- Gene expression analysis to discover novel biomarkers for personalized intervention

Current Projects

- Dietary pattern and longevity
- Macronutrients and inflammation
- Nutrient deficiency and depression

Interest Areas for Collaboration/Future Work

Dr. Pan is interested in working with researchers who works on developing multi-omics (genomics, transcriptomics, epigenomics, metagenomics, immune repertoire sequencing, single-cell and spatial omics) to enable the understanding of the disease mechanism and individualized nutritional interventions.