

## NTHRYS Offers PhD Assistance in Foodomics

Foodomics is an interdisciplinary field that integrates genomics, proteomics, metabolomics, and bioinformatics to understand the impact of food on human health, metabolism, and nutrition. At NTHRYS, we provide expert PhD assistance in Foodomics, guiding researchers in personalized nutrition, food quality analysis, and dietary biomarker discovery. Our mentorship ensures impactful research contributions in functional foods, food safety, and precision nutrition.

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### Research Areas in Foodomics

- Nutrigenomics and Personalized Nutrition
- Metabolomics in Food Quality Assessment
- Food Safety and Contaminant Detection Using Omics
- Proteomics in Functional Food Development
- Microbiome Analysis in Nutritional Science
- Role of Epigenetics in Dietary Responses
- Metabolic Pathways in Nutrient Utilization
- Food-Derived Bioactive Compounds and Their Health Effects
- Dietary Biomarkers for Chronic Disease Prevention
- Lipidomics in Food Science and Nutrition
- Advanced Mass Spectrometry for Food Metabolomics
- Transcriptomics in Functional Food Research
- Omics Approaches in Understanding Food Allergies
- Bioinformatics and Computational Foodomics
- Plant-Based Diets and Their Molecular Impacts
- Phytochemical Profiling in Functional Foods
- Impact of Probiotics and Prebiotics on Gut Health
- Nutraceuticals and Their Molecular Mechanisms
- Metabolic Engineering for Nutritional Enhancement
- Role of Antioxidants in Food and Health
- High-Throughput Screening for Food Safety
- Foodomics for Investigating Digestive Health
- Multi-Omics Approaches in Nutritional Epidemiology
- Glycomics in Food and Nutrition
- Foodomics for Studying the Effects of Fasting and Caloric Restriction
- Analysis of Protein Interactions in Foods

- Impact of Dietary Polyphenols on Gene Expression
- Toxicological Studies Using Foodomics
- Artificial Intelligence in Foodomics Data Analysis
- Comparative Foodomics in Processed vs. Organic Foods
- Nutritional Modulation of the Gut Microbiome
- Understanding Food-Drug Interactions Through Foodomics
- Metabolite Profiling of Fermented Foods
- Role of Foodomics in Age-Related Disorders
- Analysis of Foodborne Toxins Using Omics Approaches
- Identification of Nutritional Biomarkers in Blood
- Synthetic Biology Applications in Foodomics
- MicroRNA Expression in Response to Diet
- Metabolic Engineering of Probiotic Strains
- Multi-Omics Strategies in Alternative Proteins
- Precision Nutrition Based on Genetic Variability
- Impact of Omega-3 and Omega-6 Fatty Acids on Health
- Foodomics for Sustainable and Alternative Protein Sources
- Personalized Diets Based on Gut Microbiota
- Nutritional Epigenetics and Gene-Diet Interactions
- Omics Approaches in Milk and Dairy Research
- Metabolic Syndrome and Foodomics-Based Interventions
- Foodomics for Evaluating Plant-Based Nutrients
- Postbiotics and Their Functional Food Applications
- Nanotechnology in Foodomics
- Nutrient-Gene Interactions in Metabolic Disorders

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