Students are encouraged to include the following when inquiring about undergraduate research opportunities: 1) when they are interested in doing the research (i.e. – current semester, summer, etc.), 2) undergraduate major, 3) what year in school they are 4) previous experiences, 5) availability, and 6) contact information.

Additionally, faculty members receive a large volume of e-mails. Students are encouraged to follow-up on first messages and inquire with faculty members again if they do not receive a reply. They may simply have not had an opportunity to respond to the initial message.

This is not an exhaustive list of opportunities. If you find a research area you are interested in working, do not hesitate to contact the faculty.

**Jaume Amengual** (Atherosclerosis, obesity, nutrition)
The focus of our laboratory is to study the mechanisms that drive the development of atherosclerosis, the leading cause of cardiovascular diseases. We utilize animal and cell culture models to study how atherosclerotic lesions build up in the arteries and the causes of elevated cholesterol in the blood. **We are accepting students that can commit between 2 to 10 hours a week for at least 2 years.**

**Pratik Banerjee** (Food Safety and Microbiology)
Dr. Banerjee’s laboratory investigates how different environmental sources contribute to the contamination and spread of food commodities. We use molecular methods (such as PCR and qPCR) to rapidly detect pathogenic microorganisms and their genes (conferring virulence or resistance to antimicrobials) or toxins. We are also developing biosensors for the rapid detection of these pathogens. We have ongoing research projects and looking to recruit undergraduate students interested in gaining basic and advanced molecular microbiology laboratory skills and related data analysis, bioinformatics, microbiome/metagenomics, and next-generation sequencing. **The typical time commitment for these projects is 4-8 h/week, with interest for more than one semester (including summer). Openings start in April 2021.**

**Hong Chen** (Molecular Nutrition, Nutrient-gene Interaction).
The Chen lab focuses on understanding how foods/nutrients are sensed by cellular metabolic, signaling, and epigenetic pathways and how these responses shape our body during early development, disease development, and aging. Specific training includes analysis of gene expression, histological imaging and analysis, and big data analysis of various tissues and cells in animal models, human specimens, and cell cultures. **Currently accepting undergraduate students.**

**John Erdman** (Biochemical/Molecular Nutrition, Clinical Nutrition)
One focus of my laboratory has been to evaluate the effects of tomato and lycopene on the development and progression of prostate cancer using animal models. Another is evaluating the impact of lutein on brain and eye function. **Will consider accepting undergraduate students.**
**Zeynep Madak-Erdogan** (Clinical Nutrition)
Dr. Madak Erdogan studies how obesity drives chronic diseases like cancer and metabolic syndrome. We are using analysis of big data sets from ChIP-Seq, RNA-Seq, metabolomics experiments and various public databases, mouse models, and basic molecular and cell biology techniques. Interview and complete biosafety training are required. **Accepting 1 student who can contribute 10 hours/week that can commit for at least 2 years.**

**Manabu Nakamura** (Clinical Nutrition)
Dr. Nakamura’s lab has been developing and testing an innovative dietary weight loss program, **EMPOWER** to effectively treat obesity and associated comorbidities. Several undergraduate students have been involved with various aspects of ongoing projects. Typically, a commitment of 3-6 hours per week for 2 years is expected. **All openings for fall are already filled, but may become available in spring 2022. If you are interested, please apply before the end of this fall semester.**

**M. Yanina Pepino** (Ingestive Behavior)
Research in Dr. Pepino laboratory focuses on the analysis of individual differences in human taste perception and preferences, with an emphasis on sensory control of food and alcohol consumption. Dr Pepino's overall goal is to establish a research program that integrates analyses of taste perception with nutrient metabolism and the impact of dietary choices on health and disease. By using a combination of psychometrically sound validated sensory assessment methods, and metabolic research methods, we are currently studying: a) the effects of bariatric surgery-induced weight loss on flavor perception, eating behavior and alcohol drinking; b) the effects of non-nutritive sweeteners on taste preferences and glucose homeostasis;c) fat taste perception;and d) taste dysfunction in cancer survivors. **We are considering accepting students who will be committed to work for at least 8 hrs. per week, for at least two years. Interview and complete biosafety training are required.**

**Melissa Pflugh Prescott** (Public Health Nutrition, School Nutrition, Food Waste)
Dr. Prescott studies how policy, system and environmental strategies can improve diet quality and/or promote environmental stewardship. One project we will be seeking undergraduate assistance for in Spring 2022 is Nourish, a cooking curriculum focused on food resource management behaviors. Interested students should send an email and their resume to, Shelly Palmer (smpalmer@illinois.edu) and copy Dr. Prescott (mpp22@illinois.edu). Please visit mpp.fshn.illinois.edu for additional information on research in Dr. Prescott’s lab. **We are considering students for Spring 2022 who are able to commit an average of 5 hours per week for at least one semester.**

**Yi-Cheng Wang** (Food Safety and Engineering)
Research in Dr. Wang’s laboratory focuses on developing engineering approaches to improving food quality and safety, mostly involving nanotechnology, bio-sensing, and smart packaging. We will provide students with training opportunities in engineering, chemistry, materials science, and microbiology in the course of participating in specific projects relevant to the above topics. Interested students should send their resumes when inquiring. Interview and complete biosafety training are required. **We are currently accepting students who will be committed to work for at least 8 hours per week, for at least one semester.**
Related resources:

Office of Undergraduate Research
Safety Guidelines and OUR Operational Updates

FSHN 195 Introduction to Undergraduate Research
Learn about research opportunities available to undergraduate students in the FSHN department, and find a laboratory that fits a student’s interests and education goals. Guest faculty members present research opportunities in their laboratory and then give a laboratory tour for students to learn more about the research activities there. Approved for S/U grading only. Offered in the spring semester.
https://courses.illinois.edu/schedule/terms/FSHN/195

ACES Undergraduate Research Scholarship Program
A $500 scholarship plus up to $1,000 for research expenses. Applications will be reviewed on a rolling basis
http://academics.aces.illinois.edu/honors/undergraduate-research