

PhD Position

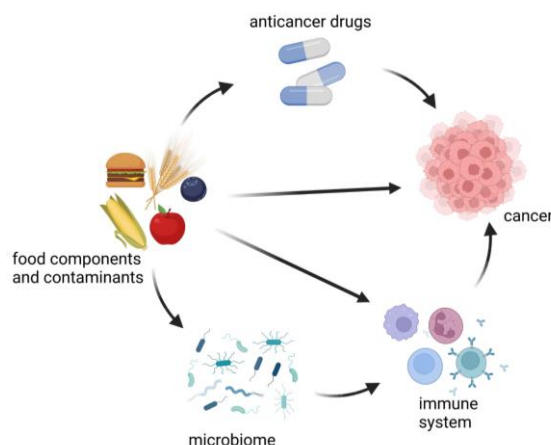
Department of Food Chemistry and Toxicology

Food-Drug Interactions

We are searching for a highly motivated PhD student (3 years, 30 h/week) who is interested to investigate food-drug interactions, with focus on effects of food components and contaminants on anticancer therapies, in an interdisciplinary setting. Our diet does not only affect our health and risk for cancer, but can also alter the efficiency of anticancer therapy. Consequently, in this project, we will screen for possible adverse or beneficial combinatorial effects between food components and contaminants (such as mycotoxins or berry extract) with anticancer therapies (e.g. triapine, oxaliplatin, cisplatin) in cell culture (using cancer cells as well as non-cancerous cell models). Follow-up investigations will elucidate the molecular mechanisms of interactions between food components or contaminations and anticancer therapies. Thereby, effects on the immune system, reactive oxygen species production, metabolism, DNA damage and microbiome will be evaluated with diverse biochemical methods. The project will be conducted in the group of Prof. Doris Marko and in close cooperation with the Center for Cancer Research from the Medical University Vienna.

Requirements:

- ✓ Knowledge in cell culture and biochemical methods
- ✓ Good written and oral communication skills in English
- ✓ Interest in food-drug interactions
- ✓ Accurate and cooperative working style and independent problem-solving skills
- ✓ Enthusiasm for research



Interested students should send their application (letter of motivation, detailed curriculum vitae, degree certificate, a brief synopsis of master thesis and letter of recommendation) via email to:

Contact: **Sonja Hager, MScTox, PhD**
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Starting Date: Autumn 2022