

Theme name

Food quality

Theme description

Our studies on food quality embrace research activities from farm to fork. We investigate the impacts of management practice and fertilization strategy on the nutritional value of plant-based foods from various plant production systems. This includes organic and conventional agriculture as well as urban farming systems. We conduct studies at field scale, in greenhouses/climate chambers and collaborate with companies specialized in hydroponics and aeroponics.

Food authentication is a major focus point within our food quality activities and it represents a rapidly growing discipline both nationally and internationally. We have developed analytical methods for authenticating the geographical and agricultural origin of a variety of plant products and have documented systematic differences in the isotope signatures of organic versus conventional crops. We currently investigate the underlying biological mechanisms controlling these differences and collaborate with industry partners and authorities on implementation of our methods.

