Abstract

Juice processing and winemaking result in significant amount of bio-residuals, named “pomace”. Fruit and wine grape pomace contain a large amount of bioactive compounds including polyphenolics, dietary fibers, smaller amounts of proteins and minerals, and some remaining juices with acids, sugars, and other soluble substances. Disposal of pomace has been a burden for the industry since the direct disposal of pomace into soil or landfills can pose potential environmental problem, thus inhibited. Fruit and wine grape pomace may be utilized for various value-added applications, including as functional food ingredient in a wide range of food products for promoting human health and extending product shelf-life, as fermentation substrates, extraction of the bioactive compounds, and making into biodegradable packaging materials. Through technology innovation, the tons of waste product from being a burden can be transformed to becoming a valuable source of revenue for the juice and wine companies. This presentation will describe our studies in the recovery of the bioactive compounds from fruit and wine grape pomace, and provide an overview on the bioactive compounds in pomace, economically feasible methods to dry wet pomace for long-term storage, and examples of utilizing pomace as functional food ingredients and bulk material for developing biodegradable packaging materials.

Host: Dr. Yang Hongshun   Date: 21st May, 2019, Tuesday
Time: 11am to 12pm   Venue: Executive Class Room S8-03-14

About the speaker

Dr. Yanyun Zhao is a Professor in the Department of Food Science & Technology and an Associate Dean in the Graduate School, Oregon State University (OSU). Dr. Zhao's research effort is in the area of value-added food processing by utilization of novel food processing and packaging techniques, and development of value-added applications of food and agricultural byproducts. She is internationally known expert in the development and characterization of edible films/coatings and biodegradable packaging products made from agricultural byproducts.