



GESELLSCHAFT DEUTSCHER CHEMIKER
ORTSVERBAND HANNOVER

Einladung zum GDCh-Colloquium des Ortsverbandes Hannover

Das Colloquium findet um 17h c.t. im Dr.-Oetker-HS (Raum 007, Gebäude 2504) der Leibniz Universität Hannover, Institut für Physikalische Chemie und Elektrochemie, Callinstraße 3a, D-30167 Hannover statt.

26.10.2023 **Prof. Dr. Esra Çapanoğlu Güven**
Institut für Lebensmittelwissenschaft & Humanernährung LUH

Effects of Food Matrix and Processing on Bioactives in Agricultural Products

Food bioactives have been gaining great interest since they have numerous health benefits such as antioxidant, anticancer, anti-inflammatory, antibacterial, anti-allergic, anti-hypertensive, antiviral and wound healing effects. However, bioavailability and thus the health effects of bioactives depend on a variety of factors, one of which is the food matrix. Interactions within food matrix components is a complicated phenomenon that needs to be explored in detail to ensure utmost positive health effects to humans. In the literature, there are several studies focusing on the effect of different food components on the content and bioavailability of different bioactives. On the other hand, it has been also recognized that the content and bioaccessibility/bioavailability of bioactives present in foods may significantly change during processing. Despite the previously published data on the negative effects of processing on food bioactives, several recent studies have reported that compounds possessing antioxidative effects, may occur in increased quantities and with enhanced bioavailability following food processing protocols which involve e.g. moderate heating or enzymatic disruption of cell walls. Therefore, the exact effect may be managed by a combination of the processing strategies used, in association with the specific biochemical composition of the components within the food matrix. In this presentation, the effects of food matrix and different food processing methods including the non-thermal applications on the bioactive components present in agricultural products will be covered.

Prof. Dr. Jens-Uwe Grabow
Vorsitz OV Hannover

Vor dem Vortrag findet eine ‚Kaffeerunde‘ in der Bibliothek des PCI statt.