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The Chemical Sensory Informatics of Food: Measurement, Analysis, Integration (Hardback)

By -

Oxford University Press Inc, United States, 2016. Hardback. Book Condition: New. 229 x 176 mm. Language: English . Brand New Book. Food chemicals provide a variety of information. They inform us of food safety, quality, authenticity, and origin, with direct links to our emotional responses in many cases. This information is key to our survival, whether to avoid disease or to find nutrients, and our enjoyment. Those involved with food production, processing and testing strive to better understand how food chemistry and oral processing provide information about food. Ideally, chemical analytical instrumentation and sensors could be developed to measure, analyze, and predict the chemical sensory information of food. While many research groups endeavor to develop such systems, recent research confirms that the information obtained by humans during food interaction and eating involve extremely complex interactions between the sensory stimuli and the information processes they invoke. Simple chemical analysis of the content of selected stimulants in food will likely not allow the prediction of the total information content that is desired. There is a longstanding need to better understand the generation of complex human sensations produced by food during eating and how they are integrated and translated into perceptions of food...



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