Organized Session 15

Prediction and Evaluation the Microbial Safety and Quality of Food

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Concept of Organized Session

Microbiological food safety is one of the most important qualities of food as well as organoleptic and nutritional ones. Since evaluation of the quality of food just before the consumption would not be realized in most cases, the prediction of the safety and quality of foods will play a key role in a real situation. The prediction technology for microbial behavior including growth and death, and for quality of fresh fruits such as freshness and maturity are developing on the basis of highly sophisticated computational methodology. This organized session aims to share and discuss the state-of-art of the predictive modeling methodology for microbial behavior as well as for changes in food quality by using non-destructive quality evaluation methods and various data handling procedures.

**Keywords:** predictive model, spoilage, non-destructive evaluation, machine learning, freshness