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Czech J. Food Sci.

Ghasemi-Varnamkhasti M., Mohtasebi S.S.,

**Siadat M., Kazavi S.H.,
Ahmadi H., Dicko A.:**

Discriminatory power assessment of the sensor array of an electronic nose system for the detection of non alcoholic beer aging

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Many chemical changes in beer aroma occur during storage (aging), and monitoring these changes could give guidelines to the brewers how to manage and control the brewing process to obtain the final product with a high stability in flavour after packaging. In this regard, our laboratory aimed at a research into the application of an electronic nose in order to get the fingerprint of the change of non alcoholic beer aroma during aging. The discriminatory power of the sensor array of this system was evaluated. Principal

Component Analysis (PCA) and Soft Independent Modelling of Class Analogy (SIMCA) techniques were used for this purpose. The results obtained can direct us to performing other parts of our project. Considering the discriminatory power of the sensor array used, we can develop the application of a specific electronic nose system by picking up the most effective sensors or ignoring the redundant sensors.

Keywords:

electronic nose; chemical change; storage; beer; aroma; food; PCA

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