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Satisfaction is suggested as a holistic response variable when measuring consumers’ hedonic food appreciation. However, “satisfaction” is a relatively new term within sensory science research. Thus, knowledge is needed about how to interpret the term, and about which factors that influence consumers’ degree of intake related food satisfaction. The main purposes of this PhD project were:

1) to contribute with a theoretical understanding of “food satisfaction” to be used prospectively within sensory science research
2) to develop a method measuring: consumers’ degree of intake related satisfaction and factors influencing food satisfaction
3) to use the method in case studies

Definitions of “satisfaction” which previously had been used within sensory science were analysed according to three factors: type of response, focus in the response and timing of the response. The analysis showed that “satisfaction” could be regarded an affective response to food. The focus of the response varied between definitions. In addition to focus on the intake experience, the food was evaluated based on intake induced physical- and psychological well-being related sensations, and the context in which the food was eaten. The timing of the response varied between definitions. One definition did not imply when to measure satisfaction, others implied that satisfaction could be measured after intake. The analysis of the satisfaction terms was employed to develop working definitions of satisfaction which should be used prospectively in the PhD project; a definition of “sensory satisfaction” and a definition of “food satisfaction”. In “sensory satisfaction” focus was on the foods sensory properties. The definition of “food satisfaction” could be regarded “broader” in the sense that a holistic approach was used. The food was evaluated with focus on the context in which it was consumed, and intake related physical- and psychological sensations.

Focus group interviews were used to initiate the study of factors influencing food satisfaction among consumers. Results from the focus group studies showed that factors within the categories “product”, “person” and “context” influenced consumers’ degree of “food satisfaction”. Further, a temporal perspective was indicated, regarding when each factor was relevant for food satisfaction. Some factors were present before intake, whereas others became relevant during- and after intake. The results from the focus group interviews formed the basis of the development of a set of questionnaires; to be answered by consumers before-, during- and after food intake. The development questionnaires were further based on: the work on analysing the satisfaction terms and a model of factors affecting food choice and behaviour, developed by Jos Mojet. In addition to measure consumers degree of “sensory-” and “food satisfaction” the questionnaires were used to measure factors influencing “food satisfaction”. The questionnaires were developed so that they could be applied on a broad range of foods.

The set of questionnaires were used in three product cases; a consumer study on creamy chicken soups, a consumer study on yoghurt with/mueslis, conducted in a lab context and a natural context respectively, and a consumer study on cherry-apple fruit drinks. The study on creamy chicken soups utilised the original set of questionnaires. For the study on yoghurt with/mueslis, an extra questionnaire was included, to measure influential factors in food satisfaction one hour after intake. Finally, for the study on fruit drinks, a set of questionnaires were developed with increased focus at physical well-being related sensations. Objective sensory analysis was conducted on products included in each consumer study. To study sensory attributes influential in sensory satisfaction, the results from sensory analysis was related consumers rating of “sensory satisfaction”.

In each consumer study, data was analysed to find factors influential in food satisfaction. Overall, the consumer studies showed that factors within the classifications: “product-person interrelated-”, “person related-” and “context related-” factors, influenced food satisfaction. Though the concrete factors varied between studies, several factors were repeatedly found influential in food satisfaction. Among those were: “sensory satisfaction”, “reason for ending intake”, “hunger”, “fullness”, “product performance compared to expectations”, “general liking of food type”, “energy level after intake”, “age” and “BMI”.

This PhD project contributes with a theoretical description and discussion of; the terms “sensory satisfaction” and “food satisfaction”, how the terms can be used within sensory research and influential factors in food satisfaction. “Sensory satisfaction” can be used as an alternative to the traditionally used response variable “overall liking”, where focus is at the hedonic experience of the foods sensory properties. However, more studies are needed to clarify how “sensory satisfaction” is different from “overall liking”. “Food satisfaction” can be used as a holistic term for food appreciation. In order to be able to generalise the results found in the present PhD project, studies are needed which utilise a broader range of products within the same food category, as well as studies that compare results between food categories.