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**ABSTRACT**

Building food rheology–sensory relationships allows food scientists to predict textural attributes from instrumental measurements. However, these relationships can be difficult to determine due to the complex composition, structure of the food, as well as the difficulties in accounting for the changes to the food during oral processing. Novel rheological and sensorial analyses are working towards a better understanding of food structural breakdown, bolus development, and the associated properties and attributes of the food as it undergoes these changes. These analyses are uncovering some of the key unknown information about food behaviors during oral processing, allowing progression towards a universal set of rheological–sensory relationships.

**KEY WORDS**

Rheology, sensory, rheology-sensory relationships, texture, oral processing

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