



# Imaging detection of food fraud practices

From 2017-2020 | Total budget € 80,000

Food fraud is a problem worldwide, both in scientific and industrial fields, because of its impact on human health and economic reasons. Thus, new technologies based on imaging stand out due to their simplicity, cost-effectiveness, and ability to supply a lot of information.

In Brazil, we have developed new methods to detect milk fraud combining spot test analysis to digital imaging acquired with smartphones or even visual inspection. We have demonstrated that it is possible to determine milk fraud and also classify this product as conforming or non-conforming according to the current standards for milk quality.

At WUR, the objective is to develop a strategy to identify fraud in ground spices, mainly cinnamon, as well as to define a standard pattern (fingerprint), in order to make the identification of fraud easier and faster. Portable hyperspectral imaging technology will be used for this.

This work is being developed together with an interdisciplinary team in Brazil (Prof. Fábio Rocha, Dr. Liz Bueno, Bianca Godoy, Isabela Gonçalves, and Luís Cláudio Martins) and this is the first collaboration of our group with WUR researchers Prof. Saskia van Ruth and Dr. Sara Erasmus.

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