# ASPETTANDO LA NOTTE EUROPEA DEI RICERCATORI







## Mara Antonia Gagliano

**Dept. of Agricultural and Food Sciences** 

PhD Program: Agricultural, Environmental and Food Sciences and Technologies Cycle XXXVIII

Supervisor: Prof. Enrico Valli;

co-supervisors: Prof. Francesca Soglia & Prof. Francesca Patrignani



### Background

Human sense perception can be combined with "artificial senses" based instruments, which have been applied for e.g. quality control, freshness monitoring, shelf-life study and authenticity

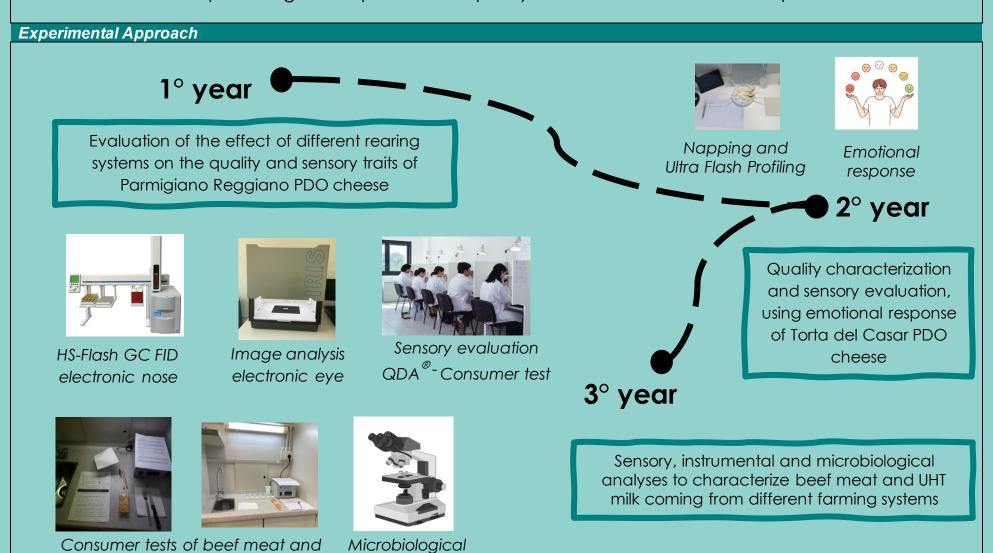
evaluation of food products

The **electronic / chromatographic noses**  $\rightarrow$  sensors / detectors to investigate volatile profiles

The **computer vision systems** (CVS) → analyzes visual properties of food

#### Project Goals

The PhD project aims to **explore** the **effect of farming system** on the quality of foods of animal origin, adopting a **multidisciplinary approach** relying on the use of **sensory**, **microbiological**, and **instrumental data** for providing a comprehensive quality assessment of the selected products



## Expected Outcomes

**UHT** milk

This multidisciplinary approach could be useful for food sector, with the aim of developing safe, authentic and high-value foods that meet specific consumers' preferences

analysis

