



## **Curriculum vitae**

Family name: Massaro Given name: Selene

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Place of birth: Dolo, Venezia



## **Education:**

- PhD in Animal and Food Science, University of Padua (2021-)
- M.Sc. Master's in Animal Science and Technology (2019-2021)
- B.Sc. Bachelor's in Animal Science and Technology (2016-2019)

## Research areas:

- Animal feeding and nutrition
- Dairy cows
- Milk quality

## PhD project:

Enteric fermentation contributes meaningfully to the total greenhouse gas emissions (GHG) of the agricultural sector. The reduction of these emissions has the double benefit to reduce the impact of the livestock sector on the environment and to increase the efficiency of feed conversion into meat and milk products.

Nutritional strategies proposed to reduce emissions include feeding ruminants

with aromatic plants, oil extracts and active compounds to manipulate microbial

activity and to interfere with the fermentation processes that lead to methane

synthesis.

Furthermore, these additives can be useful for improve animals' health and can

change the smell and taste of milk products.

The aim of this Ph.D. project is:

To develop a simple, economic, reliable, and repeatable in vitro methodology

to study rumen microbial fermentations and to measure the methane potential

of rumen fluid collected from animals fed with different diets:

- To test different aromatic plants as ingredients for dairy cow diets and study

in vivo and in vitro their potential effects on rumen fermentation pathway and

methane emissions, on cows' health, on milk production and quality (i.e.

chemical composition, fatty acid profile, flavor, presence of benefic molecule

for human health), and on cheese quality.

**Supervisor:** 

Professor Franco Tagliapietra

**Publications:** 

https://www.researchgate.net/profile/Selene-Massaro