



First name/Surname: Silvia Magro  
Telephone: +39 3661370182  
E-mail: silvia.magro.1@studenti.unipd.it  
Nationality: Italy  
Date of birth: 04/06/1997  
Place of birth: Padova, Italy

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#### Education:

- PhD student in Animal and Food Science (2022- )
- Master student in Animal Science and Technology (2019-2021)
- Bachelor student in Animal Science and Technology (2016-2019)

#### Research areas:

- Dairy cow
- Udder health
- Intramammary inflammation identification

#### Brief description of Ph.D project:

My PhD project will focus on udder health and intramammary inflammation in bovine. Although efforts have been put to improve udder health, mastitis is still one of the most impacting diseases occurring in lactating cows, causing temporary as well as permanent economic losses for the farmer. Recently, selective dry-cow therapy protocols have been proposed to limit antimicrobial use in livestock. For this reason, accurate identification of suspicious and infected

quarters is now a priority in dairy farms. In the present project, milk will be collected from cows located in commercial herds and major pathogen(s) responsible for inflammation will be isolated and identified, e.g. through bacteriological cultures or polymerase chain reaction. Udder health status in these animals will be also assessed with indirect biomarkers such as electrical conductivity, somatic cell count and differential somatic cell count. Finally, the pattern of such biomarkers (in addition to the pattern of milk yield) will be evaluated according to the pathogen(s) present. The main goals of my PhD project are i) to identify sets of variables useful to accurately identify quarters to be treated with antibiotics and ii) to explore the concept of mammary gland resilience.

Supervisor: Massimo De Marchi

Co-supervisor: Angela Costa

Publications:

Google scholar link: [https://scholar.google.com/citations?hl=it&user=xDNP\\_\\_8AAAAJ](https://scholar.google.com/citations?hl=it&user=xDNP__8AAAAJ)