# Carolina Ferrari


KEY-WORDS:
HEAT STRESS · GENETICS · EPIGENETICS · DAIRY CATTLE

## PROFILE

I am a first-year PhD student in Animal Science, specializing in heat stress in dairy cattle.
I'm a hard worker, giving my best in stressful conditions.
I love teamworking and with this experience I am learning the importance of a good and close-knit team.

## AFFILIATION

Department of Animal science, Food and Nutrition (DIANA)
Università Cattolica del Sacro Cuore

## LANGUAGES

Mother language

Mother language

Level B2

## HOW TO REACH ME

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## PROJECT TITLE

**Advanced modelling of genetic resilience patterns to temperature-humidity rise in the Friesian-Holstein dairy cow breed**

### Steps of the research

- Selection of a group of best and worst responder cattle to heat stress based on production, milk quality and fertility parameters in stressful conditions;
- Genetic and Epigenetic analisys, searching for genetic/epigenetic marker linkable to heat stress resilience;
- Research for an epigenetic component and genetic traits imposed by the animal's foetal life.

### Main Results

The ability to select for heat stress resilient dairy cattle to reduce losses and health problems due to stressful Ambiental conditions.

### Research Contribution

The information obtained by this study can be very useful to help animals coping with stressful climatic conditions that more and more affect our planet. This kind of study can be a first step for a more punctual selection in terms of heat stress resilient dairy cows.

### Collaborations

Maccarese S.p.A. – 2022
Università degli Studi della Tuscia- DAFNE
Prof. U. Bernabucci

## Why should you care?

Climate Change is a reality that no one can ignore.
Severe heat conditions and long heat waves hardly affect dairy cattle's health and production.
With the worsening of climatic conditions and increasing temperatures we all are expected to cope with, a focus on dairy cattle is fundamental to reduce productive and economic losses, and moreover to promote animal's health and fertility.