

Francesca Ghilardelli

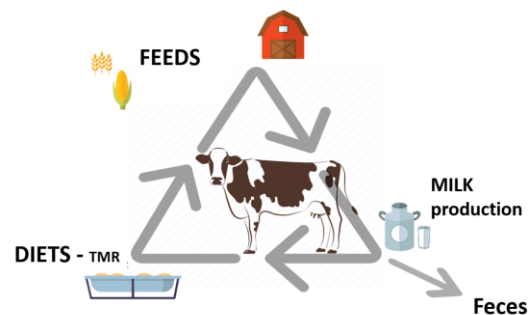


KEY-WORDS:
 FORAGE QUALITY · FEED EFFICIENCY ·
 NIR CALIBRATION

PROJECT TITLE

Application of multivariate or machine learning statistical techniques to cluster diets and forage quality and relate this to feed efficiency and milk quality

Steps of the research



- **Observational study:** data from farm, forage, diets, feces and milk
- **Laboratory analysis** to characterize different feeding strategies
- Processing with **multivariate statistics** to study the interactions between ingesta, excretion, and milk production and quality
- **NIR calibration** development for quality/quantity parameters

PROFILE

Passionate about working both in the laboratory and in the farm with the aim to link these different aspects of research and applicability in the context of dairy cattle nutrition and management

AFFILIATION

Department of Animal science,
 Food and Nutrition (DIANA)
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LANGUAGES



Mother language



Level B1

HOW TO REACH ME

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Main Results

Dairy farms clusterization on the basis of different nutritional strategies, production efficiency and quality and/or safety of feeds.

Research Contribution

This type of study would allow to relate qualitative information and health of farm feeds to nutritional efficiency. Moreover, by relating this information with NIR spectra, it is possible to quickly provide farmers with solutions to improve milk production and farm management

Collaborations: UniSS, AgroParisTech-INRA