

A - Informazioni generali

CIP

EZMYHI

Codice Interno Proposta

Proponente

NATALELLO, ANTONIO - DI3A

Il ricercatore che registra la proposta.

Stato

Inviata

Ambito

NAZIONALE

Scadenza Interna

01/06/2026

Acronimo

RUMINEXT

Titolo

Next-Generation Circular Feeding Strategies for Sustainable Ruminant Production

Descrizione

Traditionally, agro-industrial by-products have been used in animal feeding as low-value resources. Today, the transition toward a circular economy is creating new opportunities to valorize these materials as sustainable feed ingredients for livestock. Former foodstuffs and plant-based residues from agri-food industries can contribute to a more efficient food–feed system by reducing waste and providing valuable nutritional and bioactive compounds without requiring additional natural resources.

The RUMINEXT project investigates the use of biomasses derived from vegetable processing and other Agri-Food Streams and Leftovers as alternative feed resources for ruminants. The project aims to develop innovative feeding strategies for dairy and meat-producing animals by partially or fully replacing conventional feed ingredients, with particular focus on reducing dependence on imported energy and protein sources that compete with human food resources.

The research will evaluate the effects of these feeding strategies on animal performance, rumen health, welfare, methane emissions, feed safety, and product quality, while also assessing environmental and economic sustainability through LCA and LCC approaches. A socio-economic component will further explore stakeholder acceptance, market potential, and willingness to pay for more sustainable feed solutions and animal-derived products.

RUMINEXT brings together six Italian universities — Università degli Studi di Catania, Università di Bologna, Università degli Studi di Milano, Università Cattolica del Sacro Cuore, Università degli Studi di Perugia, and Università degli Studi di Sassari — fostering interdisciplinary collaboration and supporting the training and professional development of early-career researchers in sustainable animal production and agricultural economics.

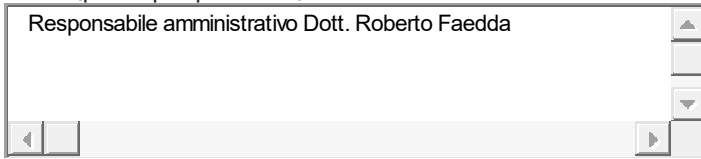
Bando Di Riferimento

PRIN 2026

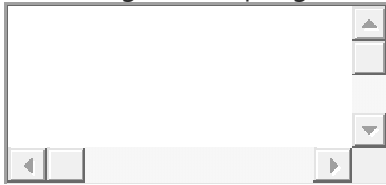
B - Durata e macro parametri finanziari

Note (per il proponente)

Responsabile amministrativo Dott. Roberto Faedda

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Note Integrazione (per gli uffici)

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