



# PROREFINE

## Lucerne and red clover

## Research project

### How do forage legumes contribute to organic livestock farming?

- Using novel harvesting and biorefining techniques, forage legumes can be converted into protein- and fiber-rich fractions
- Leaves and pressed juice can be a protein source for monogastric animals such as pigs and poultry
- Mechanical pressing may increase the digestibility of the fibre fraction in forage legumes that can be converted to valuable feed for ruminants
- By utilising locally available feed resources such as forage legumes, the dependence on imported animal feeds may be reduced making organic livestock farming more sustainable

### Refined forage legumes as local sources of protein feed for monogastrics and high quality fibre feed for ruminants in organic production

- Duration: 05-2018 to 04-2021
- Total budget: 1.37 mill. €
- Six countries, seven institutes and one industry partner
- Coordination: NIBIO, Norway
- Financial support for this project is provided by funding bodies within the H2020 ERA-net project, CORE Organic Cofund, and with cofunds from the European Commission



Photo:  
Steffen Adler

**Processed forages legumes can increase self-sufficiency in organic animal husbandry**



Scan me!

### Read More about ProRefine

Further information can be obtained from the project coordinator Steffen Adler (NIBIO) [steffen.adler@nibio.no](mailto:steffen.adler@nibio.no)

## New methods for producing high quality feed locally

A CORE Organic Cofund project



# PROREFINE

## INRA

Institut National de la Recherche Agronomique, France

**TRUST'ING**, France

## UCSC

Università Cattolica del Sacro Cuore, Italy

## AU

Aarhus University, Denmark

## NIBIO

Norwegian Institute of Bioeconomy Research

## Ruralis

Institute for Rural and Regional Research, Norway

## SLU

Swedish University of Agricultural Sciences

## IARTC

International Agricultural Research and Training Center, Turkey

## Aim of ProRefine

**Gain new knowledge about local production of protein feed for monogastric animals in organic farming**

- Converting lucerne and red clover crops into protein-rich and fibre-rich fractions
- Preserving the feeds
- Feed values of the fractions for monogastric animals and ruminants
- Concepts of local food systems adapted to different regions
- Farmers' attitudes towards self-sufficiency and cooperation
- Disseminating of results from the research project through a participatory approach

## Participants



Press screw. Photo: Aarhus University



Photo: Norsvin



Leaf stripping. Photo: TRUST'ING – ALF'ING