

Master's thesis: Grass-based protein production—opportunities for farmers (Empirical analysis)

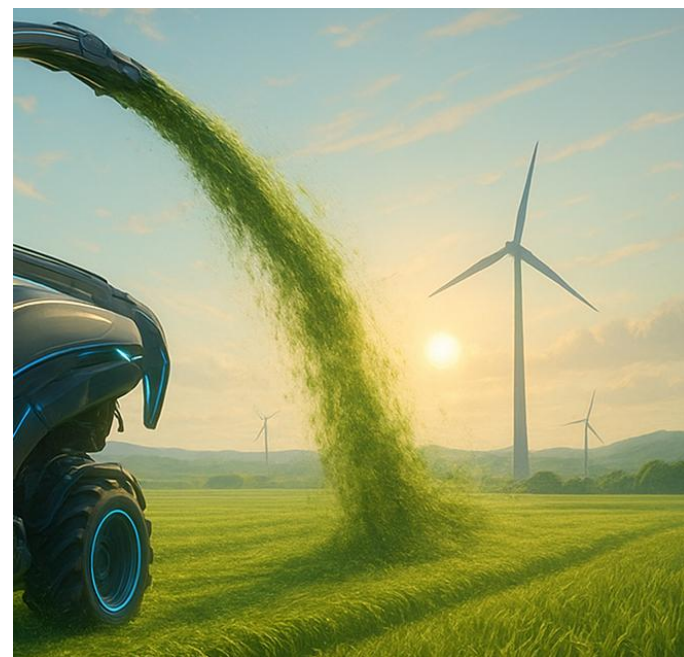
Little is known about grass-based protein production as an alternative for grassland or arable land use

Grass-based protein production means growing specific grass species, either on grasslands or arable land and to extract proteins in a novel process. The grass-based protein can be used for animal feed and for human consumption. It appears as a promising sustainable path to use grasslands, improve C storage in soils, replace livestock protein feed from imports and strengthen food security (Malila et al. 2024).

However, little is known about:

→ **Farmers' perceptions on grass protein production**

→ **Facilitating conditions to switch/invest into new technologies for grass-based protein production**



Potential Master Thesis Topics

1st: What are farmers' perceptions on grass protein production for animal feed and human food?

2nd: What are facilitating conditions for farmers to adopt grass-based protein production?

Methods

- Farm (online) questionnaire surveys, interviews or content analysis using Large Language Models
- Systematic literature review
- Discrete choice experiments

We offer

- Supervision by experienced researchers
- Support in research design, data collection, data analysis, and thesis writing
- Flexibility in research methods
- Stimulating work environment
- Close collaboration with Grünlandzentrum in Niedersachsen



Contact and supervision

Dr. Xiuhao Quan (xiuhao.quan@uni-goettingen.de); Prof. Silke Hüttl (silke.huettel@uni-goettingen.de)

Reference

Malila, Yuwares; Owolabi, Iyiola O.; Chotanaphuti, Tanai; Sakdibhornssup, Napat; Elliott, Christopher T.; Visessanguan, Wonnop et al. (2024): Current challenges of alternative proteins as future foods. In NPI science of food 8 (1), p. 53. DOI: 10.1038/s41538-024-00291-w.

This study is within the framework of the ZERN project.
For more information please visit <https://zern-verbund.de/>