

Background

It is well documented that perennial crops are effective in preserving and building the soil's organic carbon stocks and are also associated with lower input requirements and better environmental outcomes.

A barrier to the wider adoption of perennial cropping systems is that all traditional cereal varieties are annual. Perennial rye, originating from crosses between cultivated rye and wild perennial rye, is a strong candidate for a perennial cereal that could be implemented within a few years.

Purpose

The project purpose is to introduce organic cultivation of perennial rye in Denmark.

Aurion will conduct pilot trials on organic farms and evaluate the bread grain quality. The results from these experiences will be compiled to help target future research efforts. Furthermore, trials will be conducted at Aarhus University with the aim of developing improved cultivation strategies.

Aarhus University will also undertake a pre-breeding effort to provide useful traits for further variety improvement.

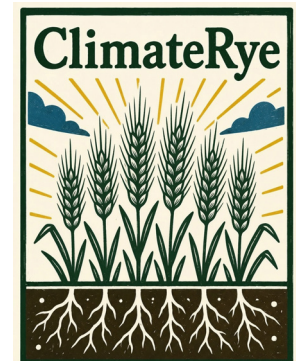


ClimateRye

Cultivation systems and genetic resources for climate-friendly perennial rye

The project step-by-step

- Test state-of-the-art perennial rye with organic farmers
- Assess the suitability of the product as bread grain
- Develop optimised organic cultivation systems
- Develop genetic resources for key agronomic traits



ClimateRye

More about the project

icrofs.dk/climaterye

Project period

2026 - 2029

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Project partners

- Aarhus University
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- Aurion A/S