COUNTRY: GBR TYPE: print

PAGE: 6 AVE: £361.00

SURFACE: 39.00 %

AUTHOR:

> 2 June 2025 at 0:00

New study to identify nutritionally superior and yieldstable oat varieties

The James Hutton Institute has been awarded £100,000 the Novo Nordisk Foundation for a three-year project, led by the Innovation Centre for Organic Agriculture in Denmark and working in collaboration with Nordic Genebank (NordGen) and Aarhus University in Denmark, identify nutritionally superior and yield-stable oat varieties through a combination of experimental and on-farm field trials across a range of diverse environments organic management systems.

Sustainable production of healthy food for a growing human population is an escalating global challenge. Oat, the third most popular cereal crop grown in the UK after wheat and barley, is a uniquely healthy cereal crop, rich in protein, minerals and fibre, especially β-glucan, which is associated with a reduction in cholesterol levels post-meal glycaemic responses.

The Hutton is a world leading research institute addressing the issue of global security by finding scientific solutions for the sustainable management of land and natural resources and the demands for improved agricultural productivity and crop resilience.

Oat is particularly well suited to organic production in northern Europe due to its robustness and adaptability. It requires low inputs thanks to its low demand for nitrogen, and has low susceptibility to diseases, and can cope effectively against weeds.

Dr Joanne Russell, the Hutton's lead on this study explains more. "The project brings together experts in plant genetics, agronomy, and mathematics to harness the unique properties of oat, with its low carbon footprint and significant nutritional and health benefits. The key issue for oat producers is the lack of stability in year-to-year supply and quality, largely due to seasonal fluctuations in environmental factors. We will focus on the need to develop robust organicready oat cultivars specifically tailored to sustainable organic production and address some of the emerging challenges in food and health security to help secure food production."

Farming Scotland Magazine

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