



# beej<sup>ki</sup>baat

voice of the seed

EDITION MAY 2024



**Raghavan  
Sampathkumar**  
Executive Director

Greetings,

Welcome to the May'24 edition of BeejKiBaat. We highlight practical advancements in agriculture, starting with Punjab's success using the Surface Seeder technique, which optimizes fuel and input usage while ensuring a robust crop stand. Climate challenges, such as drought, are reshaping vineyards in Italy, leading to a significant drop in wine production. Innovative approaches like AI and nanotechnology are empowering farmers with precise weather predictions and disease control. In Australia, the field trial of genetically modified wheat and barley aims to enhance yields. Furthermore, initiatives in India are integrating traditional farming with modern techniques, such as fish farming in Uttar Pradesh and direct seeding of rice in Siddipet, promising sustainable agricultural practices. Join us as we explore these developments and more.

---

# INDIA



## 50% of the country's districts may face severe water crisis by 2050: Report

DCM Shriram and Satva Knowledge have put together a report on the water crisis faced by 75% of the Indian populations. They report that 50% of the country's districts may face severe water crisis by 2050.

[Read full article...](#)



[Surface Seeder Technique](#)  
[Propels Wheat Crop](#)  
[Success in Punjab](#)



[India's pulses import](#)  
[almost doubled in 2023-24,](#)  
[it may rise further this year](#)



[UP women farmers](#)  
[integrate agriculture with](#)  
[fish farming](#)



[Siddipet farmers reap rewards with direct seeding of paddy](#)



[Govt introduces high yielding & disease resistance wheat variety](#)



[Hybrid mango cultivation in Himachal Pradesh](#)

---

## GLOBAL



# Gene edited, low cost, ultra high-density protein soy greenlit for sale by US

The U.S. has granted an exemption for its gene-edited, ultra-high protein soybeans to provide a scalable, low-cost, high-density protein source. It comes as there is an urgent need for sustainable protein production that can address the growing global demand while reducing the environmental impact associated with the production of traditional animal protein sources.

[Read full article...](#)



[Heat is coming for our crops. We have to make them ready](#)



[China Approves First Gene-Edited Wheat](#)



[Combined Traditional Farming Practices and Modern Biotechnology Can Help Achieve UN Sustainable Development Goals](#)





[Enhancing Crop Weeding  
Efficiency through  
Bioengineering and AI  
Integration: Study](#)

[The Invisible Side of  
Science: Protecting Crops  
through Nanotechnology](#)

[Drones, GMOs and Tea: the  
new climate rewrites the  
rules in the vineyard.](#)

---

## RESEARCH



# Changing the Color of Crops Could Help Robots

## Differentiate Weeds

Climate change rapidly impacts crops, thus the need for various ways to improve the tolerance of plants to stressors, such as weeds. This led the researchers to explore on adding signature traits to crops to be easily recognized by remote sensing. Boosting the blue pigments in plants through gene editing could make weeding easier.

[Read full article...](#)



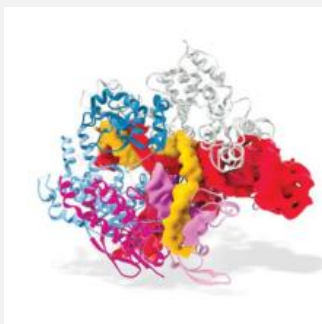
[CRISPR to reduce food's climate impact](#)



[Australia's GM Regulator Approves Field Trial of GM Wheat and Barley](#)



[Nutritional breakthrough: Genetically modified vitamin B1-fortified rice could help us overcome some health deficiencies](#)



[ChatGPT for CRISPR' designs gene editors](#)



[How crops are being disaster-proofed](#)

Plant's Drought Stress  
Hormone Blocks Spider  
Mites

## FSII In News



Technology Push: India Seed Sector Bats for a Resilient Agriculture Sector



Seed Industry in India is a Key Driver of Technological Advancements in Agriculture



Time to Leverage Intellectual Property to Drive Innovation in Seed and Biotechnology Sectors: Experts



Dr. Ratna Kumria, Sr. Director - Biotechnology FSII talks about ways to maximise the benefits of technology in agriculture





---

[Manage preferences](#)