



# beeJ<sup>ki</sup> baat

voice of the seed



**EDITION AUGUST 2024**



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Executive Director**

Greetings,

Welcome to the August 2024 edition of BeejKiBaat. This month, we delve into significant advancements shaping the future of agriculture. From CRISPR's role in precision plant breeding to the discovery of genes that boost crop resistance against diseases, innovation is at the forefront. We explore new developments in climate-resistant seeds, genetically engineered crops for better storage, and solar energy's potential in sustainable farming. Additionally, ICAR's launch of resilient spinach and tomato varieties marks a pivotal step toward enhancing crop productivity in challenging climates. The growing focus on gene editing, as seen in Thailand's regulatory advancements and New Zealand's trials, highlights a global shift towards more sustainable and efficient agricultural practices. Join us as we navigate these transformative trends, offering insights into the technologies and strategies that promise to revolutionize the agricultural landscape.

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**INDIA**



### **Min seeks early nod to BG-3 cotton seed**

Expressing concern over pest attacks on cotton crop especially by pink bollworm and whitefly, Punjab Agriculture Minister Gurmeet Singh Khuddian sought union minister Shivraj Singh Chouhan's intervention to speed up research and approval of BG III cotton seeds.

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### **ICAR Unveils Climate Resilient Spinach and Tomato Varieties**



### **Harnessing solar energy for sustainable agriculture: Innovations and benefits**



### **MoU Between BIS and GB Pant University to Launch Standardized Agriculture Demonstration Farm**



[Bt cotton in India](#)



[Develop high-yielding oilseeds, pulses to cut imports: Chouhan](#)



[Climate-resistant seeds may cover 25% kharif paddy area](#)

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## GLOBAL



### **History of misery when farmers are forced to go organic**

The world needs to take notice of these examples. When countries go organic, yields fall and food imports from other countries must rise, putting more demands on the soils of the exporting countries. Europe is going in that direction. The EU imports and exports of food are presently about equal. Imports are bound to rise as their yields fall, and more land becomes uneconomic and is abandoned.

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[Price tag coming for using digital genetic resources](#)



[Thailand finalizes guidelines on gene-edited crops](#)



[Researchers Develop Novel Cotton Quality Module](#)



[Ethics and benefits of gene editing](#)



[The history of genetic modification in agriculture — and what awaits us](#)



[CRISPR and the new era of precision plant breeding](#)

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**RESEARCH**



### **Gene drives could fight weeds**

Weeds decrease crop yields at an average annual cost of \$33 billion, and control measures can rack up \$6 billion more. Gene drives could add genes that make weeds more vulnerable to herbicides or reduce their pollination and numbers. Beneficial genes can also spread across crops—essentially fast-tracking the practice of cross-breeding for desirable traits.

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**[Gene that Boost Resistance of Crops Against Blast Disease](#)**



**[Fine-Tuning Leaf Angle Improves Sugarcane Yield](#)**



**[Discovering Corn Varieties Suited for Future Climates](#)**



[Researchers Develop More Accurate Gene-Editing Tool Than CRISPR](#)



[New Zealand trial of ryegrass with GE Endophytes proposed](#)



[Genetically Engineered Healthier Potato for Long-term Storage](#)

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## FSII In News

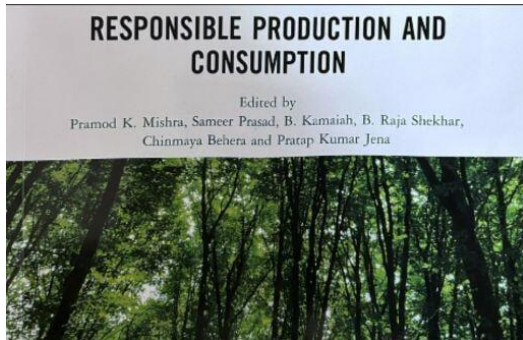


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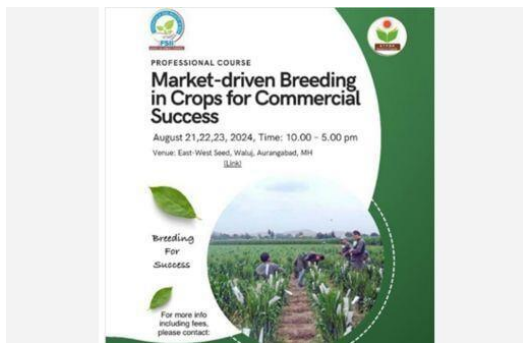
**From The Secretariat**



[Ratna Kumria & Ram Kaundinya co-authored paper on "Responsible Production and Consumption"](#)



[FSII Chairman Ajai Rana, & ED Raghavan Sampathkumar participated at the Sustainable Agriculture Summit & Awards 2024.](#)



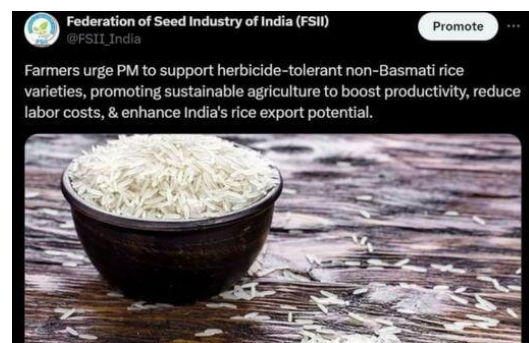
[FSII & ATPBR organized Market-Driven Breeding in Crops for Commercial Success](#)



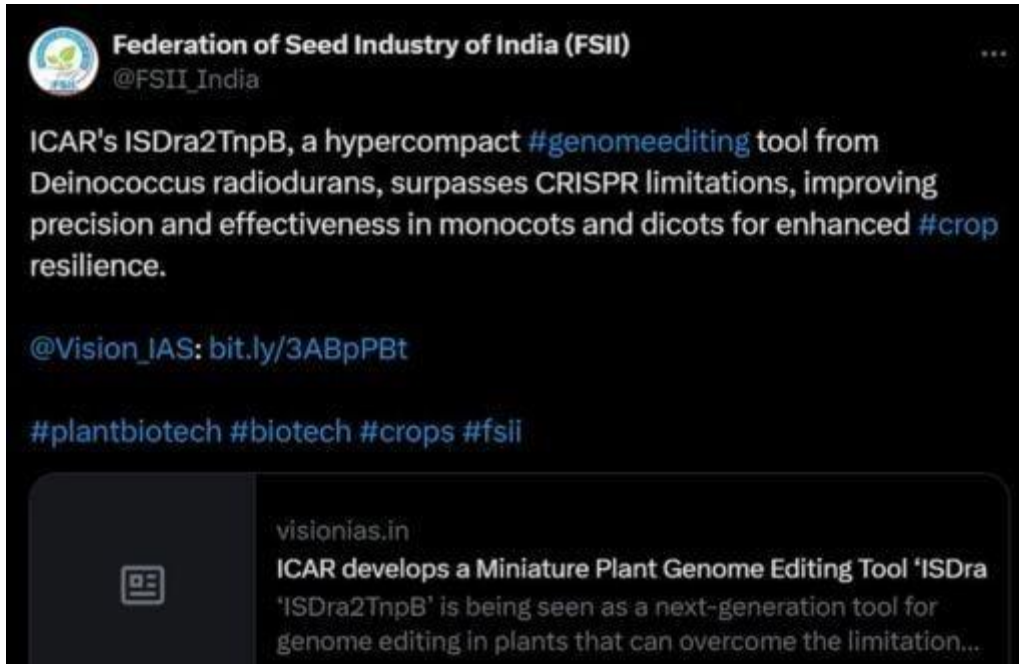
[Blueprint for Amritkaal – Technology, Enablers & Impact](#)



[Cabinet approves the Clean Plant Programme \(CPP\)](#)



[Farmers urge PM to support herbicide-tolerant non-Basmati rice varieties](#)



[ICAR's new miniature genome editing tool, ISDra2TnpB revolutionizes biotechnology](#)

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