



# beeJ<sup>ki</sup> baat

voice of the seed

**EDITION SEPTEMBER 2024**



**Raghavan  
Sampathkumar  
Executive Director**

Greetings,

Welcome to the September edition of our BeejKiBaat. This month, celebrated remarkable advancements in agricultural biotechnology and sustainable practices. This month, we highlighted the groundbreaking research on gene-edited potatoes and heat-tolerant wheat, showcasing their potential to enhance resilience against environmental stresses.

Additionally, the launch of a Carbon Credit Trading Scheme promised to uplift farmers' incomes while promoting sustainability. Innovations like a miniature genome editing tool and bridge editing techniques further paved the way for efficient crop improvements. We also recognized the strides made in Ivorian agriculture with a new rice variety, alongside the pressing need for better seed replacement rates in regions like Odisha.

As we navigate these challenges and innovations, we remain hopeful that these advancements will lead to a more sustainable and productive agricultural future for all. Together, we can cultivate a brighter tomorrow!

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**INDIA**



### **Carbon Credit Trading Scheme to Boost Farmers' Income & Promote Sustainability**

The government has taken a significant step towards promoting sustainable agriculture by launching the Carbon Credit Trading Scheme. The scheme allows entities and farmers to register greenhouse gas (GHG) mitigation projects, earning carbon credit certificates that comply with approved methodologies. A single carbon credit represents the removal or avoided emission of one ton of carbon dioxide or another greenhouse gas, such as methane, of equivalent volume.

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**[Indian Researchers Develop a Miniature Plant Genome Editing Tool](#)**



**[A Strategic Boost to Agriculture](#)**



**[Seed replacement rate drops as farmers buy from open market](#)**



[Punjab seeks nod to BG-3 GM cotton seeds to check pest attacks](#)



[Farmers' Network asks PM to promote Herbicide-Tolerant non-Basmati rice varieties](#)



[Patiala farmer sets new standard in sustainable agriculture](#)

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## GLOBAL



### **Bridge Editing -the next step in improving genomes**

The new genome editor, called bridge editing, links two pieces of DNA which can be used to edit huge sections of a genome. It is composed of a recombinase protein, which links with a guide RNA like the CRISPR-Cas9 protein. Bridge editing is effectively scarless as it does not leave behind pieces of DNA; thus, providing an extraordinary level of control in engineering genomes.

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**Gene-edited Potatoes Show Enhanced Biotic and Abiotic Stress Resilience**



**Improved Heat Tolerance in Wheat**



**Efficient and Stable Approach to Rapeseed Production**



**Transforming Hybrid Seed Trials with Precision Drone Surveillance and Data Analytics**



**Combining Biostimulant Products Multiplies Positive Effects on the Soil Microbiome**



**Tiny Tomatoes for Astronauts to Grow in Space**

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**RESEARCH**





### **Investment in agriculture gene editing grew 206% YoY in H1 2024, hinting at sector recovery and new momentum**

Agriculture-related gene editing startups have raised over \$2.7 billion since 2012, and while the segment has suffered from the recent venture capital downturn, there are signs of a potential recovery in 2024. In the first half of this year, agriculture gene editing startups raised just over \$161 million across six deals, a considerable improvement over the same period in 2023 when they raised around \$46 million.

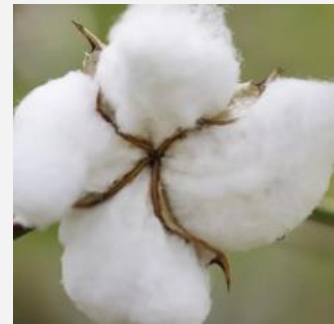
[Read full article...](#)



**How can we dramatically increase agricultural yields sustainably and without using more land?**



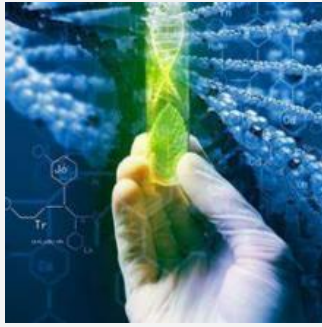
**Biotechnology and agricultural productivity**



**Clear the ground for promoting GM crops**



[New Rice Variety Boosts Ivorian Agriculture: Sustainable Growth Ahead](#)



[Biotech Matters: Innovation in Agricultural Biotechnology](#)



[EU officials pledge to develop more water-saving technologies in farming as droughts worsen](#)

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## FSII In News



[FSII 8th AGM & Knowledge Day Conference](#)



[Awareness session on the Enforcement of IPR in Seeds](#)

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## From The Secretariat



**FSII ED, Mr Raghavan Sampathkumar at International Crop-Science Conference & Exhibition**



**Awareness Session on Enforcement of IPR in Seeds**



**ASCA7 - 7th Asian Short Course on Agribiotechnology, Biosafety Regulation, and Communication in Bangkok, Thailand**



**FSII conference on Blueprint for Amritkaal: Technology, Enablers & Impact**

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