



beej^{ki}baat

voice of the seed

EDITION OCTOBER 2023



Foreword

Greetings,

Welcome to our latest issue of Beej ki baat. FSII is cruising ahead with a fresh leadership mandate and a renewed focus on our strategic goals that hold the promise of a brighter future for the Indian seed industry. We are committed to making a significant impact in our community through innovation and progress.

**Raghavan
Sampathkumar**
Executive Director

We wish to take a moment to honor the extraordinary legacy of Dr. M.S. Swaminathan. His pioneering efforts in agriculture and sustainable development have left an indelible mark, inspiring countless individuals around the world. Dr. Swaminathan's unwavering dedication to addressing global challenges and promoting ecological harmony continues to guide our path forward.

Join us as we celebrate the enduring legacy of Dr. Swaminathan and embark on our journey towards a more sustainable and prosperous world. Our shared commitment to a better future is what unites us.

Warm
Raghavan Sampathkumar

regards,

NEW LEADERSHIP TEAM AT FSII

| Position | Name | Designation & Organization |
|------------------|--------------------------------|------------------------------------------------------------------------------|
| Chairman | Mr. Ajai Rana | CEO, Savannah Seeds Pvt Ltd |
| Vice Chairman | Dr. Rajvir Rathi | Head - Agricultural Policy & Stakeholder Affairs, Bayer Crop Science Limited |
| Vice Chairman | Mr. Shirish Barwale | Director, Maharashtra Hybrid Seeds Co Pvt Ltd |
| Finance Director | Mr. Venkatram Vasantavada | MD & CEO, Seedworks International Pvt Ltd. |
| Member | Mr. S. Nagarajan | Chief Operating Officer, Rallis India Ltd |
| Member | Ms. Anuja Kadian | Government Affairs Director for Asia Pacific, Corteva Agriscience |
| Member | Mr. Sanjay Kumar Singh | Territory Head- South Asia (Veg), Syngenta India Private Limited |
| Member | Mr. Rajendran Ramasami | MD, Rasi Seeds Pvt Ltd |
| Member | Mr. Senthilnathan Sengottuvelu | Chairman & MD, ACSEN Agriscience Pvt Ltd |
| Member | Mr. Sameer Sawant | President - Seeds Business, Namdhari Seeds Pvt Ltd |
| Member | Mr. Atul Sah | Business Head, VNR Seeds Pvt Ltd |



INDIA



Four ways to strip carbon out of agriculture and limit farming's climate impacts

Carbon is playing out in unique ways in the agricultural sector. On the negative side, fossil carbon emissions are driving the extreme climate events that add to economic risks of farming. But on the positive side plants via photosynthesis and use solar energy to pull carbon dioxide out of the atmosphere. This enables at least four carbon-related categories of value creation for the farm economy....

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[Reduce synthetic fertilisers and improve yields? The microbiome revolution comes to agriculture](#)



[Why India needs GM mustard?](#)



[Gene Editing Produces Yellow Peas with Improved Aroma and Flavor](#)

GLOBAL



Japanese Researchers Introduce a Novel Gene Editing Technique

Researchers from various Japanese institutions developed NICER, which is a novel method that offers a precise strategy for gene correction. This technique can be used as a substitute for CRISPR gene editing. To avoid issues like unintended genomic alterations and integration of exogenous DNA, researchers from Osaka University, Tokyo Metropolitan Institute of Medical Science, Nagoya University, and Genomedia Inc. produced the NICER method. This technique uses Cas9 nickase to induce multiple nicks, and a homologous chromosome serves as an endogenous repair template.....

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to develop late
blight-resistant
potato varieties,
eliminating the
need for spraying](#)



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Large Areas](#)

RESEARCH



Study Reveals What Makes Carrots Orange?

A new study of the genetic code of more than 600 types of carrots reveals that three specific genes are required to give carrots an orange color. Surprisingly, these three required genes all need to be recessive or turned off...

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[Genetic Code of Peppers Provides Insights into Domestication and Diversity](#)



[Wild plants may edit their genomes in the same way we make GM crops – and it could be](#)



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evolution

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#THURSDAYTRIVIA

**Food Loss and Waste:
A Critical Issue**

Crops face fierce competition from 30,000 weed species, 10,000 insects, 3,000 nematodes, and countless fungi, bacteria, and viruses, resulting in 50,000+ diseases, leaving them damaged and inedible. →



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#TECHTUESDAY

**MICROBIOME MAGIC:
Transforming Agriculture
and Fighting Climate
Change!**

→ swipe to learn more.

#Beejkibaat #Voiceoftheseed



For more information about Federation of Seed Industries of India visit

www.fsii.in



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