



beed^{ki}baat

voice of the seed

EDITION DECEMBER 2023



**Raghavan
Sampathkumar**
Executive Director

Foreword

Greetings,

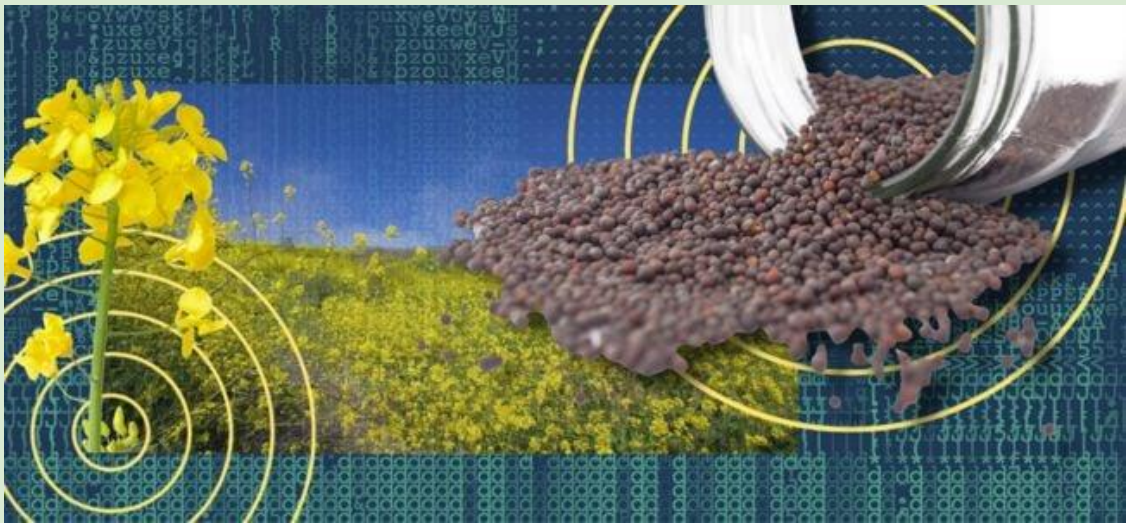
The seed industry's diverse stakeholders must unite to spotlight sustainable and profitable agriculture, fostering a spirit of resilience. The seed sector's adaptability provides fertile ground for the cross-pollination of ideas, laying the groundwork for sustainable practices and cutting-edge advancements in seed technology and biotechnology.

As you explore this newsletter, ponder the profound role our industry plays in the global food ecosystem. The congress underscored a collective commitment to navigating the complexities of modern agriculture ensuring food security. Together, we sow seeds of change, nurturing a future where each seed embodies not just a new crop but a promise—a promise of innovation, sustainability, and abundant harvests for generations. Join us in celebrating growth and cultivating a legacy of excellence in the ever-evolving landscape of seed technology.

Warm
Raghavan Sampathkumar

regards,

INDIA



Hybrid Mustard and Biotechnology- Pathways for Doubling Farmers' Incomes and Nutritional Security

The government's decision to move ahead on the much-delayed genetically modified mustard developed by the University of Delhi signifies a turnaround and bodes well for the country's food system. Numerous tests over the last 20 years prove its safety for food, feed, and the environment in the Indian context.

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[The other oil imports India needs to worry about](#)



[Transgenic generated 'extra' revenue of R\\$ 143.5 billion for agriculture](#)



[Indian Supreme Court defers GM mustard hearings until 2024](#)



[GM crops: a truly feasible way out for food security?](#)

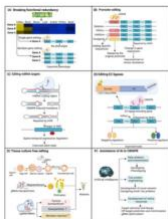
GLOBAL



The future of sustainable agriculture will be multidisciplinary

The secret about sudden technology-driven disruptions is how long they actually take to happen. In reality, disruptive innovation happens in waves that take decades to unfold, rather than all of a sudden - especially when the change is happening in a system. Global agriculture - which is widely acknowledged to need to dramatically change to become more sustainable - is such a system. The traditional boundaries of the organizations that serve farmers - equipment companies, crop input developers, software companies, advisors - will take time to re-arrange around the disruptive effects of AI.

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[CRISPR enables sustainable cereal production for a greener future](#)



[Brazil approves safety and planting of Chinese herbicide-tolerant GM soybean](#)



[GM in China: Multi-pronged strategy focused on farmers, consumers needed to accelerate use](#)



[Researchers Develop Coated Microbes to Reduce the Use of Chemical Fertilizers](#)

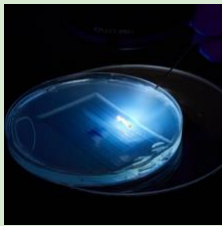
RESEARCH



Strawberries that stay firmer and fresher longer could revolutionize fruit industry

The softening of the fruit is accompanied by the disassembly of cell walls and the middle lamella during ripening. Pectin is the cell wall component that undergoes the most extensive changes during strawberry softening. Research has identified that pectinase enzymes, are instrumental in this softening process. While traditional breeding methods are slow, due to the high ploidy of strawberries, methods such as CRISPR offer precision and speed.

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[CRISPR-Cas3](#)
[Brings New Gene](#)
[Editing Options for](#)
[Aquaculture](#)



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[Makes Purple](#)
[Carrots](#)



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[CRISPR-Based](#)
[Editing of Wheat to](#)
[Reduce](#)
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Stay Tuned With






#FACTCHECKFRIDAY

New Blueberry Varieties
Did you know?
Scientists Are
Revolutionizing
Blueberries Worldwide




#ThursdayTrivia

The Phylloxera Crisis:
A Wake-Up Call for Wine

#Beejibaat #Voiceoftheseed




#Science4Society

GM Mustard and its multi-dimensional
positive socio-economic impacts

#Beejibaat #Voiceoftheseed




REVOLUTIONARY
NON-BROWNING
AVOCADO

#TECHTUESDAY

Gene editing has led to a groundbreaking development: A non-browning avocado variety that stays fresh for longer.

For more information about Federation of Seed Industry of India visit

www.fsii.in



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