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BioPrime and Mosaic seek to redefine fertilizer economics through biological intelligence

25 May 2026 | News

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BioPrime AgriSolutions a pioneer in the biological crop solutions powered by its proprietary SNIPR discovery platform, and Mosaic, a global leader in crop nutrition, today announced a commercial collaboration in India focused on incorporating biological components into Mosaicâ??s crop nutrition solutions. The initiative aims to support growers with solutions that activate plant potential, optimize resource use and build long-term agronomic resilience.

This collaboration comes at a time when farmers are facing increasing cost pressures and supply volatility across key agricultural inputs. Integrated solutions that improve efficiency and productivity are essential to support sustainable and profitable farming.

The conventional focus on improving NUE, ensuring more applied fertilizer reaches the plant remains important, but it represents only one dimension of agricultural performance.

The BioPrime - Mosaic partnership is designed to advance a more ambitious thesis: that fertilizers, integrated with advanced biological intelligence, can do far more than feed the plant.

By layering BioPrimeâ??s biological innovations derived from its SNIPR platform directly into Mosaicâ??s proven crop nutrition frameworks, this collaboration aims to create a new category of solution, one that nourishes, activates and strengthens crops across their entire growth cycle.

Dr. Renuka Diwan, Chief Executive Officer & Co-Founder, BioPrime AgriSolutions said, â??Fertilizers have powered global agriculture for over a century. Our partnership with Mosaic is about honouring that legacy while fundamentally advancing what fertilizers can deliver. By embedding biological intelligence into proven nutrition platforms, we are not replacing the fertilizer, we are elevating it. The result is a system that activates the plant, optimizes the input and strengthens the farm.â❧

Unlike conventional nutrition programs that address a single dimension of plant health, the Crop Performance System operates simultaneously across multiple biological levers.

Metabolic Efficiency: Biologicals activate key plant metabolic pathways, enabling crops to convert available nutrients into yield more effectively, reducing waste and improving return on every input dollar.

Stress Resilience: Integrated biological components prime crops against abiotic stressors, drought, heat and salinity thereby sustaining performance in the increasingly volatile climate conditions facing farmers worldwide.

Soil-Microbe-Plant Synergy: By engaging the soil microbiome as an active partner in nutrition delivery, the system enhances nutrient availability, root development and long-term soil health, building fertility rather than depleting it.

Precision Nutrient Assimilation: Advanced biological agents improve the plantâ??s ability to uptake and utilize nutrients at critical growth stages, amplifying the agronomic value of Mosaicâ??s proven fertilizer platforms.

Robin Edwin, Director, Mosaic said, â??At Mosaic, we believe the future of agriculture is not about choosing between crop nutrition and biologicals, but integrating them to deliver better agronomic outcomes for growers. Mosaic Biosciences was created to advance exactly this vision. Our collaboration with BioPrime is another step in building integrated solutions that help growers improve productivity, nutrient efficiency and overall farm performance.â❧

The timing reflects the structural challenges reshaping global agriculture. Geopolitical instability and supply chain disruptions continue to drive fertilizer price volatility, placing cost pressure on farmers at every scale. At the same time, sustainability expectations are intensifying, demanding that productivity gains be delivered with a smaller environmental footprint.

The Crop Performance System is designed to navigate both realities â?? improve agronomic return to every dollar invested in crop nutrition; support sustainable intensification â?? producing more from existing land without proportionally increasing environmental burden and deliver scalable solutions adaptable across diverse crops, geographies and farming systems.