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India's Absolute, Xenesis institute excels in bio-agriculture, biomaterials and biocare R&D

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An Indian bioscience company, Absolute, is developing powerful and safe bioengineered agricultural inputs through its R&D arm Xenesis Institute. The research team is working on groundbreaking research on renewable and sustainable biomaterials.

Xenesis pioneers bio-enabled agriculture in order to improve access to clean and nutritious food.Â In addition to biomaterials and biocare research at Xenesis, the company's pioneering agriculture research is channeled through the Ag Frontier group.

Over 5 million square feet of product development and testing space are available at Xenesis, including state-of-the-art research laboratories headquartered in New Delhi with further expansion inÂ Pune.

The team at Xenesis comprises 150+ leading scientists many of whom have returned fromÂ Israel, the US,Â South Korea, andÂ Africa. Xenesis scientists include experts in plant biology, microbiology, molecular biology, transcriptomics, metagenomics, metabolomics, proteomics, strain engineering, biomaterial development, and bioprocess engineering.

Since its inception in 2015, Xenesis has developed a gamut of proprietary platforms for discovery and technology. Xenesis' Nature Intelligence PlatformTM (NIPTM) is one of the world's largest databases of microorganisms, secondary metabolites, signaling molecules, and other biomolecules.

Additionally, the AgFrontier group at Xenesis has developed a new technology called Signal Triggered Regenerative Activity Complex (STREAC), which provides farm biologicals with superior stability, extended shelf life, and beneficial effects on target crops.

Biocare at Xenesis has introduced XenDHA, a novel approach to addressing quality, yield, and contamination challenges in Omega-3 fatty acids supplements. XenDHA is capable of producing high-quality DHA for human consumption.

Bio-Cat Insta TechnologyTM (BCITTM) is a proprietary technology developed by Xenesis that enables the company to utilize novel microbial strains to produce biocatalysts with incredible endurance.

Enhance biocatalysts have industrial applications â?? baking, brewing, detergents, fermented products, biofuels pharmaceuticals, and textiles.

Xenesis Observatory (XenO), another new tool developed at Xenesis using Absolute's proprietary agri data stack, provides detailed insights into smart farms connected to Absolute's network.