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Twist Bioscience and Curio Genomics collaborate to accelerate and streamline NGS adoption in Agrigenomics

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Twist Bioscience Corporation, a core mid-cap growth and value equity company in the life sciences segment of the health care sector, andÂ Curio Genomics, a pioneer in genomics software, announced a collaboration to accelerate the adoption of NGS workflows in agricultural genomics (agrigenomics) by offering Twistâ??sÂ FlexPrepâ?¢Â Ultra-High Throughput (UHT) Library Preparation KitÂ with Curioâ??s bioinformatics software and data platform.

Despite the flexibility and depth of genomic data provided by NGS workflows compared to microarrays, adoption of NGS in agrigenomics has lagged due to the low cost and familiarity of microarray workflows. Pairing the Twist FlexPrep UHT Library Prep Kit and theÂ CURIOâ?¢Â platform creates a sequencer agnostic end-to-end solution from library prep through data analysis to provide agrigenomics customers with tools that overcome these challenges and simplify NGS adoption.

Specifically, the Twist FlexPrep UHT Library Prep Kit provides researchers with a tool to support a streamlined workflow with favorable economics, while scaling up assay throughput to thousands of samples with high flexibility. FlexPrep enables researchers to expand the depth and breadth of their data beyond just SNPs to generate high complexity libraries for low pass whole genome sequencing with high concordance to arrays. The CURIO bioinformatics software and data platform offers all-in-one genotyping, marker discovery and fine mapping in an intuitive interface. Rapidly delivering analysis results due to its uniquely scalable architecture, CURIO allows agrigenomics researchers to quickly interpret NGS data generated with Twistâ??s FlexPrep UHT Library Prep Kit alongside historical data from microarrays. This enables them to make decisions faster, while maintaining insights even after changing their workflows.

â??Our FlexPrep UHT Library Prep Kit eliminates many of the traditional barriers that have slowed NGS adoption in agrigenomics â?? making high throughput genotyping faster, easier, and more accessible than ever,â? said Emily M.

Leproust, Ph.D., CEO and co-founder of Twist Bioscience. â??By collaborating with Curio, we can now pair our FlexPrep UHT Kit with a robust easy-to-use, cost-effective software platform to conduct high-volume data analysis across array and NGS data from any animal or plant species. From library prep to data analytics, we believe this streamlined offering will facilitate a shift from microarray to next-generation sequencing.â?•

â??With our CURIO platform, we can provide researchers with a scalable, approachable way to analyze their data across species type and depth of coverage, enabling them to transition quickly from data generation to actionable insights,â? said Shawn Quinn, CTO & cofounder of Curio Genomics. â??By offering our platform with Twistâ??s FlexPrep UHT Library Prep Kit technology, we are making it easier for researchers to bridge historical microarray and new NGS data, analyze diverse species, and accelerate breakthroughs in agricultural genomics.â?•