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NEB and Inorevia lay focus on preparation of challenging samples for next gen sequencing

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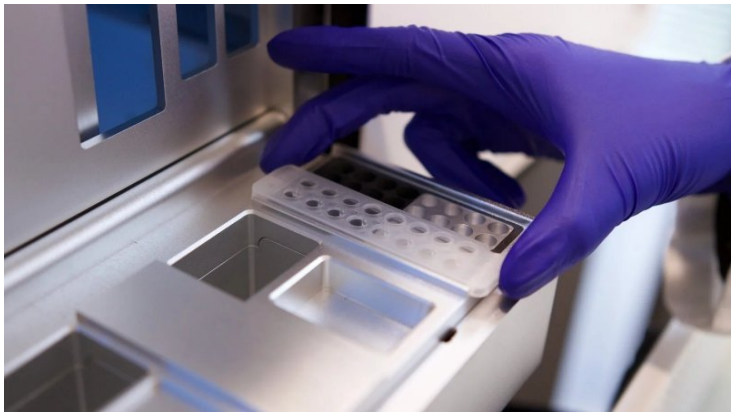
Combining NEB's innovative NEBNext reagents for next-generation sequencing sample preparation with Inorevia's unique Magelia automation platform



US-based New England Biolabs (NEB) and Paris headquartered Inorevia have announced a collaboration to develop automated workflows to maximise data quality by preparation of sequence-ready libraries from challenging samples using NEBNext library preparation reagents on Inorevia's Magelia automation platform.

Preparing high-quality libraries for sequencing analysis from challenging samples, including those derived from formalin-fixed, paraffin-embedded (FFPE) tissue, poses several challenges to the production of high-quality sequencing data.

Combining NEB's innovative NEBNext reagents for next-generation sequencing sample preparation with Inorevia's unique Magelia automation platform results in workflows that improve sequencing performance by maximising the number of molecules derived from samples that can produce accurate sequencing data.

Inorevia, with its headquarters located in the south of Paris, France, developed and manufactures its Magelia automation platform, a unique liquid handling technology with enhanced kinetics and highly efficient magnetic bead handling, that unlocks full walk-away automation of complex workflows.

NEB and Inorevia successfully collaborated on automating whole genome sequencing (WGS) library prep, including upfront fragmentation, using the NEBNext Ultra II FS DNA PCR-free Library Prep Kit for Illumina on the Magelia platform. This first collaboration demonstrated the Magelia platform's ability to produce high quality sequencing libraries, demonstrating a fully-automated workflow from genomic DNA at and even below the recommended input levels for the kit.