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BUTANEX^T
Next Generation **Biobutanol**

Deliverable 3.3

Genome sequence analysis of improved strains

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EXECUTIVE SUMMARY

In work package 3 GBL aimed to improve fermentation performance by generating and using next generation microorganisms that have an increased tolerance to butanol and feedstock derived inhibitors. GBL has developed and performed a continuous “feed and draw” method to naturally select robust fermentation microbes under a variety of growth conditions.

Butanol tolerant and inhibitor tolerant strains were sent for genome re-sequencing with an external provider. The sequencing data was analysed in-house and compared to the reference genome sequence of the parental strain to identify genetic mutations arising in the mixed cultures, and to determine which of these may be responsible for the improved phenotypes observed.

This is a summary of a longer report which is confidential. Additional information can be requested from the responsible partner Green Biologics (ButaNexT@greenbiologics.com), or by contacting info@butanext.eu.

