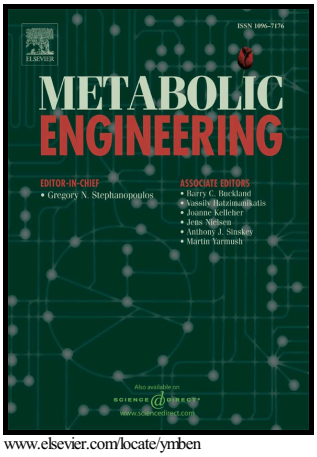

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Development of an *Escherichia coli*-based biocatalytic system for the efficient synthesis of *N*-acetyl-D-neuraminic acid

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Abstract

N-acetyl-D-neuraminic acid (Neu5Ac) is a valuable resource that has seen increasing demand in both medicine and biotechnology. Although enzymatic systems and whole-cell biocatalysts have been developed for the synthesis of Neu5Ac, low yield and productivity still hamper the use of these methods on larger scales. We report the creation of an *Escherichia coli* biocatalyst for the