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Recent advances in the enzymatic synthesis of sugar-nucleotides using nucleotidyltransferases and glycosyltransferases

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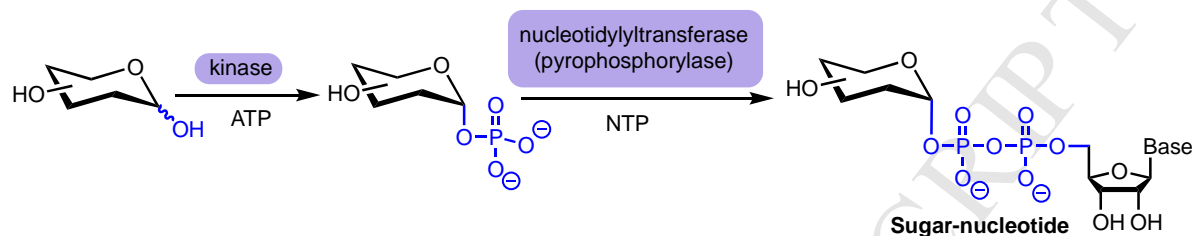
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**Abstract/Graphical Abstract**

Sugar-nucleotides are imperative to carbohydrate metabolism and glycoconjugate biosynthesis. Enzymatic methods to access these key materials offer a powerful alternative to traditional chemical synthesis routes. Herein we review recent advances in the enzymatic pyrophosphorylation of glycosyl 1-phosphates for the provision of both native and modified sugar-nucleotides.



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