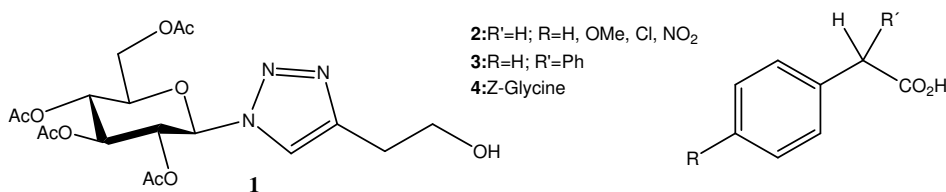


# Synthesis of esters derived from [4-(2-hydroxyethyl)-[1,2,3]triazol-1-yl]-2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranose

Tiago A.D. Pinto<sup>1</sup>, Marília F. Silva, Sílvia D. Cunha, Lígia M. Rodrigues, Ana M. Oliveira-Campos, R. Hrdina<sup>1</sup> and Ana P. Esteves\*

Centro de Química, Escola de Ciências, Univ. do Minho, Campus de Gualtar, 4710-057, Braga, Portugal  
1. Institute of Org. Chem. and Technology, Fac. of Chemical Technology, Univ. of Pardubice, Czech Republic

Carbohydrates, namely those containing a *N*-heterocycle, and glycoconjugates are involved in many normal and pathologic biological processes including cellular recognition, tumour metastasis, bacterial and viral infections.<sup>1</sup> Due to their amphiphilic, emulsifying and bioactive properties carbohydrate fatty acid esters have become particularly important for pharmaceutical applications<sup>2a</sup>, food and as biodegradable detergents<sup>2b</sup>. One approach to synthesise sugar esters involves sugar derivatives soluble in organic media, namely the esterification of methyl glucosides.<sup>3</sup> Copper(I) 1,3-dipolar azide-alkyne cycloaddition (*click reaction*) proved to be an useful synthetic process for 1,4-disubstituted 1,2,3-triazole-based glycoconjugates.<sup>4</sup> In this communication we report the synthesis of six novel esters from the alcohol **1** (prepared under click chemistry conditions) with *Z*-glycine and aryl-acetic acids by a peptide chemistry type method, using DCC and DMAP. The synthetic strategy is shown in the scheme below. Details on the synthesis and characterization of the final compounds will be presented.



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