

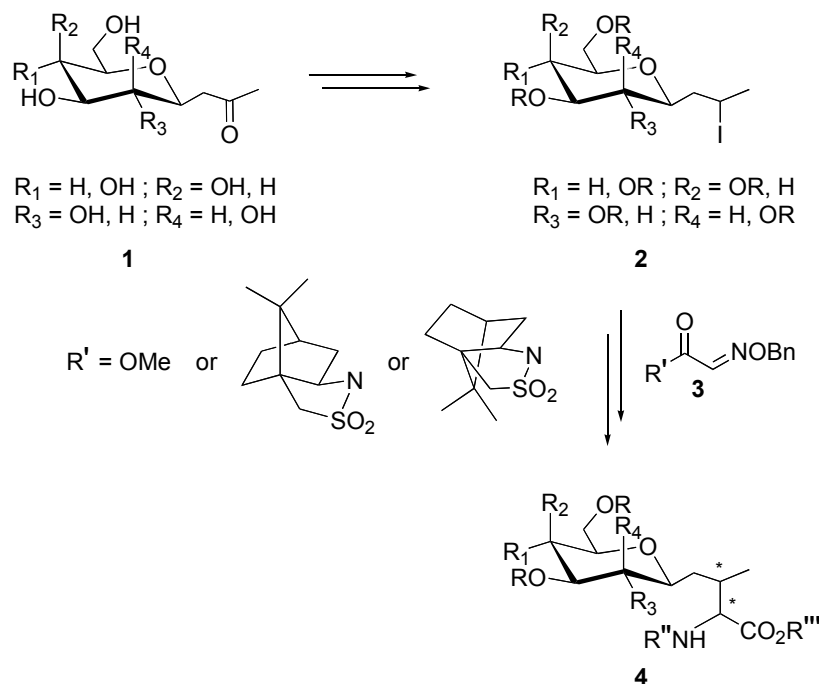
A RADICAL-MEDIATED APPROACH TO THE SYNTHESIS OF C-GLYCOSYL AMINO ACIDS

Nicolas Bragnier, Marie-Christine Scherrmann*

*Université de Paris XI, Laboratoire de Chimie Organique Multifonctionnelle,
Bat. 420, 91405 Orsay, France
mcscherr@icmo.u-psud.fr*

Several syntheses of *C*-linked analogues of *O*- and *N*-glycosyl amino acids have been reported [1], most of them devoted to the preparation of compounds in which the amino acid moiety contains only one stereogenic center *e.g.* alanine, serine, asparagine. We report here our approach toward the construction of *C*-glycosyl amino acids containing two stereocenters on the amino acid moiety, *i.e.* featuring a glycothreonine skeleton.

The readily available *C*-glycosyl ketones **1** [2,3] were converted into the iodo derivatives **2** from which radical species were generated and added to glyoxilic oximes **3**. The stereochemical outcome of the addition was studied for various sugars and radical acceptors, including chiral oximes.



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[1] Dondoni, A.; Marra, A. *Chem. Rev.* **2000**, *100*, 4395-4421.

[2] Rodrigues, F.; Canac, Y.; Lubineau, A. *Chem. Commun.* **2000**, 2049-2050.

[3] Bragnier, N.; Scherrmann, M.-C. *Synthesis* **2005**, *5*, 814-818.