



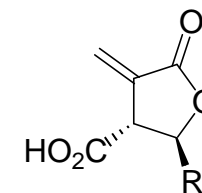
Université Lille Nord de France
Pôle de Recherche
et d'Enseignement Supérieur

Convenient synthesis of functionalized α -methylenebutano-4-lactams or lactones.

Gwenaëlle Liberge, Stéphane Lebrun, Axel Couture,*
Pierre Grandclaudon

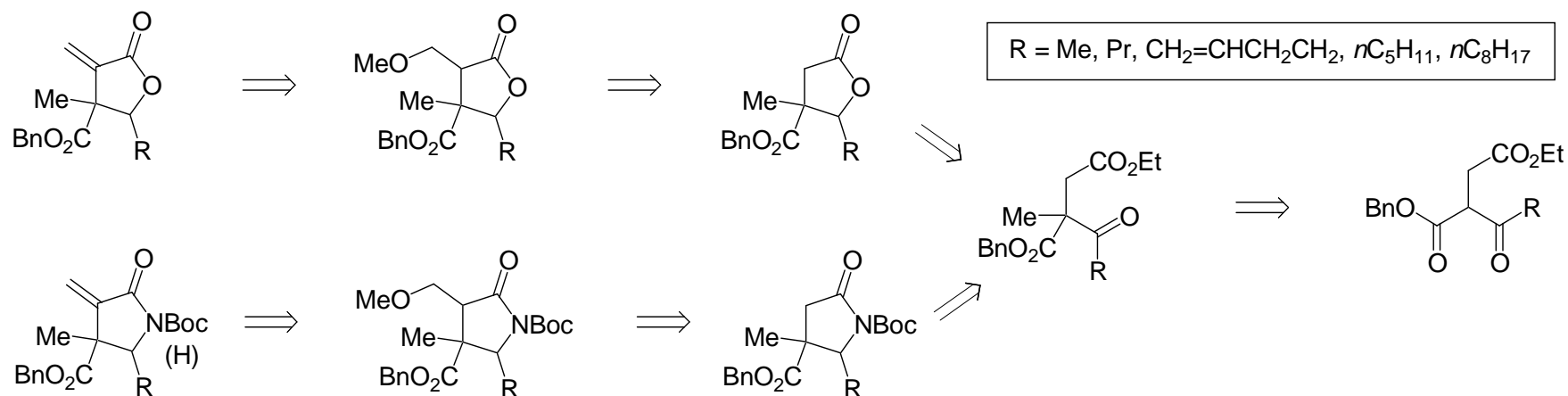


α -Alkylidene- γ -lactones and lactams are the active constituents of many synthetic compounds exhibiting pronounced biological properties. For example C75 have been shown to be selective FAS inhibitors



R = C₅H₁₁ Methylenolactocin
R = C₁₃H₂₇ Protolichesterinic acid
R = C₈H₁₇ C75

Retrosynthetic analysis





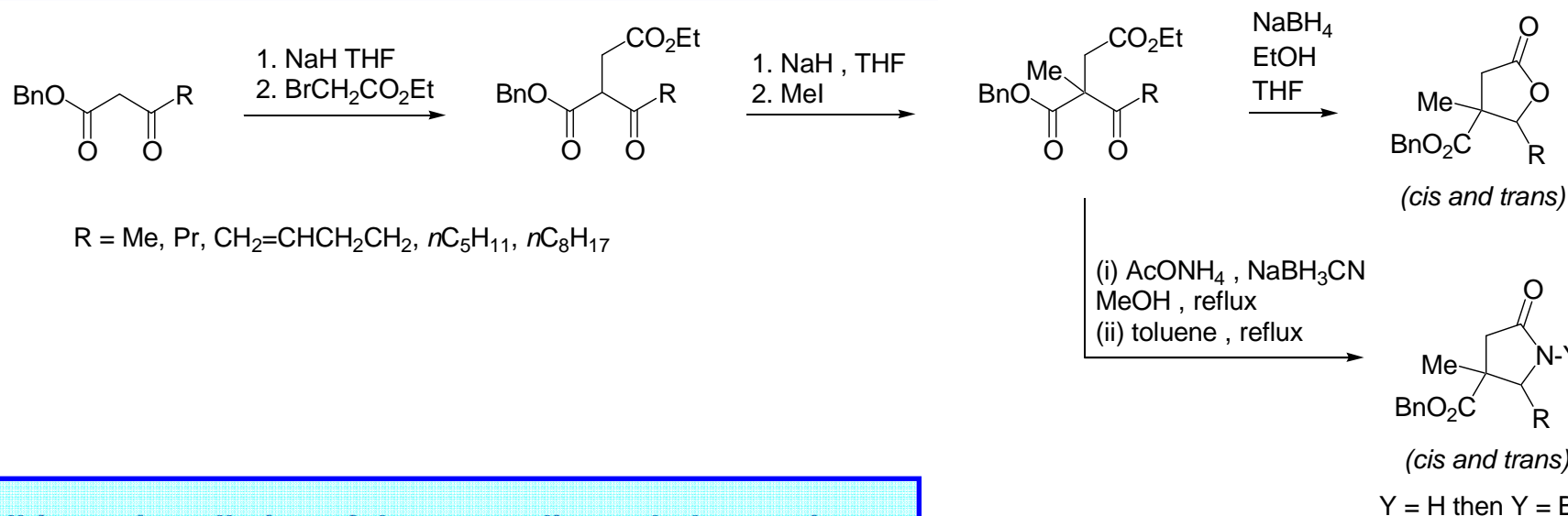
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Preliminary assembly of the lactam template



Ultimate installation of the exocyclic methylene unit

