



**HAL**  
open science

**Stereoselective organocatalyzed intramolecular aza-Michael reaction for the preparation of 3-substituted isoindolinones. Application to the synthesis of a new pazinaclone analogue**

Romain Sallio, Stephane Lebrun, Frederic Capet, Francine Agbossou-Niedercorn, Christophe Michon, Eric Deniau

► **To cite this version:**

Romain Sallio, Stephane Lebrun, Frederic Capet, Francine Agbossou-Niedercorn, Christophe Michon, et al.. Stereoselective organocatalyzed intramolecular aza-Michael reaction for the preparation of 3-substituted isoindolinones. Application to the synthesis of a new pazinaclone analogue. Journées Nord Ouest Européennes des Jeunes Chercheurs (JNOEJC) 2018, Jun 2018, Villeneuve d'Ascq, France. hal-03509924

**HAL Id: hal-03509924**

**<https://hal.univ-lille.fr/hal-03509924v1>**

Submitted on 1 Dec 2023

**HAL** is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

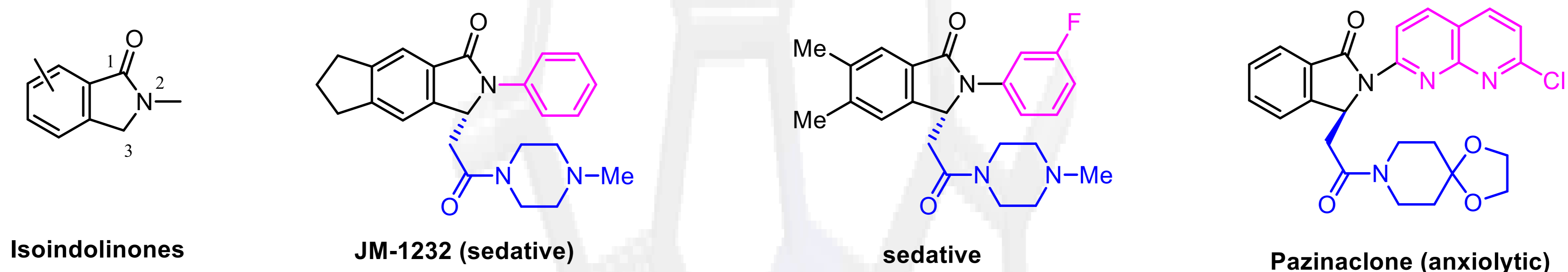
# Stereoselective organocatalyzed intramolecular aza-Michael reaction for the preparation of 3-substituted isoindolinones.

## Application to the synthesis of a new pazinaclone analogue.

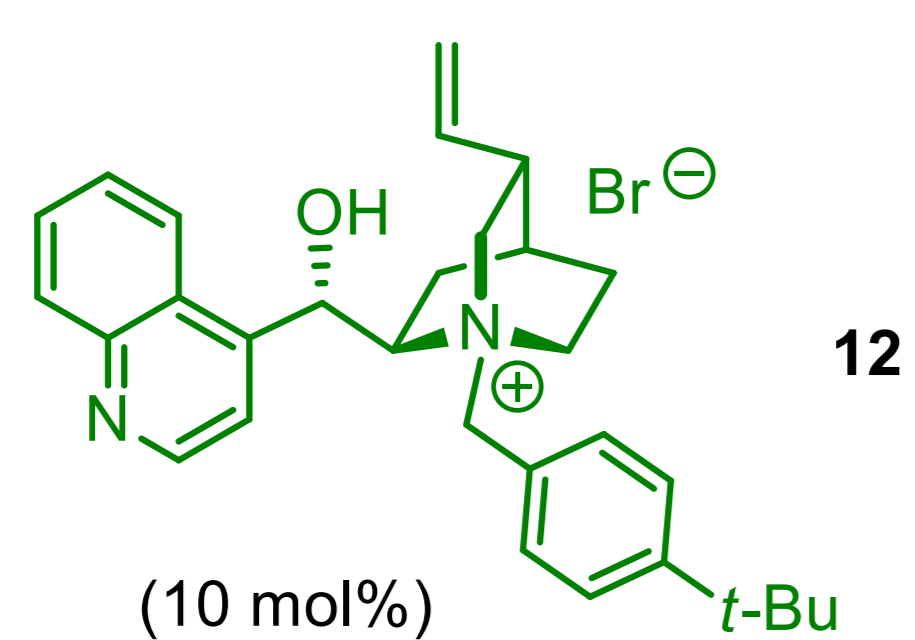
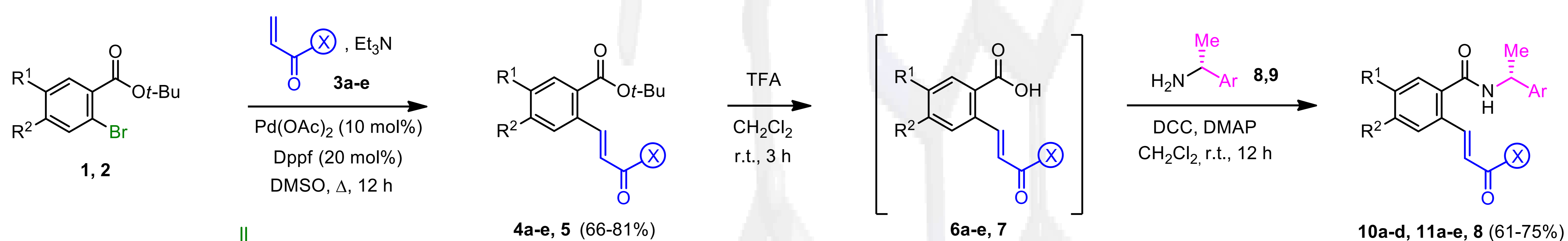
SALLIO Romain, LEBRUN Stéphane, CAPET Frédéric, AGBOSSOU-NIEDERCORN Francine, MICHON Christophe, DENIAU Eric

Univ. Lille, CNRS, Centale Lille, ENSCL, Univ. Artois,  
UMR 8181-UCCS-Unité de Catalyse et Chimie du Solide, F-59000 Lille, France

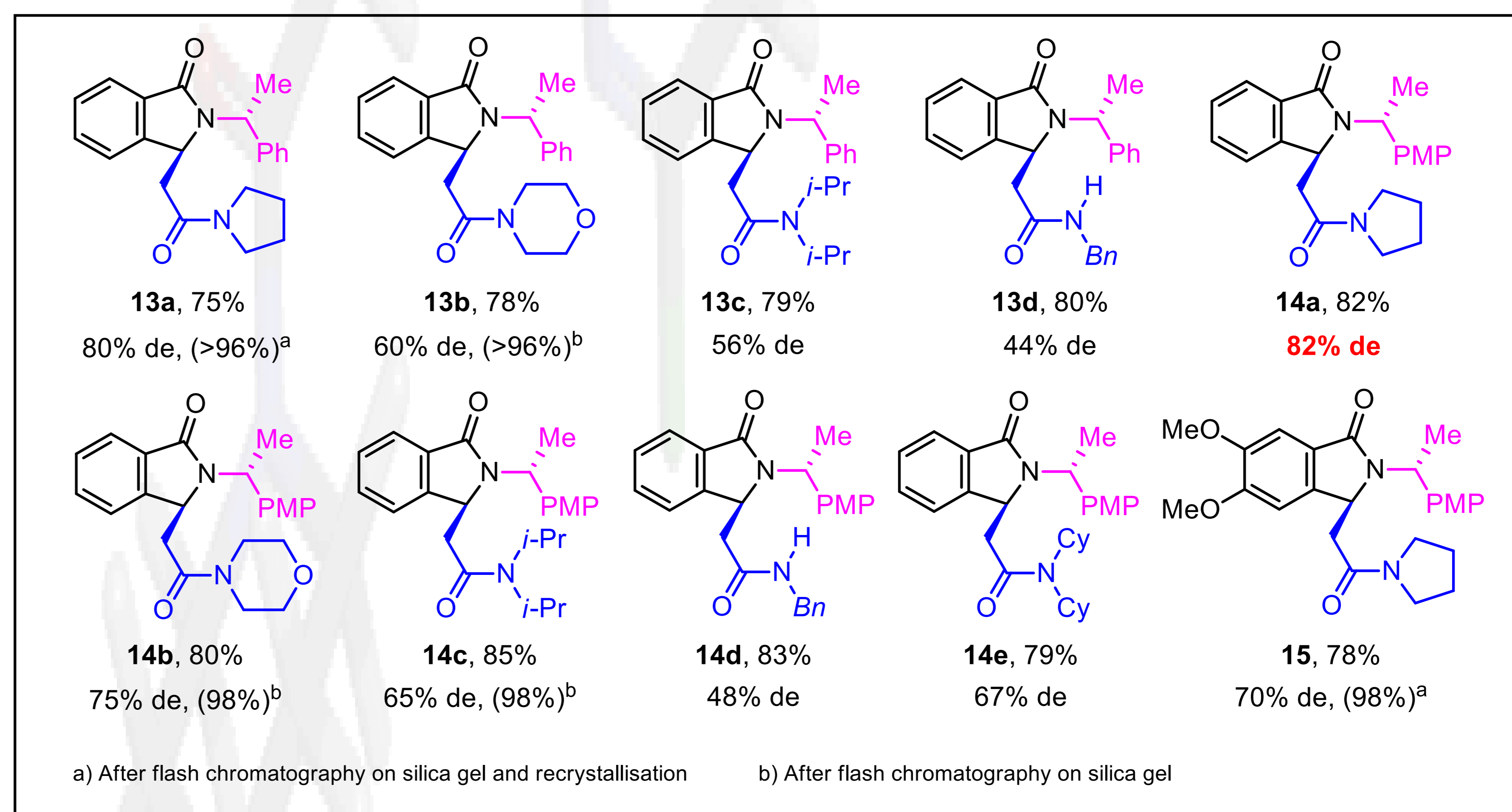
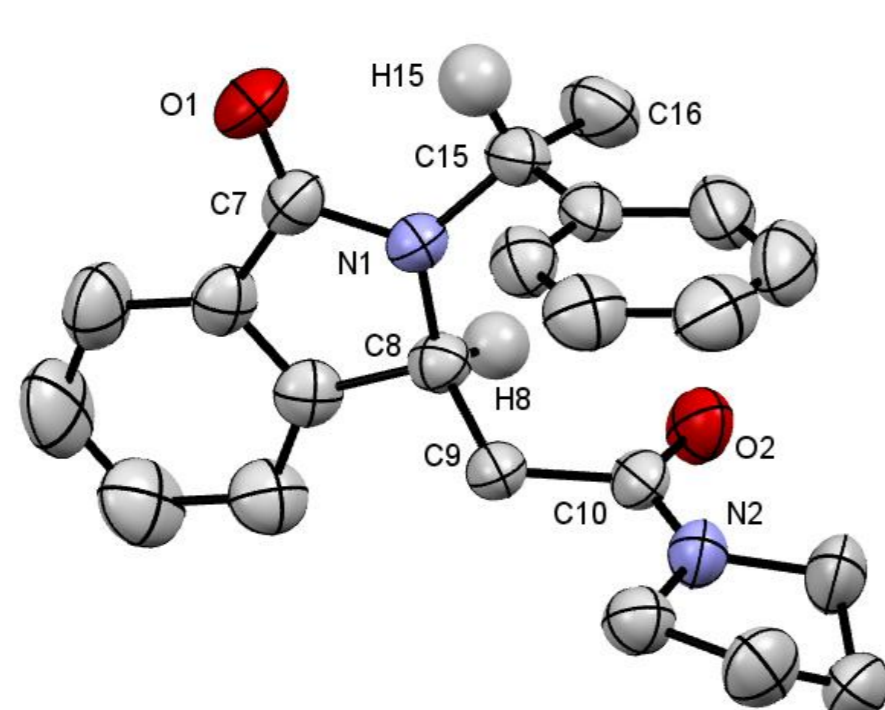
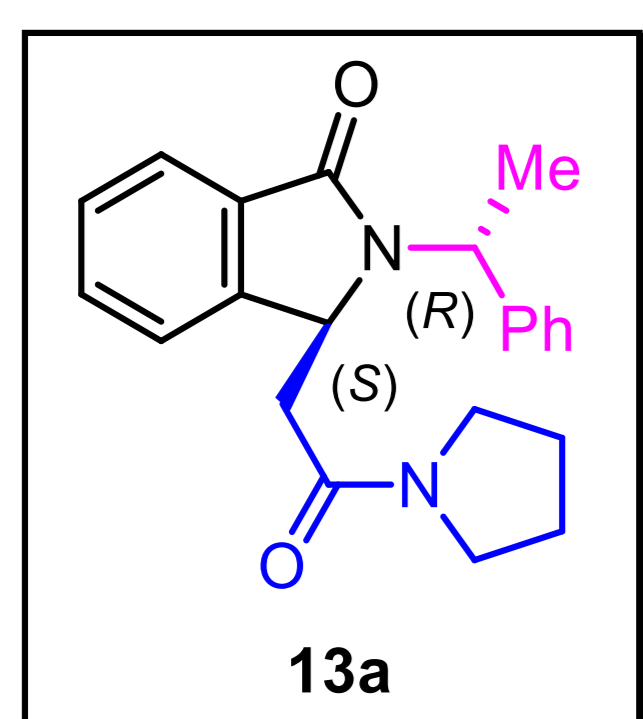
### Examples of synthetic pharmacologically active chiral 3-(N,N-disubstituted)acetamido isoindolinones (benzodiazepine receptor agonist)



### Synthesis of 3-substituted isoindolinones



$\text{Cs}_2\text{CO}_3$  (1.3 eq.)  
toluene  
r.t., 36 h



### Application to total synthesis of (S)-Pazinaclone analogue

