



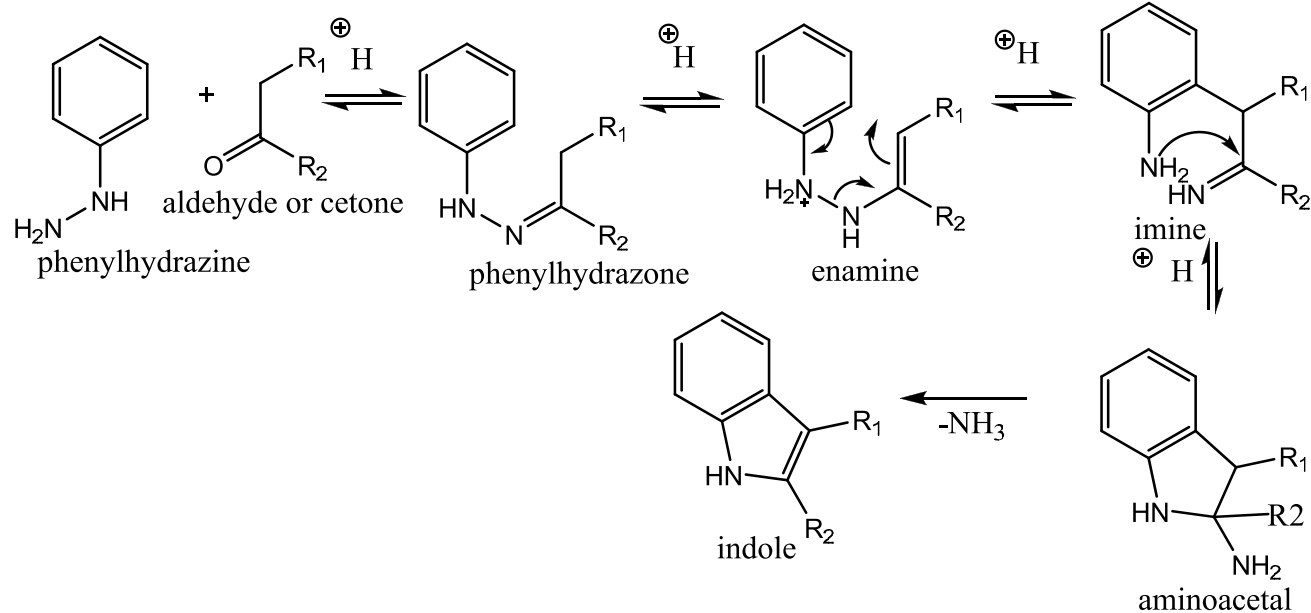
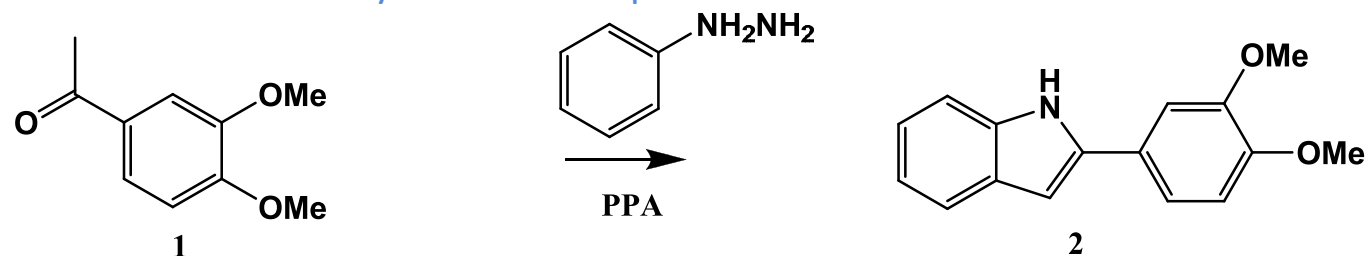
Total synthesis of strychnine

The strychnine is a natural product isolated in 1812 from the seeds and bark of *strycnos nux vomica* by Pelletier and Caventous.

Pelletier & Caventou, *Ann. Chim. Phys.* **1818**, 8, 323.

Very toxic compound (LD₅₀ = 10 mg/kg).

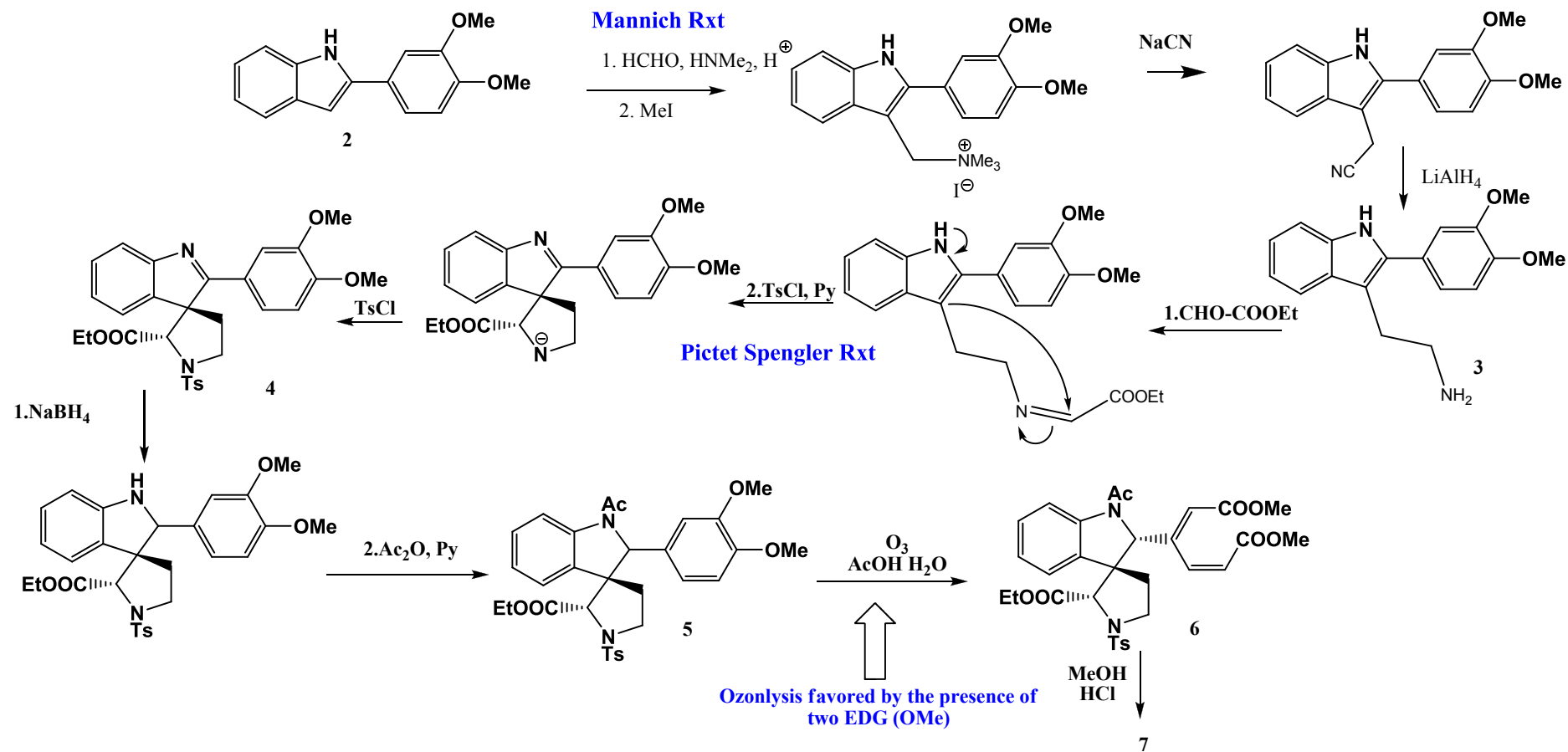
1. Mécanisme de la synthèse indolique de Fisher

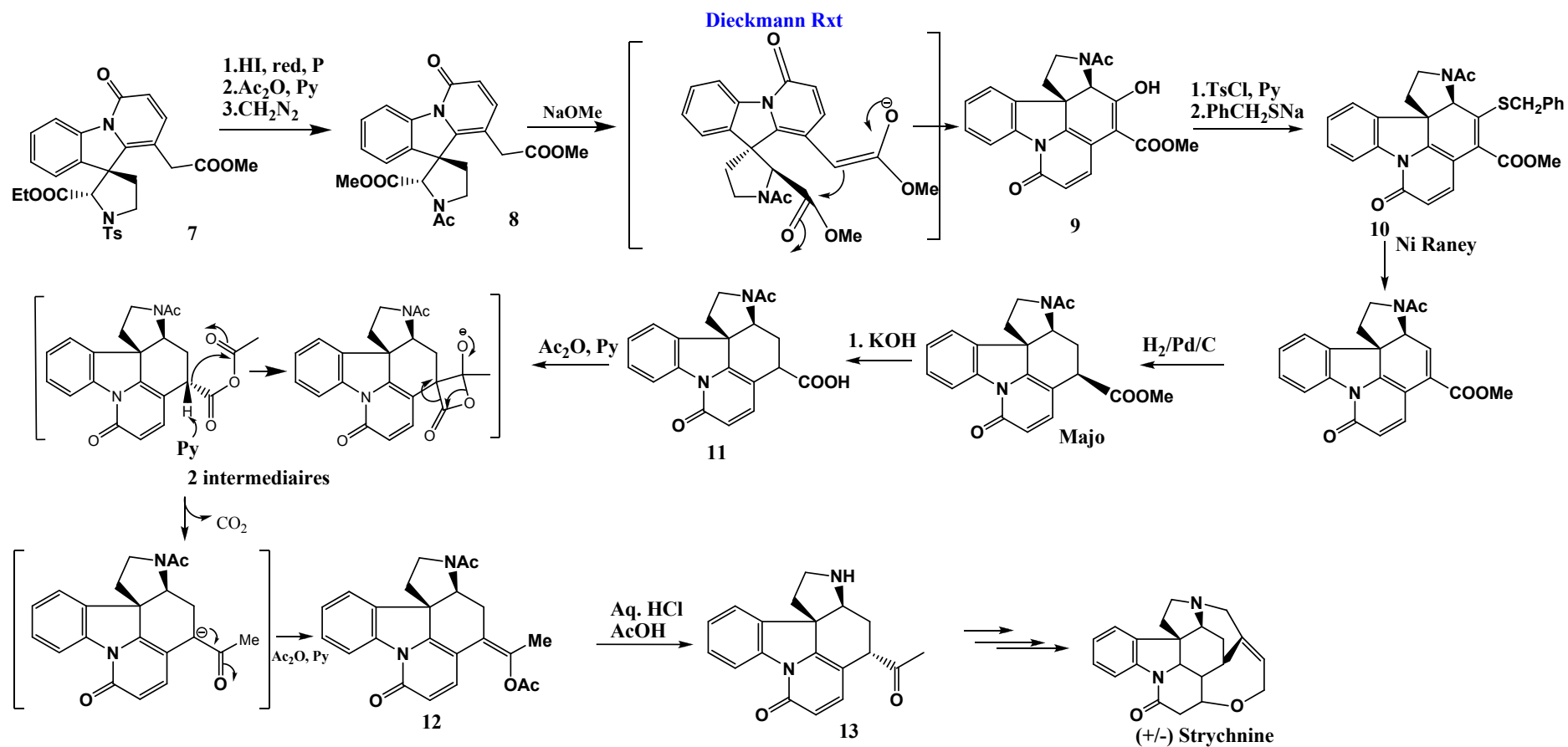


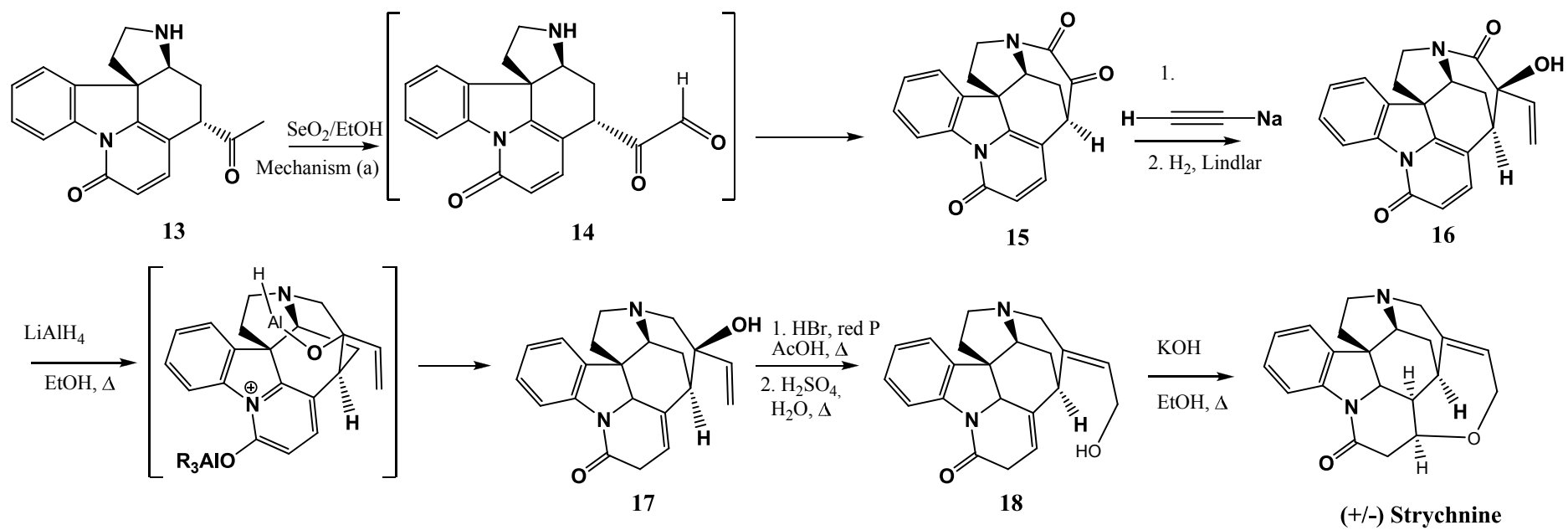
Massaba Keita
Doctorante équipe D3-4
Labo. Chimie thérapeutique
& Abdallah Hamze
Mdc équipe D3-1
Labo. Chimie thérapeutique

Woodward's Total Synthesis of strychnine (1954).

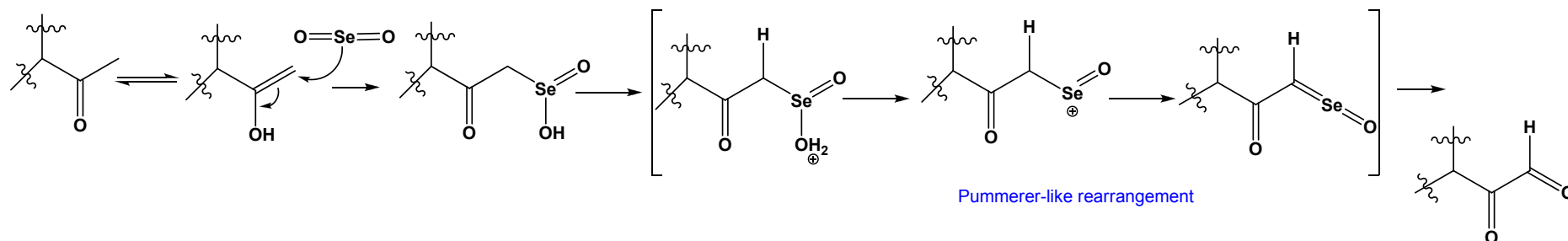
Woodward et al. *J. Am. Chem. Soc.* 1954, 76, 4749-4751.







^a Oxidation Mechanism with SeO₂



In the literature 14 total synthesis

• R. B. Woodward – 1954 • Philip Magnus – 1992 • Gilbert Stork – 1992 • Larry E. Overman – 1993 • Martin E. Kuehne – 1993 • Viresh H. Rawal – 1994 • Josep Bonjoch & Joan Bosch – 1999 • Stephen F. Martin - 1996-2001 • Michael Eichberg & Peter Vollhardt – 2000 • Graham J. Bodwell – 2002 • Miwako Mori – 2002 • Masakatsu Shibasaki – 2002 • Tohru Fukuyama – 2004 • Albert Padwa – 2007.

Pour toute erreur veuillez me contacter sur mon adresse e.mail : abdallah.hamze@u-psud.fr