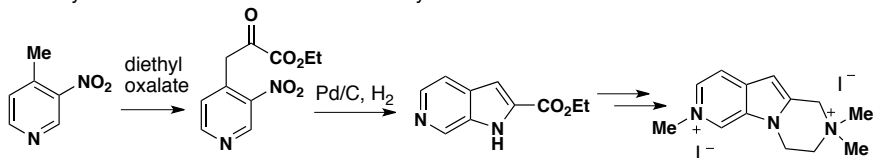


## Syntheses of azaindoles by using classic indole syntheses

	4-azaindole	5-azaindole	6-azaindole	7-azaindole
Reissert synthesis	●	●	●	●
Batcho-Leimgruber synthesis	●	●	●	●
Hemestsberger-Knittel Synthesis	●	●	●	●
Bartoli Synthesis	●	●	●	○
Fischer Synthesis	●	○	●	○
Madelung Synthesis	●	●	●	●
Lorenz Synthesis	●	●	●	●
Larock Synthesis	●	●	●	●
Hegedus-Mori-Heck Synthesis	●	●	●	●

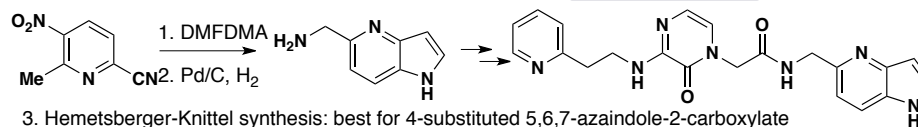
● ● ● ○  
good → bad

## 1. Reissert Synthesis: best for 6-azaindole-2-carboxylate

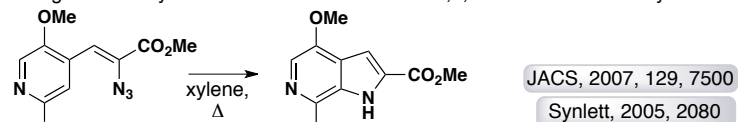


## 2. Batcho-Leimgruber synthesis: best for 4,5,6-azaindole

BMCL, 2003, 13, 795



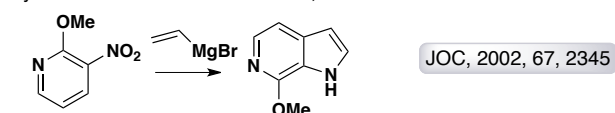
## 3. Hemetsberger-Knittel synthesis: best for 4-substituted 5,6,7-azaindole-2-carboxylate



JACS, 2007, 129, 7500

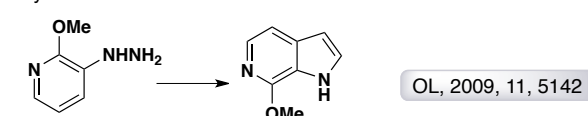
Synlett, 2005, 2080

## 4. Bartoli synthesis: best for 7-substituted 4, 6-azaindole



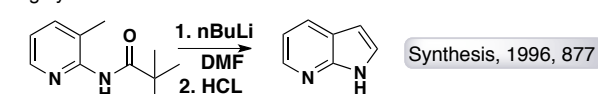
JOC, 2002, 67, 2345

## 5. Fischer synthesis: best for 7-substituted-6-azaindole or 5-substitute-4-azaindole



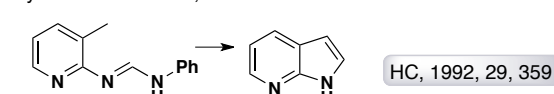
OL, 2009, 11, 5142

## 6. Madelung synthesis: best for 7-azaindole



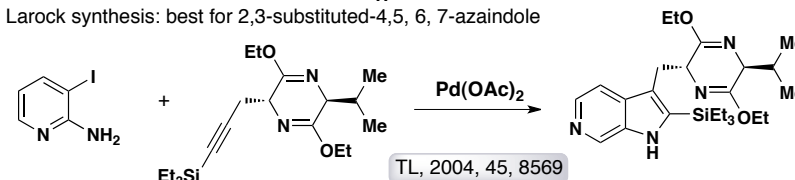
Synthesis, 1996, 877

## 7. Lorenz synthesis: best for 4, 7-azaindole



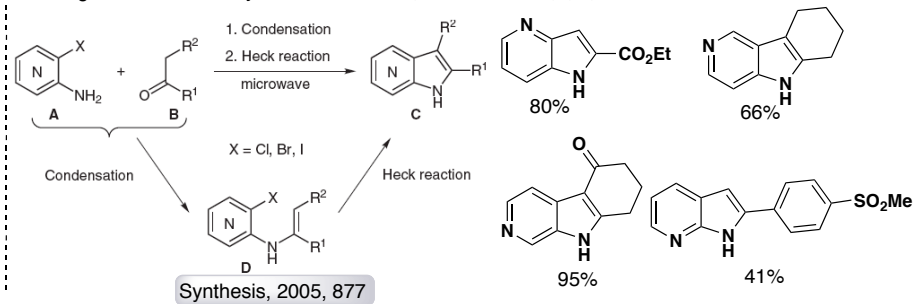
HC, 1992, 29, 359

## 8. Larock synthesis: best for 2,3-substituted-4,5, 6, 7-azaindole



TL, 2004, 45, 8569

## 9. Hegedus-Mori-Heck synthesis: best for 2,3-substituted-4,5, 6, 7-azaindole



Synthesis, 2005, 877