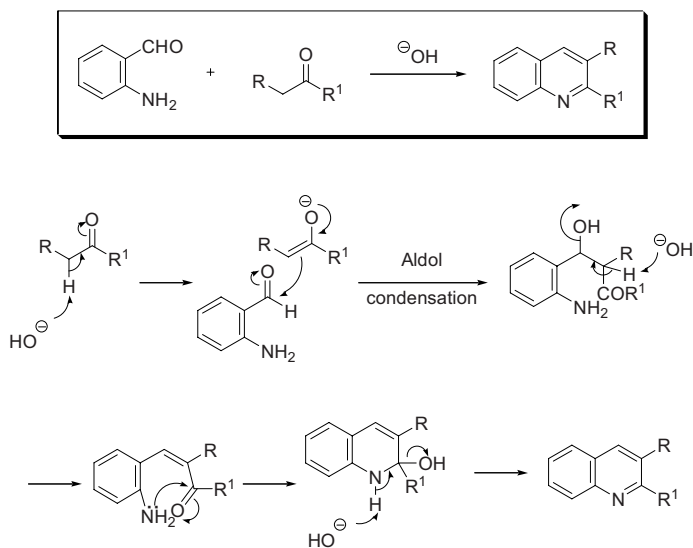
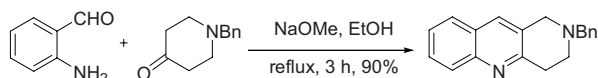


## Friedländer quinoline synthesis

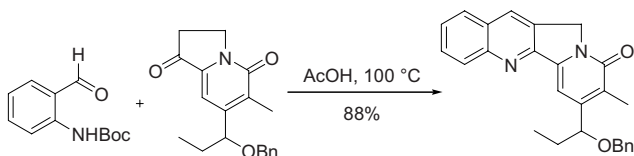
The Friedländer quinoline synthesis combines an  $\alpha$ -amino aldehyde or ketone with another aldehyde or ketone with at least one methylene  $\alpha$  adjacent to the carbonyl to furnish a substituted quinoline. The reaction can be promoted by acid, base, or heat.

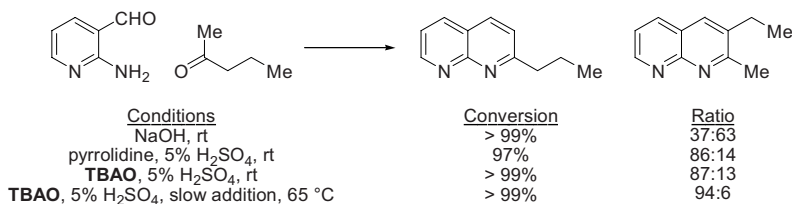


### Example 1<sup>5</sup>

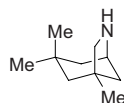
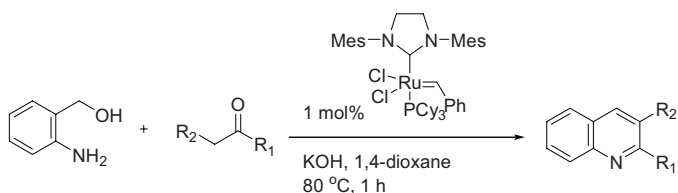


### Example 2<sup>7</sup>



Example 3<sup>8</sup>

TBAO = 1,3,3-trimethyl-6-azabicyclo[3.2.1]octane

Example 4<sup>10</sup>

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