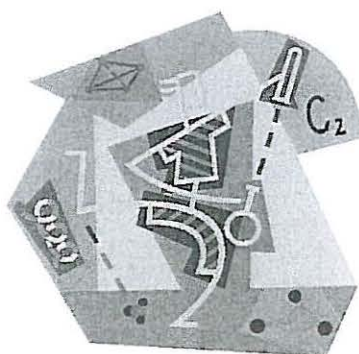




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## Synthesis of Diarylamines in the Benzo[*b*]Thiophene Series Bearing Electron Donating or Withdrawing Groups

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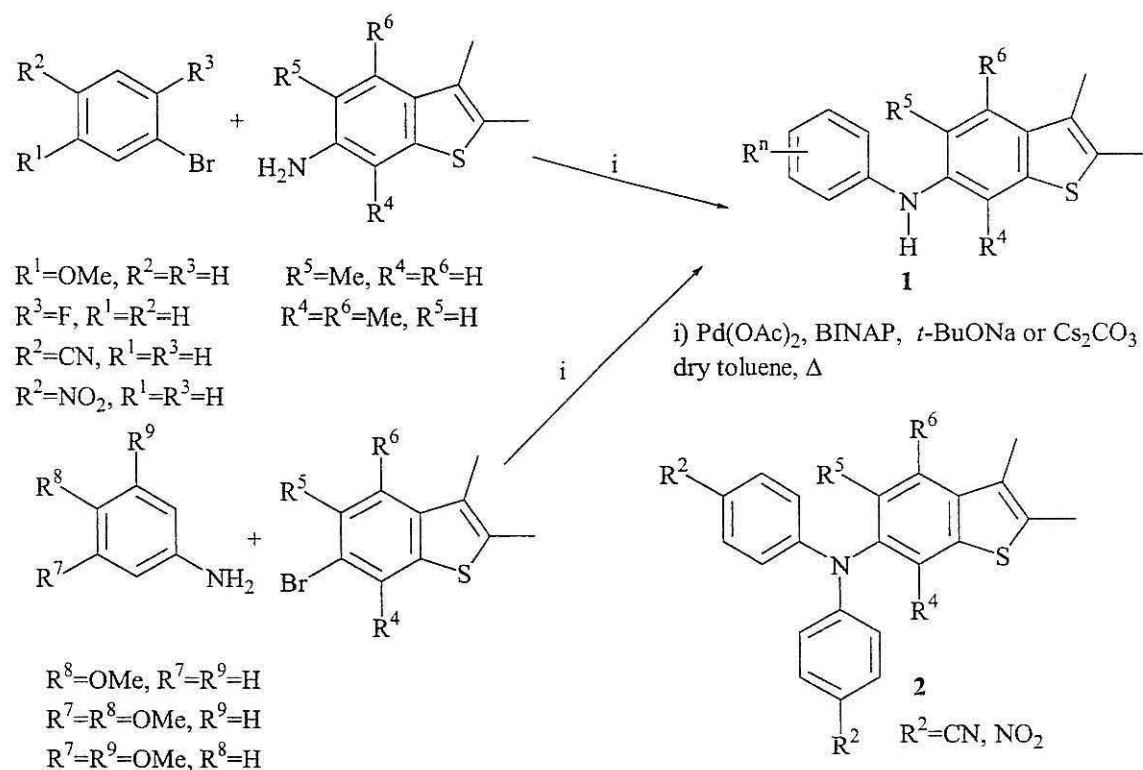
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The synthesis of diarylamines has attracted a great deal of interest due to their importance in diverse fields as natural biological active products and analogues, photography and materials science.

Herein we report the synthesis of diarylamines **1** bearing electron donating or withdrawing groups by palladium catalysed amination, in good yields (50%-quantitative yield) using two different bases and choosing the right components.



In some cases ( $R^2 = \text{NO}_2$  or CN) a small amount of the corresponding triarylamines **2** was also obtained. All the compounds were fully characterized by  $^1\text{H}$ ,  $^{13}\text{C}$  nmr, mass spectrometry and elemental analysis.

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