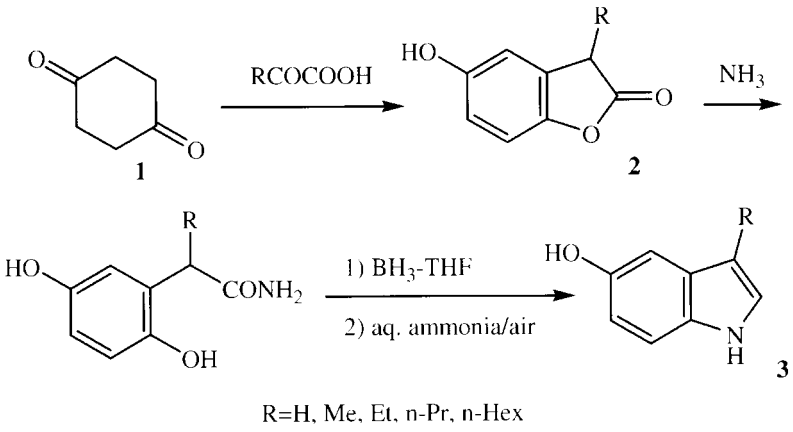
Heterocycles, **51 (4)**, 727-731 (1999)

Synthesis of 5-Hydroxyindan-2-ones and Indol-5-ols from 1,4-Cyclohexanedione

Yutaka Ozaki (尾崎 裕), Zhe-Shan Quan, Kyouko Watabe (渡部 享子), and Sang-Won Kim (金 相元)

1,4-Cyclohexanedion (1) reacted with 2-oxocarboxylic acids to give 5-hydroxyoxaindan-2-ones (2) including homogentisic lactone in one pot. The obtained aromatic compounds were transformed into indol-5-ols (3) in a few steps.

The sequential reactions showed a significance of 1,4-cyclohexanedion as a starting material in aromatic synthesis and an alternative access to the indol-5-ols.



R=H, Me, Et, n-Pr, n-Hex

chart 1