

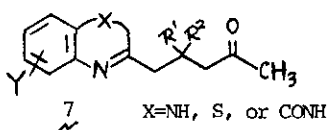
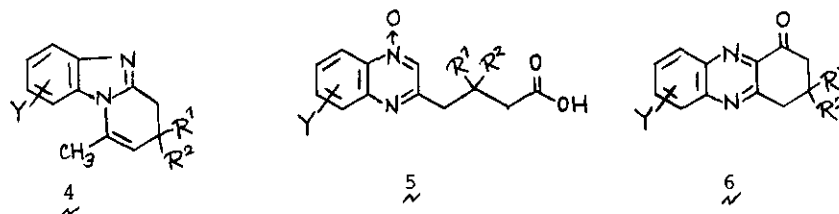
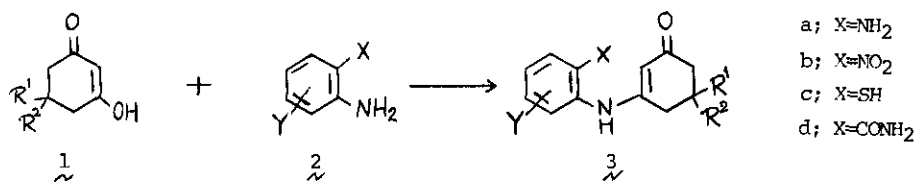
APPLICATION OF 3-(*o*-SUBSTITUTED ANILINO)-2-CYCLOHEXEN-1-ONES IN THE SYNTHESIS
OF NEW HETEROCYCLIC RING SYSTEMS

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The synthetic routes leading to new heterocyclic ring systems have been investigated, starting with enamino-ketones (3) which are readily available from the condensation of cyclohexan-1,3-diones (1) with *o*-substituted anilines (2).

As a result, the enamino-ketones; 3-(*o*-substituted anilino)-2-cyclohexen-1-ones (3) was proved to be quite convenient starting materials to the synthesis of 4, 5, or 6 which had been much less accessible according to the known preparative methods. It has also been observed that on heating under acidic media enamino-ketones, 3a, 3c, and 3d underwent ring-cleavage reaction and finally gave rise to the compounds which is represented as a general formula 7.



R¹ (R²) = H, alkyl, or phenyl
Y = H, Me, MeO, or Cl etc.