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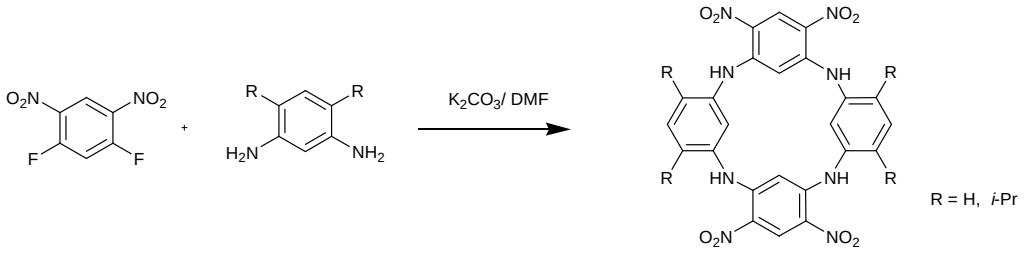
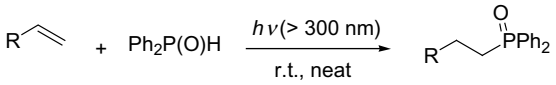
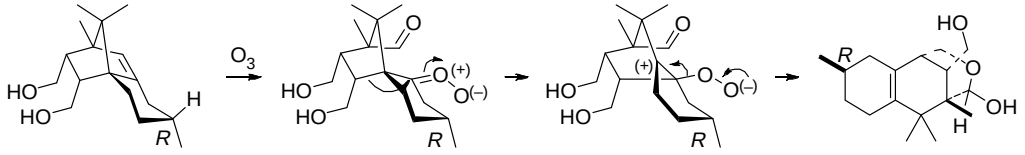
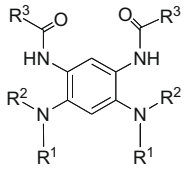
Contents

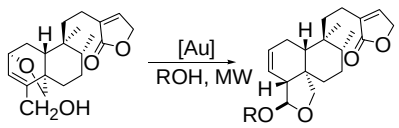


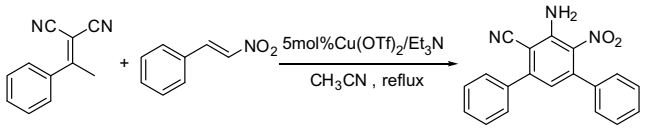




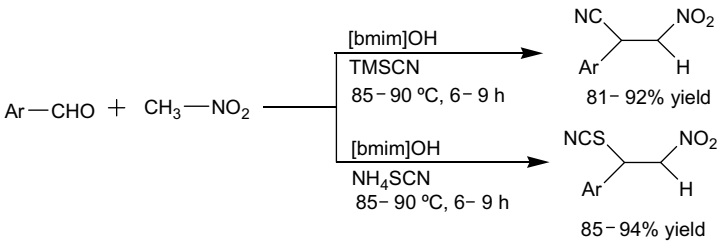


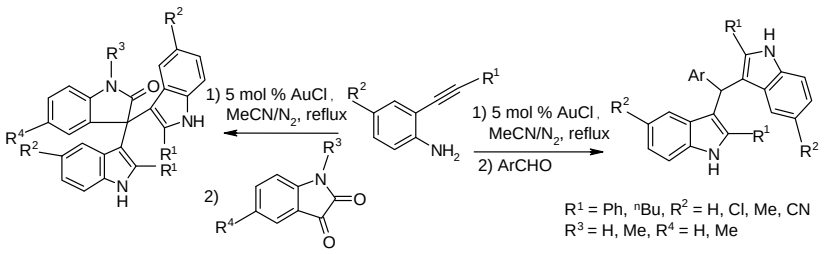
A new preparation of N-substituted 1,3-diamino-4,6-diamidobenzenes allowed the access to the first N-alkylamino derivatives for which a fine-tuning of the N–R substituents should enlarge the scope of this family of molecules.

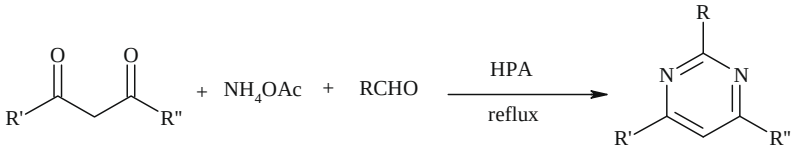




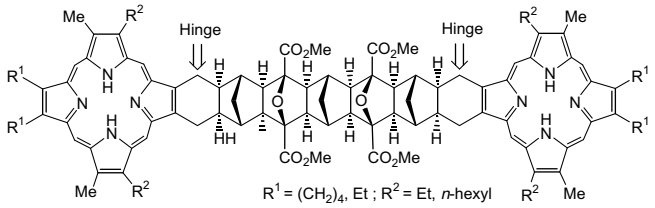
A simple and efficient one-pot synthesis of polyfunctionalized benzenes has been developed via cyclocondensation of activated α-methylene alkenes such as vinyl malononitriles and ethyl vinyl cyanoacetates with nitroolefins using $Cu(OTf)_2/Et_3N$ as a novel catalytic system.

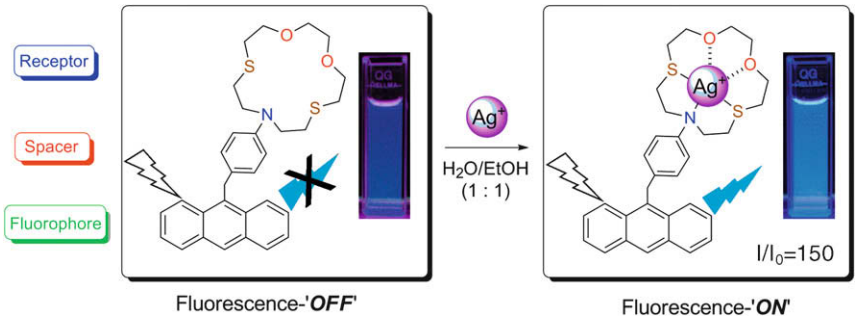


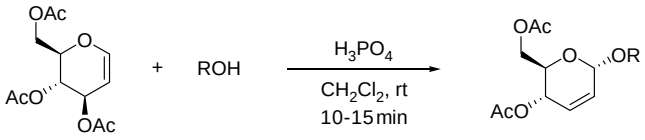


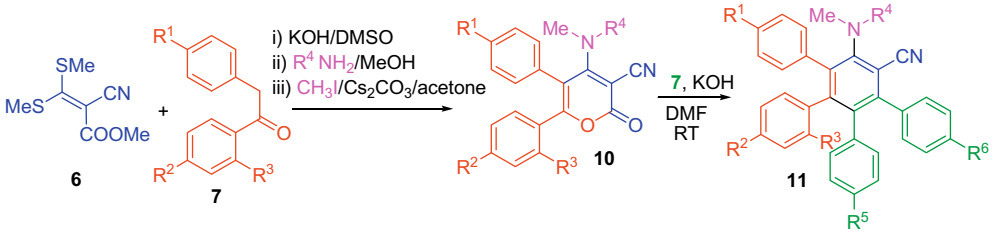


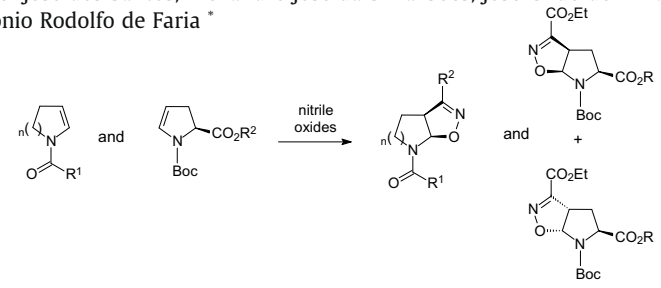
Pyrimidines are synthesized via a direct oxidative one-pot, three-component, reaction between 1,3-diketone, benzaldehydes, and ammonium acetate in the presence of catalytic amounts Keggin-type heteropolyacids under reflux in good yields.



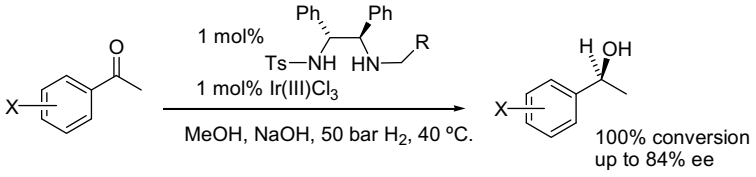


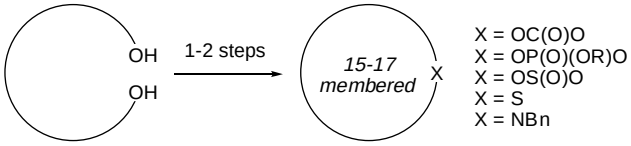


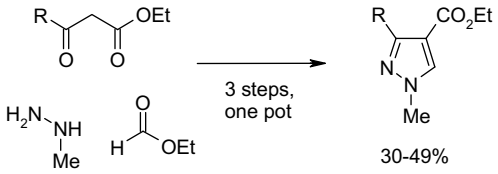




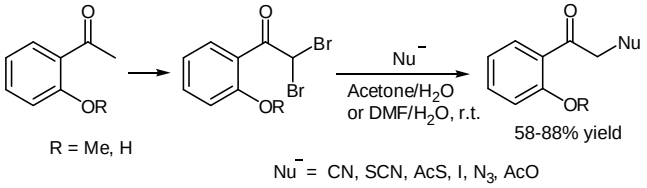
n = 1 or 2; R = Me, Bn; R^1 = aryl, OEt, OBn; R^2 = CO_2Et, $CONH_2$, aryl, 2-furfuryl.

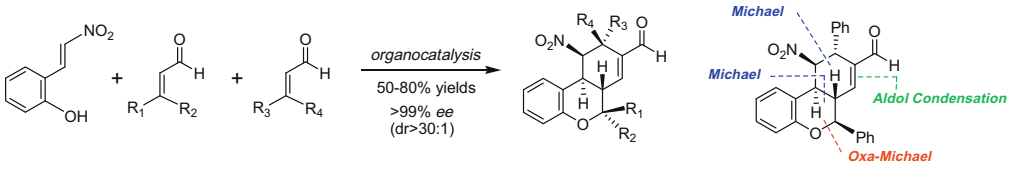


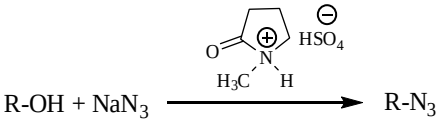


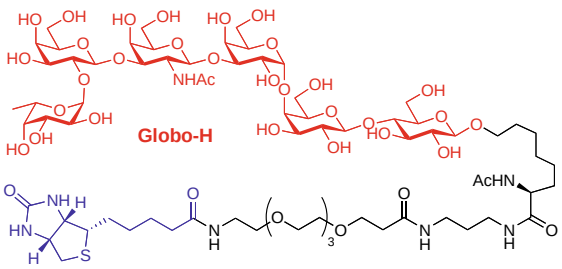


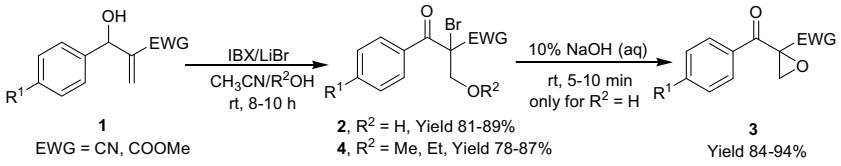
A three-step, one-pot process for the regioselective production of 1,3,4-trisubstituted-1*H*-pyrazoles has been developed, exploiting readily available and cheap raw materials. The process is operationally simple and has been applied to a range of examples, with yields of 30–49% being obtained.

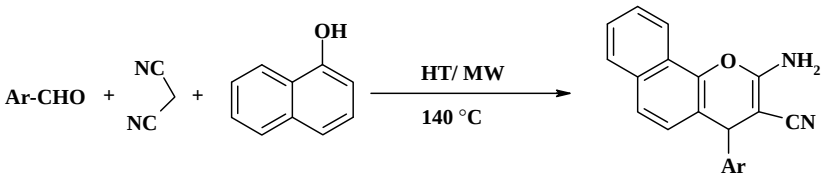


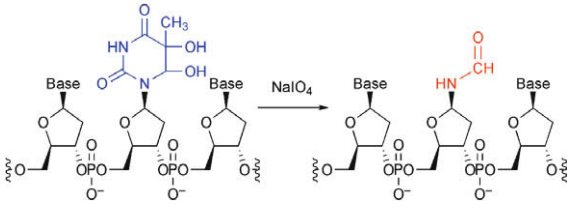












Oxidation of thymidine glycol with sodium periodate efficiently produced *N*-(2-deoxy-β-D-*erythro*-pentofuranosyl)formamide. This method was successfully applied to the conversion of thymine glycol in oligonucleotides into the formamide lesion.

OTHER CONTENT

*Corresponding author
Supplementary data available via ScienceDirect

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