ONE-POT SYNTHESIS OF DIAZANAPHTHALENE DIMERS AND TRIMERS VIA C-H SUBSTITUTION

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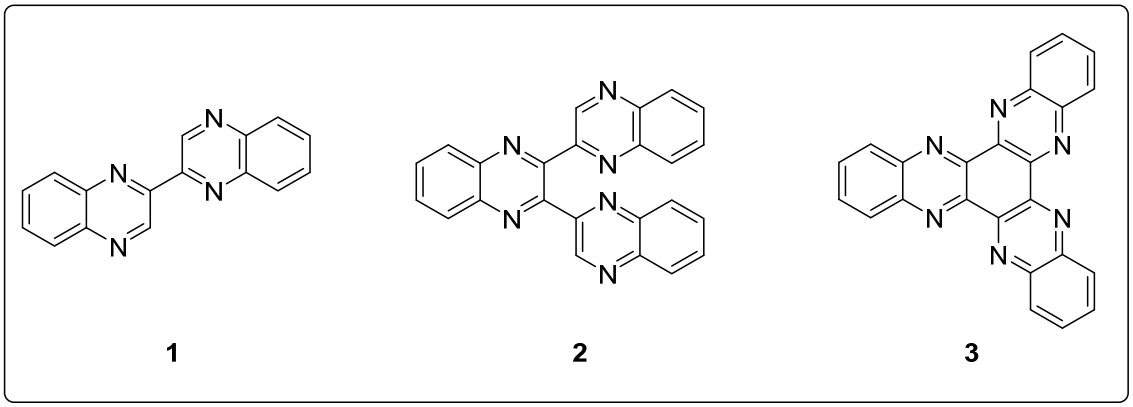
Diazanaphthalene derivatives are very important in hetero, bioorganic and pharmaceutical chemistry. On the other hands, dimeric bi- naphthyridines are most widely used in coordination chemistry due to their exceptional ligands capacity. They have been extensively used as versatile building blocks in the fields of analytical, photo-, supra-, nano-, and macromolecular chemistry applications [1, 2]. For this reason, there has been tremendous interest in the new and efficient synthesis of diazanaphthalene derivatives, especially dimeric forms of these compounds. Studies on dimerization of naphthyridines by the reaction of substrate with *n*-BuLi presence of 2,2,6,6-tetramethylpiperidine (TMP) resulted in the formation of the target dimer and trimmers such as 1-3 in high yields by C-H substitution reaction. The reactions of a number of naphthyridines allowed us high yielded syntheses of several new heterocyclic compounds.



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[2] Wang, H.Y., Shi, J.J., Wang, C., Zhang, X.X., Wan, Y., & Wu, H., **2012**. Novel fluorescence dyes based on entirely new chromeno [4, 3, 2-de][1,6]naphthyridine framework. Dyes Pigments, 95, 268.