PROGRAM AND ABSTRACT BOOK

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SYNTHESIS OF (1-ARYL-1,2,3-TRIAZOL-4-YL)-7-DEAZAPURINES AND PURINES

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Adjacent bis-heterocycles are an important structural motif in natural products and ligands for transition metals. Many heterocycles containing embedded 1,2,3-triazole core possess a wide range of biological activity. In addition, 1,2,3-triazole-(deaza)purine conjugates exhibit valuable photoluminescence properties. In this context, we report herein on the synthesis of (1-aryl-1,2,3-triazol-4-yl)-7-deazapurines and purines.

For the construction of the target molecules, the Sonogashira coupling of 2,6-dichloro(deaza)purines 1 with trimethylsilylacetylene and following CuAAC reaction of 2, 3 with arylazides has been used.

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References