## Organiskā ķīmija / Organic chemistry



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## SYNTHETHIC PATHWAYS TOWARDS PURINE DERIVATIVE AS A POTENTIAL MOLECULAR SYSTEM FOR THE PHOTO-CATALYSIS

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Target purine compound **2** was designed with an aim to be used as a potential system for photo-catalysis. For the synthesis of **2**, derivatization of C(6), C(8) and N(9) positions of 6-chloropurine (**1**) with **A**, **B** and **C** moieties is required. Several synthetic pathways were designed and have been tested. In the end, target compound **2** was obtained, using the combinations of S<sub>N</sub>Ar, S<sub>N</sub>2, CuAAC, C-C metal catalyzed coupling, alkylation and Mitsunobu reactions and these results will be discussed.

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