



Contribution ID: 2

Type: **not specified**

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

Friday, 17 March 2023 11:00 (20 minutes)

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_NAr, S_N2, CuAAC, C-C metal catalyzed coupling, alkylation and Mitsunobu reactions and these results will be discussed.

Primary authors: BURCEVS, Aleksejs (Riga Technical University); NOVOSJOLOVA, Irina

Presenter: BURCEVS, Aleksejs (Riga Technical University)

Session Classification: Organic chemistry session