



Contribution ID: 5

Type: **Oral presentation**

COBALT-CATALYZED AMINO ACID C(sp²)-H BOND FUNCTIONALIZATION USING ORGANIC ISOCYANIDES

Friday, 11 February 2022 11:00 (20 minutes)

Over the last decade, high-valent cobalt catalysis has earned a place in the spotlight as a valuable tool for C-H activation and functionalization. The use of cobalt (II) salt catalysts in combination with bidentate directing groups has been proven to be an effective strategy for various C-H bond transformations. Not only cobalt is less expensive alternative to third row noble metals, but also displays similar reactivity and regioselectivity. Very recently, our group has developed a methodology for cobalt-catalyzed carbonylation of phenyl alanine derivatives employing picolinamide (PA) as a traceless directing group. We have further developed this methodology by introducing isocyanides as C-H functionalization reagents. Herein we report a novel and efficient picolinamide directed method for the synthesis of 1,2-dihydroisoquinolines via Co-catalyzed C-H functionalization of amino acid derivatives using organic isocyanides.

Primary author: ČIŽIKOVŠ, Aleksandrs (Latvian Institute of Organic Synthesis)

Presenter: ČIŽIKOVŠ, Aleksandrs (Latvian Institute of Organic Synthesis)

Session Classification: Oral Presentations

Track Classification: Organic Chemistry: Oral Presentation