

**Project 2.11 Dual Catalytic System Based on Combination of MHAT and SH2 Mechanisms:
A Novel Platform for Formal Cross-Coupling of Transient Radicals**

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Background:

The main tasks will involve:

- design and synthesis of base-metal-complexes,
- investigation of new catalytic radical reactions including photo- or electrochemistry,
- mechanistic investigations,
- scope and limitation studies,
- data analysis using state-of-the-art techniques (e.g. NMR, GCMS, CV),
- preparation of reports and publication manuscripts

Aim:

The main goal of this project is to develop novel radical reactions based on a MHAT/SH2 dual catalytic system.

Requirements:

- Master's degree or equivalence in chemistry (awarded before 01.10.2023),
- strong organic chemistry knowledge,
- previous experience with synthetic chemistry laboratory techniques,
- communicate well in English in writing and in oral presentation, be able to write reports in English,
- high self-motivation,
- ability to plan and perform work independently and as a part of a team