



Open position for LMU-CSC scholarship candidates 2027

Department/Institute: Department of Chemistry

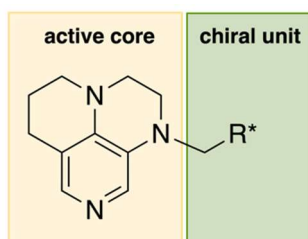
Subject area: Organic Chemistry

Name of supervisor: Prof. Dr. Hendrik Zipse

Number of open position: 1

Project title: Enantioselective Lewis Base Catalysis

Project description: Building on earlier research efforts in organocatalytic



transformations in the Zipse group, the project aims at the development of novel chiral Lewis base catalysts combining a catalytically active diaminopyridine core unit with a chiral side chain of variable size and structure. This construct will be tested

in various stereoselective C-C bond forming reactions such as the Michael addition reaction or the Morita-Baylis-Hillman reaction. From a methodological point of view, the project combines catalyst and substrate synthesis, product characterization with cp-HPLC and NMR techniques, reaction kinetics simulations, and computational studies towards the development of quantitative structure/activity relationships.

Project time plan:

Full Doctoral Study-Model: 36 months

Language requirements:

English (B2 level)

Academic requirements:

Full master level education in the molecular sciences (broadly defined)

Contact information of supervisor:

Prof. Hendrik Zipse

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To applicants:

➤ please attach resume and research motivation letter