

LERU STudent REseArch Mobility Programme (STREAM)
Project proposal



Host University:
Università degli studi di Milano

Field:
Chemistry

Specified field, subject:
Organic chemistry

Research project title:
Use of chiral supramolecular ligands in Pd-catalysed enantioselective allylic substitution reactions

Possible starting month(s):

Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
				x							

Possible duration in months:

1	2	3	4	5	6
					x

Suitable for students in: 2nd cycle (Master students)

Prerequisites: English language spoken and written, good knowledge of organic synthesis

Restrictions: none

Description:

The proposed research aims at applying the concepts of supramolecular catalysis to Pd-catalysed asymmetric allylic substitution (AAS) reactions, in order to achieve good activity and enantioselectivity employing monodentate ligands of simple preparation. This goal will be pursued exploiting two classes of chiral supramolecular ligands (PhthalaPhos and BenzaPhos) recently developed by the research group of Prof. Cesare Gennari, which will be employed for the Pd-catalysed allylation of a series of substrates.

Faculty or Department Department of Chemistry - Università degli Studi di Milano

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