PERSONA CIÈNCIA EMPRESA
UNIVERSITAT RAMON LLULL

Title: Cu-catalyzed reactions with flow chemistry

Place: IQS. Flow Chemistry research laboratory
Contact: javier.fernandez@iqs.url.edu

Summary: Flow Chemistry is acquiring a key importance in the Fine Chemistry and Specialties industry. It allows, among other advantages, to automate processes, increase quality, minimize safety problems, reduce development times and lower investment in facilities. In addition, it is perfectly in line with the philosophy of the concept "Quality by design" which is the present and the future of manufacturing in the pharmaceutical field. The present work consists of the study of chemical transformations catalyzed by Cu through flow chemistry using copper tubing both as reactor and catalyst. All the main variables involved in the reaction (T, residence time, solvent…) will be studied to understand the effect of these variables in the reaction performance and the product purity.