



evropský
sociální
fond v ČR



EVROPSKÁ UNIE



MINISTERSTVO ŠKOLSTVÍ,
MLÁDEŽE A TĚLOVÝCHOVY



OP Vzdělávání
pro konkurenceschopnost



INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

Propojení výzkumu a vzdělávání v oblasti medicínální chemie
reg. číslo: CZ.1.07/2.3.00/30.0060

Závěrečná zpráva ze zahraniční stáže/ Report from foreign intership

Účel cesty/Aim of travel: Foreign intership for project PropMedChem

Účastník/Participant: Pilar Ventosa Andrés, PhD

Doba trvání cesty/Duration of travel: From 1/10/2013 to 30/11/2013

Místo/Location: University of Notre Dome (Indiana, USA)

Zpráva/Report:

The main aims of the internship were the synthesis, characterization and biological evaluation of novel heterocyclic compounds on solid phase. Based on the N-acylimium ion methodology previously applied in the Viktor Krchňák's group for the synthesis of six-member ring heterocycles, the extension to seven and eight-member ring was studied.

The objectives achieved during this period were:

- Synthesis of linear compound on solid phase which are able to form 7, 8 and 9-member ring.
- Study of the regioselectivity and stereoselectivity in the formation of 7 member-ring, based on the nature of the formed N-imium ion.
- Incorporation of different nucleophiles in the linear compounds which are able to form fused cycles.
- Complete NMR characterization of these new compounds.
- Conformational studies in solution of these heterocycles. To that propose, a study of the intermolecular H-bond using NMR has been done.
- Biological evaluation of a series of compounds in collaboration with Prof. Marvin Miller (University of Notre Dame, USA)

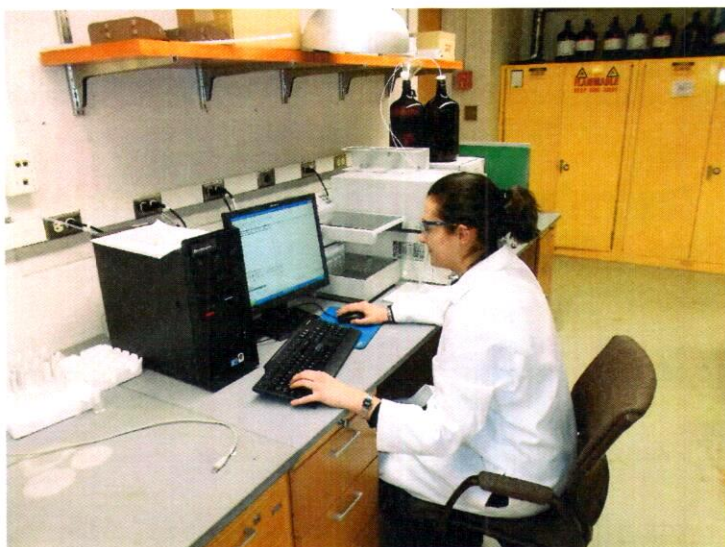
V Praze/Olomouci dne

In Prague/Olomouc, date: 10/12/13

Jméno, podpis/

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Fotodokumentace/Photos:



Tento projekt je spolufinancován Evropským sociálním fondem a státním rozpočtem České republiky.