



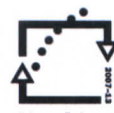
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EVROPSKÁ UNIE



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: *internship*

Účastník/Participant: *Magdalena Malachowska-Ugarte*

Doba trvání cesty/Duration of travel: *30.09-28.11.2014*

Místo/Location: *Minsk*

Zpráva/Report:

During the two months long internship in the Institute of Bioorganic Chemistry in Minsk fluorescent derivatives of brassinosteroids (epibrassinolide, castasterone) were obtained. The synthetic pathway was designed and optimised in order to afford the desired steroids. These compounds were subsequently used in order to obtain steroid- BODIPY conjugates linked *via* amide bond.

The obtained compounds were subjected to various biological tests. They showed that bodipy is there and that it is functional in terms of fluorescence. Fluorescent microscopy tests with *Arabidopsis thaliana* plants were performed as well. Roots were exposed to bodipy-labelled brassinosteroids and investigated with microscopy in order to check if bodipy-labelled brassinosteroids penetrate cells. The results of the work were enclosed in the manuscript of an article and sent to *Steroids* journal.

V Praze/Olomouci dne

In Prague/Olomouc, date: 1. 12. 2014

Jméno, podpis/

Name, signature: Magdalena Malachowska-Ugarte

Fotodokumentace/Photos: