



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: Claudio Sperduto

Doba trvání cesty/Duration of travel: 2 months

Místo/Location: Minsk

Zpráva/Report:

During my internship in the institute of Bioorganic Chemistry in Minsk my work focused on the synthesis a fluorescent derivative of brassinosteroid compound in detail 24-epicastosterone. The fluorescent marker designed was a derivative of Bodipy linked to the brassinosteroid by amide bond. The synthesis of the compound was performed in many steps with excellent yield.

This compound was used in various biological tests. In particular it was administrate to some plants like Arabidopsis thaliana in order to see if bodipy is functional in terms of fluorescent. Fluorescent microscopy tests were performed to see if the labelled-brassinosteroid was able to penetrate the membrane cells and link the receptor.

The result of the work will was submitted to the journal *Steroid*.



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V Praze/Olomouci dne 1. 12. 2014
In Prague/Olomouc, date:

Jméno, podpis/
Name, signature... Claudio Spente

Fotodokumentace/Photos: