



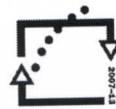
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EVROPSKÁ UNIE



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, Ing., PhD

Doba trvání cesty/Duration of travel: 04.01.-04.03.2014

Místo/Location: Rome

Zpráva/Report:

During the two months internship porphyrin-sucrose derivatives (5 selected compounds) were fully characterised by spectroscopic methods (UV-VIS, fluorescence, CD spectroscopy). Subsequently, the selected porphyrin-sucrose derivative was studied in details - the tendency to form chiral suprastructures and detailed aggregation studies were performed using spectroscopic methods.

For aggregation studies organic solvents (*N,N*-dimethylformamide, acetonitrile, *N,N*-dimethylacetamide)/water mixtures were used. The results revealed clear tendency of the porphyrin-sucrose derivative to aggregate in approximately 60% of water content. In this case RLS spectroscopy was used in order to confirm formation of large aggregates. The outcome of this international cooperation will be an article in peer review journal.

V Praze/Olomouci dne

In Prague/Olomouc, date:

Jméno, podpis/

Name, signature... M. Malachowska-Ugarte