Open PhD position on:

SYNTHESIS OF CD DERIVATIVES AND EXPLORATION OF PILOT SCALE PRODUCTION
in CycloLab, Hungary.

www.cyclolab.hu

Starting date: July 2014

Duration: 36 months

Application deadline: March 31, 2014

Requirements: MSc (Master of Science) degree in Chemistry (or an equivalent level) obtained between 2010 and 2014.

Description of work:
Training in synthetic work, chromatography, NMR, IR. New synthetic routes for the preparation of CDs with antibiotic activity. Preparation of labeled and targeted CD-based nanocarriers for photophysical and biological studies. Conjugation of antibiotics with self-fluorescence such as tetracyclines. Step-by-step scaling up for some selected drug carriers and/or intermediates and evaluation of batch-to-batch reproducibility. The final goal is to get nanocarriers for efficient encapsulation of antibiotics for both intracellular and extracellular delivery to combat resistant bacteria. The PhD student will carry out European-funded research (FP7, Marie Curie ITN Network) and will operate in a network of highly specialized groups in CDs chemistry, photochemistry, in vivo drug evaluation and in vivo applications from academia and industry (http://itn-cyclon.eu/). As a part of the ITN project, the PhD student will spend a period of time (2-2 months) at the University of Almeria, Spain in the Laboratory of Prof. Antonio Vargas-Berenguel and at Vichem company (Budapest, Hungary) in the laboratory of Prof. György Kéri.

Profile:
Applicants should be preferably European Citizens (from EU Member States or Associated Countries) but also Others Third Countries candidates from overseas are eligible (e.g. USA, Canada, Australia, Japan, India, China, etc.). The applicants must not have resided or carried out his/her main activity (work, studies, etc) in Hungary for more than 12 months in the 3 years immediately prior to his/her recruitment. For more details, see: http://ec.europa.eu/research/mariecurieactions/index_en.htm

HOW TO APPLY
A detailed CV, illustrating the candidate's educational background, the list of publications, contributions to conferences, seminars and any other information that is believed appropriate to demonstrate the required skills, together to contact information of at least one referee, should be sent by e-mail to:
Dr. Eva Fenyvesi, E-mail: fenyvesi.e@cyclolab.hu