



Teacher Mobility Program

TÁMOP4.1.1.C-13/1/KONV-2014-0001

**Az élettudományi-klinikai felsőoktatás gyakorlatorientált és
hallgatóbarát korszerűsítése a vidéki képzőhelyek nemzetközi
versenyképességének erősítésére"**

Invited person:

Dr. Perret Florent, Associate Professor

University Lyon 1 (France), Department of Chemistry, Supramolecular chemistry, drug delivery

Program:

20th of July:

Arrival at the Liszt Ferenc Airport , Budapest

Transfer to Debrecen

21st of July:

9.30: Meeting with Dr. Miklós Vecsernyés, Dean of Faculty of Pharmacy

10.00 – 12.00 Presentation of Dr. Florent Perret:

First presentation: Presentation of the University Claud Bernard

Second lecture: Amphiphilic Cyclodextrin Nanoparticles For Biomedical Applications

12.00 – 13.00 Lunch

Address: H-4032 Debrecen, Nagyerdei krt. 98., 4010 P.O. Box 78. Phone: 52-411-717/54013



The projects are supported by
the European Union and co-financed
by the European Social Fund.



UNIVERSITY OF DEBRECEN
FACULTY OF PHARMACY
DEPARTMENT OF PHARMACEUTICAL
TECHNOLOGY



13.00 – 16.00 Scientific presentations of the Researcher of the Department of Pharmaceutical Technology, Discussion about the results with Dr. Florent Perret

1. Siposné Fehér Pálma: Examination method of drug penetration with vertical Franz Diffusion Cells model
2. Eszter Róka: Synthesis of α -cyclodextrin derivatives for in vitro structure-activity studies
3. Zoltán Ujhelyi: Pharmaceutical Characterization of SMEDDS
4. Judit Váradi: Application of Caco-2 cell line in the modelling of inflammatory bowel diseases
5. Ferenc Fenyvesi: Examination of cyclodextrin endocytosis on Caco-2 intestinal cells and its possible role in drug delivery

16.00-18.00: Meeting with the Representatives of the Faculty (Heads and Professors of the Departments, Vice Dean of the Faculty)
Discussion (Cooperational agreement etc.)

22nd of July:

9.30-14.00:

Scientific presentations:

9.30. – 12.00 Dr. Florent Perret: Amphiphilic cyclodextrine nanoparticles for biomedical application, Presentation of the Research of the Department of Supramolecular Chemistry, Claud Bernard University, Lyon 1 (France)

12.00 – 13.00 Lunch

13.00 -16.00

Symposium on Synthetic Carbohydrate Chemistry

Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Debrecen
(Oral presentations in 15 min time-slot)

Address: H-4032 Debrecen, Nagyerdei krt. 98., 4010 P.O. Box 78. Phone: 52-411-717/54013



E-mail: vaszily.maria@pharm.unideb.hu Website: <http://www.pharmacol.dote.hu/pharmacy>



1. Anikó Borbás,^a Magdolna Csávás,^a László Lázár,^b Mihály Herczeg,^a Dániel Eszenyi,^a Miklós Bege,^a Dénes J. Molnár,^a Ádám Hadházi,^a Pál Herczegh,^a

Photoinduced free-radical addition of thiols across endo- and exocyclic double bonds of monosaccharides

^aDepartment of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Debrecen, Hungary

^bDepartment of Organic Chemistry, University of Debrecen, Hungary

2. Mihály Herczeg,^a Erika Mező,^a Dániel Eszenyi,^a László Lázár,^b Eszter Varga,^a Eszter Szilágyi,^a Sándor Antus,^b Katalin, E. Kövér,^c Anikó Borbás^a

Synthesis and anticoagulant activity of 6-sulfonic-acid-containing analogues of Idraparinux

^aDepartment of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Debrecen, Hungary

^bDepartment of Organic Chemistry, University of Debrecen, Hungary

^cDepartment of Inorganic and Analytical Chemistry, University of Debrecen, Hungary

3. Dániel Eszenyi,^a Erika Mező,^a Mihály Herczeg,^a László Lázár,^b Ilona Bereczki,^a Anikó Borbás^a

Synthesis of 6-sulfonatomethyl thioglycosides by nucleophilic substitution and their application in the synthesis of heparinoid trisaccharides

^aDepartment of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Debrecen, Hungary

^bDepartment of Organic Chemistry, University of Debrecen, Hungary

Address: H-4032 Debrecen, Nagyerdei krt. 98., 4010 P.O. Box 78. Phone: 52-411-717/54013



The projects are supported by
the European Union and co-financed
by the European Social Fund.



4. Erika Mező, Mihály Herczeg, Fruzsina Demeter, Anikó Borbás

Simultaneous application of 1,3- and 1,4-dioxane acetal groups for protection of hexopyranosides. Synthesis and chemoselective ring opening reactions

Department of Pharmaceutical Chemistry, University of Debrecen, Faculty of Pharmacy,
Egyetem tér 1, H-4032 Debrecen, Hungary

23rd of July:

9.30: Transfer to Budapest

14.00-18.00 : Official meeting with the Management of Cyclolab Ltd.

Scientific program:

14.00 – 16.00: Dr. Florent Perret: Presentation of the Research of the Department of Supramolecular Chemistry, Claud Bernard University, Lyon 1 (France)

16.0 – 17.00 Eszter Róka: Evaluation of cytotoxicity and transport enhancer effect of commercially available α -cyclodextrins, and new derivative synthesis for further in vitro structure-activity studies

17.00-18.00 Ferenc Fenyvesi/Katalin Réti-Nagy: Fluorescently Labeled Methyl-Beta-Cyclodextrin Enters Intestinal Epithelial Caco-2 Cells by Fluid-Phase Endocytosis

24th of July:

10.00-12.00 Visit into the Plant of Cyclolab Ltd.

12.00 – 13.00 Lunch

13.00 – 17.00 : Final Discussion with the Representatives of Cyclolab Ltd., and Dr. Florent Perret and the Representatives of University of Debrecen, Faculty of Pharmacy,
Resume of Scientific program

Address: H-4032 Debrecen, Nagyerdei krt. 98., 4010 P.O. Box 78. Phone: 52-411-717/54013



The projects are supported by
the European Union and co-financed
by the European Social Fund.



UNIVERSITY OF DEBRECEN
FACULTY OF PHARMACY
DEPARTMENT OF PHARMACEUTICAL
TECHNOLOGY



25th of July:

Departure to Lyon

Address: H-4032 Debrecen, Nagyerdei krt. 98., 4010 P.O. Box 78. Phone: 52-411-717/54013



The projects are supported by
the European Union and co-financed
by the European Social Fund.

E-mail: vaszily.maria@pharm.unideb.hu Website: <http://www.pharmacol.dote.hu/pharmacy>