



Doctoral candidate
Semmelweis University, Budapest, Hungary
<https://www.researchgate.net/profile/Eszter-Kalydi>
Kalydi.eszter@phd.semmelweis.hu

ESZTER KALYDI

FIELD OF RESEARCH Characterization and structural elucidation of cyclodextrin-derivatives and their supramolecular complexes using NMR spectroscopy, investigation of chiral selector properties of cyclodextrin derivatives by capillary electrophoresis and NMR spectroscopy.

EDUCATION **SEMMEWEIS UNIVERSITY, BUDAPEST – DOCTORAL SCHOOL OF PHARMACEUTICAL SCIENCES, PROGRAM OF MODERN TRENDS IN PHARMACEUTICAL SCIENTIFIC RESEARCH**
2019. September –

EÖTVÖS LORÁND UNIVERSITY, BUDAPEST - MSC, CHEMISTRY
2017. September – 2019. June

EÖTVÖS LORÁND UNIVERSITY, BUDAPEST – BSC, CHEMISTRY
2013. September – 2017. July

WORK EXPERIENCE **RESEARCH ASSISTANT, SEMMELWEIS UNIVERSITY, BUDAPEST, HUNGARY**
2023. September –

NMR SPECTROSCOPYST, CARBOHYDE LTD. BUDAPEST, HUNGARY
2022. September –
Structural elucidation of carbohydrate derivatives.

NMR SPECTROSCOPYST, CYCLOLAB CYCLODEXTRIN RESEARCH AND DEVELOPMENT LABORATORY LTD. BUDAPEST, HUNGARY
2020. October –
Structural elucidation of cyclodextrin derivatives, interaction studies of their complexes.

RESEARCH CHEMIST, CYCLOLAB CYCLODEXTRIN R&D LABORATORY LTD. BUDAPEST, HUNGARY
2019. June – 2020. September
Development of synthesis of cyclodextrin derivatives.

JUNIOR CHEMIST, INNOSTUDIO PLC., BUDAPEST, HUNGARY
2018. May – 2019. January
Optimization of synthetic steps in a flow microreactor and evaluation of the corresponding analytical data.

TRAINEE, TOXI-COOP PLC., BUDAPEST, HUNGARY
2017. April – 2018. April
Documentation of pre-clinical studies.

**SCIENTIFIC
EXPERIENCE**

SHORT PRESENTATION – 7TH EUROPEAN CYCLODEXTRIN CONFERENCE 2023

Unlocking the Mysteries of 2-Hydroxypropyl Beta Cyclodextrin: An NMR Spectroscopy Approach to Deciphering Substitution Patterns

POSTER PRESENTATION – 7TH EUROPEAN CYCLODEXTRIN CONFERENCE 2023

Interactions of sugammadex with phytotoxins: Common modes of inclusion and a new potential for the old antidote

POSTER PRESENTATION – 21ST EUROPEAN CARBOHYDRATE SYMPOSIUM 2023

Interaction Study Of Sugammadex With Phytotoxins: New Indications For An Old Antidote?

ORAL PRESENTATION – 20TH INTERNATIONAL CYCLODEXTRIN SYMPOSIUM 2022

Synthesis and characterization of new sugammadex-analogue cyclodextrins

POSTER PRESENTATION – MAGNETIC MOMENTS IN CENTRAL EUROPE 2022

Complete resolution of protonation equilibria of totalsymmetric polycarboxylic cyclodextrin derivatives using ¹H NMR-pH titration and advanced evaluation

POSTER PRESENTATION – CONFERENCE OF THE HUNGARIAN SOCIETY FOR SEPARATION SCIENCES 2021

Synthesis of *N*-heterocycle-substituted cyclodextrin derivatives and their use as chiral selectors in capillary electrophoresis

ORAL PRESENTATION - PHD SCIENTIFIC DAYS 2021, BUDAPEST

Synthesis and characterization of new sugammadex-analogue cyclodextrins

ORAL PRESENTATION - INTERNATIONAL CYCLODEXTRIN SYMPOSIUM – BRIDGE VIRTUAL MEETING 2021

Synthesis and characterization of novel cyclodextrin-based drug-carriers targeting the central nervous system

POSTER PRESENTATION - PHD SCIENTIFIC DAYS 2020, BUDAPEST

Novel cyclodextrin-based drug carriers to target the blood-brain barrier: synthesis, analytical- and *in vitro* characterization

**AWARDS,
SCHOLARSHIPS**

ERASMUS+ INTERNSHIP MOBILITY PROGRAM

Two-months internship in the Institute of Nanoscience & Nanotechnology, National Centre for Scientific Research „Demokritos”, Aghia Paraskevi, Greece, April-June 2023)

CYCLONET YOUNG INVESTIGATORS TRAINING PROGRAM 2019

Two-months scholarship in the Institute for Organic Synthesis and Photoreactivity of the National Research Council of Italy (Bologna, Italy, April-May 2022)

PHD SCIENTIFIC DAYS 2020

I. Award for poster presentation

LANGUAGE SKILLS

ENGLISH COMPLEX LANGUAGE EXAM – B2 level, 2013

GERMAN COMPLEX LANGUAGE EXAM – B2 level, 2012

ITALIAN – B1 level