

Curriculum Vitae

Personal Details

Name: Hong Ha Nguyen Thuy

Date of birth: 8 January 1998

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Current Position

PhD student, Budapest University of Technology and Economics (BME), Faculty of Chemical Technology and Biotechnology, Department of Organic Chemistry and Technology, Innovative Pharmaceutical and Chirotechnological Research Group

Previous Positions

2021-2023 Student researcher, Budapest University of Technology and Economics (BME), Faculty of Chemical Technology and Biotechnology, Department of Organic Chemistry and Technology, Innovative Pharmaceutical and Chirotechnological Research Group

2022 Summer Internship at Semmelweis University Hospital, Metabolism Laboratory of Pediatric Centre

2019-2021 Laboratory Assistant Intern at Egis Pharmaceutical PLC

2019 Summer Internship at Egis Pharmaceutical PLC

Education

2021-2023 MSc in Chemical Engineering, Budapest University of Technology and Economics (BME)

2017-2021 BSc in Chemistry, Specialization in Analytical Chemistry, Eötvös Loránd University, Institute of Chemistry, graduated with honours

2010-2017 Erzsébet Szilágyi Secondary School

Research Experience

- Main research fields are chiral chemistry and liquid chromatography.
- Analysis and study of chromatographical behaviour of atropisomeric 1-phenylpyrrole and chiral 2-indolone ring-based derivatives on polysaccharide chiral stationary phases.

- Direct chiral HPLC Method Development for chiral molecules like example chiral amines.
- Developing chiral resolution processes based on the diastereoisomeric salt formation for chiral molecules.
- Inclusion complexation and conjugation of organic compounds with cyclodextrins.
- Antibacterial activity evaluation assays.
- Protein-based bioanalytical methods: recombinant protein production (bacterial expression systems), characterization (Western-Blot and SDS-PAGE), interaction studies (AlphaScreen and Microscale Thermophoresis).

Fellowships and Grants

- 2023 BME VBK "EuroApi" Scholarship for PhD Students.
- 2022 Certificate of merit, Students' Conference, Budapest.

Most Important Publications Over the Last Five Years

1. Nguyen Thuy, H. H.; Bálint, E.; Mátravölgyi, B. Time-Dependent Resolution of an Atropisomeric 1-Arylpyrrole by a Novel 1-Arylethylamine Saltforming Agent. *Chirality* 2025, 37(10), e70054. IF: 3.0.
2. Horváth, S.; Nguyen Thuy, H. H.; Eke, Zs.; Németh, G. Exploitation of the enantioselectivity space of coated amylose tris(3,5-dimethylphenylcarbamate) in mixtures of 2-propanol and acetonitrile. *J. Chrom. A* 2023, 1705, 464161. IF: 3.8. Independent citations: 6.