

Attila Tököli

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EDUCATION

- PhD, Faculty of Pharmacy, University of Szeged, Hungary 2015–present (graduation expected 2022)
- PharmD, Faculty of Pharmacy, University of Szeged, Hungary 2009–2015

RESEARCH EXPERIENCE

Institute of Medical Chemistry, University of Szeged, Hungary* ----- 2018–present** ***Assistant Research Fellow

Project: “Development of foldameric protein–protein interaction inhibitors”

Supervisor: Professor Tamás Martinek

- Identification of foldameric surface probes for mapping protein–protein interaction hot spots, paving the way for a bottom-up approach for designing inhibitors of protein–protein interactions.
- Investigation of supramolecular self-assembly in foldameric systems.

Institute of Pharmaceutical Analysis, University of Szeged, Hungary* ----- 2015–2018** ***Graduate Researcher

Project: “Development of peptidomimetic inhibitors of *E. coli* single-stranded DNA-binding protein and its interactome”

Supervisor: Professor Tamás Martinek

- Learned basic molecular biology techniques, recombinant protein production in *E. coli*, upstream, downstream processing and bioseparation techniques.
- Learned biophysical methods for detecting and quantifying protein-ligand binding (FA, ITC, pull-down assay)
- Learned solid-phase peptide synthesis and a number of bioconjugation techniques.

PUBLICATIONS

- Anasztázia Hetényi, Enikő Szabó, Norbert Imre, Kaushik Nath Bhaumik, Attila Tököli, Tamás Füzesi, Réka Hollandi, Peter Horvath, Ágnes Czibula, Éva Monostori, Mária A. Deli, Tamás Martinek (2022) *α/β -Peptides as nanomolar triggers of lipid raft-mediated endocytosis through GM1 ganglioside recognition.* **Pharmaceuticals**
- Éva Bartus, Beáta Mag, Áron Bajcsi, Attila Tököli, Gábor Kecskeméti, Edit Wéber, Zoltán Kele, Tamás A. Martinek (2021) *Light-Fuelled Dissipative Replication and Selection in Adaptive Biomimetic Chemical Networks.* **ChemRxiv**
- Attila Tököli, Beáta Mag, Éva Bartus, Edit Wéber, Gerda Szakonyi, Márton A. Simon, Ágnes Czibula, Éva Monostori, László Nyitray and Tamás A. Martinek (2020) *Proteomimetic surface fragments distinguish targets by function.* **Chemical Science.**

SUPERVISORY EXPERIENCE

- Thesis supervisor to three final year pharmacy students: University of Szeged, 2015–2020

TEACHING EXPERIENCE

Institute of Medical Chemistry, Faculty of Medicine, University of Szeged, Hungary-----2018–present Teaching Assistant

- The following 1st year courses: Medical Chemistry practice; Medical Chemistry seminar; Introduction to Medical Chemistry lecture and seminar; Chemistry for Dental Students; Introduction to Medical Chemistry for Dental Students lecture and seminar were my responsibility. Courses were in both English and Hungarian language.

Institute of Pharmaceutical Analysis, Faculty of Pharmacy, University of Szeged, Hungary---2015–2018 Teaching Assistant

- Selected by Dr. Gerda Szakonyi to give Pharmaceutical Biotechnology lectures on her behalf from 2017 to 2019 and in 2021. Lectures given: *Gene expression systems; Bioanalytical Methods and Techniques (Protein Sequence and Structure Determination.; Purification and Characterization of Biotechnological Products.); Biosimilar Proteins in Pharmacotherapy.* Lectures were given in both English and Hungarian.
- Selected by Dr. Gerda Szakonyi to assist in an elective course called Biopharmaceuticals from 2017 to 2019 and in 2021. Lectures given: *Recombinant DNA technology; Expression systems, Purification of proteins; Protein structure determination and other investigation methods; Definition and problems of biosimilar products; Structure-effect context of biotechnological products; examples: insulin, EPO, and growth hormone.* Lectures were given in both English and Hungarian.
- Assisted in the assembly of the curriculum for Pharmaceutical Biotechnology practice and held practices between 2018 and 2019.
- Teaching Pharmaceutical Analysis practice was obligatory during PhD. I was a Teaching Assistant one year before starting PhD studies. I taught this course between 2014 and 2019.

Postgraduate Training Office, Faculty of Pharmacy, University of Szeged, Hungary-----2017–2019 Invited speaker

- Invited by the Postgraduate Training Office 6 times to give lectures to pharmacists on: Antimicrobial Resistance, Development of New Antibiotics (2017–2019).
- Invited by the Postgraduate Training Office twice to give lectures in a Qualified Person training on: Bioanalytics of Biosimilar Products (2018–2019).

CONFERENCES / PRESENTATIONS

Oral

- "Characterization of the bacterial winged-helix domain of RecQ helicase. A novel antibacterial target." 7th BBBB International Conference on Pharmaceutical Sciences. 2017.10.06. Balatonfüred.
- "Characterization of the bacterial winged-helix domain of RecQ helicase. A novel antibacterial target." Hungarian Academy of Sciences, Peptide Chemistry Workshop 2017.05.29. Balatonszemes.

Poster

- Symposium on Foldamers, Bordeaux, France: "Finding allosteric hot-spots on RecQ helicase through β -peptide foldameric fragment library screening," Attila Tököli, Éva

Bartus, Matam Losery Stanley Paul, Gerda Szakonyi, Anasztázia Hetényi, Tamás Martinek

AWARDS

- The Hungarian Academy of Sciences selected "Proteomimetic surface fragments that distinguish targets by function" as *the Publication of the Month* in June 2021.
- In 2021, 2nd place publication award was granted in Ph.D. student category by Kisfaludy Lajos Foundation of Gedeon Richter Co. for "Proteomimetic surface fragments that distinguish targets by function."