

PERSONAL DATA

Márton Benedek Háznagy, Ph.D.

Assistant Lecturer

Institute of Pharmacognosy

University of Szeged, Hungary

Date and place of birth: 14.07.1995, Szeged, Hungary
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RESEARCH PROFILE

- Semi-synthesis and derivatisation of natural products (ecdysteroids and monoterpenoids)
- Design and optimisation of bioactive analogues (antitrypanosomal / antifungal research context)
- Separation methods and applications in natural product research:
 - analytical and preparative NP/RP-HPLC, flash chromatography, RPC, GC

PROFESSIONAL EXPERIENCE

2025 – Assistant Lecturer – University of Szeged, Institute of Pharmacognosy
2023 – 2025: Assistant Research Fellow – University of Szeged, Institute of Pharmacognosy

MENTORING STUDENTS & TEACHING EXPERIENCE

MSc student supervision

PharmD thesis supervision: 2 theses (1 ongoing)

University Courses Taught

2020 – Pharmacognosy – laboratory practices in Hungarian
2023 – Phytotherapy for pharmacy technicians

Lecturer, mandatory pharmacist renewal training (“Seven-Star” accredited), Szeged, Hungary (2022, 2023, 2025)

Lecturer, postgraduate specialist training programme for pharmacists, Szeged, Hungary (2023, 2026)

EDUCATION

2019 – 2023: University of Szeged, Doctoral School of Pharmaceutical Sciences – Institute of Pharmacognosy
Supervisors: Prof. Dr. Attila Hunyadi; Prof. Dr. Zsolt Szakonyi

Title of thesis: Semisynthesis from α,β -unsaturated oxo-terpenes: studies on monoterpene aminodiols catalysts and bioactive ecdysteroid derivatives – PhD defence: 28 November 2025 (summa cum laude)

2014 – 2019: University of Szeged, Faculty of Pharmacy (**Pharm. D.**, summa cum laude)
Supervisor: Prof. Dr. Zsolt Szakonyi

Title of thesis: Synthesis of limonene-based chiral aminodiols and 1,3-heterocycles and their application as chiral catalyst (in Hungarian)

INTERNATIONAL PEER-REVIEWED PUBLICATIONS

Háznagy, M. B.; Girst, G.; Vágvölgyi, M.; Cholke, K.; Krishnan, S. R.; Gertsch, J.; Hunyadi, A. Semisynthetic Ecdysteroid Cinnamate Esters and *tert*-Butyl Oxime Ether Derivatives with Trypanocidal Activity. *Journal of Natural Products* **2024**, 87 (10), 2478–2486. [doi:10.1021/acs.jnatprod.4c00811](https://doi.org/10.1021/acs.jnatprod.4c00811)

IF: 3.6 (2024); Q1

Háznagy, M. B.; Csámpai, A.; Ugrai, I.; Molnár, B.; Haukka, M.; Szakonyi, Zs. Stereoselective Synthesis and Catalytic Application of Perillaldehyde-Based 3-Amino-1,2-diol Regioisomers. *International Journal of Molecular Sciences* **2024**, 25 (8), 4325. [doi:10.3390/ijms25084325](https://doi.org/10.3390/ijms25084325)

IF: 4.9 (2024); D1

Szerencsés, B.; Vörös, M.; Bagi, K.; **Háznagy, M. B.;** Hunyadi, A.; Vágvölgyi, Cs.; Pfeiffer, I.; Vágvölgyi, M. Semi-Synthetic Ecdysteroid 6-Oxime Derivatives of 20-Hydroxyecdysone Possess Anti-Cryptococcal Activity. *Microbiology Research* **2022**, 13 (4), 985–994. [doi:10.3390/microbiolres13040071](https://doi.org/10.3390/microbiolres13040071)

IF: 1.5 (2022); Q3

SCIENTIFIC AWARDS & ACKNOWLEDGEMENTS

2019 – XXXIV National Student Research Conference: Special prize
2018 – Local Student Research Conference: First place
2017 – Local Student Research Conference: Third place
2015 – Competition of the Alumni Association of the University of Szeged (Faculty of Medicine and Faculty of Pharmacy): First place

SCHOLARSHIPS

2022 – 2023: Scholarship of the New National Excellence Program (5 months)
2020 – 2021: EFOP 3.6.3-VEKOP-16-2017-00009 (2020/08)
2019 – 2020: EFOP 3.6.3-VEKOP-16-2017-00009 (2019/09)
2018 – 2019: Scholarship awarded for outstanding study results
2018 – 2019: Scholarship of the New National Excellence Program (5 months)

RESEARCH MOBILITY

2022 – COST Action CA18122: University of Patras, Department of Chemistry, Patras, Greece (May–Jun; 9 weeks)

SCIENTIFIC STUDENT RESEARCH (TDK)

2016 – 2019 University of Szeged, Faculty of Pharmacy, Institute of Pharmaceutical Chemistry
Supervisor: Prof. Dr. Zsolt Szakonyi (2017 – 2019)
Supervisor: Prof. Dr. István Mándity (2016 – 2017)

MEMBERSHIPS

2025 – The Hungarian Chamber of Pharmacists
2022 – The Hungarian Society for Separation Sciences
2017 – The Hungarian Society for Pharmaceutical Sciences – member of Youth Committee
2017 – University of Szeged, Faculty of Pharmacy, Kabay János Professional College

LANGUAGE SKILLS

English: B2 (CEFR), accredited exam (written + oral)

German: B2 (CEFR), accredited exam (written + oral)

ORAL PRESENTATIONS (CONFERENCES)

- Oct 2025 Kaohsiung Medical University College of Pharmacy – Joint Promotion and Sharing Session with the University of Szeged (Kaohsiung, Taiwan)
Title: *Derivatisation of alpha, beta-unsaturated oxo-terpenes: investigations on monoterpene aminodiol catalysts and pharmacologically active ecdysteroid analogues*
- Jun 2025 Nordic Natural Products Conference (Tjörnö, Sweden)
Title: *Design and optimisation of ecdysteroid ester and oxime ether derivatives as potential trypanocidal agents*
- Jun 2025 TwiNSol-CECs International Conference on Environmental and Sustainable Research Solutions (Novi Sad, Serbia)
Title: *Bioactive ecdysteroid analogues: cinnamate esters and tert-butyl oxime ethers with antitrypanosomal properties*
- Sep 2023 13th Balaton Symposium on High-Performance Separation Methods (Siófok, Hungary)
Title: *Application of high-performance separation techniques to the isolation of natural and semisynthetic antitrypanosomal ecdysteroids*
- May 2023 EUGLOH 4th International Symposium of Young Researchers on Medicinal Plants and Natural Product Research (Szeged, Hungary)
Title: *Antitrypanosomal activity of natural and semi-synthetic ecdysteroids*
- Feb 2022 3rd Symposium of Young Researchers on Pharmacognosy (Szeged, Hungary)
Title: *Ecdysteroid ester derivatives – preparation and investigation*
- Feb 2021 2nd Symposium of Young Researchers on Pharmacognosy (online)
Title: *Preparation and investigation of ecdysteroid–cinnamic acid hybrid compounds*
- Nov 2019 1st Symposium of Young Researchers on Pharmacognosy (Szeged, Hungary)
Title: *Preparation of nitrogen-containing ecdysteroids*
- Apr 2019 26th Local Conference of Scientific Students' Associations (Târgu Mureş, Romania)
Title: *Stereoselective Synthesis of Limonene-Based Chiral Aminodiols and 1,3-Heterocycles, and Their Application as Chiral Catalysts* (in Hungarian)
- Apr 2019 XXXIV National Conference of Scientific Students' Associations (Debrecen, Hungary)
Title: *Stereoselective Synthesis of Limonene-Based Chiral Aminodiols and 1,3-Heterocycles, and Their Application as Chiral Catalysts* (in Hungarian)
- Nov 2018 Annual meeting of MTA's Steroid- and Terpenoid Chemical Workgroup (Szeged, Hungary)
Title: *Stereoselective Synthesis of Perillaldehyde-Derived Trifunctional Terpenoids and Their Regioselective Ring Closure* (in Hungarian)
- Nov 2018 Local Conference of Scientific Students' Associations (Szeged, Hungary)
Title: *Stereoselective Synthesis of Perillaldehyde-Derived Trifunctional Terpenoids and Their Regioselective Ring Closure* (in Hungarian)
- Nov 2017 Local Conference of Scientific Students' Associations (Szeged, Hungary)
Title: *Initial Steps Toward the Synthesis of Peptides with Dynamically Tunable Structures* (in Hungarian)

POSTER PRESENTATIONS (CONFERENCES)

- Oct 2025 Advancing Tradition and Innovation: Challenges, Opportunities, and Prospects in Chinese Medicine and Natural Products (Taichung, Taiwan)
Title: *Natural and Semisynthetic Ecdysteroids: Design and Optimisation toward Trypanocidal Activity*
- Jul 2024 International Congress on Natural Products Research (Kraków, Poland)
Title: *Semi-synthetic ecdysteroids as promising new antichagasic agents*
- May 2024 Congressus Pharmaceuticus Hungaricus XVII and EUFEPS Annual Meeting 2024 (Debrecen, Hungary)
Title: *Investigation of Antitrypanosomal Ecdysteroids' Positions in Biologically Relevant Chemical Space*
- Sep 2021 69th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) (online)
Title: *Semisynthetic ecdysteroid-cinnamic derivatives against Trypanosoma cruzi*