



Kovács Hilda

Nationality: Hungarian **Date of birth:** 07/11/1997 **Gender:** Female

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📍 **Work:** Dóm tér 7., 6720 Szeged (Hungary)

WORK EXPERIENCE

Research asisstant

Department of Inorganic and Analytical Chemistry, University of Szeged [01/06/2021 – 31/08/2022]

City: Szeged | Country: Hungary

Assistant researcher fellow

MTA-SZTE 'Momentum' Functional Metal Complexes Research Group, University of Szeged [01/09/2022 – Current]

City: Szeged | Country: Hungary

EDUCATION AND TRAINING

Chemistry Doctoral School

University of Szeged [2022 – Current]

Country: Hungary

Research topic: Investigation of the complexation of anticancer compounds with essential metal ions and the preparation and solution chemistry characterisation of their half-sandwich organometallic complexes

Supervisor: Dr. Éva Anna Enyedy

MSc degree in chemistry

University of Szeged [2020 – 2022]

Country: Hungary

Thesis: A study on an 8-hydroxyquinoline amino acid hybrid and its half-sandwich complexes

Supervisor: Dr. Éva Anna Enyedy

BSc degree in chemistry

University of Szeged [2016 – 2020]

Country: Hungary

Thesis: Investigation of the conversion of estrone-3-ethers under UV-light

Supervisor: Dr. János Wölfling

TEACHING ACTIVITIES

Quantitative chemical analysis

2022, 2023

Analytical chemistry laboratory

2023

Biological analytical chemistry laboratory

2024

DIGITAL SKILLS

Microsoft Office / MestReNova / PSEQUAD / Hyperquad / HypSpec / ChemDraw / ChemAxon Marvin

RESEARCH TRIP

Short-term scientific mission

2023, 1 month, Instituto Superior Técnico, Universidade de Lisboa in Portugal
Synthesis of new ligands and metal complexes of 8-hydroxyquinoline derivatives

Supervisor: Dr. Isabel Correia

LANGUAGE SKILLS

Mother tongue(s): Hungarian

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

Publications:

Tamás Pivarcsik, Vivien Pósa, **Hilda Kovács**, Nóra V. May, Gabriella Spengler, Szonja P. Pósa, Szilárd Tóth, Zeinab Nezafat Yazdi, Csilla Özvegy-Laczka, Imre Ugrai, István Szatmári, Gergely Szakács, Éva A. Enyedy,
Metal complexes of a 5-nitro-8-hydroxyquinoline-proline hybrid with enhanced water solubility targeting multidrug resistant cancer cells International
Journal of Molecular Sciences 24 (2023) 593.

János P. Mészáros, **Hilda Kovács**, Gabriella Spengler, Ferenc Kovács, Éva Frank, Éva A. Enyedy
A comparative study on the metal complexes of an anticancer estradiol-hydroxamate conjugate and salicylhydroxamic acid
Journal of Inorganic Biochemistry 244 (2023) 112223.

Hilda Kovács, Tamás Jakusch, Nóra V. May, Szilárd Tóth, Gergely Szakács, Éva A. Enyedy
Complex formation of ML324, the histone demethylase inhibitor, with essential metal ions: relationship between solution chemistry and anticancer activity
Journal of Inorganic Biochemistry 255 (2024) 112540.

CONFERENCES AND SEMINARS

Oral presentations:

Kovács Hilda, Pivarcsik Tamás, Spengler Gabriella, Szatmári István, Enyedy Éva A.
Egy vízoldható, rákellenes 8-hidroxi-kinolin-aminosav hibrid és félszendvics ródium és ruténium komplexeinek vizsgálata XLIV. Kémiai Előadói Napok, 2021.10.26–27. Szeged (online)

Kovács Hilda, Jakusch Tamás, May Nóra V., Tóth Szilárd, Szakács Gergely, Enyedy Éva A.
Egy hiszton-demetiláz KDM4 enzim inhibitor (ML324) komplexképzésének vizsgálata esszenciális fémionokkal
56. Komplexkémiái Kollokvium, 2023.05.30.–06.01. Szeged

Posters:

Tamás Pivarcsik, **Hilda Kovács**, Gabriella Spengler, István Szatmári, Oszkár Csuvik, Éva A. Enyedy
A water-soluble 8-hydroxyquinoline-amino acid hybrid and its half-sandwich rhodium and ruthenium complexes to target multidrug resistant cancer cells
4th Annual Conference, New diagnostic and therapeutic tools against multidrug resistant tumours, 6-8.09.2021, Prague, Czechia

János P. Mészáros, **Hilda Kovács**, Gabriella Spengler, Ferenc Kovács, Éva Frank, Éva A. Enyedy
Aqueous solution behaviour of half-sandwich Ru and Rh complexes of an salicylhydroxamic acid derivative
ISMEC 2022 International Symposium on Metal Complexes, 5-8.06.2022, Valencia, Spain

Tamás Pivarcsik, Márton A. Kiss, U. Rapus, **Hilda Kovács**, Éva Frank, Iztok Turel, Éva A. Enyedy
Complexes formed with $[\text{Ru}(\eta^6\text{-p-cymene})(\text{Cl})_2]_2$, $[\text{Rh}(\eta^5\text{-C}_5\text{Me}_5)(\text{Cl})_2]_2$ and $[\text{Re}(\text{Cl})(\text{CO})_5]$ organometallic cations of sterane-based ligands bearing (N,N) donor set
3rd European NECTAR Conference, 24-26.08.2022., Ljubljana, Slovenia

Hilda Kovács, Tamás Jakusch, Nóra V. May, Szilárd Tóth, Gergely Szakács, Éva A. Enyedy
Study of Complex formation of ML324, a histone demethylase KDM4 inhibitor, with essential metal ions
ISMEC 2023 International Symposium on Metal Complexes, 2023.06.11-14., Urbino, Italy; "Award to the Best Poster Contributions"

Éva A. Enyedy, Tamás Pivarcsik, Vivien Pósa, **Hilda Kovács**, Éva Frank, Isabel Correia, Iztok Turel, Gabriella Spengler
Modulation of the anticancer and solution chemical properties of 8-hydroxyquinolines and oligopyridines via metal complexation
4th European NECTAR Conference, and Final Action Meeting, 2024.02.26-27, Milazzo, Italy

Hilda Kovács, Leonor Côrte-Real, Isabel Correia, Gabriella Spengler, Éva A. Enyedy
Solution equilibrium studies on 8-hydroxyquinoline reduced Schiff bases and their complexes with essential metal ions
4th European NECTAR Conference, and Final Action Meeting, 2024.02.26-27, Milazzo, Italy