

Dr. József Kalmár's Curriculum Vitae

Name: **Dr. József Kalmár**
Data of birth: 1985.
Nationality: Hungarian
Family status: married, 3 children
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Education and scientific degrees

2019 **Habilitation in Chemical Sciences**
University of Debrecen
2009 – 2013 **Ph.D. in Chemistry (with Special Honors)**
University of Debrecen, Doctoral School of Chemistry
2004 – 2009 **Chemistry M.Sc. (with Special Honors)**
English-Hungarian Professional Translator
University of Debrecen, Faculty of Science and Technology

Primary occupation

from 2014 **Associate Professor / Senior Researcher**
Hungarian Research Network – HUN-REN,
University of Debrecen, Debrecen, Hungary

Industrial experience

2012 – 2014 **R&D Chemist**
TEVA Pharmaceutical Works Ltd., Active Pharmaceutical
Ingredients Division, Molecular Biology and Enzyme Technology
Development Group

International experience

2010 – 2011 (13 months) Research Assistant: **University of Oklahoma**
Department of Chemistry and Biochemistry, Norman, OK, USA
2008 and 2009 (2 months) Visiting Scholar: **University of Zagreb**
Faculty of Pharmacy and Biochemistry, Zagreb, Croatia

Research interest and expertise

Hungarian Research Network – HUN-REN / University of Debrecen:

- Structure-properties-function relationships in nanostructured solids (aerogels).
- Mechanisms of physico-chemical processes on solid-liquid interfaces.
- Mechanisms of redox reactions and photoreactions of inorganic compounds.

University of Oklahoma (with Prof. Dr. Michael T. Ashby):

- Kinetics and mechanisms of redox and hydrolytic reactions of hypohalite ions.
- Reversible formation and dissociation of supramolecular complexes.

TEVA Pharmaceutical Works, Active Pharmaceutical Ingredients Division:

- Development of biocatalytic reaction steps for active ingredients production.
- Expression and purification of proteins, including enzymes.

University courses taught

from 2019 Lecturer of **General Chemistry Theory** (Hungarian & English)
from 2014 Lecturer of **Chemometrics** (Hungarian & English)
from 2008 Chemistry laboratory practices and seminars (Hungarian & English)

Training of students

from 2019 Training and supervision of **4 Ph.D. students**
from 2014 Supervised **16 M.Sc. thesis topics** (Hungarian & English)

Memberships

from 2022 Vice-PI of **HUN-REN Mechanisms of Complex Homogeneous and Heterogeneous Chemical Reactions Research Group**
from 2019 EU AERoGELS COST Action (H2020 – CA18125)
from 2014 Lecturer of University of Debrecen "István Hatvani" Honors College
from 2014 Hungarian Academy of Sciences Colloid Chemistry Workgroup
from 2009 Hungarian Academy of Sciences Reaction Kinetics Workgroup

Scholarships, awards, honors

2023 Hungarian Academy of Sciences **Bolyai Plaque**
2020 Hungarian Academy of Sciences **Mihály Polányi Prize**
2019 – 2022 Hungarian Academy of Sciences János Bolyai Research Scholarship
2016 – 2022 New National Excellence Program Scholarship (5 grant periods)
2016 OTKA Postdoctoral Grant – National Scientific Research Fund
2014 *Promotio sub auspiciis praesidentis Rei Publicae* (National Honor)

Research grants as Principal Investigator

2022 – 2025 Task leader of "I.S.B.A. – EU HORIZON-CL4-2022-SPACE-01-81" consortium: **2 999 kEUR – 10 participants (DE, FR, ES, HU)**
2017 – 2022 National Scientific Research Fund, FK_OTKA Grant: **82 kEUR**
2015 – 2016 University of Debrecen Research Grant: **21 kEUR**

Metrics of scientific publications

- No. of publications in international journals: **51** (31 as corresponding author)
- Summarized impact factor of publications: **268**
- No. of (independent) citations: **1271 (1008)**; H-index: **20**
- Keynote and invited lectures in international conferences: **6** (since 2020)