RESEARCH CENTRE FOR NATURAL SCIENCES

www.ttk.hu/en

- **Located in Budapest**
- **Member of the Eötvös Loránd Research Network**
- **Hungarian Academy of Sciences Centre of Excellence**
- **Institutional memberships in 5 international organizations**
- **37 MoU and agreements with international parties**
- **23 consortial research projects**
- **20 bilateral governmental projects**
- **431 employees of which 294 researchers**
- **427 publications (2019)**
- **24 782 citations (2018)**
- **Impact Factor: 1 693.0**

The **Research Centre for Natural Sciences** is open to further joint research activities at the international level.

For any further information on possible international cooperation please contact Mr. András TOMPOS PhD at tompos.andras@ttk.hu.

The **Research Centre for Natural Sciences** endeavour to undertake a primary role in the cause of public welfare and founding the future, based upon domestic research traditions, by conducting discovery research promising significant achievements on an international scale and valuable scientific results.

The Research Centre for Natural Sciences was established during a renewal process of the Hungarian Academy of Sciences by merging three institutes and a research centre on 1 January 2012. On 1 September 2019, the Academy's research network was transferred into the Eötvös Loránd Research Network (ELKH), thus the Research Centre for Natural Sciences continued its work under the direction of the ELKH.

In virtue of its Deed of Foundation, the Research Centre for Natural Sciences has carried out multidisciplinary research activities in natural sciences, in the **fields** of:

- enzymology, molecular biology, and oncology,
- organic chemistry,
- molecular pharmacology,
- cognitive neuroscience and psychology, as well as
- materials- and environmental chemistry.

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Institutes of the Research Centre for Natural Sciences have given priority to disciplines that may be interpreted as three independent entities in the dimensions of human, material and environment. The interaction of these systems has defined the disciplines in a wider sense that is associated with the scientific mission of the Research Centre for Natural Sciences.

At present, the Research Centre for Natural Sciences involves four institutes, and manage two centres:

- Institute of Materials and Environmental Chemistry
- Institute of Enzymology
- Institute of Cognitive Neuroscience and Psychology
- Institute of Organic Chemistry
- Brain Imaging Centre
- Centre for Structural Sciences

Human resources

In the Research Centre for Natural Sciences the average number of employees was 431 in 2019, of which the number of researchers was 294.
45% of the researchers were women. 5 researchers were Full or Corresponding Members of the Hungarian Academy of Sciences, 26 scientists held the title of Doctor of the Hungarian Academy of Sciences, and 172 co-workers had a PhD or were candidates.
The rate of young researchers (under the age of 35 years) was 42%.

Institutional membership in international organisations

- ELIXIR
- European Crystallographic Association (ECA)
- International Union of Biochemistry and Molecular Biology (IUBMB)
- International Union of Crystallography (IUCr)
- European Food Safety Authority (EFSA)
- Hydrogen Europe Research (HER)

Main achievements in 2019

- The molecular mechanism of structural changes in the antimicrobial peptide CM15 upon complex formation with drug molecule suramin: a computational analysis / Royal Society of Chemistry (link)
- Structural insights into the tyrosine phosphorylation–mediated inhibition of SH3 domain–ligand interactions / Journal of Biological Chemistry (link)
- The dog (Canis familiaris) as a translational model of autism: It is high time we move from promise to reality / WIREs Cognitive Science (link)
- Front Cover: Size-Exclusion Borane-Catalyzed Domino 1,3-Allylic/Reductive Ireland–Claisen Rearrangements: Impact of the Electronic and Structural Parameters on the 1,3-Allylic Shift Aptitude / Chemistry – A European Journal (link)
- DUckCov: a Dynamic Undocking-Based Virtual Screening Protocol for Covalent Binders / ChemMedChem (link)

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