

## Results of the Grant Competition for 2024 Specific Research Projects

In accordance with the Dean's Decision No. 2/2024, the PŘF UHK Dean announces the results of the grant competition for 2024 specific research projects.

**Table 1: Standard projects accepted for funding**

Researcher	Project title	Amount allocated
Mgr. Eliška Aubrechtová	Hradubice: Biodiversity on a Rural-Urban Environment Gradient	CZK 156,000
doc. Mgr. Petr Bogusch, Ph.D.	Study of Insects on Invasive Plants and the Importance of Insect Hotels and Nesting Blocks	CZK 136,700
Mgr. Klára Faistauerová	Micro-Solid Phase Extraction Sample Preparation Method for a Sensitive LC-MS Analysis of Small-Molecule Neurotransmitters in Biological Samples	CZK 250,000
Mgr. Jan Hurdálek	Functional Study of PDZ3 Domain of ZO-1 in Synthetic Fusion Proteins	CZK 248,500
Mgr. Jaromír Janoušek	Effect of Plant Hormones on the Dynamics of Photosynthetic Processes in Tomato Plants Exposed to Different Drought Severities	CZK 87,800
Mgr. Katarína Jurková	Investigation of New Low Molecular Weight Inhibitors of Cyclophilin D as Potential Drugs	CZK 250,000
RNDr. Jiří Kos	Characterization of Star-Branched Polyesters for Pharmaceutical Applications with a Focus on the Use of Raman Spectroscopy	CZK 146,000
Mgr. Lucie Kotyzová	Water Quality Reconstruction in Tinkers Creek (OH, USA) Using Bioindication by Diatoms (Bacillariophyceae) from the Digestive Tract of Fish for the Period 1922-2023	CZK 67,500
Ing. Dominik Matoulek	Strength analysis of Filaments for 3D Printing Specified by the Manufacturer	CZK 173,000
Mgr. Sára Rademacherová	Modified Oxime Nucleophiles for Efficient Cholinesterase Reactivation	CZK 250,000
Prof. RNDr. Karel Šilhán, Ph.D.	Annual Ring Chronology of Slope Processes on the Eastern Margin of the Bohemian Cretaceous Basin	CZK 47,500

**Table 2: Excellent PhD projects accepted for funding**

<b>Researcher</b>	<b>Project title</b>	<b>Amount allocated</b>
Mgr. Zdeňka Neuerová	LC/MS Analysis of Metabolites in Brain Microdialysate	CZK 600,000
Mgr. Aneta Rotterová	The Contribution of 17 $\beta$ -hydroxysteroid Dehydrogenase Type 10 to the Alzheimer's Disease Pathology	CZK 600,000

This Decision shall enter into force and effect on the date of signature.

In Hradec Králové on 5 April 2024

Assoc. prof. RNDr. Jan Kříž, Ph.D.  
Dean of the Faculty of Science