

Results of the Grant Competition for 2025 Specific Research Projects

In accordance with the Dean's Decisions No. 3/2025 and No. 5/2025, the PŘF UHK Dean announces the results of the grant competition for 2025 specific research projects.

Table 1: Standard projects accepted for funding

RESEARCHER	PROJECT TITLE	AMOUNT ALLOCATED
RNDr. Oleksandr Kozlov, PhD.	Chiral supercritical fluid chromatography-mass spectrometry analysis of triacylglycerol estolides	CZK 250,000
Mgr. Markéta Sedláček Miškeříková	Research of novel inhibitors of the mitochondrial enzyme 17 β -HSD10 as potential drugs for treatment of Alzheimer's disease	CZK 250,000
Mgr. Petra Pekárková	The study of the significance of insect hotels and nest blocks for pollinating insects	CZK 63,500
RNDr. Zdeňka Neuerová	The stability of polar metabolites in (non)targeted LC-MS metabolomic analysis	CZK 250,000
Mgr. Marie Drábková, Ph.D.	Search for Micrognathozoa and limnological survey of mountain pools	CZK 110,000
Mgr. Tereza Hofmanová	Novel derivatization strategies for sensitive LC-MS quantification of catecholamines and their metabolites in biological matrices	CZK 250,000
RNDr. Lukáš Fresser	Design, synthesis and biological evaluation of JNK3 selective inhibitors with a potential of neurodegenerative disease treatment	CZK 250,000

RNDr. Jan Hurdálek	Targeting cancer cells using PDZ-domain-containing fusion proteins	CZK 244,000
doc. RNDr. Jan Šlégr, Ph.D.	Flat Earth theory as a tool for developing critical thinking	CZK 44,000
Ing. Michal Macinka	Enhancing language acquisition through AI-powered e-learning	CZK 96,100
Mgr. Darina Picková, Ph.D.	Safety of Infant Foods: Analysis of Mycotoxin Patulin in Organic and Conventional Apple-Based Infant Foods Using HPLC-DAD method	CZK 41,940

Table 2: Standard projects not accepted for funding

RESEARCHER	PROJECT TITLE	AMOUNT ALLOCATED
RNDr. Zuzana Kovalíková, Ph.D.	Stomata as an indicator of drought tolerance in fruit trees	CZK 0
RNDr. Jakub Toman, Ph.D.	Determination of the mycotoxin zearalenone in pig plasma by the HPLC-FLD method in order to improve the quality of breeding, increase the safety and health of farmed animals	CZK 0
RNDr. Romana Prausová, Ph.D.	Aquatic and wetland plants in water pools in the nature reserve Baroch (East Bohemia) and Vegetation changes of three protected areas in Liberec region, recorded by repeated phytosociological relevés in phytosociological areas and floristic-mycological research	CZK 0

Table 3: Excellent PhD projects accepted for funding

RESEARCHER	PROJECT TITLE	AMOUNT ALLOCATED
Ing. Charline Monnier	PETase Immobilization: A Strategy to Overcome Enzyme Limitations for PET Bioremediation	CZK 502,000
Mgr. Sára Rademacherová	Modified nucleophiles derived from trimedoxime in the reactivation of inhibited cholinesterases	CZK 600,000

Table 4: Excellent PhD projects not accepted for funding

RESEARCHER	PROJECT TITLE	AMOUNT ALLOCATED
Mgr. Eliška Aubrechtová	Dynamics of insect communities in urban green spaces: Challenges for biodiversity conservation	CZK 0

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

In Hradec Králové on 27 May 2025.

RNDr. Alena Myslivcová Fučíková, Ph.D.
Dean of the Faculty of Science UHK