



Announcement of Results of the Competition for the PŘF UHK Dean's Prizes (results submitted by 31 December 2020)

A total of 47 applications were submitted to the Competition for the PŘF UHK Dean's Prizes by 31 December 2020, of which:

- 33 in category A) Scientific Publication in an IF Professional Journal;
- 1 in category B) Foreign Monograph Published by a Renowned Publishing House;
- 0 in category C) Patents and Applied Results;
- 13 in category D) National and International Scientific Grants.

The competition was governed by Dean's Decision No. 7/2019.

The final ranking was decided by a committee consisting of the Dean, Vice-Deans and Heads of Departments at the Dean's Board on 13 January 2021. The PŘF UHK Dean hereby officially announces the final ranking of applications in each category:

A) Scientific Publication in an IF Professional Journal:

1st place:

Publication title: **The Embedding Tensor, Leibniz-Loday Algebras, and Their Higher Gauge Theories**

Awarded authors: Oleksii Kotov

2nd place:

Publication title: **Near-Natural Habitats near Almond Orchards with Presence of Empty Gastropod Shells are Important for Solitary Shell-Nesting Bees and Wasps**

Awarded authors: Petr Bogusch, Lucie Hostinská

3rd place:

Publication title: **Tree Ring Evidence of Slope Movements Preceding Catastrophic Landslides**

Awarded authors: Karel Šilhán

4th place:

Publication title: **Dendrogeomorphology of Landslides: Principles, Results and Perspectives**

Awarded authors: Karel Šilhán

5th place:

Publication title: **A Perspective on Multi-Target Drugs for Alzheimer's Disease**

Awarded authors: Ondřej Benek

6th place:

Publication title: **The Determinant of One-Dimensional Polyharmonic Operators of Arbitrary Order**

Awarded authors: Jiří Lipovský

7th place:

Publication title: **Eigenvalue Asymptotics for the Damped Wave Equation on Metric Graphs**

Awarded authors: Jiří Lipovský

8th place:

Publication title: **Decomposable (6,5)-Solutions in 11-Dimensional Supergravity**

Awarded authors Ioannis Chrysikos, Anton Galaev

9th place:

Publication title: **Presence of Mycotoxins in Milk Thistle (*Silybum marianum*) Food Supplements: a Review**

Awarded authors: Darina Picková, Vladimír Ostrý, Jakub Toman, František Malíř

10th place:

Publication title: **Computer Aided Detection of Breathing Disorder from Ballistocardiography Signal Using Convolutional Neural Network**

Awarded authors: Filip Studnička, Richard Cimler, Jitka Kühnová, Jan Šlégr

B) Foreign Monograph Published by a Renowned Publishing House:

1st place:

Monography title: **Handbook of Toxicology of Chemical Warfare Agents**

Chapter title: **Novel Cholinesterase Reactivators**

Awarded authors: Kamil Musílek, Dávid Maliňák, Eugenie Nepovimová, Rudolf Andrýs, Adam Skarka, Kamil Kuča

2nd – 10th place: VACANT

C) Patents and Applied Results:

1st – 10th: VACANT

D) National and international scientific grants:

1st place:

Publication title: **IT4Neuro(degeneration)**

Registration number: CZ.02.1.01/0.0/0.0/18_069/0010054

Awarded researchers: Miroslav Lísa, Kamil Musílek, Ondřej Benek, Helena Řehulková, Monika Schmidt, Lucie Zemanová, Jana Svobodová, Petra Lišková

2nd place:

Publication title: **PREVENCE STÁRNUTÍ – Simultánní modulace ABAD a mTOR signální dráhy (AGING PREVENTION – Simultaneous Modulation of ABAD and mTOR Signaling Pathway)**

Registration number: NV19-09-00578

Awarded researchers: Kamil Kuča, Eugenie Nepovimová, Lucie Zemanová, Rudolf Andrýs, Žofia Chrienová

3rd place:

Project title: **Speciální metriky v supergravitaci a nové G-struktury (Special Metrics in Supergravity and New G-Structures)**

Registration number: GJ19-14466Y

Awarded researchers: Ioannis Chrysikos

4th place:

Project title: **PharmaBrain**

Registration number: CZ.02.1.01/0.0/0.0/16_025/0007444

Awarded researchers: Kamil Musílek, Rudolf Andrýs, Ondřej Benek, Miroslav Lísa, Dávid Maliňák, Miroslav Psoška, Adam Skarka

5th place:

Project title: **Terapeutický potenciál nových inhibitorů mTOR v procesu stárnutí (Therapeutic Potential of Novel mTOR Inhibitors in the Aging Process)**

Registration number: GA20-22037S

Awarded researchers: Eugenie Nepovimová, Jana Svobodová, Lucie Zemanová, Rudolf Andrýs, Žofia Chrienová

6th place:

Project title: **Enkapsulace reaktivátorů cholinesteras pomocí apoferritinu pro zvýšení biodostupnosti v centrálním nervovém systému (Encapsulation of Cholinesterase Reactivators by Apoferritin to Increase Bioavailability in the Central Nervous System)**

Registration number: GA19-13628S

Awarded researchers: Kamil Musílek, Ondřej Benek, Miroslav Psoška, Miroslav Lísa, Lucie Zemanová

7th place:

Project title: **Spojení superkritické fluidní chromatografie a hmotnostní spektrometrie jako nový nástroj pro charakterizaci lipidů a polárních metabolitů (Coupling of Supercritical Fluid Chromatography and Mass Spectrometry as a New Tool for the Characterization of Lipids and Polar Metabolites)**

Registration number: GA20-12289S

Awarded researchers: Miroslav Lísa, Eva Cífková, Petra Lišková, Helena Řehulková, Oleksandr Kozlov

8th place:

Project title: **Výzkum mechanismu toxicity S-konjugátů aminofenolických léčiv (Investigation of the Mechanism of Toxicity of Aminophenol Drugs S-Conjugates)**

Registration number: GA19-11867S

Awarded researchers: Kamil Musílek, Dávid Maliňák, Ondřej Benek, Miroslav Lísa, Lucie Zemanová

9th place:

Project name: **STAT3 inhibitory jako nástroj eliminace negativních účinků chemoterapie (STAT3 Inhibitors as a Tool for Elimination of Negative Effects of Chemotherapy)**

Registration number: NV18-05-00562

Awarded researchers: Kamil Musílek, Dávid Maliňák, Miroslav Psoška, Adam Skarka

10th place:

Project title: **Nové reaktivátory butyrylcholinestasy jako pseudokatalytické scavengery organofosforových sloučenin (New Butyrylcholinesterase Reactivators as Pseudocatalytic Scavengers of Organophosphorus Compounds)**

Registration number: 8F17004

Awarded researchers: Kamil Musílek, Dávid Maliňák, Eugenie Nepovimová, Adam Skarka

The prize money will be paid to the successful contestants at the next payout date.

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

In Hradec Králové, on 19 January 2021

Ass. Prof. RNDr. Jan Kříž, Ph.D.

Dean of the Faculty of Science, UHK



EUROPEAN UNION
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