



## Overview of employee involvement in project solutions

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### Projects supported by the Grant Agency of the Ministry of Education SR

**PO K9; 09-I05-03-V02-0007:**

Digitisation of biomedical laboratory analyses

*Head of the research team:* doc. Ing. Katarína Dubayová, PhD.

**APVV-22-0357:**

Non-invasive diagnostics based on ncRNA

*Head of the research team:* doc. RNDr. Miroslava Rabajdová, PhD.

**VEGA 1/0435/23:**

Investigation of the role of non-coding RNA and composition of metabolome in endometriosis and endometrial cancer

*Head of the research team:* prof. Ing. Mária Mareková, CSc.

**KEGA 017UPJŠ-4/2023**

CASE-PORTAL for the support and innovation of medical biochemistry teaching

*Head of the research team:* MUDr. Anna Birková, PhD.

**KEGA 014UPJŠ-4/2023:**

Basics of chemistry for foreign students - Biomedical aspects and applications

*Head of the research team:* doc. RNDr. Marek Stupák, PhD.

**VVGS-2023-2612:**

Introduction of a 3D *in vitro* model for the study of endometrial receptivity to trophoblast spheroids

*Head of the research team:* doc. RNDr. Miroslava Rabajdová, PhD.

**VEGA 1/0540/20:**

Study of selected biomarkers of the origin and progression of demyelinating CNS diseases

*Head of the research team:* doc. Mgr. Peter Urban, PhD.

**VEGA 1/0333/20:**

Tear fluid and saliva in preventive, predictive and personalized medicine

*Head of the research team:* doc. RNDr. Vladimíra Tomečková, PhD.

**VEGA 1/0620/19:**

The use of innovative molecular biochemistry methods in the diagnosis of non-perceptive endometrium in the process of *in vitro* fertilization

*Head of the research team:* doc. RNDr. Miroslava Rabajdová, PhD.



**VEGA 1/0559/18:**

Study of the origin and progression of periodontitis using the latest molecular-biochemical methods

*Head of the research team:* doc. RNDr. Janka Vašková, PhD.

**VEGA 1/0873/17:**

The use miRNA and fluorescence techniques in diagnosis of bladder tumors

*Head of the research team:* prof. Ing. Mária Mareková, CSc.

**VEGA 1/0873/16:**

Characterization of microenvironment of endometrial carcinoma

*Head of the research team:* RNDr. Miroslava Rabajdová, PhD.

**KEGA 013UPJŠ-4/2016:**

Clinical biochemistry

*Head of the research team:* prof. Ing. Mária Mareková, CSc.

**VEGA 1/0782/15:**

Effect of humic substances, acids and other natural ingredients to the functional status of some organs and mitochondria in their physiological condition and intoxication

*Head of the research team:* doc. MVDr. Ladislav Vaško, CSc.

**KEGA 3/7130/09:**

Biochemistry in scheme and pictures

*Head of the research team:* prof. Ing. Mária Mareková, CSc.

**VEGA 1/0799/09:**

Effect of omega - 3 PUFA and humic acids on metabolism and animal health, lipid composition and oxidative stability of animal feed products and derived foods on the health of patients

*Head of the research team:* doc. MVDr. Ladislav Vaško, CSc.

**VEGA 1/0624/08:**

The study of structure-activity relationship of chalcones on mitochondria

*Head of the research team:* prof. Ing. Juraj Guzy, CSc.

**VEGA 1/4233/07:**

Early diagnosis of ovarian carcinomas by new methods of biochemical analysis of blood and urine

*Head of the research team:* prof. Ing. Mária Mareková, CSc.

**APVV-0252 07:**

Multiple organ dysfunction syndromes after ischemia/transplantation of the small intestine

*Head of the biochemistry research team:* prof. Ing. Mária Mareková, CSc.

**VEGA 1/3364/06:**

Fluorescence spectral matrix of biological fluids - new search tool of molecular markers of severe metabolic disorders (quasi - metabolomic profiling)

*Head of the research team:* doc. RNDr. Jaroslav Kušník, CSc.

**KEGA 3/3187/05:**

Biochemistry for the medical faculty

*Head of the research team:* prof. MUDr. Dušan Dobrota, CSc.



### **VEGA 1/2267/05:**

Natural and synthetic flavonoids (chalcones) - molecular mechanisms of action on living systems  
*Head of the research team:* prof. Ing. Juraj Guzy, CSc.

## **Projects supported by EU structural funds**

### **AKARDIO COVID19**

Analysis of the cardiovascular and immunological response of patients after overcoming COVID-19 with a focus on the research of new diagnostic markers and therapeutic agents

*313AUB100001 Research of new diagnostic markers and therapeutic agents with a diagnosis of COVID-19*

### **OPENMED - ITMS2014+: 313011V455**

Open scientific community for modern interdisciplinary research in medicine; *Activity 313V45500005-H5: Cardiovascular Diseases (NV95)*

### **MEDIPARK - ITMS: 26220220185**

Medical University Science Park in Košice (MediPark, Košice)

### **CEMIO - ITMS: 26220120058**

Centre of Excellence for Research on determinants of health, with a focus on group of marginalized and immunocompromised people; *Activity 1.4: Modernization of infrastructure for research on rapid metabolic monitoring of health status*

*Head of the research team:* prof. Ing. Juraj Guzy, CSc.

*Manager of project:* doc. Mgr. Peter Urban, PhD.

### **CEEPM - ITMS: 26220120067**

Centre of Excellence for electromagnetic fields in medicine; *Activity 1.4: Completing the Laboratory of Biochemical Analysis*

*Head of the research team:* prof. Ing. Mária Mareková, CSc.

### **PROBIOTECH - ITMS: 26220220152**

Competence Center for biomodulators and nutritional supplements; *Activity 2.1: Research and development of boosted probiotics, biomodulation products and functional foods*

*Head of the research team:* prof. Ing. Mária Mareková, CSc.

### **DIAGONKO - ITMS: 26220220153**

Competence Center for Research and Development in the diagnosis and treatment of cancer; *Activity 2.4: Proteomic and biochemical analysis of blood and tissues of animals and patients irradiated by protons potentiated probiotics, biomodulation products and functional foods*

*Head of the research team:* prof. Ing. Mária Mareková, CSc.