

## ***The Projects of Scientific Grant Agency of the Ministry of Education of Slovak republic and the Slovak Academy of Sciences***

The list of actual projects at Jessenius Faculty of Medicine Comenius University in Martin:

- 1. The principal investigator: Assoc. Prof. Michal Javorka, M.D., PhD.**  
Department of Physiology  
Number of the project: 1/0059/13  
Title of the project: Cardiovascular dysregulation in adolescents with overweight and obesity: complex assessment by analysis of heart rate variability, blood pressure variability and their synchronization.  
Duration of the project: 2013-2016
- 2. The principal investigator: Radovan Murín, Mgr., PhD.**  
Department of Medical Biochemistry  
Number of the project: 1/0242/13  
Title of the project: Metabolism of homocysteine by human neural cells.  
Duration of the project: 2013-2016
- 3. The principal investigator: Assoc. Prof. Miriam Čiljaková, M.D., PhD.**  
Clinic of Pediatrics and Adolescent Medicine  
Number of the project: 1/0262/14  
Title of the project: The changes in sleep architecture and its influence on current and long-term control of type 1 diabetes mellitus in childhood.  
Duration of the project: 2014-2016
- 4. The principal investigator: Assoc. Prof. Soňa Fraňová, Dr., PhD.**  
Department of Pharmacology  
Number of the project: 1/0165/14  
Title of the project: Pharmacological modulation of ciliary beat frequency in respiratory epithelium.  
Duration of the project: 2014-2016
- 5. The principal investigator: Prof. Peter Kaplán, Dr., PhD.**  
Department of Medical Biochemistry  
Number of the project: 1/0129/14  
Title of the project: Effect of aging and ischemia on structural and functional properties of proteins.  
Duration of the project: 2014-2017
- 6. The principal investigator: Prof. Ján Švihra, M.D., PhD.**  
Clinic of Urology  
Number of the project: 1/0067/14  
Title of the project: Mechanisms of neurogenic lower urinary tract dysfunction - basic and clinical studies.  
Duration of the project: 2014-2017

- 7. The principal investigator: Assoc. Prof. Jana Plevková, M.D., PhD.**  
Department of Pathological Physiology  
Number of the project: 1/0107/14  
Title of the project: Antagonists of H3 and H4 histamine receptors – antitussive efficacy in the upper airway cough syndrom – studies in guinea pig models.  
Duration of the project: 2014-2017
- 8. The principal investigator: Assoc. Prof. Juraj Mokřý, M.D., PhD.**  
Department of Pharmacology  
Number of the project: 1/0260/14  
Title of the project: Influence of phosphodiesterase inhibitors on apoptosis and inflammation in experimentally induced allergic airways inflammation.  
Duration of the project: 2014-2017
- 9. The principal investigator: Assoc. Prof. Daniela Mokřá, M.D., PhD.**  
Department of Physiology  
Number of the project: 1/0305/14  
Title of the project: New strategies in the treatment of acute lung injury.  
Duration of the project: 2014-2017
- 10. The principal investigator: Assoc. Prof. Miloř Jeseňák, M.D., PhD.**  
Clinic of Pediatrics and Adolescent Medicine  
Number of the project: 1/0252/14  
Title of the project: Study of immune tolerance mechanisms in relationship with the development of bronchial asthma in children.  
Duration of the project: 2014-2017
- 11. The principal investigator: Assoc. Prof. Ingrid Tonhajzerová, M.D., PhD.**  
Department of Physiology  
Number of the project: 1/0087/14  
Title of the project: Altered response to stress – a potential pathomechanism of cardiovascular complications of the civilization diseases.  
Duration of the project: 2014-2017
- 12. The principal investigator: Prof. Lukáš Plank, M.D., PhD.**  
Department of Pathological Anatomy  
Number of the project: 1/0268/15  
Title of the project: Analysis of immunohistochemical p53 protein expression in trephine bone marrow biopsies as a contribution for prediction of therapeutical effects in patients with high risk myelodysplastic syndrome.  
Duration of the project: 2015-2016
- 13. The principal investigator: Mária Kovalská, Dr., PhD.**  
Department of Histology and Embryology  
Number of the project: 1/0229/15  
Title of the project: Association of induced hyperhomocysteinemia with progression of neurodegenerative changes under the experimental conditions.  
Duration of the project: 2015-2017

- 14. The principal investigator: Prof. Mirko Zibolen, M.D., PhD.**  
Clinic of Neonatology  
Number of the project: 1/0100/15  
Title of the project: Genetic heterogeneity in retinopathy of prematurity.  
Duration of the project: 2015-2017
- 15. The principal investigator: Assoc. Prof. Zora Lasabová, Dr., PhD.**  
Department of Molecular Biology  
Number of the project: 1/0102/15  
Title of the project: Free circulating miRNAs and miRNA-related single nucleotide polymorphism in the pathogenesis of preeclampsia as candidates for non-invasive biomarkers.  
Duration of the project: 2015-2017
- 16. The principal investigator: Prof. Miloš Tatár, M.D., PhD.**  
Department of Pathological Physiology  
Number of the project: 1/0226/15  
Title of the project: The role of vagus nerves in visceral pain.  
Duration of the project: 2015-2017
- 17. The principal investigator: Assoc. Prof. Mariana Brozmanová, Dr., PhD.**  
Department of Pathological Physiology  
Number of the project: 1/0070/15  
Title of the project: Immunological mechanisms of neural hypersensitivity in eosinophilic disorders of gastrointestinal system.  
Duration of the project: 2015-2018
- 18. The principal investigator: Michal Šimera, Dr., PhD.**  
Department of Medical Biophysics  
Number of the project: 1/0253/15  
Title of the project: Interactions of neuronal structures controlling respiratory and cardiomotor functions in anaesthetized animals.“  
Duration of the project: 2015-2018
- 19. The principal investigator: Prof. Kamil Javorka, M.D., D.Sc.**  
Department of Physiology  
Number of the project: 1/0202/16  
Title of the project: Mechanisms of the cardiovascular system regulation in newborns by autonomic nervous system.  
Duration of the project: 2016-2018
- 20. The principal investigator: Prof. Andrea Čalkovská, M.D., D.Sc.**  
Department of Physiology  
Number of the project: 1/0469/16  
Title of the project: Pulmonary surfactant and lipopolysaccharide: interaction and its functional consequences.  
Duration of the project: 2016-2018
- 21. The principal investigator: Prof. Marián Mokáň, M.D., D.Sc., FRCP Edin**  
Clinic of Internal Medicine I.

Number of the project: 1/0160/16

Title of the project: Diagnostic - prognostic relevance of adipocytokine network and glucose homeostasis assessment in cachexia.

Duration of the project: 2016-2018

**22. The principal investigator: Ema Kantorová, M.D., PhD.**

Clinic of Neurology

Number of the project: 1/0287/16

Title of the project: Correlation of MR volumetry and MR spectroscopy of subcortical gray matter with electrophysiological measures and selected laboratory markers in patients during early stages of multiple sclerosis, with a focus in highly active forms of the disorder.

Duration of the project: 2016-2018

**23. The principal investigator: Assoc. Prof. Martina Šutovská, M.D., PhD.**

Department of Pharmacology

Number of the project: 1/0163/16

Title of the project: The role of cytokines, chemokines and growth factor in pathogenesis of degenerative spine disorders.

Duration of the project: 2016-2018

**24. The principal investigator: Assoc. Prof. Peter Kubatka, Dr., PhD.**

Department of Medical Biology

Number of the project: 1/0108/16

Title of the project: The evaluation of anti-tumor effects of plant-derived functional foods in the breast cancer model.

Duration of the project: 2016-2018

**25. The principal investigator: Prof. Ján Staško, M.D., PhD.**

Clinic of Hematology and Transfusiology

Number of the project: 1/0168/16

Title of the project: The use of monitoring of changes in haemostasis and detection of microRNA in the prediction of pregnancy complications in women with high-risk pregnancies.

Duration of the project: 2016-2019

**26. The principal investigator: Prof. Ján Lehotský, Dr., D.Sc.**

Department of Medical Biochemistry

Number of the project: 1/0128/16

Title of the project: Epigenetic and molecular mechanisms of neuroprotection and ischemic tolerance.

Duration of the project: 2016-2019

**27. The principal investigator: Prof. Marián Adamkov, M.D., PhD.**

Department of Histology and Embryology

Number of the project: 1/0129/16

Title of the project: Mismatch repair proteins (MMRP) and survivin in pathogenesis of colorectal cancer.

Duration of the project: 2016-2019

**28. The principal investigator: Assoc. Prof. Ivan Poliaček, Dr., PhD.**

Department of Medical Biophysics

Number of the project: 1/0072/16

Title of the project: CENTRAL NEUROCHEMICAL MODULATION OF AIRWAY DEFENSIVE MECHANISMS.

Duration of the project: 2016-2019